

April 28, 2017

VIA EMAIL

Ms. Ferrell Jenne
Lead Plan Administrator
Foster & Foster, Inc.
2503 Del Prado Blvd. S., Suite 502
Cape Coral, FL 33904

Re: City of Lakeland Firefighters' Retirement System
Senate Bill 534 (Section 112.664, Florida Statutes) Compliance

Dear Ferrell:

Please find enclosed the annual disclosures that satisfy the October 1, 2016 financial reporting requirements made under Section 112.664.

Our office will submit this information electronically to the Department of Management Services. However, it is important for you to be aware that this report must also be made available on the Plan or Plan Sponsor's website, if such website exists. A deadline for this website publication is not made clear in the law.

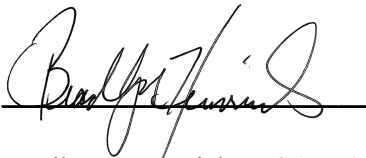
In addition to the enclosed report, the Plan or Plan Sponsor's website must provide a link to the Division of Retirement's Actuarial Summary Fact Sheet for the Plan, and also report the previous five years' assumed and actual rates of return, along with their respective asset allocations. The Board should contact its Investment Consultant for this information.

If there are any questions, concerns, or comments about any of the items contained in this report, please feel free to contact me.

Respectfully submitted,

Foster & Foster, Inc.

By:



Bradley R. Henrichs, FSA, EA, MAAA
Enrolled Actuary #17-6901


BRH/lke
Enclosures

cc via email: H. Lee Dehner, Board Attorney

CITY OF LAKELAND
FIREFIGHTERS' RETIREMENT SYSTEM

SECTION 112.664, FLORIDA STATUTES
COMPLIANCE

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

By:  Date: 4/27/2017

Bradley R. Heinrichs, FSA, EA, MAAA
Enrolled Actuary #17-6901



When reviewing the following schedules, please note the following:

- 1) The purpose of producing this report is solely to satisfy the requirements set forth by Section 112.664, Florida Statutes, and is mandatory for every Florida public pension fund, excluding the Florida Retirement System (FRS).
- 2) None of the schedules shown have any impact on the funding requirements of the Plan. These schedules are for statutory compliance purposes only.
- 3) In the schedules that follow, the columns labeled “ACTUAL” represent the final recorded GASB 67/68 results. The columns labeled “HYPOTHETICAL” illustrate what the results would have been if different assumptions were used.
- 4) It is our opinion that the Plan’s actual assumptions utilized in the October 1, 2016 Actuarial Valuation Report, as adopted by the Board of Trustees, are reasonable individually and in the aggregate, and represent our best estimate of future Plan experience.
- 5) The “Number of Years Expected Benefit Payments Sustained” calculated in Section II: Asset Sustainability should not be interpreted as the number of years the Plan has left until it is insolvent. This calculation is required by 112.664, Florida Statutes, but the numeric result is irrelevant, since in its calculation we are to assume there will be no further contributions to the Fund. As long as the Actuarially Determined Contribution is made each year the Plan will never become insolvent.

