CITY OF EUSTIS MUNICIPAL FIREFIGHTERS' PENSION AND RETIREMENT SYSTEM

ACTUARIAL VALUATION AS OF OCTOBER 1, 2020

CONTRIBUTIONS APPLICABLE TO THE PLAN/FISCAL YEAR ENDING SEPTEMBER 30, 2022

GASB 67/68 DISCLOSURE INFORMATION AS OF SEPTEMBER 30, 2020





May 10, 2021

Board of Trustees City of Eustis Firefighters' Pension Board

Re: City of Eustis Municipal Firefighters' Pension and Retirement System

Dear Board:

We are pleased to present to the Board this report of the annual actuarial valuation of the City of Eustis Municipal Firefighters' Pension and Retirement System. Included are the related results for GASB Statements No. 67 and No. 68. The funding valuation was performed to determine whether the assets and contributions are sufficient to provide the prescribed benefits and to develop the appropriate funding requirements for the applicable plan year. The calculation of the liability for GASB results was performed for the purpose of satisfying the requirements of GASB Statements No. 67 and No. 68. Use of the results for other purposes may not be applicable and may produce significantly different results.

The valuations have been conducted in accordance with generally accepted actuarial principles and practices, including the applicable Actuarial Standards of Practice as issued by the Actuarial Standards Board, and reflect laws and regulations issued to date pursuant to the provisions of Chapters 112 and 175, Florida Statutes, as well as applicable federal laws and regulations. In our opinion, the assumptions used in the valuations, as adopted by the Board of Trustees, represent reasonable expectations of anticipated plan experience.

The funding percentages and unfunded accrued liability as measured based on the actuarial value of assets will differ from similar measures based on the market value of assets. These measures, as provided, are appropriate for determining the adequacy of future contributions, but may not be appropriate for the purpose of settling a portion or all of its liabilities. Future actuarial measurements may differ significantly from the current measurements presented in this report for a variety of reasons including: changes in applicable laws, changes in plan provisions, changes in assumptions, or plan experience differing from expectations. Due to the limited scope of the valuations, we did not perform an analysis of the potential range of such future measurements.

In conducting the valuations, we have relied on personnel, plan design, and asset information supplied by the City of Eustis, financial reports prepared by the custodian bank, and the actuarial assumptions and methods described in the Actuarial Assumptions section of this report. While we cannot verify the

accuracy of all this information, the supplied information was reviewed for consistency and

reasonableness. As a result of this review, we have no reason to doubt the substantial accuracy of the

information and believe that it has produced appropriate results. This information, along with any

adjustments or modifications, is summarized in various sections of this report.

The total pension liability, net pension liability, and certain sensitivity information shown in this report

are based on an actuarial valuation performed as of October 1, 2019. The total pension liability was

rolled-forward from the valuation date to the plan's fiscal year ending September 30, 2020 using

generally accepted actuarial principles. It is our opinion that the assumptions used for this purpose are

internally consistent, reasonable, and comply with the requirements under GASB No. 67 and No. 68.

The undersigned are familiar with the immediate and long-term aspects of pension valuations, and meet

the Qualification Standards of the American Academy of Actuaries necessary to render the actuarial

opinions contained herein. All of the sections of this report are considered an integral part of the actuarial

opinions.

To our knowledge, no associate of Foster & Foster, Inc. working on valuations of the program has any

direct financial interest or indirect material interest in the City of Eustis, nor does anyone at Foster &

Foster, Inc. act as a member of the Board of Trustees of the Municipal Firefighters' Pension and

Retirement System. Thus, there is no relationship existing that might affect our capacity to prepare and

certify this actuarial report.

If there are any questions, concerns, or comments about any of the items contained in this report, please

contact us at 239-433-5500.

Respectfully submitted,

Foster & Foster, Inc.

Bv:

Patrick T. Donlan, EA, ASA, MAAA

Enrolled Actuary #20-6595

Bv:

uke M. Schoenhofen, ASA, MAAA

PTD/lke Enclosures

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SUMMARY OF REPORT

The regular annual actuarial valuation of the City of Eustis Municipal Firefighters' Pension and Retirement System, performed as of October 1, 2020, has been completed and the results are presented in this Report. The contribution amounts set forth herein are applicable to the plan/fiscal year ending September 30, 2022.

The contribution requirements, compared with those set forth in the October 1, 2019 actuarial valuation report, are as follows:

Valuation Date Applicable to Fiscal Year Ending	10/1/2020 <u>9/30/2022</u>	10/1/2019 <u>9/30/2021</u>
Minimum Required Contribution % of Projected Annual Payroll	49.2%	52.3%
Member Contributions (Est.) % of Projected Annual Payroll	4.0%	4.0%
City And State Required Contribution % of Projected Annual Payroll	45.2%	48.3%
State Contribution (Est.) ¹ % of Projected Annual Payroll	\$94,509 6.2%	\$94,509 6.2%
City Required Contribution ² % of Projected Annual Payroll	39.0%	42.1%

¹ The State Contribution reflects the "default" calculation under Chapter 2015-39 Laws of Florida. We applied this effective October 1, 2016. It is important to note that the estimated allowable State Contribution is based on the amount received in 2020.

² The required contribution from the combination of City and State sources for the year ending September 30, 2022, is 45.2% of the actual payroll realized in that year. As a budgeting tool, the City may contribute 39.0% of each Member's Salary and then make a one-time adjustment to account for the actual State Monies received. Please note that a shortfall contribution of \$22,870.79 is due in addition to the above stated requirements for the fiscal year ending September 30, 2021.

As you can see, the Minimum Required Contribution shows an decrease when compared to the results determined in the October 1, 2019 actuarial valuation report. The decrease is primarily attributable to net favorable plan experience and an assumption change outlined on the following page.

Plan experience was favorable overall on the basis of the plan's actuarial assumptions. Sources of actuarial gain included inactive mortality experience, an average salary increase of 4.70% which fell short of the 6.52% assumption, and an investment return of 8.98% (Actuarial Asset Basis) which exceeded the 7.80% assumption. There were no significant sources of actuarial loss.

CHANGES SINCE PRIOR VALUATION

Plan Changes

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

Actuarial Assumption/Method Changes

As mandated by Chapter 2015-157, Laws of Florida, the assumed rates of mortality were changed to the rates used in Milliman's July 1, 2019 FRS valuation report for special risk employees, with appropriate adjustments made based on plan demographics.

There have been no method changes since the prior valuation.

CONTRIBUTION IMPACT OF ANNUAL CHANGES

(1)	Contribution Determined as of October 1, 2019	41.3%
(2)	Summary of Contribution Impact by component:	
	Change in State Contribution Percentage	0.8%
	Change in Normal Cost Rate	-0.2%
	Change in Administrative Expense Percentage	0.1%
	Payroll Change Effect on UAAL Amortization	-0.5%
	Investment Return (Actuarial Asset Basis)	-0.9%
	Salary Increases	-1.3%
	Active Decrements	-0.1%
	Inactive Mortality	-0.1%
	Increase in Share Plan Balance	0.2%
	Assumption Change	-1.4%
	Other	1.1%
	Total Change in Contribution	-2.3%
(3)	Contribution Determined as of October 1, 2020	39.0%

COMPARATIVE SUMMARY OF PRINCIPAL VALUATION RESULTS

	New Assump <u>10/1/2020</u>	Old Assump <u>10/1/2020</u>	10/1/2019
A. Participant Data			
Actives	22	22	22
Service Retirees	16	16	17
DROP Retirees	1	1	1
Beneficiaries	2	2	1
Disability Retirees	3	3	3
Terminated Vested	<u>16</u>	<u>16</u>	<u>15</u>
Total	60	60	59
Total Annual Payroll	\$1,527,844	\$1,527,844	\$1,502,331
Payroll Under Assumed Ret. Age	1,527,844	1,527,844	1,502,331
Annual Rate of Payments to:			
Service Retirees	444,795	444,795	512,721
DROP Retirees	71,202	71,202	71,202
Beneficiaries	82,133	82,133	14,207
Disability Retirees	76,298	76,298	76,298
Terminated Vested	140,220	140,220	101,476
B. Assets			
Actuarial Value (AVA) ¹	11,544,602	11,544,602	10,510,008
Market Value (MVA) 1	11,667,183	11,667,183	10,271,020
C. Liabilities			
Present Value of Benefits			
Actives			
Retirement Benefits	5,756,071	5,808,005	5,540,809
Disability Benefits	532,882	509,414	497,753
Death Benefits	39,389	53,087	52,379
Vested Benefits	826,978	830,782	885,628
Refund of Contributions	45,768	45,747	46,266
Service Retirees	4,435,097	4,561,889	5,473,565
DROP Retirees ¹	1,042,803	1,052,196	988,022
Beneficiaries	941,229	957,841	145,243
Disability Retirees	816,522	788,787	796,911
Terminated Vested	983,233	992,377	674,464
Share Plan Balances ¹	95,739	95,739	43,989
Total	15,515,711	15,695,864	15,145,029

