SCHEDULES OF EMPLOYER ALLOCATIONS,
PENSION AMOUNTS BY EMPLOYER AND
AMORTIZATION OF EMPLOYERS' DEFERRED OUTFLOWS/INFLOWS

YEAR ENDED DECEMBER 31, 2015

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INDEPENDENT AUDITOR'S REPORT

To the Board of the Norfolk County Retirement System Canton, Massachusetts 02021

Report on Schedules

We have audited the accompanying schedule of employer allocations of the Norfolk County Retirement System (the System) as of and for the year ended December 31, 2015, and the related notes. We have also audited the total for all entities of the columns titled ending net pension liability, total deferred outflows of resources, total deferred inflows of resources, total pension expense, total pension revenue, and total covered payroll as of and for the year ended December 31, 2015 and the beginning net pension liability, as of and for the year ended December 31, 2014 (specified column total) included in the accompanying schedule of pension amounts by employer of the System and the related notes. We have also audited the column totals included in the accompanying schedule of amortization of employers' deferred outflows/inflows for the year ended December 31, 2015, and the related notes.

Management's Responsibility for the Schedules

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

Auditor's Responsibility

Our responsibility is to express an opinion on the schedule of employer allocations and the specified column totals included in the schedule of pension amounts by employer based on our audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the schedule of employer allocations and specified column totals included in the schedule of pension amounts by employer are free from material misstatement.

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

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

Opinion

In our opinion, the schedules referred to above present fairly, in all material respects, the employer allocations and ending net pension liability, total deferred outflows of resources, total deferred inflows of resources, total pension expense, total pension revenue, total covered payroll and total amortization of deferred outflows/inflows for the total of all participating entities for the Norfolk County Retirement System as of and for the year ended December 31, 2015 and the beginning net pension liability for the total of all participating entities for the Norfolk County Retirement System as of and for the year ended December 31, 2014, in accordance with accounting principles generally accepted in the United States of America.

Report on Supplementary Information

Our audit was conducted for the purpose of forming an opinion on the schedules referred to above. The schedule of actual employer contributions on page 16 is presented for purposes of additional analysis and is not a required part of the schedules referred to above. Such information is the responsibility of management and was derived from and relates to the underlying accounting and other records used to prepare the schedules referred to above. The information has been subjected to the auditing procedures applied in the audit of the schedules referred to above and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the schedules referred to above or to the schedules themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the information is fairly stated in all material respects in relation to the schedules referred to above as a whole.

Other Matter

We have audited, in accordance with auditing standards generally accepted in the United States of America, the financial statements of the Norfolk County Retirement System as of and for the years ended December 31, 2015 and 2014, and our report thereon, dated November 23, 2016, expressed an unmodified opinion on those financial statements.

Restriction on Use

Our report is intended solely for the information and use of the System's management, Board, employers and their auditors and is not intended to be and should not be used by anyone other than these specified parties.

Respectfully submitted,

DI PESA & COMPANY

Di Pesa & Company

Certified Public Accountants Quincy, Massachusetts November 23, 2016



SCHEDULE OF EMPLOYER ALLOCATIONS

FOR THE YEAR ENDED DECEMBER 31, 2015

<u>Employer</u>	Employer <u>Contributions</u>	Employer Allocation <u>Percentage</u>
Town of Aven	ć 4.202.004	4.0042670/
Town of Avon	\$ 1,203,981	1.884367%
Avon Housing Authority	21,023	0.032903%
Town of Bellingham	2,909,083	4.553044%
Bellingham Housing Authority	27,804	0.043516%
Town of Canton	4,888,517	7.651083%
Canton Housing Authority	93,722	0.146686%
Town of Cohasset	2,340,496	3.663141%
Cohasset Housing Authority	15,388	0.024084%
Norfolk County	2,109,905	3.302240%
Charles River Pollution Control	151,157	0.236578%
Town of Dover	1,233,745	1.930951%
Dover-Sherborn Regional High School	724,937	1.134609%
Town of Foxboro	4,088,913	6.399612%
Foxboro Housing Authority	54,419	0.085172%
Town of Franklin	4,863,190	7.611443%
Franklin Housing Authority	81,455	0.127486%
Town of Holbrook	1,929,587	3.020022%
Holbrook Housing Authority	46,729	0.073136%
King Philip Regional School District	714,759	1.118679%
Town of Medfield	2,354,129	3.684479%
Medfield Housing Authority	14,325	0.022420%
Town of Medway	2,282,427	3.572257%
Medway Housing Authority	84,698	0.132562%
Town of Millis	1,608,231	2.517064%
Millis Housing Authority	35,665	0.055820%
Town of Norfolk	1,979,212	3.097691%
Norfolk Housing Authority	29,265	0.045803%
Norfolk Mosquito Control	184,359	0.288543%
Town of Plainville	1,729,722	2.707211%
Town of Randolph	5,288,215	8.276655%
Randolph Housing Authority	61,301	0.095943%
Town of Sharon	3,824,140	5.985212%
Sharon Housing Authority	23,357	0.036556%
Town of Stoughton	5,030,371	7.873100%
Stoughton Housing Authority	67,575	0.105763%
Town of Walpole	4,637,947	7.258912%
Walpole Housing Authority	51,615	0.080783%
Town of Westwood	4,720,301	7.387806%
Town of Wrentham		
Wrentham Housing Authority	1,808,835 24,148	2.831032% 0.037794%
Dedham Westwood Water District		
Deditatii Westwood Water District	554,491	0.867841%
	\$ 63,893,139	<u>100.000000%</u>