GASB 67: SCHEDULE OF CHANGES IN NET PENSION LIABILITY
FISCAL YEAR SEPTEMBER 30, 2016

	ACTUAL	HYPOTHETICAL	
	7.50% RP-2000 Generational	5.50% RP-2000 Generational	9.50% RP-2000 Generational
Total Pension Liability			
Service Cost	2,228,737	3,658,021	1,524,680
Interest	6,882,719	6,598,374	7,429,842
Changes of Benefit Terms	-	-	-
Differences Between Expected and Actual			
Experience	229,162	513,235	(109,869)
Changes of Assumptions	1,835,684	(2,111,986)	(1,873,806)
Contributions - Buy Back	119,786	119,786	119,786
Benefit Payments, Including Refunds of			
Employee Contributions	(5,682,715)	(5,682,715)	(5,682,715)
Net Change in Total Pension Liability	5,613,373	3,094,715	1,407,918
Total Pension Liability - Beginning	92,382,205	119,153,769	79,525,538
Total Pension Liability - Ending (a)	<u>\$ 97,995,578</u>	<u>\$ 122,248,484</u>	<u>\$ 80,933,456</u>
Plan Fiduciary Net Position			
Contributions - Employer	1,872,061	1,872,061	1,872,061
Contributions - State	-	-	-
Contributions - Employee	800,246	800,246	800,246
Contributions - Buy Back	119,786	119,786	119,786
Net Investment Income	6,400,950	6,400,950	6,400,950
Benefit Payments, Including Refunds of			
Employee Contributions	(5,682,715)	(5,682,715)	(5,682,715)
Administrative Expenses	(119,174)	(119,174)	(119,174)
Net Change in Plan Fiduciary Net Position	3,391,154	3,391,154	3,391,154
Plan Fiduciary Net Position - Beginning	84,190,930	84,190,930	84,190,930
Plan Fiduciary Net Position - Ending (b)	<u>\$ 87,582,084</u>	<u>\$ 87,582,084</u>	<u>\$ 87,582,084</u>
Net Pension Liability - Ending (a) - (b)	<u>\$ 10,413,494</u>	<u>\$ 34,666,400</u>	<u>\$ (6,648,628)</u>

GASB 68: PENSION EXPENSE
FISCAL YEAR SEPTEMBER 30, 2016

	ACTUAL	HYPOTHETICAL	
	7.50%	5.50%	9.50%
Pension Expense	<u>\$ 2,742,552</u>	<u>\$ 4,825,015</u>	<u>\$ 1,523,198</u>

PROJECTION OF THE NUMBER OF YEARS ASSETS WILL SUSTAIN BENEFIT PAYMENTS

Table 1
Plan Assumptions: 7.50% and RP-2000 Generational Mortality

Fiscal Year Beginning 10/1	Projected Beginning Fiduciary Net Position	Projected Total Contributions	Projected Benefit Payments*	Projected Administrative Expense	Projected Investment Earnings	Projected Ending Fiduciary Net Position
2016	87,582,084	-	8,289,740	-	6,257,791	85,550,135
2017	85,550,135	-	6,050,966	-	6,189,349	85,688,518
2018	85,688,518	-	6,194,621	-	6,194,341	85,688,238
2019	85,688,238	-	6,392,295	-	6,186,907	85,482,850
2020	85,482,850	-	6,556,750	-	6,165,336	85,091,436
2021	85,091,436	-	6,667,772	-	6,131,816	84,555,480
2022	84,555,480	-	6,866,587	-	6,084,164	83,773,057
2023	83,773,057	-	7,021,206	-	6,019,684	82,771,535
2024	82,771,535	-	7,117,525	-	5,940,958	81,594,968
2025	81,594,968	-	7,165,420	-	5,850,919	80,280,467
2026	80,280,467	-	7,080,031	-	5,755,534	78,955,970
2027	78,955,970	-	7,063,905	-	5,656,801	77,548,866
2028	77,548,866	-	7,046,256	-	5,551,930	76,054,540
2029	76,054,540	-	7,015,155	-	5,441,022	74,480,407
2030	74,480,407	-	7,049,801	-	5,321,663	72,752,269
2031	72,752,269	-	7,127,279	-	5,189,147	70,814,137
2032	70,814,137	-	7,145,097	-	5,043,119	68,712,159
2033	68,712,159	-	7,072,747	-	4,888,184	66,527,596
2034	66,527,596	-	6,960,913	-	4,728,535	64,295,218
2035	64,295,218	-	6,833,299	-	4,565,893	62,027,812
2036	62,027,812	-	6,700,689	-	4,400,810	59,727,933
2037	59,727,933	-	6,547,553	-	4,234,062	57,414,442
2038	57,414,442	-	6,401,350	-	4,066,033	55,079,125
2039	55,079,125	-	6,241,426	-	3,896,881	52,734,580
2040	52,734,580	-	6,067,209	-	3,727,573	50,394,944
2041	50,394,944	-	5,865,982	-	3,559,646	48,088,608
2042	48,088,608	-	5,667,796	-	3,394,103	45,814,915
2043	45,814,915	-	5,470,113	-	3,230,989	43,575,791
2044	43,575,791	-	5,275,243	-	3,070,363	41,370,911
2045	41,370,911	-	5,074,321	-	2,912,531	39,209,121
2046	39,209,121	-	4,867,927	-	2,758,137	37,099,331
2047	37,099,331	-	4,661,822	-	2,607,632	35,045,141
2048	35,045,141	-	4,453,264	-	2,461,388	33,053,265
2049	33,053,265	-	4,243,525	-	2,319,863	31,129,603
2050	31,129,603	-	4,033,239	-	2,183,474	29,279,838
2051	29,279,838	-	3,822,677	-	2,052,637	27,509,798
2052	27,509,798	-	3,610,925	-	1,927,825	25,826,698
2053	25,826,698	-	3,398,250	-	1,809,568	24,238,016
2054	24,238,016	-	3,185,152	-	1,698,408	22,751,272
2055	22,751,272	-	2,973,937	-	1,594,823	21,372,158
2056	21,372,158	-	2,764,457	-	1,499,245	20,106,946
2057	20,106,946	-	2,557,794	-	1,412,104	18,961,256
2058	18,961,256	-	2,355,694	-	1,333,756	17,939,318
2059	17,939,318	-	2,159,513	-	1,264,467	17,044,272
2060	17,044,272	-	1,970,765	-	1,204,417	16,277,924
2061	16,277,924	-	1,790,773	-	1,153,690	15,640,841
2062	15,640,841	-	1,620,540	-	1,112,293	15,132,594
2063	15,132,594	-	1,460,350	-	1,080,181	14,752,425
2064	14,752,425	-	1,310,612	-	1,057,284	14,499,097
2065	14,499,097	-	1,171,424	-	1,043,504	14,371,177