C. Liabilities - (Continued)	New Assump <u>10/1/2020</u>	Old Assump <u>10/1/2020</u>	10/1/2019
Present Value of Future Salaries	13,356,257	13,343,212	13,268,975
Present Value of Future			
Member Contributions	534,250	533,728	530,759
Normal Cost (Retirement)	190,764	192,574	189,611
Normal Cost (Disability)	34,243	32,679	31,892
Normal Cost (Death)	1,399	1,860	1,869
Normal Cost (Vesting)	39,072	39,246	42,881
Normal Cost (Refunds)	10,093	10,093	8,962
Total Normal Cost	275,571	276,452	275,215
Present Value of Future			
Normal Costs	2,178,068	2,182,327	2,189,325
Accrued Liability (Retirement)	4,140,094	4,179,167	3,915,392
Accrued Liability (Disability)	258,315	248,570	238,557
Accrued Liability (Death)	27,184	36,792	35,880
Accrued Liability (Vesting)	585,266	588,026	630,114
Accrued Liability (Refunds)	12,161	12,153	13,567
Accrued Liability (Inactives) ¹	8,218,884	8,353,090	8,078,205
Share Plan Balances ¹	95,739	95,739	43,989
Total Actuarial Accrued Liability (EAN AL)	13,337,643	13,513,537	12,955,704
Unfunded Actuarial Accrued			
Liability (UAAL)	1,793,041	1,968,935	2,445,696
Funded Ratio (AVA / EAN AL)	86.6%	85.4%	81.1%

D. Actuarial Present Value of	New Assump	Old Assump	
Accrued Benefits	10/1/2020	<u>10/1/2020</u>	10/1/2019
Vested Accrued Benefits			
Inactives + Share Plan Balances ¹	8,314,623	8,448,829	8,122,194
Actives	1,794,711	1,802,824	1,750,011
Member Contributions	436,567	436,567	416,709
Total	10,545,901	10,688,220	10,288,914
Non-vested Accrued Benefits	369,907	374,277	266,492
Total Present Value			
Accrued Benefits (PVAB)	10,915,808	11,062,497	10,555,406
Funded Ratio (MVA / PVAB)	106.9%	105.5%	97.3%
Increase (Decrease) in Present Value of			
Accrued Benefits Attributable to:			
Plan Amendments	0	0	
Assumption Changes	(146,689)	0	
Plan Experience	0	340,746	
Benefits Paid	0	(632,316)	
Interest	0	798,661	
Other	0	0	
Total	(146,689)	507,091	

	New Assump	Old Assump	
Valuation Date	10/1/2020	10/1/2020	10/1/2019
Applicable to Fiscal Year Ending	9/30/2022	9/30/2022	9/30/2021
E. Pension Cost			
Normal Cost (with interest)			
% of Total Annual Payroll ²	18.7	18.8	19.0
Administrative Expenses (with interest)			
% of Total Annual Payroll ²	2.6	2.6	2.5
Payment Required to Amortize			
Unfunded Actuarial Accrued			
Liability over 15 years			
(as of $10/1/2020$, with interest)			
% of Total Annual Payroll ²	27.9	29.2	30.8
Minimum Required Contribution			
% of Total Annual Payroll ²	49.2	50.6	52.3
Expected Member Contributions			
% of Total Annual Payroll ²	4.0	4.0	4.0
Expected City and State Contribution			
% of Total Annual Payroll ²	45.2	46.6	48.3
F. Past Contributions			
Plan Years Ending:	9/30/2020		
Total Required Contribution	740,631		
City and State Requirement	683,550		
Actual Contributions Made:			
Members (excluding buyback)	57,081		
City	589,041		
State	94,509		
Total	740,631		
G. Net Actuarial (Gain)/Loss	(230,147)		

 $^{^{\}rm 1}\,$ The asset values and liabilities include accumulated DROP and Share Plan Balances as of 9/30/2020 and 9/30/2019.

² Contributions developed as of 10/1/2020 are expressed as a percentage of total annual payroll at 10/1/2020 of \$1,527,844.

H. Schedule Illustrating the Amortization of the Total Unfunded Actuarial Accrued Liability as of:

	Projected Unfunded
Year	Actuarial Accrued Liability
2020	1,793,041
2021	1,490,592
2022	1,164,553
2025	25,767
2035	0

I. (i) 5 Year Comparison of Actual and Assumed Salary Increases

		<u>Actual</u>	Assumed
Year Ended	9/30/2020	4.70%	6.52%
Year Ended	9/30/2019	7.05%	6.15%
Year Ended	9/30/2018	5.28%	6.73%
Year Ended	9/30/2017	4.62%	6.50%
Year Ended	9/30/2016	5.51%	6.50%

(ii) 5 Year Comparison of Investment Return on Market Value and Actuarial Value

		Market Value	Actuarial Value	Assumed
Year Ended	9/30/2020	12.74%	8.98%	7.80%
Year Ended	9/30/2019	5.37%	7.77%	7.90%
Year Ended	9/30/2018	7.47%	6.26%	7.90%
Year Ended	9/30/2017	10.48%	6.65%	8.00%
Year Ended	9/30/2016	7.83%	7.58%	8.00%

(iii) Average Annual Payroll Growth

(a) Payroll as of:	10/1/2020 10/1/2010	\$1,527,844 1,003,447
(b) Total Increase		52.26%
(c) Number of Years		10.00
(d) Average Annual Rate		4.29%

STATEMENT BY ENROLLED ACTUARY

This actuarial valuation was prepared and completed by me or under my direct supervision, and I acknowledge responsibility for the results. To the best of my knowledge, the results are complete and accurate, and in my opinion, the techniques and assumptions used are reasonable and meet the requirements and intent of Part VII, Chapter 112, Florida Statutes. There is no benefit or expense to be provided by the plan and/or paid from the plan's assets for which liabilities or current costs have not been established or otherwise taken into account in the valuation. All known events or trends which may require a material increase in plan costs or required contribution rates have been taken into account in the valuation.

Patrick T. Donlan, EA, ASA, MAAA

Patrick I Donlan

Enrolled Actuary #20-6595

Please let us know when the report is approved by the Board and unless otherwise directed we will provide copies of the report to the following offices to comply with Chapter 112, Florida Statutes:

Mr. Keith Brinkman Bureau of Local Retirement Systems Post Office Box 9000 Tallahassee, FL 32315-9000

Mr. Steve Bardin Municipal Police and Fire Pension Trust Funds Division of Retirement Post Office Box 3010 Tallahassee, FL 32315-3010

RECONCILIATION OF UNFUNDED ACTUARIAL ACCRUED LIABILITIES

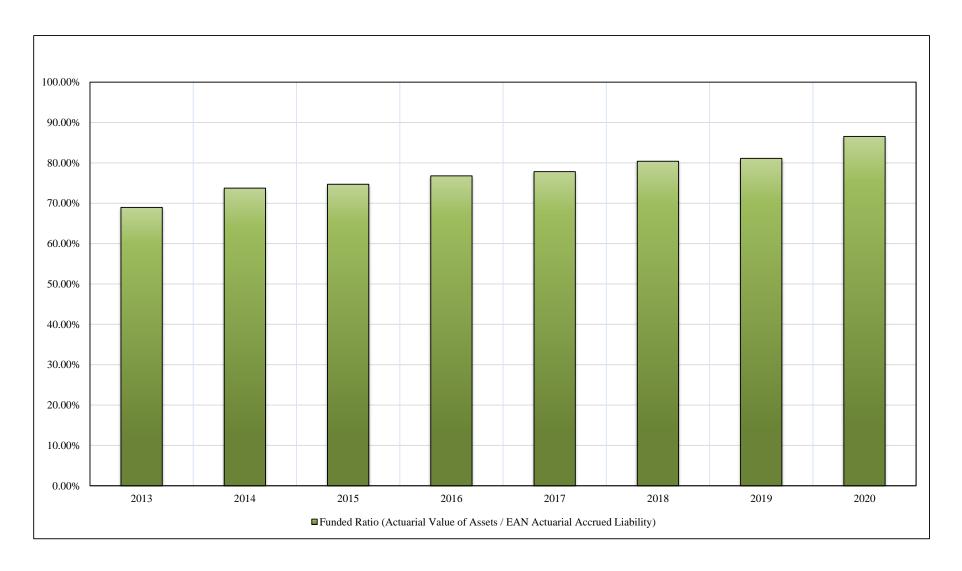
(1)	Unfunded Actuarial Accrued Liability as of October 1, 2019	\$2,445,696
(2)	Sponsor Normal Cost developed as of October 1, 2019	215,122
(3)	Expected administrative expenses for the year ended September 30, 2020	35,781
(4)	Expected interest on (1), (2) and (3)	208,939
(5)	Sponsor contributions to the System during the year ended September 30, 2020	683,550
(6)	Expected interest on (5)	22,906
(7)	Expected Unfunded Actuarial Accrued Liability as of	
` /	September 30, 2020 (1)+(2)+(3)+(4)-(5)-(6)	2,199,082
(8)	Change to UAAL due to Assumption Change	(175,894)
(9)	Change to UAAL due to Actuarial (Gain)/Loss	(230,147)
(10)	Unfunded Actuarial Accrued Liability as of October 1, 2020	1,793,041

Type of	Date	Years	10/1/2020	Amortization
<u>Base</u>	Established	Remaining	<u>Amount</u>	<u>Amount</u>
Consolidation	10/1/2018	5	1,736,663	401,362
Actuarial Loss	10/1/2018	13	226,659	26,310
Assump Change	10/1/2018	13	(19,154)	(2,223)
Benefits Change	10/1/2018	13	(5,864)	(681)
Actuarial Loss	10/1/2019	14	97,483	10,842
Assump Change	10/1/2019	14	163,295	18,161
Actuarial Gain	10/1/2020	15	(230,147)	(24,639)
Assump Change	10/1/2020	15	(175,894)	(18,831)
			1,793,041	410,301

DETAILED ACTUARIAL (GAIN)/LOSS ANALYSIS

(1) Unfunded Actuarial Accrued Liability (UAAL) as of October 1, 2019	\$2,445,696
(2) Expected UAAL as of October 1, 2020	2,199,082
(3) Summary of Actuarial (Gain)/Loss, by component:	
Investment Return (Actuarial Asset Basis)	(124,513)
Salary Increases	(182,460)
Active Decrements	(11,594)
Inactive Mortality	(8,566)
Increase in Share Plan Balance	25,547
Other	71,439
Increase in UAAL due to (Gain)/Loss	(230,147)
Assumption Changes	(175,894)
(4) Actual UAAL as of October 1, 2020	\$1,793,041

HISTORY OF FUNDING PROGRESS



ACTUARIAL ASSUMPTIONS AND METHODS

Mortality Rate

Healthy Active Lives:

Female: PubS.H-2010 (Below Median) for Employees, set forward one year. Prior year assumption: RP2000 Generational, 100% Combined Healthy White Collar, Scale BB.