The Accompanying Notes are an Integral Part of the Schedule of Employer Allocations.

SCHEDULE OF PENSION AMOUNTS BY EMPLOYER

FOR THE YEAR ENDED DECEMBER 31, 2015

Deferred Outflows of Resources

<u>Employer</u>	Beginning Net Pension <u>Liability</u>	Ending Net Pension <u>Liability</u>	Difference Between Expected and Actual Experience	Net Difference Between Projected and Actual Investment Earnings	Assumption <u>Changes</u>	Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	Total Deferred Outflows of <u>Resources</u>
Town of Avon	\$ 10,088,806	\$ 10,236,115	\$ 207,405	\$ 1,383,402	\$ -	\$ -	\$ 1,590,807
Avon Housing Authority	183,833	178,738	3,622	24,345	-	-	27,967
Town of Bellingham	22,819,057	24,732,716	501,136	3,304,014	-	562,591	4,367,741
Bellingham Housing Authority	325,727	236,387	4,790	34,245	-	-	39,035
Town of Canton	39,226,904	41,561,657	842,125	5,574,000	-	294,487	6,710,612
Canton Housing Authority	911,626	796,816	16,145	110,818	-	-	126,963
Town of Cohasset	17,115,595	19,898,650	403,188	2,627,429	-	1,293,300	4,323,917
Cohasset Housing Authority	137,384	130,822	2,651	17,891	-	-	20,542
Norfolk County	19,232,617	17,938,186	363,465	2,462,801	-	-	2,826,266
Charles River Pollution Control	1,249,165	1,285,124	26,039	173,251	-	-	199,290
Town of Dover	10,206,123	10,489,173	212,532	1,414,330	-	-	1,626,862
Dover-Sherborn Regional High School	5,649,714	6,163,337	124,882	822,442	-	151,212	1,098,536
Town of Foxboro	33,268,514	34,763,509	704,381	4,673,619	-	-	5,378,000
Foxboro Housing Authority	516,353	462,667	9,375	64,026	-	-	73,401
Town of Franklin	40,226,086	41,346,324	837,762	5,574,912	-	-	6,412,674
Franklin Housing Authority	628,619	692,522	14,032	92,258	-	21,659	127,949
Town of Holbrook	16,385,437	16,405,143	332,402	2,222,504	-	-	2,554,906
Holbrook Housing Authority	292,571	397,286	8,050	51,239	-	60,354	119,643
King Philip Regional School District	5,657,938	6,076,803	123,129	813,065	-	107,212	1,043,406
Town of Medfield	18,532,460	20,014,556	405,536	2,675,369	-	398,840	3,479,745
Medfield Housing Authority	189,416	121,789	2,468	18,178	-	-	20,646
Town of Medway	17,193,152	19,404,955	393,185	2,574,683	-	1,054,485	4,022,353
Medway Housing Authority	709,361	720,095	14,591	97,312	-	-	111,903
Town of Millis	13,867,460	13,673,007	277,043	1,857,589	-	-	2,134,632
Millis Housing Authority	180,120	303,218	6,144	38,039	-	82,481	126,664