PROJECTION OF THE NUMBER OF YEARS ASSETS WILL SUSTAIN BENEFIT PAYMENTS

Table 1
Plan Assumptions: 7.50% and RP-2000 Generational Mortality

Fiscal Year Beginning 10/1	Projected Beginning Fiduciary Net Position	Projected Total Contributions	Projected Benefit Payments*	Projected Administrative Expense	Projected Investment Earnings	Projected Ending Fiduciary Net Position
2066	14,371,177	-	1,042,861	-	1,038,731	14,367,047
2067	14,367,047	-	925,166	-	1,042,835	14,484,716
2068	14,484,716	-	817,629	-	1,055,693	14,722,780
2069	14,722,780	-	719,692	-	1,077,220	15,080,308
2070	15,080,308	-	630,802	-	1,107,368	15,556,874
2071	15,556,874	-	550,284	-	1,146,130	16,152,720
2072	16,152,720	-	477,263	-	1,193,557	16,869,014
2073	16,869,014	-	411,270	-	1,249,753	17,707,497
2074	17,707,497	-	351,877	-	1,314,867	18,670,487
2075	18,670,487	-	298,531	-	1,389,092	19,761,048
2076	19,761,048	-	250,828	-	1,472,673	20,982,893
2077	20,982,893	-	208,674	-	1,565,892	22,340,111
2078	22,340,111	-	171,993	-	1,669,059	23,837,177
2079	23,837,177	-	140,646	-	1,782,514	25,479,045
2080	25,479,045	-	114,048	-	1,906,652	27,271,649
2081	27,271,649	-	91,677	-	2,041,936	29,221,908
2082	29,221,908	-	73,079	-	2,188,903	31,337,732
2083	31,337,732	-	57,757	-	2,348,164	33,628,139
2084	33,628,139	-	45,195	-	2,520,416	36,103,360
2085	36,103,360	-	35,017	-	2,706,439	38,774,782
2086	38,774,782	-	26,843	-	2,907,102	41,655,041
2087	41,655,041	-	20,353	-	3,123,365	44,758,053
2088	44,758,053	-	15,221	-	3,356,283	48,099,115
2089	48,099,115	-	11,194	-	3,607,014	51,694,935
2090	51,694,935	-	8,087	-	3,876,817	55,563,665
2091	55,563,665	-	5,739	-	4,167,060	59,724,986
2092	59,724,986	-	3,991	-	4,479,224	64,200,219
2093	64,200,219	-	2,715	-	4,814,915	69,012,419
2094	69,012,419	-	1,805	-	5,175,864	74,186,478
2095	74,186,478	-	1,173	-	5,563,942	79,749,247
2096	79,749,247	-	743	-	5,981,166	85,729,670
2097	85,729,670	-	460	-	6,429,708	92,158,918
2098	92,158,918	-	279	-	6,911,908	99,070,547
2099	99,070,547	-	167	-	7,430,285	106,500,665
2100	106,500,665	-	100	-	7,987,546	114,488,111
2101	114,488,111	-	59	-	8,586,606	123,074,658
2102	123,074,658	-	35	-	9,230,598	132,305,221
2103	132,305,221	-	21	-	9,922,891	142,228,091
2104	142,228,091	-	12	-	10,667,106	152,895,185
2105	152,895,185	-	7	-	11,467,139	164,362,317
2106	164,362,317	-	4	-	12,327,174	176,689,487
2107	176,689,487	-	2	-	13,251,711	189,941,196
2108	189,941,196	-	1	-	14,245,590	204,186,785
2109	204,186,785	-	1	-	15,314,009	219,500,793
2110	219,500,793	-	-	-	16,462,559	235,963,352

