

REQUIRED SUPPLEMENTARY INFORMATION

Required Supplementary Information presents additional information as mandated by current governmental financial reporting standards.

**Exhibit RSI-1
Schedule of Employer Contributions - Teachers' Retirement Fund
Last Ten Fiscal Years (\$000s)**

	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009
Actuarially determined contribution	\$ 59,046	\$ 56,781	\$ 44,469	\$ 39,513	\$ 31,636	\$ 6,407	\$ -	\$ -	\$ -	\$ -
Contributions in relation to actuarially determined contribution	59,046	56,781	44,469	39,513	31,636	6,407	-	-	-	-
Contribution deficiency (excess)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Covered payroll	\$ 470,749	\$ 447,762	\$ 438,079	\$ 417,090	\$ 378,926	\$ 369,071	\$ 381,235	\$ 384,455	\$ 337,516	\$ 336,600
Contributions as a percentage of covered payroll	12.54%	12.68%	10.15%	9.47%	8.35%	1.74%	0.00%	0.00%	0.00%	0.00%

Note:

Valuation Date: Actual contributions are based on valuations 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 for fiscal year 2018:

Actuarial cost method: Entry age normal

Amortization method: Level dollar, closed

Remaining amortization period: 16 years

Asset valuation method: 7-year smoothed market

Inflation: 3.50%

Salary increases: 4.25% to 8.25%, including wage inflation of 4.25%

Investment rate of return: 6.50%, net of pension plan investment expense, and including inflation

Cost of living adjustments: 3.50% (Limited to 3.00% for those hired after 11/1/1996)

**Exhibit RSI-2
Schedule of Employer Contributions - Police Officers' and Firefighters' Retirement Fund
Last Ten Fiscal Years (\$000s)**

	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009
Actuarially determined contribution	\$ 105,596	\$ 145,631	\$ 136,115	\$ 103,430	\$ 110,766	\$ 96,314	\$ 116,700	\$ 127,200	\$ 132,300	\$ 106,000
Contributions in relation to actuarially determined contribution	105,596	145,631	136,115	103,430	110,766	96,314	116,700	127,200	132,300	106,000
Contribution deficiency (excess)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Covered payroll	\$ 454,209	\$ 441,904	\$ 438,114	\$ 446,201	\$ 426,135	\$ 413,380	\$ 414,877	\$ 421,221	\$ 423,854	\$ 436,100
Contributions as a percentage of covered payroll	23.25%	32.96%	31.07%	23.18%	25.99%	23.30%	28.13%	30.20%	31.21%	24.31%

Note:

Valuation Date: Actual contributions are based on valuations 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 for fiscal year 2018:

Actuarial cost method: Entry age normal

Amortization method: Level dollar, closed

Remaining amortization period: 16 years

Asset valuation method: 7-year smoothed market

Inflation: 3.50%

Salary increases: 4.25% to 9.25%, including wage inflation of 4.25%

Investment rate of return: 6.50%, net of pension plan investment expense, and including inflation

Cost of living adjustments: 3.50% (Limited to 3.00% for those hired after 11/10/1996)

Exhibit RSI-3
Schedule of Changes in Net Pension Liability and Related Ratios - Teachers' Retirement Fund
Last Five Fiscal Years (\$000s)