SCHEDULE OF PENSION AMOUNTS BY EMPLOYER

FOR THE YEAR ENDED DECEMBER 31, 2015

			Deferred Outflows of Resources						
<u>Employer</u>	Beginning Net Pension <u>Liability</u>	Ending Net Pension <u>Liability</u>	Difference Between Expected and Actual Experience	Net Difference Between Projected and Actual Investment Earnings	Assumption <u>Changes</u>	Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	Total Deferred Outflows of <u>Resources</u>		
Town of Norfolk	16 004 445	46 027 052	240.054	2 250 700		40.405	2 640 454		
	16,001,415	16,827,053	340,951	2,259,708	-	48,495	2,649,154		
Norfolk Housing Authority	176,899	248,807	5,041	31,933	-	48,419	85,393		
Norfolk Mosquito Control	1,405,399	1,567,401	31,759	208,378	-	62,646	302,783		
Town of Plainville	12,717,840	14,705,914	297,972	1,943,480	-	880,397	3,121,849		
Town of Randolph	42,529,561	44,959,838	910,980	6,032,096	-	245,096	7,188,172		
Randolph Housing Authority	749,778	521,174	10,560	76,287	-	-	86,847		
Town of Sharon	33,215,102	32,512,437	658,769	4,423,034	-	-	5,081,803		
Sharon Housing Authority	199,469	198,582	4,024	26,930	-	-	30,954		
Town of Stoughton	41,506,638	42,767,681	866,562	5,764,026	-	-	6,630,588		
Stoughton Housing Authority	821,441	574,519	11,641	83,968	-	-	95,609		
Town of Walpole	39,293,384	39,431,334	798,961	5,339,759	-	-	6,138,720		
Walpole Housing Authority	520,475	438,826	8,891	61,488	-	-	70,379		
Town of Westwood	35,408,720	40,131,499	813,147	5,321,038	-	2,018,197	8,152,382		
Town of Wrentham	14,594,085	15,378,527	311,601	2,064,446	-	3,407	2,379,454		
Wrentham Housing Authority	214,515	205,305	4,160	28,049	-	-	32,209		
Dedham Westwood Water District	4,476,445	4,714,223	95,520	632,914		1,099	729,533		
	\$ 518,625,204 \$	543,212,715	\$ 11,006,617	\$ 72,999,295	\$ -	\$ 7,334,377	\$ 91,340,289		

SCHEDULE OF PENSION AMOUNTS BY EMPLOYER

FOR THE YEAR ENDED DECEMBER 31, 2015

	Deferred Inflows of Resources					Pension Expense									
<u>Employer</u>	Differ Betw Expe and A Exper	reen cted ctual	Assumption Changes		Changes in Proportion and Differences Between Employer Contributions nd Proportionate Share of Contributions	Total Deferred Inflows of Resources			oportionate Share of Plan Pension <u>Expense</u>	c	Net mortization from changes in roportions	Total Pension <u>Expense</u>	Coi	oportionate Share of ntributions from nemployer Entities) Total Pension Revenue	Total Covered <u>Payroll</u>
Town of Avon	\$	-	\$ 862,668	\$	275,701	\$ 1,138,369)	\$	1,119,190	\$	(70,693) \$	1,048,497	\$	50,825	\$ 5,034,826
Avon Housing Authority		-	15,063		9,247	24,310)		19,543		(2,371)	17,172		887	90,393
Town of Bellingham		-	2,084,397		-	2,084,397	,		2,704,209		144,254	2,848,463		122,804	12,264,210
Bellingham Housing Authority		-	19,922		79,683	99,605	5		25,846		(20,432)	5,414		1,174	118,839
Town of Canton		-	3,502,688		-	3,502,688	3		4,544,240		75,509	4,619,749		206,363	20,287,998
Canton Housing Authority		-	67,153		109,988	177,141	L		87,122		(28,202)	58,920		3,956	358,638
Town of Cohasset		-	1,676,996		-	1,676,996	i		2,175,665		331,616	2,507,281		98,801	9,836,750
Cohasset Housing Authority		-	11,025		9,257	20,282	2		14,304		(2,374)	11,930		650	57,169
Norfolk County		-	1,511,775		627,894	2,139,669)		1,961,313		(160,998)	1,800,315		89,067	8,522,483
Charles River Pollution Control		-	108,306		21,897	130,203	3		140,512		(5,614)	134,898		6,381	565,942
Town of Dover		-	883,995		153,963	1,037,958	3		1,146,858		(39,478)	1,107,380		52,081	5,279,232
Dover-Sherborn Regional High School		-	519,427		-	519,427	7		673,883		38,772	712,655		30,602	3,073,720
Town of Foxboro		-	2,929,761		130,311	3,060,072	2		3,800,949		(33,413)	3,767,536		172,609	17,018,788
Foxboro Housing Authority		-	38,992		64,413	103,405	5		50,587		(16,516)	34,071		2,297	205,730
Town of Franklin		-	3,484,540		674,027	4,158,567	7		4,520,696		(172,828)	4,347,868		205,294	20,631,675
Franklin Housing Authority		-	58,364		-	58,364	ļ		75,719		5,553	81,272		3,439	328,047
Town of Holbrook		-	1,382,575		526,189	1,908,764	ļ.		1,793,694		(134,920)	1,658,774		81,455	8,057,288
Holbrook Housing Authority		-	33,482		-	33,482	2		43,438		15,476	58,914		1,973	167,561
King Philip Regional School District		-	512,134		-	512,134	ŀ		664,421		27,490	691,911		30,173	3,068,427
Town of Medfield		-	1,686,765		-	1,686,765	5		2,188,338		102,267	2,290,605		99,377	10,076,580
Medfield Housing Authority		-	10,264		53,879	64,143	3		13,316		(13,815)	(499)		605	60,922
Town of Medway		-	1,635,390		-	1,635,390)		2,121,686		270,381	2,392,067		96,350	9,768,080
Medway Housing Authority		-	60,687		18,251	78,938			78,733		(4,680)	74,053		3,575	360,919
Town of Millis		-	1,152,319		629,021	1,781,340)		1,494,970		(161,288)	1,333,682		67,890	6,886,081
Millis Housing Authority		-	25,554		-	25,554	ļ		33,153		21,149	54,302		1,506	137,978

