# City of Grand Rapids Police Other Postemployment Benefits

Actuarial Valuation Report June 30, 2018



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December 19, 2018

Mr. Jeff Dood Chief Financial Officer City of Grand Rapids 300 Monroe Avenue, N.W. Grand Rapids, MI 49503

Dear Mr. Dood:

Submitted in this report are the results of an Actuarial Valuation of the benefit values associated with the employer financed Other Postemployment Benefits provided by the City of Grand Rapids for Police Employees. The date of the valuation was June 30, 2018.

This report was prepared at the request of the City of Grand Rapids. This report may be provided to parties other than the City of Grand Rapids only in its entirety and only with the permission of the City of Grand Rapids. GRS is not responsible for unauthorized use of this report. This report should not be relied on for any purpose other than the purpose described herein.

The actuarial calculations were prepared for purposes of measuring the Plan's funding progress and to determine the Actuarially Computed Employer Contribution rates for the fiscal year ending June 30, 2020. Determinations of the liability associated with the benefits described in this report for purposes other than satisfying the System's financial reporting requirements may produce significantly different results. This report does not satisfy GASB Statements No. 74 and No. 75. Please see the report dated September 28, 2018 for information related to GASB Statement No. 74 and No. 75 reporting.

The findings in this report are based on data and other information through June 30, 2018. Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period or additional cost or contribution requirements based on the plan's funded status); and changes in plan provisions or applicable law. Due to the limited scope of the actuary's assignment, the actuary did not perform an analysis of the potential range of such future measurements.

Mr. Jeff Dood City of Grand Rapids December 19, 2018 Page 2

The valuation was based upon information, furnished by the City and Meritain, concerning retiree health care benefits, individual members, and financial data. Data was checked for internal consistency, but was not audited. We are not responsible for the accuracy or completeness of the information provided by the City and Meritain.

To the best of our knowledge, this report is complete and accurate and was made in accordance with generally recognized actuarial methods.

James D. Anderson, Abra D. Hill and Michael D. Kosciuk are Members of the American Academy of Actuaries (MAAA) and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained herein. The signing actuaries are independent of the plan sponsor.

Respectfully submitted,

James D. Anderson, FSA, EA, FCA, MAAA

Abra D. Hill, ASA, MAAA

Michael D. Kosciuk, ASA, MAAA

JDA/ADH/MDK:sc

C2482







### **Executive Summary**

#### **Actuarially Computed Employer Contribution**

Please note that beginning with the fiscal year ending June 30, 2017, GASB Statement No. 43 was replaced by GASB Statement No. 74. Also, beginning with the fiscal year ending June 30, 2018, GASB Statement No. 45 will be replaced by GASB Statement No. 75. The report dated September 28, 2018 complies with the actuarial requirements of GASB Statements No. 74 and No. 75 beginning with the fiscal year ending June 30, 2018. There is no longer an "Annual Required Contribution" (ARC) calculated in the valuation reports. Therefore, we have determined the "Actuarially Computed Employer Contribution" for subsequent years.

We have calculated the Actuarially Computed Employer Contribution for the fiscal year ending June 30, 2020 using an interest rate assumption of 5.0%. Below is a summary of the results.

The Actuarially Computed Employer Contribution (ACEC) for the fiscal year ending June 30, 2020 was determined to be \$2,648,182 (\$2,595,989 for DB, \$52,193 for RHSA). The expected employer portion of the claims and premium amounts paid during the fiscal year ending June 30, 2020 are estimated to be \$2,622,779 for DB and \$0 for RHSA. These amounts reflect the employer portion of the retiree only premium rates and the implicit subsidy for retirees and covered spouses.

For additional details, please see Section A of the report.

#### **Liabilities and Assets**

The present value of all benefits expected to be paid to current plan members as of June 30, 2018 is \$61,392,242 (\$60,767,142 for DB, \$625,100 for RHSA). The actuarial accrued liability, which is the portion of the \$61,392,242 attributable to service accrued by plan members as of June 30, 2018, is \$55,387,943 (\$54,900,650 for DB, \$487,293 for RHSA). The actuarial value of assets currently set aside for OPEB purposes as of June 30, 2018 is \$33,750,459. Assets are currently only allocated to the Defined Benefit portion of the plan. Thus, the Police DB plan is 61.5% funded.



# **SECTION A**

**VALUATION RESULTS** 

# **Development of the Actuarially Computed Employer Contributions** for the Other Postemployment Benefits

	Police - Actuarially Computed Employer Contribution			
Contributions for	Defined Benefit <sup>1</sup>	RHSA <sup>2</sup>	Total	
Normal Cost  Normal Retirement  Termination Benefits  Disability/Death-in-Service  Total Normal Cost	\$ 713,374 158,762 <u>180,676</u> \$ 1,052,812	\$ 12,172	\$ 1,064,984	
Amortization of Unfunded Actuarial Accrued Liabilities (Amortized over 20 years)	\$ 1,543,177	\$ 40,021	\$ 1,583,198	
Actuarially Computed Employer Contribution (ACEC) for the Fiscal Year Ending June 30, 2020	\$ 2,595,989	\$ 52,193	\$ 2,648,182	

For City budgeting purposes related to the Defined Benefit plan.