Male: PubS.H-2010 (Below Median) for Employees, set forward one year. Prior year assumption: RP2000 Generational, 10% Combined Healthy White Collar / 90% Combined Healthy Blue Collar, Scale BB.

Healthy Retiree Lives:

Female: PubS.H-2010 for Healthy Retirees, set forward one year. Prior year assumption: RP2000 Generational, 100% Annuitant White Collar, Scale BB.

Male: PubS.H-2010 (Below Median) for Healthy Retirees, set forward one year. Prior year assumption: RP2000 Generational, 10% Annuitant White Collar / 90% Annuitant Blue Collar, Scale BB.

Beneficiary Lives:

Female: PubG.H-2010 (Below Median) for Healthy Retirees. Prior year assumption: RP2000 Generational, 100% Annuitant White Collar, Scale BB.

Male: PubG.H-2010 (Below Median) for Healthy Retirees, set back one year. Prior year assumption: RP2000 Generational, 10% Annuitant White Collar / 90% Annuitant Blue Collar. Scale BB.

Disabled Lives:

80% PubG.H-2010 for Disabled Retirees / 20% PubS.H-2010 for Disabled Retirees.

Prior year assumption (Female): 60% RP2000 Disabled Female set forward two years / 40% Annuitant White Collar with no setback, no projection scale

Prior year assumption (Male): 60% RP2000 Disabled Male setback four years / 40% Annuitant White Collar with no setback, no projection scale.

All rates are projected generationally with Mortality Improvement Scale MP-2018. We feel this assumption sufficiently accommodates future mortality improvements.

The previously described mortality assumption rates were mandated by Chapter 2015-157, Laws of Florida. This law mandates the use of the assumptions used in either of the two most recent valuations of the Florida Retirement System (FRS). The above rates are those outlined in Milliman's July 1, 2019 FRS valuation report for special risk employees, with appropriate adjustments made based on plan demographics.

90% of active deaths are assumed to be service-incurred.

<u>Interest Rate</u> 7.80% per year compounded annually, net of investment

related expenses. This is supported by the target asset allocation of the trust and the expected long-term return

by asset class.

Salary Increases See table on the following page. Projected average final

salary at retirement is increased by 5.00% to account for final non-regular compensation. Effective with the October 1, 2018 valuation, this load is 0% for those hired on or after July 1, 2011. The current assumed salary increase rate resulted from a September 1, 2017

Experience Study.

Payroll Growth 0.00% for purposes of amortizing the Unfunded Actuarial

Accrued Liability. This assumption cannot exceed the ten-year average payroll growth, in compliance with Part

VII of Chapter 112, Florida Statutes.

Administrative Expenses \$38,948 annually, based on the average of actual

expenses incurred in the prior two fiscal years.

<u>Funding Method</u> Entry Age Normal Actuarial Cost Method.

Amortization Method New UAAL amortization bases are amortized over 15

years.

<u>Funding Method</u> Each year, the prior Actuarial Value of Assets is brought

forward utilizing the historical geometric 4-year average Market Value return. It is possible that over time this technique will produce an insignificant bias above or

below Market Value.

<u>Disability Rates</u> See table on the following page. It is assumed that 90%

(prior year 66.67%) of disabilities are in the line of duty. This is based on the results of an actuarial experience

study issued September 1, 2017.

Termination Rates See table on the following page. The current rates of

termination resulted from a September 1, 2017

Experience Study.

Normal Retirement Age

Earlier of:

a) Age 55 and the completion of 10 years of service, or b) Age 52 and the completion of 25 years of service.

This is based on the results of an actuarial experience study issued September 1, 2017.

Early Retirement Age

Commencing at eligibility for Early Retirement, members are assumed to retire with an immediate benefit at the rate of 5.0% per year. This is based on the results of an actuarial experience study issued September 1, 2017.

Termination, Disability, and Salary Increase Rate Tables

% Tern	ninating		% Becomi	ng Disabled		
During t	he Year	_	During	the Year	Salary	Scale
Service	Rate	_	Age	Rate	Service	Rate
0	25.0%	_	20	0.14%	0	15.00%
1-4	13.0%		25	0.15%	1	10.00%
5-9	9.0%		30	0.18%	2	8.00%
10-19	5.0%		35	0.23%	3	7.00%
20+	0.0%		40	0.30%	4	6.50%
			45	0.51%	5-9	6.25%
			50	1.00%	10-14	6.00%
			55	1.55%	15+	5.00%
			60	2.23%		
			65	2.79%		

GLOSSARY

Actuarial Value of Assets is the asset value used in the valuation to determine contribution requirements. It represents the plan's Market Value of Assets (see below), with adjustments according to the plan's Actuarial Asset Method. These adjustments produce a "smoothed" value that is likely to be less volatile from year to year than the Market Value of Assets.

<u>Entry Age Normal Cost Method</u> - Under this method, the normal cost is the sum of the individual normal costs for all active participants. For an active participant, the normal cost is the participant's normal cost accrual rate, multiplied by the participant's current compensation.

- (a) The normal cost accrual rate equals:
 - (i) the present value of future benefits for the participant, determined as of the participant's entry age, divided by
 - (ii) the present value of the compensation expected to be paid to the participant for each year of the participant's anticipated future service, determined as of the participant's entry age.
- (b) In calculating the present value of future compensation, the salary scale is applied both retrospectively and prospectively to estimate compensation in years prior to and subsequent to the valuation year based on the compensation used for the valuation.
- (c) The accrued liability is the sum of the individual accrued liabilities for all participants and beneficiaries. A participant's accrued liability equals the present value, at the participant's attained age, of future benefits less the present value at the participant's attained age of the individual normal costs payable in the future. A beneficiary's accrued liability equals the present value, at the beneficiary's attained age, of future benefits. The unfunded accrued liability equals the total accrued liability less the actuarial value of assets.
- (d) Under this method, the entry age used for each active participant is the participant's age at the time he or she would have commenced participation if the plan had always been in existence under current terms, or the age as of which he or she first earns service credits for purposes of benefit accrual under the current terms of the plan.

<u>Market Value of Assets</u> is the fair market value of plan assets as of the valuation date. This amount may be adjusted to produce an Actuarial Value of Assets for plan funding purposes.

<u>Normal (Current Year's) Cost</u> is the current year's cost for benefits yet to be funded. Under the Entry Age Normal cost method, it is determined for each participant as the present value of future benefits, determined as of the Member's entry age, amortized as a level percentage of compensation over the anticipated number of years of participation, determined as of the entry age.

<u>Present Value of Benefits</u> is the single sum value on the valuation date of all future benefits to be paid to current plan participants.

<u>Total Annual Payroll</u> is the projected annual rate of pay for the fiscal year beginning on the valuation date of all covered Members.

<u>Total Required Contribution</u> is equal to the Normal Cost plus an amount sufficient to amortize the Unfunded Accrued Liability over no more than 30 years. The required amount is adjusted for interest according to the timing of contributions during the year.

<u>Unfunded Actuarial Accrued Liability (UAAL)</u> is the difference between the actuarial accrued liability (described above) and the Actuarial Value of Assets. Under the Entry Age Normal Actuarial Cost Method, an actuarial gain or loss, based on actual versus expected UAAL, is determined in conjunction with each valuation of the plan.

DISCUSSION OF RISK

ASOP No. 51, Assessment and Disclosure of Risk Associated with Measuring Pension Obligations and Determining Pension Plan Contributions, states that the actuary should identify risks that, in the actuary's professional judgment, may reasonably be anticipated to significantly affect the plan's future financial condition.

Throughout this report, actuarial results are determined using various actuarial assumptions. These results are based on the premise that all future plan experience will align with the plan's actuarial assumptions; however, there is no guarantee that actual plan experience will align with the plan's assumptions. It is possible that actual plan experience will differ from anticipated experience in an unfavorable manner that will negatively impact the plan's funded position.

Below are examples of ways in which plan experience can deviate from assumptions and the potential impact of that deviation. Typically, this results in an actuarial gain or loss representing the current-year financial impact on the plan's unfunded liability of the experience differing from assumptions; this gain or loss is amortized over a period of time determined by the plan's amortization method. When assumptions are selected that adequately reflect plan experience, gains and losses typically offset one another in the long term, resulting in a relatively low impact on the plan's contribution requirements associated with plan experience. When assumptions are too optimistic, losses can accumulate over time and the plan's amortization payment could potentially grow to an unmanageable level.

- <u>Investment Return</u>: When the rate of return on the Actuarial Value of Assets falls short of the assumption, this produces a loss representing assumed investment earnings that were not realized. Further, it is unlikely that the plan will experience a scenario that matches the assumed return in each year as capital markets can be volatile from year to year. Therefore, contribution amounts can vary in the future.
- <u>Salary Increases</u>: When a plan participant experiences a salary increase that was greater than assumed, this produces a loss representing the cost of an increase in anticipated plan benefits for the participant as compared to the previous year. The total gain or loss associated with salary increases for the plan is the sum of salary gains and losses for all active participants.
- Demographic Assumptions: Actuarial results take into account various potential events that could happen to a plan participant, such as retirement, termination, disability, and death. Each of these potential events is assigned a liability based on the likelihood of the event and the financial consequence of the event for the plan. Accordingly, actuarial liabilities reflect a blend of financial consequences associated with various possible outcomes (such as retirement at one of various possible ages). Once the outcome is known (e.g. the participant retires) the liability is adjusted to reflect the known outcome. This adjustment produces a gain or loss depending on whether the outcome was more or less favorable than other outcomes that could have occurred.