SCHEDULE OF PENSION AMOUNTS BY EMPLOYER

FOR THE YEAR ENDED DECEMBER 31, 2015

	-	Deferred In	flows of Resources		F	ension Expense				
	Difference Between Expected and Actual	Assumption	Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of	Total Deferred Inflows of	Pr	roportionate Share of Plan Pension	Net Amortization from Changes in	Total Pension	(Proportionate Share of Contributions from Nonemployer Entities) Total Pension	Total Covered
<u>Employer</u>	<u>Experience</u>	<u>Changes</u>	Contributions	Resources		<u>Expense</u>	<u>Proportions</u>	<u>Expense</u>	<u>Revenue</u>	<u>Payroll</u>
Town of Norfolk	-	1,418,132	-	1,418,132		1,839,825	12,434	1,852,259	83,550	8,076,283
Norfolk Housing Authority	-	20,969	-	20,969		27,204	12,415	39,619	1,235	125,995
Norfolk Mosquito Control	-	132,096	-	132,096		171,375	16,063	187,438	7,783	764,802
Town of Plainville	-	1,239,369	-	1,239,369		1,607,905	225,743	1,833,648	73,018	7,235,026
Town of Randolph	-	3,789,075	-	3,789,075		4,915,784	62,846	4,978,630	223,234	21,565,645
Randolph Housing Authority	-	43,923	180,626	224,549		56,984	(46,314)	10,670	2,588	215,886
Town of Sharon	-	2,740,047	1,589,745	4,329,792		3,554,823	(407,627)	3,147,196	161,432	16,355,566
Sharon Housing Authority	-	16,736	7,355	24,091		21,712	(1,886)	19,826	986	99,336
Town of Stoughton	-	3,604,328	659,814	4,264,142		4,676,104	(169,183)	4,506,921	212,351	21,042,350
Stoughton Housing Authority	-	48,419	202,182	250,601		62,816	(51,841)	10,975	2,853	274,950
Town of Walpole	-	3,323,151	1,212,119	4,535,270		4,311,316	(310,800)	4,000,516	195,785	19,301,311
Walpole Housing Authority	-	36,983	79,865	116,848		47,980	(20,478)	27,502	2,179	219,991
Town of Westwood	-	3,382,158	-	3,382,158		4,387,871	517,487	4,905,358	199,262	19,710,504
Town of Wrentham	-	1,296,055	-	1,296,055		1,681,447	873	1,682,320	76,358	7,741,172
Wrentham Housing Authority	-	17,302	18,950	36,252		22,448	(4,859)	17,589	1,019	103,879
Dedham Westwood Water District		397,300		397,300		515,441	282	515,723	23,407	2,363,328
	\$ -	\$ 45,780,285	\$ 7,334,377	\$ 53,114,662	\$	59,393,420	\$ - \$	59,393,420	\$ 2,697,174	\$ 267,454,300