*All DROP Balances paid in 2016.

Number of Years Expected Benefit Payments Sustained: 999.99

This projection assumes no further contributions, assumes no further benefit accruals, and assumes Market Value of Assets earn 7.50% interest.

It is important to note that as long as the Actuarially Determined Contribution is made each year, the Plan will never become insolvent. Furthermore, State and local laws mandate that the Actuarially Determined Contribution be made each year.

PROJECTION OF THE NUMBER OF YEARS ASSETS WILL SUSTAIN BENEFIT PAYMENTS

Table 2
Hypothetical Assumptions: 5.50% and RP-2000 Generational Mortality

Fiscal Year Beginning 10/1	Projected Beginning Fiduciary Net Position	Projected Total Contributions	Projected Benefit Payments*	Projected Administrative Expense	Projected Investment Earnings	Projected Ending Fiduciary Net Position
2016	87,582,084	-	8,289,740	-	4,589,047	83,881,391
2017	83,881,391	-	6,050,966	-	4,447,075	82,277,500
2018	82,277,500	-	6,194,621	-	4,354,910	80,437,789
2019	80,437,789	-	6,392,295	-	4,248,290	78,293,784
2020	78,293,784	-	6,556,750	-	4,125,847	75,862,881
2021	75,862,881	-	6,667,772	-	3,989,095	73,184,204
2022	73,184,204	-	6,866,587	-	3,836,300	70,153,917
2023	70,153,917	-	7,021,206	-	3,665,382	66,798,093
2024	66,798,093	-	7,117,525	-	3,478,163	63,158,731
2025	63,158,731	-	7,165,420	-	3,276,681	59,269,992
2026	59,269,992	-	7,080,031	-	3,065,149	55,255,110
2027	55,255,110	-	7,063,905	-	2,844,774	51,035,979
2028	51,035,979	-	7,046,256	-	2,613,207	46,602,930
2029	46,602,930	-	7,015,155	-	2,370,244	41,958,019
2030	41,958,019	-	7,049,801	-	2,113,822	37,022,040
2031	37,022,040	-	7,127,279	-	1,840,212	31,734,973
2032	31,734,973	-	7,145,097	-	1,548,933	26,138,809
2033	26,138,809	-	7,072,747	-	1,243,134	20,309,196
2034	20,309,196	-	6,960,913	-	925,581	14,273,864
2035	14,273,864	-	6,833,299	-	597,147	8,037,712
2036	8,037,712	-	6,700,689	-	257,805	1,594,828
2037	1,594,828	-	6,547,553	-	-	-

*All DROP Balances paid in 2016.

Number of Years Expected Benefit Payments Sustained: 21.24

This projection assumes no further contributions, assumes no further benefit accruals, and assumes Market Value of Assets earn 5.50% interest.