Impact of Plan Maturity on Risk

For newer pension plans, most of the participants and associated liabilities are related to active members who have not yet reached retirement age. As pension plans continue in operation and active members reach retirement ages, liabilities begin to shift from being primarily related to active members to being shared amongst active and retired members. Plan maturity is a measure of the extent to which this shift has occurred. It is important to understand that plan maturity can have an impact on risk tolerance and the overall risk characteristics of the plan. For example, closed plans with a large amount of retired liability do not have as long of a time horizon to recover from losses (such as losses on investments due to lower than expected investment returns) as plans where the majority of the liability is attributable to active members. For this reason, less tolerance for investment risk may be warranted for highly mature closed plans with a substantial inactive liability. Similarly, mature closed plans paying substantial retirement benefits resulting in a small positive or net negative cash flow can be more sensitive to near term investment volatility, particularly if the size of the fund is shrinking, which can result in less assets being available for investment in the market.

To assist with determining the maturity of the plan, we have provided some relevant metrics in the table following titled "Plan Maturity Measures and Other Risk Metrics". Highlights of this information are discussed below:

- The Support Ratio, determined as the ratio of active to inactive members, has decreased from 136.8% on October 1, 2010 to 84.6% on October 1, 2020, indicating that the plan has been maturing during the period.
- The Accrued Liability Ratio, determined as the ratio of the Inactive Accrued Liability, which is the liability associated with members who are no longer employed but are due a benefit from the plan, to the Total Accrued Liability, is 61.6%. With a plan of this maturity, losses due to lower than expected investment returns or demographic factors may result in larger increases in contribution requirements than would be needed for a less mature plan. Please note Chapter 112, Florida Statutes, requires that the plan sponsor contributes the minimum required contribution; thus, there is minimal solvency risk to the plan.
- The Funded Ratio, determined as the ratio of the Actuarial Value of Assets to the Total Accrued Liability, has increased from 73.4% on October 1, 2010 to 86.6% on October 1, 2020.
- The Net Cash Flow Ratio, determined as the ratio of the Net Cash Flow (contributions minus benefit payments and administrative expenses) to the Market Value of Assets, increased from -1.3% on October 1, 2010 to 0.7% on October 1, 2020. The current Net Cash Flow Ratio of 0.7% indicates that contributions are generally covering the plan's benefit payments and administrative expenses.

It is important to note that the actuary has identified the risks in this section as the most significant risks based on the characteristics of the plan and the nature of the project, however, it is not an exhaustive list of potential risks that could be considered. Additional advanced modeling, as well as the identification of additional risks, can be provided at the request of the audience addressed on page 2 of this report.

PLAN MATURITY MEASURES AND OTHER RISK METRICS

	10/1/2010	10/1/2015	10/1/2019	10/1/2020
Support Ratio				
Total Actives	26	23	22	22
Total Inactives ¹	19	23	25	26
Actives / Inactives ¹	136.8%	100.0%	88.0%	84.6%
Asset Volatility Ratio				
Market Value of Assets (MVA)	5,129,216	7,134,067	10,271,020	11,667,183
Total Annual Payroll	1,003,447	1,263,287	1,502,331	1,527,844
MVA / Total Annual Payroll	511.2%	564.7%	683.7%	763.6%
Accrued Liability (AL) Ratio				
Inactive Accrued Liability	3,778,545	6,543,059	8,078,205	8,218,884
Total Accrued Liability (EAN)	7,850,544	10,020,866	12,955,704	13,337,643
Inactive AL / Total AL	48.1%	65.3%	62.4%	61.6%
Funded Ratio				
Actuarial Value of Assets (AVA)	5,758,511	7,485,934	10,510,008	11,544,602
Total Accrued Liability (EAN)	7,850,544	10,020,866	12,955,704	13,337,643
AVA / Total Accrued Liability (EAN)	73.4%	74.7%	81.1%	86.6%
Net Cash Flow Ratio				
Net Cash Flow ²	(64,616)	155,557	(243,738)	87,028
Market Value of Assets (MVA)	5,129,216	7,134,067	10,271,020	11,667,183
Ratio	-1.3%	2.2%	-2.4%	0.7%

¹ Excludes terminated participants awaiting a refund of member contributions.

² Determined as total contributions minus benefit payments and administrative expenses.

PARTIAL HISTORY OF PREMIUM TAX REFUNDS

Received During <u>Fiscal Year</u>	Amount	Increase from Previous Year
1998	46,987.00	%
1999	37,705.21	-19.8%
2000	43,827.38	16.2%
2001	46,377.71	5.8%
2002	43,434.00	-6.3%
2003	54,751.82	26.1%
2004	53,532.74	-2.2%
2005	60,043.32	12.2%
2006	65,916.92	9.8%
2007	76,903.55	16.7%
2008	99,201.43	29.0%
2009	102,764.07	3.6%
2010	85,818.43	-16.5%
2011	85,151.47	-0.8%
2012	85,206.79	0.1%
2013	95,824.03	12.5%
2014	90,690.37	-5.4%
2015	101,738.84	12.2%
2016	115,997.48	14.0%
2017	108,561.04	-6.4%
2018	109,423.87	0.8%
2019	115,462.84	5.5%
2020	113,353.84	-1.8%

STATEMENT OF FIDUCIARY NET POSITION SEPTEMBER 30, 2020

ASSETS	COST VALUE	MARKET VALUE
Cash and Cash Equivalents: Short Term Investments	129,976.52	129,976.52
Total Cash and Equivalents	129,976.52	129,976.52
Receivables:		
Additional City Contributions	22,870.79	22,870.79
Investment Income	2,058.71	2,058.71
Total Receivable	24,929.50	24,929.50
Investments:		
Stocks	1,221,646.39	1,450,853.78
Mutual Funds:		
Fixed Income	4,042,260.09	4,352,987.02
Equity	4,143,125.66	5,713,936.07
Total Investments	9,407,032.14	11,517,776.87
Total Assets	9,561,938.16	11,672,682.89
LIABILITIES		
Payables:	5 500 00	5 500 00
Investment Expenses	5,500.00	5,500.00
Total Liabilities	5,500.00	5,500.00
NET POSITION RESTRICTED FOR PENSIONS	9,556,438.16	11,667,182.89

STATEMENT OF CHANGES IN FIDUCIARY NET POSITION FOR THE YEAR ENDED SEPTEMBER 30, 2020 Market Value Basis

ADDITIONS

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 Member
 57,081.41

 City
 589,040.83

 State
 113,353.84

Total Contributions 759,476.08

Investment Income:

Net Realized Gain (Loss) 63,564.16 Unrealized Gain (Loss) 963,264.12

Net Increase in Fair Value of Investments 1,026,828.28
Interest & Dividends 314,119.41
Less Investment Expense¹ (31,813.03)

Net Investment Income 1,309,134.66

Total Additions 2,068,610.74

DEDUCTIONS

Distributions to Members:

Benefit Payments604,355.25Lump Sum DROP Distributions19,082.88Lump Sum Share Distributions0.00Refunds of Member Contributions8,877.66

Total Distributions 632,315.79

Administrative Expense 40,132.16

Total Deductions 672,447.95

Net Increase in Net Position 1,396,162.79

NET POSITION RESTRICTED FOR PENSIONS

Beginning of the Year 10,271,020.10

End of the Year 11,667,182.89

¹Investment related expenses include investment advisory, custodial and performance monitoring fees.

ACTUARIAL ASSET VALUATION SEPTEMBER 30, 2020

Actuarial Assets for funding purposes are developed by increasing the Actuarial Assets used in the most recent actuarial valuation of the Fund by the average annual market value rate of return (net of investment related expenses) for the past four years. Actuarial Assets shall not be less than 80% nor greater than 120% of Market Value of Assets.

Details of the derivation are set forth as follows:

Plan Year End	Rate of Return ¹		
09/30/2017	10.48%		
09/30/2018	7.47%		
09/30/2019	5.37%		
09/30/2020	12.74%		
Annualized Rate of Return for prior four (4) years	:	8.98%	
(A) 10/01/2019 Actuarial Assets:			\$10,510,008.10
(I) Net Investment Income:			
 Interest and Dividends Realized Gain (Loss) Unrealized Gain (Loss) Change in Actuarial Value Investment Related Expenses 	otal	314,119.41 63,564.16 963,264.12 (361,569.32) (31,813.03)	947,565.34
(B) 10/01/2020 Actuarial Assets:			\$11,544,601.57
Actuarial Asset Rate of Return = 2I/(A+B-I):			8.98%
10/01/2020 Limited Actuarial A	assets:		\$11,544,601.57
10/01/2020 Market Value of As	sets:		\$11,667,182.89
Actuarial Gain/(Loss) due to Investment Return (A	Actuarial Asset Basis)		\$124,513.04

¹Market Value Basis, net of investment related expenses.