The unfunded actuarial accrued liabilities were amortized as a level dollar amount over a closed period of 20 years beginning with the fiscal year ending June 30, 2020 and decreasing by 1 each year thereafter.

The assumptions used to calculate the results shown above include a 5.0% investment return rate.



RHSA information as required for GASB disclosure which reflects the ability of Defined Contribution RHSA participants to access the Health Care plan at reduced costs due to blended rates plus employer paid duty disability benefits.

# **Determination of Unfunded Actuarial Accrued Liability** as of June 30, 2018

		Police	
	Defined Benefit <sup>1</sup>	RHSA <sup>2</sup>	Total
A. Present Value of Future Benefits			
1. Retirees and Beneficiaries	\$18,344,718	\$ 487,293	\$18,832,011
2. Vested Terminated Members	11,197,719	0	11,197,719
3. Active Members	31,224,705	137,807	31,362,512
Total Present Value of Future Benefits	\$60,767,142	\$ 625,100	\$61,392,242
B. Present Value of Future Employer Normal Costs	5,866,492	137,807	6,004,299
C. Actuarial Accrued Liability (AB.)	54,900,650	487,293	55,387,943
D. Market Value of Assets	33,750,459	0	33,750,459
E. Unfunded Actuarial Accrued Liability (CD.)	\$21,150,191	\$ 487,293	\$21,637,484
F. Funded Ratio (D./C.)	61.5%	0.0%	60.9%

For City budgeting purposes related to the Defined Benefit plan.



RHSA information as required for GASB disclosure which reflects the ability of Defined Contribution RHSA participants to access the Health Care plan at reduced cost due to blended rates plus employer paid duty disability benefits.

# **Projections** as of June 30, 2018\*

Year	Asset	Actuarially	Health		
Ending	Value	Computed Employer	Care	Investment	Asset Value
June 30,	ВОҮ	Contribution	Benefits^	Income	EOY
2020	\$ 36,990,221	\$ 2,595,989	\$ 2,622,779	\$ 1,848,849	\$ 38,812,280
2021	38,812,280	2,455,214	3,054,457	1,925,816	40,138,853
2022	40,138,853	2,338,960	3,567,660	1,976,600	40,886,753
2023	40,886,753	2,223,777	4,092,414	1,998,192	41,016,308
2024	41,016,308	2,106,981	4,636,469	1,988,350	40,475,170
2025	40,475,170	1,998,606	5,288,413	1,942,516	39,127,879
2026	39,127,879	1,902,333	5,771,300	1,860,850	37,119,762
2027	37,119,762	1,820,224	6,130,143	1,749,554	34,559,397
2028	34,559,397	1,752,232	6,336,466	1,614,762	31,589,925
2029	31,589,925	1,697,515	6,528,892	1,460,185	28,218,733
2030	28,218,733	1,653,721	6,743,323	1,285,249	24,414,380
2031	24,414,380	1,619,368	6,814,493	1,092,425	20,311,680
2032	20,311,680	1,593,718	6,443,761	895,812	16,357,449
2033	16,357,449	1,574,365	6,076,738	706,686	12,561,762
2034	12,561,762	1,559,264	5,668,473	526,611	8,979,164
2035	8,979,164	1,548,206	4,810,577	368,394	6,085,187
2036	6,085,187	1,540,721	3,743,167	249,870	4,132,611
2037	4,132,611	1,536,200	3,087,487	168,321	2,749,645
2038	2,749,645	1,533,657	2,447,726	114,909	1,950,485
2039	1,950,485	1,532,284	1,682,070	93,825	1,894,524
2040	1,894,524	441	1,053,946	68,710	909,729
2041	909,729	139	510,873	32,874	431,869
2042	431,869	33	302,741	14,118	143,279
2043	143,279	5	111,051	4,422	36,655
2044	36,655	-	37,560	905	-

<sup>\*</sup> The projected results above are based on the existing Defined Benefit active, deferred, and retired members on the valuation date. Any benefits and/or contributions associated with Defined Contribution RHSA members, or members hired after the valuation date have not been included in these results.

Unfunded actuarial accrued liabilities were amortized over a 20-year period.



<sup>^</sup> Health Care Benefit payments were loaded to reflect children's coverage.