It is important to note that as long as the Actuarially Determined Contribution is made each year, the Plan will never become insolvent. Furthermore, State and local laws mandate that the Actuarially Determined Contribution be made each year.

PROJECTION OF THE NUMBER OF YEARS ASSETS WILL SUSTAIN BENEFIT PAYMENTS

Table 3
Hypothetical Assumptions: 9.50% and RP-2000 Generational Mortality

Fiscal Year Beginning 10/1	Projected Beginning Fiduciary Net Position	Projected Total Contributions	Projected Benefit Payments*	Projected Administrative Expense	Projected Investment Earnings	Projected Ending Fiduciary Net Position
2016	87,582,084	-	8,289,740	-	7,926,535	87,218,879
2017	87,218,879	-	6,050,966	-	7,998,373	89,166,286
2018	89,166,286	-	6,194,621	-	8,176,553	91,148,218
2019	91,148,218	-	6,392,295	-	8,355,447	93,111,370
2020	93,111,370	-	6,556,750	-	8,534,135	95,088,755
2021	95,088,755	-	6,667,772	-	8,716,713	97,137,696
2022	97,137,696	-	6,866,587	-	8,901,918	99,173,027
2023	99,173,027	-	7,021,206	-	9,087,930	101,239,751
2024	101,239,751	-	7,117,525	-	9,279,694	103,401,920
2025	103,401,920	-	7,165,420	-	9,482,825	105,719,325
2026	105,719,325	-	7,080,031	-	9,707,034	108,346,328
2027	108,346,328	-	7,063,905	-	9,957,366	111,239,789
2028	111,239,789	-	7,046,256	-	10,233,083	114,426,616
2029	114,426,616	-	7,015,155	-	10,537,309	117,948,770
2030	117,948,770	-	7,049,801	-	10,870,268	121,769,237
2031	121,769,237	-	7,127,279	-	11,229,532	125,871,490
2032	125,871,490	-	7,145,097	-	11,618,399	130,344,792
2033	130,344,792	-	7,072,747	-	12,046,800	135,318,845
2034	135,318,845	-	6,960,913	-	12,524,647	140,882,579
2035	140,882,579	-	6,833,299	-	13,059,263	147,108,543
2036	147,108,543	-	6,700,689	-	13,657,029	154,064,883
2037	154,064,883	-	6,547,553	-	14,325,155	161,842,485
2038	161,842,485	-	6,401,350	-	15,070,972	170,512,107
2039	170,512,107	-	6,241,426	-	15,902,182	180,172,863
2040	180,172,863	-	6,067,209	-	16,828,230	190,933,884
2041	190,933,884	-	5,865,982	-	17,860,085	202,927,987
2042	202,927,987	-	5,667,796	-	19,008,938	216,269,129
2043	216,269,129	-	5,470,113	-	20,285,737	231,084,753
2044	231,084,753	-	5,275,243	-	21,702,477	247,511,987
2045	247,511,987	-	5,074,321	-	23,272,609	265,710,275
2046	265,710,275	-	4,867,927	-	25,011,250	285,853,598
2047	285,853,598	-	4,661,822	-	26,934,655	308,126,431
2048	308,126,431	-	4,453,264	-	29,060,481	332,733,648
2049	332,733,648	-	4,243,525	-	31,408,129	359,898,252
2050	359,898,252	-	4,033,239	-	33,998,755	389,863,768
2051	389,863,768	-	3,822,677	-	36,855,481	422,896,572
2052	422,896,572	-	3,610,925	-	40,003,655	459,289,302
2053	459,289,302	-	3,398,250	-	43,471,067	499,362,119
2054	499,362,119	-	3,185,152	-	47,288,107	543,465,074
2055	543,465,074	-	2,973,937	-	51,487,920	591,979,057
2056	591,979,057	-	2,764,457	-	56,106,699	645,321,299
2057	645,321,299	-	2,557,794	-	61,184,028	703,947,533
2058	703,947,533	-	2,355,694	-	66,763,120	768,354,959
2059	768,354,959	-	2,159,513	-	72,891,144	839,086,590
2060	839,086,590	-	1,970,765	-	79,619,615	916,735,440
2061	916,735,440	-	1,790,773	-	87,004,805	1,001,949,472
2062	1,001,949,472	-	1,620,540	-	95,108,224	1,095,437,156
2063	1,095,437,156	-	1,460,350	-	103,997,163	1,197,973,969
2064	1,197,973,969	-	1,310,612	-	113,745,273	1,310,408,630
2065	1,310,408,630	-	1,171,424	-	124,433,177	1,433,670,383