CHANGES IN NET ASSETS AVAILABLE FOR BENEFITS SEPTEMBER 30, 2020 Actuarial Asset Basis

	REVENUES	
Contributions: Member City	57,081.41 589,040.83	
State	113,353.84	
Total Contributions		759,476.08
Earnings from Investments: Interest & Dividends Net Realized Gain (Loss) Unrealized Gain (Loss) Change in Actuarial Value	314,119.41 63,564.16 963,264.12 (361,569.32)	
Total Earnings and Investment Gains		979,378.37
	XPENDITURES	
Distributions to Members: Benefit Payments Lump Sum DROP Distributions Lump Sum Share Distributions Refunds of Member Contributions	604,355.25 19,082.88 0.00 8,877.66	
Total Distributions		632,315.79
Expenses: Investment related ¹ Administrative	31,813.03 40,132.16	
Total Expenses		71,945.19
Change in Net Assets for the Year		1,034,593.47
Net Assets Beginning of the Year		10,510,008.10
Net Assets End of the Year ²		11,544,601.57

¹Investment related expenses include investment advisory, custodial and performance monitoring fees. ²Net Assets may be limited for actuarial consideration.

DEFERRED RETIREMENT OPTION PLAN ACTIVITY October 1, 2019 to September 30, 2020

Beginning of the Year Balance	68,909.42
Plus Additions	71,201.52
Investment Return Earned	14,331.40
Less Distributions	(19,082.88)
End of the Year Balance	135,359.46

SUPPLEMENTAL CHAPTER 175 SHARE PLAN ACTIVITY

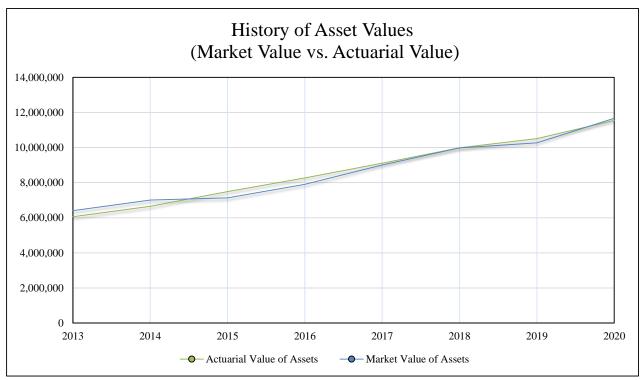
October 1, 2019 through September 30, 2020

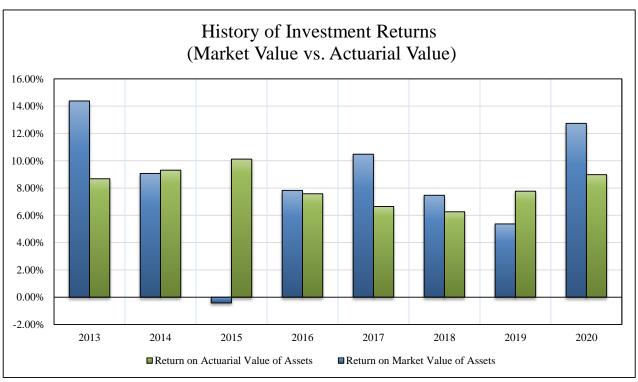
43,988.99	9/30/2019 Balance
25,546.53	Prior Year Adjustment
18,844.79	Plus Additions
8,858.82	Investment Return Earned (Est.)
(1,500.00)	Administrative Fees
0.00	Less Distributions
95,739.13	9/30/2020 Balance (Est.)

RECONCILIATION OF CITY'S SHORTFALL/(PREPAID) CONTRIBUTION FOR THE FISCAL YEAR ENDED (FYE) SEPTEMBER 30, 2020

(1)	Total Required Contribution Rate	51.9%
(2)	Pensionable Payroll Derived from Member Contributions	\$1,427,035.25
(3)	Total Required Contribution (1) x (2)	740,631.29
(4)	Less Actual Member Contributions	(57,081.41)
(5)	Less Allowable State Contribution	(94,509.05)
(6)	Equals Required City Contribution for Fiscal 2020	589,040.83
(7)	Plus 2019 Shortfall Contribution	363.47
(8)	Less Actual City Contributions	(566,533.51)
(9)	Equals City's Shortfall/(Prepaid) Contribution as of September 30, 2020	\$22,870.79

HISTORY OF ASSET VALUES AND INVESTMENT RETURNS





STATISTICAL DATA

	10/1/2017	10/1/2018	10/1/2019	10/1/2020
Actives				
Number	22	22	22	22
Average Current Age	35.9	36.9	36.3	36.4
Average Age at Employment	26.2	26.2	26.9	26.8
Average Past Service	9.7	10.7	9.4	9.6
Average Annual Salary	\$64,811	\$67,898	\$68,288	\$69,447
Service Retirees				
Number	15	15	17	16
Average Current Age	67.1	68.1	67.5	69.1
Average Annual Benefit	\$28,502	\$28,502	\$30,160	\$27,800
DROP Retirees				
Number	1	1	1	1
Average Current Age	54.9	55.9	55.7	56.7
Average Annual Benefit	\$76,332	\$76,332	\$71,202	\$71,202
<u>Beneficiaries</u>				
Number	1	1	1	2
Average Current Age	64.2	65.2	66.2	59.4
Average Annual Benefit	\$14,207	\$14,207	\$14,207	\$41,067
Disability Retirees				
Number	3	3	3	3
Average Current Age	47.6	48.6	49.6	50.6
Average Annual Benefit	\$25,433	\$25,433	\$25,433	\$25,433
Terminated Vested				
Number	15	15	15	16
Average Current Age ¹	40.3	50.7	48.6	49.2
Average Annual Benefit ²	\$12,231	\$12,231	\$33,825	\$35,055

¹ Effective 10/1/2018, the Average Current Age excludes participants awaiting a refund of contributions.

² The Average Annual Benefit excludes participants awaiting a refund of contributions.

AGE AND SERVICE DISTRIBUTION

PAST SERVICE

AGE	0)	1	2	3	4	5-9	10-14	15-19	20-24	25-29	30+	Total
15 - 19													0
20 - 24													0
25 - 29	1		1				1						3
30 - 34	1						5	1					7
35 - 39							1	3	1				5
40 - 44			1					3	1				5
45 - 49										1			1
50 - 54							1						1
55 - 59													0
60 - 64													0
65+													0
Tota	1 2		2	0	0	0	8	7	2	1	0	0	22

VALUATION PARTICIPANT RECONCILIATION

1. Active lives

a. Number in prior valuation 10/1/2019	22
b. Terminations	
i. Vested (partial or full) with deferred annuity	(1)
ii. Vested in refund of member contributions only	0
iii. Refund of member contributions or full lump sum distribution received	(1)
c. Deaths	
i. Beneficiary receiving benefits	0
ii. No future benefits payable	0
d. Disabled	0
e. Retired	0
f. DROP	<u>0</u>
g. Continuing participants	20
h. New entrants	2
i. Total active life participants in valuation	22

2. Non-Active lives (including beneficiaries receiving benefits)

	Service Retirees, Vested Receiving Benefits	DROP Benefits	Receiving Death Benefits	Receiving Disability Benefits	Vested (Deferred Annuity)	Vested (Due Refund)	Total
	<u>Benefits</u>	<u>Bellerits</u>	<u>Benefits</u>	<u>Belletits</u>	<u>munty)</u>	<u>Keruna)</u>	10111
a. Number prior valuation	17	1	1	3	3	12	37
Retired	0	0	0	0	0	0	0
DROP	0	0	0	0	0	0	0
Vested (Deferred Annuity)	0	0	0	0	1	0	1
Vested (Due Refund)	0	0	0	0	0	0	0
Hired/Terminated in Same Year	0	0	0	0	0	0	0
Death, With Survivor	(1)	0	1	0	0	0	0
Death, No Survivor	0	0	0	0	0	0	0
Disabled	0	0	0	0	0	0	0
Refund of Contributions	0	0	0	0	0	0	0
Rehires	0	0	0	0	0	0	0
Expired Annuities	0	0	0	0	0	0	0
Data Corrections	0	0	0	0	0	0	0
b. Number current valuation	16	1	2	3	4	12	38

SUMMARY OF CURRENT PLAN

(Through Ordinance 18-16)

Eligibility All regular uniformed members of the Fire Department;

includes active volunteers. Optional participation for the

Fire Chief.

<u>Salary</u> Total Compensation for services rendered, including

payments of accumulated leave at retirement. Salary on or after July 1, 2011 will not include more than 300 hours of overtime nor payments for accumulated leave earned

after that date.

Average Final Compensation (AFC) One twelfth of the average of the 5 best years of the last

10 years of Salary (10 best of career for volunteers).

<u>Credited Service</u> Years and fractional parts of years of service with the

City as a Firefighter (with Member contributions when

required).

Normal Retirement

Date The earlier of: a) age 55 and the completion of 10 years

of Credited Service, or b) age 52 and the completion of

25 years of Credited Service.

Benefit 4.00% of AFC times Credited Service.

Form of Benefit 10 Year Certain and Life Annuity (options available).

Early Retirement

Date Age 50 and 10 years of Credited Service.

Benefit Determined as for Normal Retirement and reduced

3.00% per year.

Form of Benefit 10 Year Certain and Life Annuity (options available).

Disability Benefit

Eligibility Total and permanent as determined by the Board

(medical proof required).

Benefit Benefit accrued to date of disability. Minimum benefit

for Service Incurred is 65% of AFC, for Non-Service

Incurred is 25% of AFC.

Duration Life, with 10 years guaranteed, or until recovery, as

determined by the Board (options available).

Death Benefit

Pre-Retirement

Not Vested Refund of Member Contributions.

Vested Beneficiary receives the benefit otherwise payable to the

firefighter on the date the firefighter would have reached

Normal or Early Retirement.

Post-Retirement According to optional form of benefit selected.

Termination of Employment

Less than 10 years Refund of Member Contributions without interest.

10 or more Refund of Contributions or Accrued benefit payable at

retirement age.

Member Contributions

Amount 2.00% of Salary: November 1, 2004 – October 31, 2005

3.00% of Salary: November 1, 2005 – October 31, 2006

4.00% of Salary: After October 31, 2006.