	<u>2018</u>	<u>2017</u>	<u>2016</u>	<u>2015</u>	<u>2014</u>
TOTAL PENSION LIABILITY					
Service cost	\$ 67,877	\$ 65,911	\$ 61,599	\$ 53,297	\$ 50,409
Interest	137,704	131,657	124,370	118,378	112,204
Differences between expected and actual experience	(19,505)	(37,230)	2,656	(7,246)	-
Changes in assumptions	-	14,106	-	-	-
Benefit payments, including refunds of employee contributions	(84,556)	(78,235)	(75,298)	(69,652)	(65,622)
Net change in total pension liability	101,520	96,209	113,327	94,777	96,991
Total pension liability-beginning	2,160,347	2,064,138	1,950,811	1,856,034	1,759,043
Total pension liability-ending (a)	<u>\$ 2,261,867</u>	<u>\$ 2,160,347</u>	<u>\$ 2,064,138</u>	<u>\$ 1,950,811</u>	<u>\$ 1,856,034</u>
PLAN FIDUCIARY NET POSITION					
Contributions - employer	\$ 59,046	\$ 56,781	\$ 44,469	\$ 39,513	\$ 31,636
Contributions - employees	40,324	34,364	33,591	31,621	28,751
Net investment income	94,129	239,554	152,262	(72,647)	132,086
Benefit payments including refunds of employee contributions	(84,556)	(78,235)	(75,298)	(69,652)	(65,622)
Administrative expenses	(4,474)	(4,721)	(4,746)	(4,543)	(3,787)
Other	1,038	907	1,033	385	522
Net change in plan fiduciary net position	105,507	248,650	151,311	(75,323)	123,586
Plan fiduciary net position-beginning	2,070,599	1,821,949	1,670,638	1,745,961	1,622,375
Plan fiduciary net position-ending (b)	<u>\$ 2,176,106</u>	<u>\$ 2,070,599</u>	<u>\$ 1,821,949</u>	<u>\$ 1,670,638</u>	<u>\$ 1,745,961</u>
District's net pension liability-ending (a)-(b)	<u>\$ 85,761</u>	<u>\$ 89,748</u>	<u>\$ 242,189</u>	<u>\$ 280,173</u>	<u>\$ 110,073</u>
Plan fiduciary net position as a percentage of total pension liability (b)/(a)	96.21%	95.85%	88.27%	85.64%	94.07%
Covered payroll	\$ 470,749	\$ 447,762	\$ 438,079	\$ 417,090	\$ 378,926
Net pension liability as a percentage of covered payroll	18.22%	20.04%	55.28%	67.17%	29.05%

Note:

Schedule is intended to show information for 10 years. Additional years will be displayed as they become available.

**Exhibit RSI-4
Schedule of Changes in Net Pension Liability (Asset) and Related Ratios - Police Officers' and Firefighters' Retirement Fund
Last Five Fiscal Years (\$000s)**

	<u>2018</u>	<u>2017</u>	<u>2016</u>	<u>2015</u>	<u>2014</u>
TOTAL PENSION LIABILITY					
Service cost	\$ 182,641	\$ 196,629	\$ 198,020	\$ 192,114	\$ 176,102
Interest	318,719	300,626	282,285	257,943	235,097
Differences between expected and actual experience	(84,452)	(188,549)	(106,840)	(2,477)	-
Changes in assumptions	-	67,256	-	-	-
Benefit payments, including refunds of employee contributions	(108,374)	(94,184)	(81,316)	(65,030)	(54,421)
Net change in total pension liability	308,534	281,778	292,149	382,550	356,778
Total pension liability-beginning	4,957,340	4,675,562	4,383,413	4,000,863	3,644,085
Total pension liability-ending (a)	<u>\$ 5,265,874</u>	<u>\$ 4,957,340</u>	<u>\$ 4,675,562</u>	<u>\$ 4,383,413</u>	<u>\$ 4,000,863</u>
PLAN FIDUCIARY NET POSITION					
Contributions - employer	\$ 105,596	\$ 145,631	\$ 136,115	\$ 103,430	\$ 110,766
Contributions - employees	34,478	33,424	32,785	33,679	32,821
Net investment income	316,842	655,310	415,157	(187,283)	338,894
Benefit payments including refunds of employee contributions	(108,374)	(94,184)	(81,316)	(65,030)	(54,421)
Administrative expenses	(11,570)	(12,838)	(12,918)	(11,939)	(9,730)
Other	2,356	2,468	2,810	1,012	1,342
Net change in plan fiduciary net position	339,328	729,811	492,633	(126,131)	419,672
Plan fiduciary net position-beginning	5,684,442	4,954,631	4,461,998	4,588,129	4,168,457
Plan fiduciary net position-ending (b)	<u>\$ 6,023,770</u>	<u>\$ 5,684,442</u>	<u>\$ 4,954,631</u>	<u>\$ 4,461,998</u>	<u>\$ 4,588,129</u>
District's net pension liability (asset)-ending (a)-(b)	<u>\$ (757,896)</u>	<u>\$ (727,102)</u>	<u>\$ (279,069)</u>	<u>\$ (78,585)</u>	<u>\$ (587,266)</u>
Plan fiduciary net position as a percentage of total pension liability (b)/(a)	114.39 %	114.67 %	105.97 %	101.79 %	114.68 %
Covered payroll	\$ 454,209	\$ 441,904	\$ 438,114	\$ 446,201	\$ 426,135
Net pension liability (asset) as a percentage of covered payroll	(166.86)%	(164.54)%	(63.70)%	(17.61)%	(137.81)%

Note:
Schedule is intended to show information for 10 years. Additional years will be displayed as they become available.