PROJECTION OF THE NUMBER OF YEARS ASSETS WILL SUSTAIN BENEFIT PAYMENTS

Table 3
Hypothetical Assumptions: 9.50% and RP-2000 Generational Mortality

Fiscal Year Beginning 10/1	Projected Beginning Fiduciary Net Position	Projected Total Contributions	Projected Benefit Payments*	Projected Administrative Expense	Projected Investment Earnings	Projected Ending Fiduciary Net Position
2066	1,433,670,383	-	1,042,861	-	136,149,150	1,568,776,672
2067	1,568,776,672	-	925,166	-	148,989,838	1,716,841,344
2068	1,716,841,344	-	817,629	-	163,061,090	1,879,084,805
2069	1,879,084,805	-	719,692	-	178,478,871	2,056,843,984
2070	2,056,843,984	-	630,802	-	195,370,215	2,251,583,397
2071	2,251,583,397	-	550,284	-	213,874,284	2,464,907,397
2072	2,464,907,397	-	477,263	-	234,143,533	2,698,573,667
2073	2,698,573,667	-	411,270	-	256,344,963	2,954,507,360
2074	2,954,507,360	-	351,877	-	280,661,485	3,234,816,968
2075	3,234,816,968	-	298,531	-	307,293,432	3,541,811,869
2076	3,541,811,869	-	250,828	-	336,460,213	3,878,021,254
2077	3,878,021,254	-	208,674	-	368,402,107	4,246,214,687
2078	4,246,214,687	-	171,993	-	403,382,226	4,649,424,920
2079	4,649,424,920	-	140,646	-	441,688,687	5,090,972,961
2080	5,090,972,961	-	114,048	-	483,637,014	5,574,495,927
2081	5,574,495,927	-	91,677	-	529,572,758	6,103,977,008
2082	6,103,977,008	-	73,079	-	579,874,345	6,683,778,274
2083	6,683,778,274	-	57,757	-	634,956,193	7,318,676,710
2084	7,318,676,710	-	45,195	-	695,272,141	8,013,903,656
2085	8,013,903,656	-	35,017	-	761,319,184	8,775,187,823
2086	8,775,187,823	-	26,843	-	833,641,568	9,608,802,548
2087	9,608,802,548	-	20,353	-	912,835,275	10,521,617,470
2088	10,521,617,470	-	15,221	-	999,552,937	11,521,155,186
2089	11,521,155,186	-	11,194	-	1,094,509,211	12,615,653,203
2090	12,615,653,203	-	8,087	-	1,198,486,670	13,814,131,786
2091	13,814,131,786	-	5,739	-	1,312,342,247	15,126,468,294
2092	15,126,468,294	-	3,991	-	1,437,014,298	16,563,478,601
2093	16,563,478,601	-	2,715	-	1,573,530,338	18,137,006,224
2094	18,137,006,224	-	1,805	-	1,723,015,506	19,860,019,925
2095	19,860,019,925	-	1,173	-	1,886,701,837	21,746,720,589
2096	21,746,720,589	-	743	-	2,065,938,421	23,812,658,267
2097	23,812,658,267	-	460	-	2,262,202,514	26,074,860,321
2098	26,074,860,321	-	279	-	2,477,111,717	28,551,971,759
2099	28,551,971,759	-	167	-	2,712,437,309	31,264,408,901
2100	31,264,408,901	-	100	-	2,970,118,841	34,234,527,642
2101	34,234,527,642	-	59	-	3,252,280,123	37,486,807,706
2102	37,486,807,706	-	35	-	3,561,246,730	41,048,054,401
2103	41,048,054,401	-	21	-	3,899,565,167	44,947,619,547
2104	44,947,619,547	-	12	-	4,270,023,856	49,217,643,391
2105	49,217,643,391	-	7	-	4,675,676,122	53,893,319,506
2106	53,893,319,506	-	4	-	5,119,865,353	59,013,184,855
2107	59,013,184,855	-	2	-	5,606,252,561	64,619,437,414
2108	64,619,437,414	-	1	-	6,138,846,554	70,758,283,967
2109	70,758,283,967	-	1	-	6,722,036,977	77,480,320,943
2110	77,480,320,943	-	-	-	7,360,630,490	84,840,951,433