Deferred Retirement Option Plan

Eligibility Eligibility for Normal Retirement.

Participation Not to exceed 60 months.

Rate of Return At Member's election:

(1) Actual net rate of investment return (total return net of brokerage commissions, management fees and transaction costs) credited each fiscal quarter, or

(2) Interest Rate credited to Members of the Florida Retirement System DROP, compounded monthly.

Members may elect to change form of return once during

their DROP participation.

Form of Distribution Cash lump sum (options available).

STATEMENT OF FIDUCIARY NET POSITION SEPTEMBER 30, 2020

<u>ASSETS</u>	MARKET VALUE
Cash and Cash Equivalents:	
Short Term Investments	129,977
Total Cash and Equivalents	129,977
Receivables:	
Additional City Contributions	22,871
Investment Income	2,058
Total Receivable	24,929
Investments:	
Stocks	1,450,854
Mutual Funds:	
Fixed Income	4,352,987
Equity	5,713,936
Total Investments	11,517,777
Total Assets	11,672,683
<u>LIABILITIES</u>	
Payables:	
Investment Expenses	5,500
Total Liabilities	5,500
NET POSITION RESTRICTED FOR PENSIONS	11,667,183

STATEMENT OF CHANGES IN FIDUCIARY NET POSITION FOR THE YEAR ENDED SEPTEMBER 30, 2020

Market Value Basis

ADDITIONS Contributions: Member City State	57,081 589,041 113,354	
Total Contributions		759,476
Investment Income: Net Increase in Fair Value of Investments Interest & Dividends Less Investment Expense ¹	1,026,828 314,120 (31,813)	
Net Investment Income		1,309,135
Total Additions		2,068,611
DEDUCTIONS Distributions to Members: Benefit Payments Lump Sum DROP Distributions Refunds of Member Contributions	604,355 19,083 8,878	
Total Distributions		632,316
Administrative Expense		40,132
Total Deductions		672,448
Net Increase in Net Position		1,396,163
NET POSITION RESTRICTED FOR PENSIONS Beginning of the Year		10,271,020

¹Investment related expenses include investment advisory, custodial and performance monitoring fees.

End of the Year

11,667,183

NOTES TO THE FINANCIAL STATEMENTS

(For the Year Ended September 30, 2020)

Plan Administration

The City of Eustis Municipal Firefighters' Pension and Retirement System is a single-employer defined benefit pension Plan administered by a Board of Trustees. The Board consists of five Trustees, two of whom are appointed by the City Commission, two of whom are full-time Firefighters, elected by a majority of the Members of the Plan, and a fifth Member elected by the other four and appointed by Commission.

Plan Membership as of October 1, 2019:

Inactive Plan Members or Beneficiaries Currently Receiving Benefits	22
Inactive Plan Members Entitled to But Not Yet Receiving Benefits	15
Active Plan Members	22
	59

Benefits Provided

The Plan provides retirement, termination, disability and death benefits.

A summary of the benefit provisions can be found in the October 1, 2019 Actuarial Valuation Report for the City of Eustis Municpal Firefighters' Pension and Retirement System prepared by Foster & Foster Actuaries and Consultants.

Contributions

Member Contributions:

2.00% of Salary: November 1, 2004 – October 31, 2005 3.00% of Salary: November 1, 2005 – October 31, 2006

4.00% of Salary: After October 31, 2006

City Contributions:

Remaining amount required in order to pay current costs and amortize unfunded past service cost, if any, as provided in Chapter 112, Florida Statutes.

Investment Policy:

The following was the Board's adopted asset allocation policy as of September 30, 2020:

Asset Class	Target Allocation
Domestic Equity	45.0%
International Equity	15.0%
Domestic Fixed Income	25.0%
Real Estate	10.0%
GTAA	5.0%
Total	100.0%

Concentrations:

The Plan did not hold investments in any one organization that represent 5 percent or more of the Pension Plan's Fiduciary Net Position.

Rate of Return:

For the year ended September 30, 2020, the annual money-weighted rate of return on Pension Plan investments, net of Pension Plan investment expense, was 12.74 percent.

The money-weighted rate of return expresses investment performance, net of investment expense, adjusted for the changing amounts actually invested.

Deferred Retirement Option Program

Eligibility: Eligibility for Normal Retirement. Participation: Not to exceed 60 months. Rate of Return: At Member's election:

- (1) Actual net rate of investment return (total return net of brokerage commissions, management fees and transaction costs) credited each fiscal quarter, or
- (2) Interest Rate credited to Members of the Florida Retirement System DROP, compounded monthly.

Members may elect to change form of return once during their DROP participation.

The DROP balance as September 30, 2020 is \$135,359.

NET PENSION LIABILITY OF THE SPONSOR

The components of the Net Pension Liability of the Sponsor on September 30, 2020 were as follows:

Total Pension Liability \$ 13,280,912
Plan Fiduciary Net Position \$ (11,667,183)
Sponsor's Net Pension Liability \$ 1,613,729
Plan Fiduciary Net Position as a percentage of Total Pension Liability 87.85%

Actuarial Assumptions:

The Total Pension Liability was determined by an actuarial valuation as of October 1, 2019 updated to September 30, 2020 using the following actuarial assumptions:

Inflation2.50%Salary IncreasesService basedDiscount Rate7.80%Investment Rate of Return7.80%

Mortality Rate Healthy Active Lives:

Female: PubS.H-2010 (Below Median) for Employees, set forward one year. Male: PubS.H-2010 (Below Median) for Employees, set forward one year.

Mortality Rate Healthy Retiree Lives:

Female: PubS.H-2010 for Healthy Retirees, set forward one year.

Male: PubS.H-2010 (Below Median) for Healthy Retirees, set forward one year.

Mortality Rate Beneficiary Lives:

Female: PubG.H-2010 (Below Median) for Healthy Retirees.

Male: PubG.H-2010 (Below Median) for Healthy Retirees, set back one year.

Mortality Rate Disabled Lives:

80% PubG.H-2010 for Disabled Retirees / 20% PubS.H-2010 for Disabled Retirees.

All rates are projected generationally with Mortality Improvement Scale MP-2018. We feel this assumption sufficiently accommodates future mortality improvements.

The previously described mortality assumption rates were mandated by Chapter 2015-157, Laws of Florida. This law mandates the use of the assumptions used in either of the two most recent valuations of the Florida Retirement System (FRS). The above rates are those outlined in Milliman's July 1, 2019 FRS valuation report for special risk employees.

75% of active deaths are assumed to be service-incurred.

The most recent actuarial experience study used to review the other significant assumptions was dated September 1, 2017.

The Long-Term Expected Rate of Return on Pension Plan investments can be determined using a building-block method in which best-estimate ranges of expected future real rates of return (expected returns, net of Pension Plan investment expenses and inflation) are developed for each major asset class.

For 2020 the inflation rate assumption of the investment advisor was 2.50%.

These ranges are combined to produce the Long-Term Expected Rate of Return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation.

Best estimates of arithmetic real rates of return for each major asset class included in the Pension Plan's target asset allocation as of September 30, 2020 are summarized in the following table:

	Long Term Expected Real Rate of
Asset Class	Return ¹
Domestic Equity	7.5%
International Equity	8.5%
Domestic Fixed Income	2.5%
Real Estate	4.5%
GTAA	3.5%

¹ Source: AndCo Consulting

Discount Rate:

The Discount Rate used to measure the Total Pension Liability was 7.80 percent.

The projection of cash flows used to determine the Discount Rate assumed that Plan Member contributions will be made at the current contribution rate and that Sponsor contributions will be made at rates equal to the difference between actuarially determined contribution rates and the Member rate. Based on those assumptions, the Pension Plan'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.

	Current				
	1% Decrease	Discount Rate	1% Increase		
	6.80%	7.80%	8.80%		
Sponsor's Net Pension Liability	\$ 3,391,417	\$ 1,613,729	\$ 145,498		

SCHEDULE OF CHANGES IN NET PENSION LIABILITY AND RELATED RATIOS Last 2 Fiscal Years

	09/30/2020	09/30/2019
Total Pension Liability		
Service Cost	276,487	257,123
Interest	985,657	947,278
Share Plan Allocation	18,845	10,717
Changes of benefit terms	-	(6,344)
Differences between Expected and Actual Experience	109,268	72,910
Changes of assumptions	(153,334)	125,475
Benefit Payments, including Refunds of Employee Contributions	(632,316)	(941,866)
Net Change in Total Pension Liability	604,607	465,293
Total Pension Liability - Beginning	12,676,305	12,211,012
Total Pension Liability - Ending (a)	\$ 13,280,912	\$ 12,676,305
Plan Fiduciary Net Position		
Contributions - Employer	589,041	563,329
Contributions - State	113,354	115,463
Contributions - Employee	57,081	57,100
Net Investment Income	1,309,135	534,775
Benefit Payments, including Refunds of Employee Contributions	(632,316)	(941,866)
Administrative Expense	(40,132)	(37,764)
Net Change in Plan Fiduciary Net Position	1,396,163	291,037
Plan Fiduciary Net Position - Beginning	10,271,020	9,979,983
Plan Fiduciary Net Position - Ending (b)	\$ 11,667,183	\$ 10,271,020
Net Pension Liability - Ending (a) - (b)	\$ 1,613,729	\$ 2,405,285
Plan Fiduciary Net Position as a percentage of the Total Pension Liability	87.85%	81.03%
Covered Payroll Net Pension Liability as a percentage of Covered Payroll	\$ 1,427,035 113.08%	\$ 1,427,511 168.50%
<i>y</i> 1 <i>G y</i>		

Notes to Schedule of Changes in Net Pension Liability and Related Ratios:

Changes in benefit terms:

For measurement date 09/30/2019, amounts reported as changes of benefit terms resulted from the provisions of Chapter 112.1816, Florida Statutes. The Statutes state that, effective July 1, 2019, a death or disability (under the Plan's definition of total and permanent disability) for a Firefighter due to the diagnosis of cancer or circumstances that arise out of the treatment of cancer will be treated as duty-related.