SCHEDULE OF AMORTIZATION OF EMPLOYERS' DEFERRED OUTFLOWS/INFLOWS

FOR THE YEAR ENDED DECEMBER 31, 2015

FOR THE YEARS ENDING DECEMBER 31

<u>Employer</u>	<u>2016</u>		<u>2017</u>	2018		<u>2019</u>	Thereafter		<u>Total</u>
Town of Avon	\$ 127,972	\$	127,972	\$ 127,972	\$	68,521	\$ -	\$	452,437
Avon Housing Authority	1,162	Ċ	1,162	1,162	·	174	-		3,660
Town of Bellingham	611,408		611,408	611,408		449,117	-		2,283,341
Bellingham Housing Authority	(15,078)		(15,078)	(15,078)		(15,336)	_		(60,570)
Town of Canton	867,808		867,808	867,808		604,501	-		3,207,925
Canton Housing Authority	(11,694)		(11,694)	(11,694)		(15,095)	_		(50,177)
Town of Cohasset	697,196		697,196	697,196		555,337	-		2,646,925
Cohasset Housing Authority	235		235	235		(447)	-		258
Norfolk County	199,974		199,974	199,974		86,676	-		686,598
Charles River Pollution Control	19,184		19,184	19,184		11,537	-		69,089
Town of Dover	163,007		163,007	163,007		99,881	-		588,902
Dover-Sherborn Regional High School	154,883		154,883	154,883		114,461	-		579,110
Town of Foxboro	633,072		633,072	633,072		418,709	-		2,317,925
Foxboro Housing Authority	(7,037)		(7,037)	(7,037)		(8,892)	-		(30,003)
Town of Franklin	625,296		625,296	625,296		378,218	-		2,254,106
Franklin Housing Authority	18,549		18,549	18,549		13,938	-		69,585
Town of Holbrook	185,263		185,263	185,263		90,355	-		646,144
Holbrook Housing Authority	22,369		22,369	22,369		19,057	-		86,164
King Philip Regional School District	142,693		142,693	142,693		103,189	-		531,268
Town of Medfield	480,854		480,854	480,854		350,419	-		1,792,981
Medfield Housing Authority	(10,879)		(10,879)	(10,879)		(10,863)	-		(43,500)
Town of Medway	631,037		631,037	631,037		493,852	-		2,386,963
Medway Housing Authority	9,293		9,293	9,293		5,084	-		32,963
Town of Millis	107,313		107,313	107,313		31,353	-		353,292
Millis Housing Authority	26,054		26,054	26,054		22,949	-		101,111
Town of Norfolk	334,199		334,199	334,199		228,421	-		1,231,018
Norfolk Housing Authority	16,680		16,680	16,680		14,386	-		64,426
Norfolk Mosquito Control	45,331		45,331	45,331		34,691	-		170,684
Town of Plainville	496,488		496,488	496,488		393,016	-		1,882,480
Town of Randolph	920,711		920,711	920,711		636,975	-		3,399,108
Randolph Housing Authority	(34,249)		(34,249)	(34,249)		(34,955)	-		(137,702)
Town of Sharon	233,051		233,051	233,051		52,857	-		752,010
Sharon Housing Authority	1,999		1,999	1,999		867	-		6,864
Town of Stoughton	655,532		655,532	655,532		399,847	-		2,366,443
Stoughton Housing Authority	(38,583)		(38,583)	(38,583)		(39,241)	-		(154,990)
Town of Walpole	458,043		458,043	458,043		229,322	-		1,603,451
Walpole Housing Authority	(11,234)		(11,234)	(11,234)		(12,764)	-		(46,466)
Town of Westwood	1,262,135		1,262,135	1,262,135		983,818	-		4,770,223
Town of Wrentham	294,693		294,693	294,693		199,316	-		1,083,395
Wrentham Housing Authority	(774)		(774)	(774)		(1,723)	-		(4,045)
Dedham Westwood Water District	90,373	_	90,373	 90,373	_	61,112		_	332,231
	\$ 10,404,329	\$	10,404,329	\$ 10,404,329	\$	7,012,640	\$ -	\$	38,225,627

NOTES TO SCHEDULES OF EMPLOYER ALLOCATIONS, PENSION AMOUNTS BY EMPLOYER AND AMORTIZATION OF EMPLOYERS' DEFERRED OUTFLOWS/INFLOWS DECEMBER 31, 2015

NOTE 1 – DESCRIPTION OF THE ENTITY

The Norfolk County Retirement System (the System) was established to provide retirement benefits to eligible employees of its member employers. The System is governed by a five member Board who establish the policies under which the System operates. Board members also approve all of the System's financial transactions, including the approval of retirement benefits to members. The day-to-day operations of the System are managed by the Executive Director. The legislative body for the System is an Advisory Council consisting of full-time treasurers or other qualified officials of the member units. The Advisory Council meets at least twice annually and is responsible for supervising and certifying the procedures involved in the election of members to the retirement board.

The System issued a publicly available audited financial statement for the year ended December 31, 2015, which is available through the System's website at www.norfolkcountyretirement.org, or a copy may be obtained by submitting a request to the System's Executive Director at 480 Neponset Street, Building #15, Canton, MA 02021.

Plan Description

The System is a cost-sharing multiple-employer contributory defined benefit governmental pension plan established under Chapter 32 of the Massachusetts General Laws ("MGL") covering all employees of governmental member units deemed eligible by the Board. The System is a member of the Massachusetts Contributory Retirement System and is governed by Chapter 32 of MGL. The Public Employee Retirement Administration Commission (PERAC) is the state agency responsible for oversight of the Commonwealth's public retirement systems.

Membership

Membership in the Plan is mandatory immediately upon the commencement of employment for all non-teaching permanent employees regularly scheduled to work 20 hours or more per week. The pensions of school department employees who serve in a teaching capacity are administered by the Commonwealth of Massachusetts' Teachers Retirement System.

Benefits

Massachusetts Contributory Retirement System benefits are, with certain exceptions, uniform from system to system. The System provides for retirement allowance benefits up to a maximum of 80% of a member's highest three-year average annual rate of regular compensation. For persons who became members on or after April 2, 2012, average salary is the average annual rate of regular compensation received during the five consecutive years that produce the highest average, or, if greater, during the last five years (whether or not consecutive) preceding retirement. Benefit payments are based upon a member's age, length of creditable service, level of compensation, and group classification.