*All DROP Balances paid in 2016.

Number of Years Expected Benefit Payments Sustained: 999.99

This projection assumes no further contributions, assumes no further benefit accruals, and assumes Market Value of Assets earn 9.50% interest.

It is important to note that as long as the Actuarially Determined Contribution is made each year, the Plan will never become insolvent. Furthermore, State and local laws mandate that the Actuarially Determined Contribution be made each year.

**ACTUAL AND HYPOTHETICAL CONTRIBUTIONS APPLICABLE TO THE FISCAL YEAR
ENDING SEPTEMBER 30, 2018**

Valuation Date: 10/1/2016

	ACTUAL	HYPOTHETICAL	
	7.50% RP-2000 Generational	5.50% RP-2000 Generational	9.50% RP-2000 Generational
Total Required Contribution (Fixed \$)	\$2,755,252	\$5,095,574	\$813,926
Total Required Contribution (% of Payroll)	28.17%	52.10%	8.33%
Expected Member Contribution	708,102	1,685,165	1,956
Expected State Money	776,564	776,564	776,564
Expected Sponsor Contribution (Fixed \$)	\$1,270,586	\$2,633,845	\$35,406
Expected Sponsor Contribution (% of Payroll)	12.97%	26.93%	0.37%

ASSETS

Actuarial Value ¹	90,594,118	90,594,118	90,594,118
Market Value ¹	87,582,084	87,582,084	87,582,084

LIABILITIES

Present Value of Benefits			
Active Members			
Retirement Benefits	60,007,625	90,230,551	42,308,753
Disability Benefits	1,646,003	2,330,052	1,213,796
Death Benefits	869,857	1,232,407	631,017
Vested Benefits	1,170,256	2,047,197	673,248
Refund of Contributions	202,968	311,586	165,522
Service Retirees	43,161,647	51,818,947	43,535,389
DROP Retirees ¹	10,345,089	12,304,719	2,331,496
Beneficiaries	2,915,491	3,419,352	2,538,565
Disability Retirees	0	0	0
Terminated Vested	530,928	793,018	372,174
Excess State Monies Reserve	0	0	0
Total:	120,849,864	164,487,829	93,769,960
Present Value of Future Salaries	106,391,829	122,936,624	93,482,651
Present Value of Future Member Contributions	7,705,077	21,159,701	2,308
Total Normal Cost	1,153,630	2,524,449	277,002
Present Value of Future Normal Costs (Entry Age Normal)	22,694,853	41,876,913	12,793,351
Total Actuarial Accrued Liability ¹	108,300,613	132,756,319	91,122,334
Unfunded Actuarial Accrued Liability (UAAL)	17,706,495	42,162,201	528,216

ACTUAL AND HYPOTHETICAL CONTRIBUTIONS APPLICABLE TO THE FISCAL YEAR
ENDING SEPTEMBER 30, 2018

Valuation Date: 10/1/2016

	ACTUAL	HYPOTHETICAL	
	7.50% RP-2000 Generational	5.50% RP-2000 Generational	9.50% RP-2000 Generational
<u>PENSION COST</u>			
Normal Cost (with interest)	1,196,891	2,593,871	290,160
Administrative Expenses (with interest)	366,118	362,589	369,647
Payment Required To Amortize UAAL (with interest)	1,192,243	2,139,114	154,119
Total Required Contribution	\$2,755,252	\$5,095,574	\$813,926

¹ The asset values and liabilities for DROP Members include accumulated DROP Balances as of 9/30/2016.