Additionally, Ordinance nr. 18-16 was adopted which restated the Plan.

Changes of assumptions:

For measurement date 09/30/2020, as mandated by Chapter 2015-157, Laws of Florida, the assumed rates of mortality were changed to the rates used in Milliman's July 1, 2019 FRS valuation report for special risk employees, with appropriate adjustments made based on plan demographics.

For measurement date 09/30/2019, amounts reported as changes of assumptions resulted from the following change:

- the final salary load was amended to be 0% for those Members hired on and after July 1, 2011 based on the salary definition in ordinance number 18-16.
- the investmen return was lowered from 7.9% to 7.8% per year compounded annually, net of investment related expenses.

SCHEDULE OF CONTRIBUTIONS

Last 2 Fiscal Years

		Contributions			
		in relation to			Contributions
	Actuarially	the Actuarially	Contribution		as a percentage
	Determined	Determined	Deficiency	Covered	of Covered
Fiscal Year Ended	Contribution	Contributions	(Excess)	Payroll	Payroll
09/30/2020	\$ 683,550	\$ 683,550	\$ -	\$ 1,427,035	47.90%
09/30/2019	\$ 668,075	\$ 668,075	\$ -	\$ 1,427,511	46.80%

Notes to Schedule

Valuation Date: 10/01/2018 (AIS 11/18/2019)

Actuarially determined contribution rates are calculated as of October 1, two years prior to the end of the fiscal year in which contributions are reported.

Methods and assumptions used to determine contribution rates can be found in the October 1, 2018 Actuarial Valuation report for the City of Eustis Municipal Firefighters' Pension and Retirement System prepared by Foster & Foster Actuaries and Consultants.

SCHEDULE OF INVESTMENT RETURNS Last 2 Fiscal Years

	Annual Money-Weighted Rate of Return
Fiscal Year Ended	Net of Investment Expense
09/30/2020	12.74%
09/30/2019	5.37%

NOTES TO THE FINANCIAL STATEMENTS

(For the Year Ended September 30, 2020)

Plan Description

The City of Eustis Municipal Firefighters' Pension and Retirement System is a single-employer defined benefit pension Plan administered by a Board of Trustees. The Board consists of five Trustees, two of whom are appointed by the City Commission, two of whom are full-time Firefighters, elected by a majority of the Members of the Plan, and a fifth Member elected by the other four and appointed by Commission.

Eligible are all regular uniformed members of the Fire Department; includes active volunteers. Optional participation for the Fire Chief.

Plan Membership as of October 1, 2019:

Inactive Plan Members or Beneficiaries Currently Receiving Benefits	22
Inactive Plan Members Entitled to But Not Yet Receiving Benefits	15
Active Plan Members	22
	59

Benefits Provided

The Plan provides retirement, termination, disability and death benefits.

A summary of the benefit provisions can be found in the October 1, 2019 Actuarial Valuation Report for the City of Eustis Municipal Firefighters' Pension and Retirement System prepared by Foster & Foster Actuaries and Consultants.

Incorporated are the benefit changes for measurement date September 30, 2020 as noted under the Notes to Schedule of Changes in Net Pension Liability and Ratios.

Contributions

Member Contributions:

2.00% of Salary: November 1, 2004 – October 31, 2005 3.00% of Salary: November 1, 2005 – October 31, 2006

4.00% of Salary: After October 31, 2006

City Contributions:

Remaining amount required in order to pay current costs and amortize unfunded past service cost, if any, as provided in Chapter 112, Florida Statutes.

Net Pension Liability

The measurement date is September 30, 2020.

The measurement period for the pension expense was October 1, 2019 to September 30, 2020.

The reporting period is October 1, 2019 through September 30, 2020.

The Sponsor's Net Pension Liability was measured as of September 30, 2020.

The Total Pension Liability used to calculate the Net Pension Liability was determined as of that date.

Actuarial Assumptions:

The Total Pension Liability was determined by an actuarial valuation as of October 1, 2019 updated to September 30, 2020 using the following actuarial assumptions:

Inflation	2.50%
Salary Increases	Service based
Discount Rate	7.80%
Investment Rate of Return	7.80%

Mortality Rate Healthy Active Lives:

Female: PubS.H-2010 (Below Median) for Employees, set forward one year. Male: PubS.H-2010 (Below Median) for Employees, set forward one year.

Mortality Rate Healthy Retiree Lives:

Female: PubS.H-2010 for Healthy Retirees, set forward one year.

Male: PubS.H-2010 (Below Median) for Healthy Retirees, set forward one year.

Mortality Rate Beneficiary Lives:

Female: PubG.H-2010 (Below Median) for Healthy Retirees.

Male: PubG.H-2010 (Below Median) for Healthy Retirees, set back one year.

Mortality Rate Disabled Lives:

80% PubG.H-2010 for Disabled Retirees / 20% PubS.H-2010 for Disabled Retirees.

All rates are projected generationally with Mortality Improvement Scale MP-2018. We feel this assumption sufficiently accommodates future mortality improvements.

The previously described mortality assumption rates were mandated by Chapter 2015-157, Laws of Florida. This law mandates the use of the assumptions used in either of the two most recent valuations of the Florida Retirement System (FRS). The above rates are those outlined in Milliman's July 1, 2019 FRS valuation report for special risk employees.

75% of active deaths are assumed to be service-incurred.

The most recent actuarial experience study used to review the other significant assumptions was dated September 1, 2017.

The Long-Term Expected Rate of Return on Pension Plan investments can be determined using a building-block method in which best-estimate ranges of expected future real rates of return (expected returns, net of Pension Plan investment expenses and inflation) are developed for each major asset class.

For 2020 the inflation rate assumption of the investment advisor was 2.50%.

These ranges are combined to produce the Long-Term Expected Rate of Return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation.

Best estimates of arithmetic real rates of return for each major asset class included in the Pension Plan's target asset allocation as of September 30, 2020 are summarized in the following table:

		Long Term Expected
Asset Class	Target Allocation	Real Rate of Return ¹
Domestic Equity	45.0%	7.50%
International Equity	15.0%	8.50%
Domestic Fixed Income	25.0%	2.50%
Real Estate	10.0%	4.50%
GTAA	5.0%	3.50%
Total	100.0%	

¹ Source: AndCo Consulting

Discount Rate:

The Discount Rate used to measure the Total Pension Liability was 7.80 percent.

The projection of cash flows used to determine the Discount Rate assumed that Plan Member contributions will be made at the current contribution rate and that Sponsor contributions will be made at rates equal to the difference between actuarially determined contribution rates and the Member rate. Based on those assumptions, the Pension Plan'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.

CHANGES IN NET PENSION LIABILITY

			Incre	ease (Decrease	:)	
	To	otal Pension	Pla	an Fiduciary	N	Net Pension
		Liability	N	let Position		Liability
		(a)		(b)		(a)-(b)
Balances at September 30, 2019	\$	12,676,305	\$	10,271,020	\$	2,405,285
Changes for a Year:						
Service Cost		276,487		-		276,487
Interest		985,657		-		985,657
Share Plan Allocation		18,845		-		18,845
Differences between Expected and Actual Experience		109,268		-		109,268
Changes of assumptions		(153,334)		-		(153,334)
Changes of benefit terms		-		-		-
Contributions - Employer		-		589,041		(589,041)
Contributions - State		-		113,354		(113,354)
Contributions - Employee		-		57,081		(57,081)
Net Investment Income		-		1,309,135		(1,309,135)
Benefit Payments, including Refunds of Employee Contributions		(632,316)		(632,316)		-
Administrative Expense		-		(40,132)		40,132
Net Changes		604,607		1,396,163		(791,556)
Balances at September 30, 2020	\$	13,280,912	\$	11,667,183	\$	1,613,729

Sensitivity of the Net Pension Liability to changes in the Discount Rate.

			Cur	rent Discount		
	1%	6 Decrease		Rate	1	% Increase
		6.80%		7.80%		8.80%
Sponsor's Net Pension Liability	\$	3,391,417	\$	1,613,729	\$	145,498

Pension Plan Fiduciary Net Position.

Detailed information about the pension Plan's Fiduciary Net Position is available in a separately issued Plan financial report.

PENSION EXPENSE AND DEFERRED OUTFLOWS OF RESOURCES AND DEFERRED INFLOWS OF RESOURCES RELATED TO PENSIONS

For the year ended September 30, 2020, the Sponsor will recognize a Pension Expense of \$519,544. On September 30, 2020, the Sponsor reported Deferred Outflows of Resources and Deferred Inflows of Resources related to pensions from the following sources:

	Οι	Deferred utflows of esources	In	Deferred aflows of esources
Differences between Expected and Actual Experience		149,873		-
Changes of assumptions		62,738		115,002
Net difference between Projected and Actual Earnings on Pension Plan investments		-		274,003
Total	\$	212,611	\$	389,005

Amounts reported as Deferred Outflows of Resources and Deferred Inflows of Resources related to pensions will be recognized in Pension Expense as follows:

Year ended September 30:	
2021	\$ (8,899)
2022	\$ (3,441)
2023	\$ (63,134)
2024	\$ (100,920)
2025	\$ -
Thereafter	\$ -

Payable to the Pension Plan

On September 30, 2020, the Sponsor reported a payable of \$22,871 for the outstanding amount of contributions of the Pension Plan required for the year ended September 30, 2020.