NOTES TO SCHEDULES OF EMPLOYER ALLOCATIONS, PENSION AMOUNTS BY EMPLOYER AND AMORTIZATION OF EMPLOYERS' DEFERRED OUTFLOWS/INFLOWS DECEMBER 31, 2015

NOTE 1 – DESCRIPTION OF THE ENTITY (Continued)

Benefits (Continued)

There are three classes of membership in the retirement system: group 1, group 2, and group 4. Group 1 consists of general employees which includes clerical and administrative positions. Group 2 consists of positions that have been specified as hazardous. Lastly, group 4 consists of police officers, firefighters, and other hazardous positions.

Members become vested after ten years of creditable service. A superannuation retirement allowance may be received upon the completion of 20 years of service or upon reaching the age of 55 with 10 years of service if hired after 1978 and if classified in groups 1 or 2. A person who became a member on or after April 2, 2012 is eligible for a superannuation retirement allowance upon reaching the age of 60 with 10 years of service if in group 1, 50 years of age with 10 years of service if in group 2, and 55 years of age if hired prior to 1978 or if classified in group 4. Normal retirement for most employees occurs at age 65 (except for certain hazardous duty and public safety positions, whose normal retirement is at age 55).

A retirement allowance consists of two parts: an annuity and a pension. A member's accumulated total deductions and the interest they generate constitute the annuity. The differential between the total retirement benefit and the annuity is the pension. The average retirement benefit is approximately 80-85% pension and 15-20% annuity.

Members who become permanently and totally disabled for further duty may be eligible to receive a disability retirement allowance. The amount of benefits to be received in such cases is dependent on several factors, including whether or not the disability is work related, the member's age, years of creditable service, level of compensation, veterans' status and group classification.

Employees who resign from service and who are not eligible to receive a retirement allowance or are under the age of 55 are entitled to request a refund of their accumulated total deductions. In addition, with at least ten years of creditable service, such employees are entitled to receive one hundred (100%) percent of the regular interest which has accrued upon those deductions. Survivor benefits are extended to eligible beneficiaries of members whose death occurs prior to or following retirement.

Contributions

Active members contribute between 5 and 9% of their gross regular compensation. Members joining the System after January 1, 1979 must contribute an additional 2% on regular compensation earned at a rate in excess of \$30,000. The percentage rate is keyed to the date upon which an employee's membership commences. These deductions are deposited in the Annuity Savings Fund and earn interest at a rate determined by the Public Employee Retirement Administration Commission's (PERAC) actuary. When a member's retirement becomes effective, his/her deductions and related interest are transferred to the Annuity Reserve Fund. Any cost-of-living adjustments granted between 1981 and 1997 and any increase in other benefits imposed by

NOTES TO SCHEDULES OF EMPLOYER ALLOCATIONS, PENSION AMOUNTS BY EMPLOYER AND AMORTIZATION OF EMPLOYERS' DEFERRED OUTFLOWS/INFLOWS DECEMBER 31, 2015

NOTE 1 – <u>DESCRIPTION OF THE ENTITY</u> (Continued)

Contributions (Continued)

the Commonwealth of Massachusetts' state law during those years are borne by the Commonwealth and are deposited into the Pension Fund. Cost-of-living adjustments granted after 1997 must be approved by the System and all costs are borne by the System. The pension portion of any retirement benefit is paid from the Pension Fund of the System. The governmental unit employing the member must annually appropriate and contribute the amount of current-year pension assessment.

NOTE 2 – ACTUARIAL ASSUMPTIONS AND METHODS

The total pension liability was determined by an actuarial valuation as of January 1, 2016. The following actuarial assumptions were applied to all periods included in the measurement that was updated to December 31, 2015:

Actuarial cost method: Entry Age Normal Cost Method

Asset valuation method Market value

Investment rate of return 8.0%

Projected salary increases 3.5% - 5.5%

Inflation 4.0%

Cost of living increases 3.0% of first \$15,000 of retirement income

Mortality: The RP-2014 Blue Collar Mortality Table adjusted with

Scale with MP-2014

NOTE 3 – NET PENSION LIABILITY

The components of the net pension liability of the System as of December 31, 2015, is as follows:

Total Pension Liability \$1,310,561,438 Fiduciary Net Position $\frac{767,348,723}{543,212,715}$ System's Net Pension Liability \$\frac{543,212,715}{543,212,715}

Fiduciary Net Position as a percentage of

total pension liability 58.6%

NOTES TO SCHEDULES OF EMPLOYER ALLOCATIONS, PENSION AMOUNTS BY EMPLOYER AND AMORTIZATION OF EMPLOYERS' DEFERRED OUTFLOWS/INFLOWS DECEMBER 31, 2015

NOTE 3 – <u>NET PENSION LIABILITY</u> (Continued)

The total pension liability is calculated by the System's actuary and plan fiduciary net position is reported in the System's financial statements. The net pension liability is disclosed in accordance with the requirements of Governmental Accounting Standards Board (GASB) Statement No. 67 in the System's notes to financial statements and required supplementary information.