Exhibit RSI-5
Schedule of Employer Contributions - OPEB
Last Ten Fiscal Years (\$000s)

	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009
Actuarially determined contribution	\$ 44,500	\$ 31,000	\$ 29,000	\$ 91,400	\$ 86,600	\$ 85,200	\$ 95,500	\$ 94,200	\$ 92,200	\$ 130,900
Contributions in relation to actuarially determined contribution	44,500	31,000	29,000	91,400	86,600	107,778	109,825	94,200	90,725	81,158
Contribution deficiency (excess)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (22,578)	\$ (14,325)	\$ -	\$ 1,475	\$ 49,742
Covered payroll	\$ 1,940,801	\$ 1,820,046	\$ 1,771,335	\$ 1,608,000	\$ 1,484,300	\$ 1,441,100	\$ 1,399,100	\$ 1,559,800	\$ 1,544,500	\$ 1,579,900
Contributions as a percentage of covered payroll	2.29%	1.70%	1.64%	5.68%	5.83%	5.91%	6.83%	6.04%	5.97%	8.29%

Note:

Valuation Date: Actual contributions are based on valuations as of September 30, 2017, one year prior to the end of the fiscal year in which contributions are reported.

Methods and assumptions used to determine contribution rates:

Actuarial Cost Method: Entry Age Normal

Amortization Method: Level Percent of Pay, Closed

Remaining Amortization Period: 18 years beginning with fiscal year end 2018

Asset Valuation Method: Market Value

Investment rate of return: 6.50%

Discount Rate: 6.50%

Salary Increase Rate: 3.50% (plus merit scale)

Medical Inflation Rate: 5.50%, grading to 3.90%. Assumption utilizes the Society of Actuaries Getzen Medical Trend Model, and reaches the ultimate medical inflation rate in 2040

Mortality: The RP-2014 Healthy Employee Mortality Table with the MP-2017 Improvement Scale, fully generational, was used for healthy lives both pre- and post-retirement. For disabled lives, the RP-2014 Disabled Life Mortality Table was used

**Exhibit RSI-6
Schedule of Changes in Net OPEB Liability (Asset) and Related Ratios
Last Two Fiscal Years (\$000s)**

	<u>2018</u>	<u>2017</u>
TOTAL OPEB LIABILITY		
Service cost	\$ 52,835	\$ 49,610
Interest	79,095	72,123
Differences between expected and actual experience	(729)	(539)
Changes in assumptions	50,940	-
Insurance carrier premiums net of retiree contributions	(15,740)	(12,370)
Net change in total OPEB liability	166,401	108,824
Total OPEB liability-beginning	1,224,600	1,115,776
Total OPEB liability-ending (a)	<u>\$ 1,391,001</u>	<u>\$ 1,224,600</u>
OPEB PLAN FIDUCIARY NET POSITION		
Contributions - employer and annuitants	\$ 45,206	\$ 31,522
Net investment income	67,386	150,515
Insurance carrier premiums (benefits payments)	(16,447)	(12,892)
Administrative expenses	(397)	(304)
Net change in plan fiduciary net position	95,748	168,841
Plan fiduciary net position-beginning	1,366,282	1,197,441
Plan fiduciary net position-ending (b)	<u>\$ 1,462,030</u>	<u>\$ 1,366,282</u>
District's net OPEB liability (asset)-ending (a)-(b)	<u>\$ (71,029)</u>	<u>\$ (141,682)</u>
Plan fiduciary net position as a percentage of total OPEB liability (b)/(a)	105.11 %	111.57 %
Covered payroll	\$ 1,940,801	\$ 1,820,046
Net OPEB liability (asset) as a percentage of covered payroll	(3.66)%	(7.78)%

Notes to Schedule:

Changes in assumptions which increased the total OPEB liability by \$50,940, resulted from changes in healthcare costs and trends. Schedule is intended to show information for 10 years. Additional years will be displayed as they become available.