SCHEDULE OF CHANGES IN NET PENSION LIABILITY AND RELATED RATIOS Last 2 Fiscal Years

	09/30/2020	09/30/2019
Total Pension Liability	03/20/2020	0378072013
Service Cost	276,487	257,123
Interest	985,657	947,278
Share Plan Allocation	18,845	10,717
Changes of benefit terms	-	(6,344)
Differences between Expected and Actual Experience	109,268	72,910
Changes of assumptions	(153,334)	125,475
Benefit Payments, including Refunds of Employee Contributions	(632,316)	(941,866)
Net Change in Total Pension Liability	604,607	465,293
Total Pension Liability - Beginning	12,676,305	12,211,012
Total Pension Liability - Ending (a)	\$ 13,280,912	\$ 12,676,305
Plan Fiduciary Net Position		
Contributions - Employer	589,041	563,329
Contributions - State	113,354	115,463
Contributions - Employee	57,081	57,100
Net Investment Income	1,309,135	534,775
Benefit Payments, including Refunds of Employee Contributions	(632,316)	(941,866)
Administrative Expense	(40,132)	(37,764)
Net Change in Plan Fiduciary Net Position	1,396,163	291,037
Plan Fiduciary Net Position - Beginning	10,271,020	9,979,983
Plan Fiduciary Net Position - Ending (b)	\$ 11,667,183	\$ 10,271,020
Net Pension Liability - Ending (a) - (b)	\$ 1,613,729	\$ 2,405,285
Plan Fiduciary Net Position as a percentage of the Total Pension Liability	87.85%	81.03%
Covered Payroll	\$ 1,427,035	\$ 1,427,511
Net Pension Liability as a percentage of Covered Payroll	113.08%	168.50%

Notes to Schedule of Changes in Net Pension Liability and Related Ratios:

Changes in benefit terms:

For measurement date 09/30/2019, amounts reported as changes of benefit terms resulted from the provisions of Chapter 112.1816, Florida Statutes. The Statutes state that, effective July 1, 2019, a death or disability (under the Plan's definition of total and permanent disability) for a Firefighter due to the diagnosis of cancer or circumstances that arise out of the treatment of cancer will be treated as duty-related.

Additionally, Ordinance nr. 18-16 was adopted which restated the Plan.

Changes of assumptions:

For measurement date 09/30/2020, as mandated by Chapter 2015-157, Laws of Florida, the assumed rates of mortality were changed to the rates used in Milliman's July 1, 2019 FRS valuation report for special risk employees, with appropriate adjustments made based on plan demographics.

For measurement date 09/30/2019, amounts reported as changes of assumptions resulted from the following change:

- the final salary load was amended to be 0% for those Members hired on and after July 1, 2011 based on the salary definition in ordinance number 18-16.
- the investmen return was lowered from 7.9% to 7.8% per year compounded annually, net of investment related expenses.

SCHEDULE OF CONTRIBUTIONS

Last 2 Fiscal Years

		Contributions			
		in relation to			Contributions
	Actuarially	the Actuarially	Contribution		as a percentage
	Determined	Determined	Deficiency	Covered	of Covered
Fiscal Year Ended	Contribution	Contributions	(Excess)	Payroll	Payroll
09/30/2020	\$ 683,550	\$ 683,550	\$ -	\$ 1,427,035	47.90%
09/30/2019	\$ 668,075	\$ 668,075	\$ -	\$ 1,427,511	46.80%

Notes to Schedule

Valuation Date: 10/01/2018 (AIS 11/18/2019)

Actuarially determined contribution rates are calculated as of October 1, two years prior to the end of the fiscal year in which contributions are reported.

Methods and assumptions used to determine contribution rates can be found in the October 1, 2018 Actuarial Valuation report for the City of Eustis Municipal Firefighters' Pension and Retirement System prepared by Foster & Foster Actuaries and Consultants.

EXPENSE DEVELOPMENT AND AMORTIZATION SCHEDULES

The	follow	ng i	nf	ormat	ion	is r	not	requ	ired	to	be	disc	losed	l but	t is	pro	vide	d i	for	int	orm	ationa	l pu	rpos	es.
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COMPONENTS OF PENSION EXPENSE FISCAL YEAR SEPTEMBER 30, 2020

	Net Pension Liability		Deferred Inflows	Deferred Outflows	Pension Expense
Beginning balance	\$ 2,405,285	\$	73,848	\$ 506,159	\$ -
Total Pension Liability Factors:					
Service Cost	276,487		-	-	276,487
Interest	985,657		-	-	985,657
Share Plan Allocation	18,845		-	-	18,845
Changes in benefit terms	-		-	-	-
Differences between Expected and Actual Experience					
with regard to economic or demographic assumptions	109,268		-	109,268	-
Current year amortization of experience difference	-		-	(101,844)	101,844
Change in assumptions about future economic or					
demographic factors or other inputs	(153,334)		153,334	-	-
Current year amortization of change in assumptions	-		(38,332)	(71,383)	33,051
Benefit Payments, including Refunds of Employee					
Contributions	(632,316)		-	-	-
Net change	604,607		115,002	(63,959)	1,415,884
Plan Fiduciary Net Position:					
Contributions - Employer	589,041		-	-	=
Contributions - State	113,354		-	-	-
Contributions - Employee	57,081		-	-	(57,081)
Projected Net Investment Income	804,534		-	-	(804,534)
Difference between projected and actual earnings on	,				
Pension Plan investments	504,601		504,601	-	=
Current year amortization	-		(137,845)	(62,988)	(74,857)
Benefit Payments, including Refunds of Employee			, , ,	, ,	, ,
Contributions	(632,316)		-	-	-
Administrative Expenses	(40,132)		_	-	40,132
Net change	1,396,163		366,756	(62,988)	(896,340)
Ending Balance	\$ 1,613,729	\$	555,606	\$ 379,212	\$ 519,544

AMORTIZATION SCHEDULE - INVESTMENTS

Increase (Decrease) in Pension Expense Arising from the Recognition of the of Differences Between Projected and Actual Earnings on Pension Plan Investments

Plan Year		nces Between ed and Actual	Recognition																			
Ending	E	arnings	Period (Years)	2020	2021		2022	2	2023	2024		2025		2026		2027		2028		2	.029	
2020	\$	(504,601)	5	\$ (100,921)	\$ (100,920)	\$	(100,920) \$	((100,920) \$	(100,920) \$		-	\$	- :	5	- \$		- \$	\$		-
2019	\$	244,016	5	\$ 48,803	\$ 48,803	\$	48,803 \$;	48,803 \$		\$		-	\$	- :	5	- \$		- \$	\$		-
2018	\$	50,480	5	\$ 10,096	\$ 10,096	\$	10,096 \$;	- \$		\$		-	\$	- ;	5	- \$		- 9	\$		-
2017	\$	(184,618)	5	\$ (36,924)	\$ (36,924)	\$	- \$;	- \$		\$		_	\$	- :	S	- \$		- 9	\$		_
2016	\$	20,444	5	\$ 4,089	\$ -	Ф	- \$;	- \$		\$		-	\$	- :	S	- \$		- \$	\$		-
Net Increas	e (Decrea	se) in Pension	Expense	\$ (74,857)	\$ (78,945)	\$	(42,021) \$;	(52,117) \$	(100,920) \$,	_	\$	- ;	5	- \$		- 5	\$		_

AMORTIZATION SCHEDULE - CHANGES OF ASSUMPTIONS

Increase (Decrease) in Pension Expense Arising from the Recognition of the Effects of Changes of Assumptions

Plan Year Ending		Changes of Assumptions	Recognition Period (Years)	2020	2021	2022	2023	2024		2025	2026	2027		2028		2029	
2020	\$	(153,334)	4	\$ (38,332)	\$ (38,334) \$	(38,334) \$	(38,334) \$		- \$	-	\$ -	\$	- \$		- \$		_
2019	\$	125,475	4	\$ 31,369	\$ 31,369 \$	31,369 \$	- \$		- \$	-	\$ -	\$	- \$		- \$		-
2017	\$	160,056	4	\$ 40,014	\$ - \$	- \$	- \$		- \$	-	\$ -	\$	- \$		- \$		-
Net Increas	se (D	ecrease) in Pension	Expense	\$ 33,051	\$ (6,965) \$	(6,965) \$	(38,334) \$		- \$		\$ _	\$	- \$		- \$		_

AMORTIZATON SCHEDULE - EXPERIENCE

Increase (Decrease) in Pension Expense Arising from the Recognition of the Effects of Differences between Expected and Actual Experience

	Dif	ferences Between																		
Plan Year	Expected and Actual		Recognition																	
Ending		Experience	Period (Years)	2020	2021	2022		2023	2024		2025		2026		2027		2028		2029	
2020	\$	109,268	4	\$ 27,317	\$ 27,317	\$ 27,317	\$	27,317	\$	- \$	3	-	\$	-	\$	- \$		-	\$	-
2019	\$	72,910	4	\$ 18,228	\$ 18,228	\$ 18,228	\$	-	\$	- \$	S	-	\$	-	\$	- \$		-	\$	-
2018	\$	125,862	4	\$ 31,466	\$ 31,466	\$ -	\$	-	\$	- \$	S	-	\$	-	\$	- \$		-	\$	-
2017	\$	99,332	4	\$ 24,833	\$ -	\$ -	\$	-	\$	- \$	5	-	\$	-	\$	- \$		-	\$	-
	-	\ . .	-	 101.011	011		Φ.						*						 	
Net Increase (Decrease) in Pension Expense				\$ 101,844	\$ 77,011	\$ 45,545	\$	27,317	\$	- \$	5	-	\$	-	\$	- \$		-	\$	-