Discount Rate

The discount rate used to measure the total pension liability as of December 31, 2015 was 8.0%. 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 employer contributions will be made at contractually required rates, actuarially determined. Under Chapter 32 of the MGL, employers are required to make the necessary contributions such that the Plan reaches full funding status by 2040. Based on those assumptions, the 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 Plan investments was applied to all periods of projected benefit payments to determine total pension liability.

Long-Term Expected Rate of Return

The long term expected rate of return on Plan investments was determined using a building-block method in which best-estimates ranges of expected future real rates of return (expected returns, net of plan investment expense and inflation) are developed for each major asset class. 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. The target allocation and best estimates of arithmetic real rates of return for each major asset class are summarized as follows:

Asset Class	Target <u>Allocation</u>	Long-term Expected Real <u>Rate of Return</u>
Domestic Equity	32.0%	9.4%
International Equities	17.5	9.7%
Fixed Income	19.0	3.4%
Real Estate	9.0	7.7%
Private Equity	8.5	13.6%
Hedge Funds	9.0	7.9%
Real Assets	5.0	7.9%
Total	<u>100.0</u> %	

The System's policy in regard to the allocation of invested Plan assets is established and may be amended by the Board. Plan assets are managed with a long-term objective of achieving and maintaining a fully funded status for the benefits provided through the Plan.

The annual money-weighted rate of return on investments, net of investment expense was -0.75% for the year ended December 31, 2015. The money-weighted rate of return expresses investment performance, net of investment expense, adjusted for the changing amounts actually invested.

NOTES TO SCHEDULES OF EMPLOYER ALLOCATIONS, PENSION AMOUNTS BY EMPLOYER AND AMORTIZATION OF EMPLOYERS' DEFERRED OUTFLOWS/INFLOWS DECEMBER 31, 2015

NOTE 3 – <u>NET PENSION LIABILITY</u> (Continued)

Sensitivity of the Net Pension Liability to Changes in the Discount Rate

The following presents the net pension liability of the System as of December 31, 2015, calculated using the discount rate of 8.0%, as well as what the System's net pension liability would be if it were calculated using a discount rate that is one-percentage point lower (7.0%) or one-percentage point higher (9.0%) than the current rate:

.	1% Decrease (7.0%)	Current Discount Rate (8.0%)	1% Increase (9.0%)
System's Net Pension Liability	\$681,258,622	\$543,212,715	\$425,386,643

NOTE 4 – BASIS OF PRESENTATION

The Schedule of Employer Allocations, Schedule of Pension Amounts by Employer, and Schedule of Amortization of Employers' Deferred Outflows/Inflows present amounts that are elements of the financial statements of the System or of its participating employers. Accordingly, they do not purport to be a complete presentation of the financial position or changes in financial position of either the System or its participating employers. The amounts presented in the schedules were prepared in accordance with U.S. generally accepted accounting principles. Such preparation requires management of the System to make a number of estimates and assumptions relating to the reported amounts. Due to inherent nature of these estimates, actual results may differ from those estimates.

NOTE 5 - PENSION EXPENSE

System pension expense for the year ended December 31, 2015 is as follows:

Service Cost	\$ 31,963,567
Interest Cost	106,603,990
Expected Return on Assets	(64,358,205)
Member Contributions	(26,920,011)
Current Year Amortization of Difference Between	•
Expected and Actual Experience	2,822,209
Current Year Amortization of Assumption Changes	(11,738,535)
Current Year Amortization of Difference Between	
Projected and Actual Investment Earnings	19,320,655
Administrative Expenses	<u>1,699,750</u>
Total	\$ <u>59,393,420</u>

The System pension expense is based on the January 1, 2016 valuation. The employers' allocation of the pension expense is shown in the Schedule of Pension Amounts by Employer. The difference between expected and actual experience and the effect of assumption changes are amortized over the average expected remaining service lives of active and inactive members as of January 1, 2016 (4.9 years). The difference between projected and actual investment earnings is amortized over 5 years.

NOTES TO SCHEDULES OF EMPLOYER ALLOCATIONS, PENSION AMOUNTS BY EMPLOYER AND AMORTIZATION OF EMPLOYERS' DEFERRED OUTFLOWS/INFLOWS DECEMBER 31, 2015

NOTE 6 - DEFERRED INFLOWS OF RESOURCES AND DEFERRED OUTFLOWS OF RESOURCES

Annual changes to the net pension liability resulting from differences between expected and actual experience and from changes in assumptions are deferred and amortized over a closed period equal to the average of the expected service lives of all members determined for the period during which the changes occurred. Differences between projected and actual earnings are amortized over a closed 5 year period. The following presents a summary of the changes in the collective deferred outflows of resources and deferred inflows of resources for the year ended December 31, 2015:

				Beginning	Current	Current	End		
	Amortization	Original	Accumulated	of Year	Year	Year	of Year		
<u>Year</u>	<u>Period</u>	<u>Amount</u>	<u>Amortization</u>	<u>Balance</u>	<u>Deferrals</u>	<u>Amortization</u>	<u>Balance</u>		
<u>Deferred</u>	Outflows of Re	sources							
Differenc	e Between Exp	ected and A	ctual Experience	e					
2015	4.9	\$ -	\$ -	\$ -	\$ 13,828,826	\$ 2,822,209	\$11,006,617		
Difference Between Projected and Actual Investment Earnings									
2014	5	21,416,618	4,283,324	17,133,294	-	4,283,324	12,849,970		
2015	5	-	-	-	75,186,656	15,037,331	60,149,325		
	<u>Deferred Inflows of Resources</u> Difference from Assumption Changes								
2015	4.9	-	-	-	(57,518,820)	(11,738,535)	(45,780,285)		
Total Deferred Outflows/Inflows of Resources \$38,225,627									

The following schedule reflects the amortization of the balance of deferred outflows of resources and deferred inflows of resources at December 31, 2015:

Measurement Period Ending December 31:	<u>Amount</u>
2016	\$10,404,329
2017	10,404,329
2018	10,404,329
2019	7,012,640
Thereafter	-
Total	\$38,225,627

NOTES TO SCHEDULES OF EMPLOYER ALLOCATIONS, PENSION AMOUNTS BY EMPLOYER AND AMORTIZATION OF EMPLOYERS' DEFERRED OUTFLOWS/INFLOWS DECEMBER 31, 2015

NOTE 7 – <u>PROPORTIONATE SHARE ALLOCATION METHODOLOGY AND EMPLOYER ALLOCATIONS</u>

GASB Statement No. 68 requires employers in the Plan to recognize their proportionate share of the collective net pension liability. The System has determined that utilizing the most recent statutorily required employer contributions is an appropriate allocation methodology. The Schedule of Employer Allocations display the proportionate allocation used to allocate the Difference Between Expected and Actual Experience; Net Difference Between Projected and Actual Investment Earnings; Recognition of Previous Deferred Outflows; Assumption Changes; Proportionate Share of Plan Pension Expense; and Proportionate Share of Contributions from Nonemployer Entities. Actual employer contributions for the year ended December 31, 2015 were also used in the calculation of an employer's Ending Net Pension Liability. The Schedule of Actual Employer Contributions is presented as supplementary information.

NOTE 8 – <u>ADDITIONAL FINANCIAL AND ACTUARIAL INFORMATION</u>

Information contained in these Notes to Schedules of Employer Allocations and Pension Amounts by Employer (the Schedules) was extracted from the audited financial statements of the System for the years ended December 31, 2015 and 2014. Additional financial information supporting the preparation of the Schedules (including the unqualified audit opinion on the financial statements and required supplementary information) is located in the audited financial statements of the System for the years ended December 31, 2015 and 2014. A copy may be obtained by submitting a request to the System's Executive Director at 480 Neponset Street, Building #15, Canton, MA 02021.



SCHEDULE OF ACTUAL EMPLOYER CONTRIBUTIONS

FOR THE YEAR ENDED DECEMBER 31, 2015

<u>Employer</u>		Employer Contributions
Town of Avon	\$	969,509
Avon Housing Authority	,	18,965
Town of Bellingham		2,341,492
Bellingham Housing Authority		22,250
Town of Canton		3,990,657
Canton Housing Authority		89,480
Town of Cohasset		1,706,914
Cohasset Housing Authority		13,562
Norfolk County		3,056,908
Charles River Pollution Control		120,377
Town of Dover		1,023,985
Dover-Sherborn Regional High School		560,895
Town of Foxboro		3,318,800
Foxboro Housing Authority		38,396
Town of Franklin		3,947,535
Franklin Housing Authority		62,747
Town of Holbrook		1,662,447
Holbrook Housing Authority		28,723
King Philip Regional School District		587,229
Town of Medfield		1,889,872
Medfield Housing Authority		16,770
Town of Medway		1,902,885
Medway Housing Authority		69,273
Town of Millis		1,355,413
Millis Housing Authority		24,856
Town of Norfolk		1,645,469
Norfolk Housing Authority		25,056
Norfolk Mosquito Control		141,912
Town of Plainville		1,234,888
Town of Randolph		4,319,218
Randolph Housing Authority		74,216
Town of Sharon		3,343,148
Sharon Housing Authority		20,002
Town of Stoughton		4,028,761
Stoughton Housing Authority		72,916
Town of Walpole		3,972,135
Walpole Housing Authority		43,307
Town of Westwood		3,583,777
Town of Wrentham		1,422,787
Wrentham Housing Authority		14,649
Dedham Westwood Water District		438,887
	\$	53,201,068

The Accompanying Notes are an Integral Part of the Schedule of Actual Employer Contributions.