### **Illustrative Projections** as of June 30, 2018\*

Year	Asset	Actuarially	Health		
Ending	Value	Computed Employer	Care	Investment	Asset Value
June 30,	ВОҮ	Contribution	Benefits^	Income	EOY
2020	\$ 36,990,221	\$ 2,552,809	\$ 2,622,779	\$ 1,847,783	\$ 38,768,034
2021	38,768,034	2,412,375	3,054,457	1,922,545	40,048,497
2022	40,048,497	2,296,120	3,567,660	1,971,024	40,747,981
2023	40,747,981	2,180,938	4,092,414	1,990,195	40,826,700
2024	40,826,700	2,064,142	4,636,469	1,977,811	40,232,184
2025	40,232,184	1,955,766	5,288,413	1,929,309	38,828,846
2026	38,828,846	1,859,494	5,771,300	1,844,840	36,761,880
2027	36,761,880	1,777,384	6,130,143	1,730,602	34,139,723
2028	34,139,723	1,709,391	6,336,466	1,592,720	31,105,368
2029	31,105,368	1,654,675	6,528,892	1,434,899	27,666,050
2030	27,666,050	1,610,881	6,743,323	1,256,556	23,790,164
2031	23,790,164	1,576,528	6,814,493	1,060,156	19,612,355
2032	19,612,355	1,550,877	6,443,761	859,788	15,579,259
2033	15,579,259	1,531,525	6,076,738	666,719	11,700,765
2034	11,700,765	1,516,424	5,668,473	482,503	8,031,219
2035	8,031,219	1,505,365	4,810,577	319,938	5,045,945
2036	5,045,945	1,497,880	3,743,167	196,850	2,997,508
2037	2,997,508	1,493,359	3,087,487	110,508	1,513,888
2038	1,513,888	1,490,817	2,447,726	52,063	609,042
2039	609,042	1,489,444	1,682,070	25,695	442,111
2040	442,111	1,488,723	1,053,946	32,842	909,730
2041	909,730	139	510,873	32,874	431,870
2042	431,870	33	302,741	14,118	143,280
2043	143,280	5	111,051	4,422	36,656
2044	36,656	-	37,561	905	-

<sup>\*</sup> The projected results above are based on the existing Defined Benefit active, deferred, and retired members on the valuation date. Any benefits and/or contributions associated with Defined Contribution RHSA members, or members hired after the valuation date have not been included in these results.

The above projection illustrates the potential impact on plan contributions, investment income, and asset value if unfunded actuarial accrued liabilities were amortized over a 21-year period instead of a 20-year period.

Extending the amortization period decreases the Actuarially Computed Employer Contribution for the fiscal year ending June 30, 2020 by \$43,180.



<sup>^</sup> Health Care Benefit payments were loaded to reflect children's coverage.

#### Comments

Comment A: The Actuarially Computed Employer Contributions (ACEC) for the fiscal year ending June 30, 2020 decreased from the ACEC determined in the previous valuation report. Factors contributing to this decrease include, but are not limited to:

- Lower than expected claims experience.
- Lowering the load for children's coverage from 8% to 4%; and
- Based on conversations with the City, the removal of the 7% contingency load for possible future cost increases related to the "Cadillac" tax (also see Comment I).

Offsetting these factors are increases due to resetting the health care trend cost rates.

Comment B: One of the key assumptions used in any valuation of the cost of postemployment benefits is the long-term rate of investment return on the plan assets that will be used to pay plan benefits. The June 30, 2018 valuation investment return assumption is 5.0%, as requested by the City.

Comment C: The contribution rates shown include amortization of the unfunded actuarial accrued liability over a closed period of 20 years beginning with the fiscal year ending June 30, 2020.

Comment D: The cost of health care coverage for the children of retirees has decreased since the last measurement. A 4.0% load was applied to all health care liabilities and projections of benefits paid to value the additional cost of children's coverage, a decrease from the June 30, 2017 valuation load.

Comment E: Projections presented in this report will differ from those provided in the Trend Report dated September 28, 2018 due to:

- Age-based projection methodology used in this report versus average-based projections used in the Trend Report;
- Data variances;
- Projected cash flows in this report are net of retiree contributions; and
- The valuation year starts July 1<sup>st</sup> while the rating year (for Trend Report purposes) starts January 1<sup>st</sup>.

Comment F: 100% of future eligible RHSA retirees were assumed to participate in the City of Grand Rapids Retiree Health Care Plan. The ACEC for the RHSA was provided for GASB reporting purposes. It is the decision of the City of Grand Rapids on how to pre-fund the RHSA portion of the ACEC, if at all. Active RHSA balances were not provided, and have not been used to offset benefits for future Duty Disability Retirements.



#### Comments

Comment G: The GASB issued Statement Nos. 74 and 75 for OPEB valuations similar to the pension accounting standards. GASB Statement No. 74 for the plan OPEB disclosures is effective for fiscal years beginning after June 15, 2016. GASB Statement No. 75 for employer OPEB disclosures is effective for employer fiscal years beginning after June 15, 2017. The GASB implementation guide for Statements No. 74 and No. 75 provides additional clarification related to the implementation of these Statements. The City has complied with GASB Statements No. 74 and No. 75 (please see the report dated September 28, 2018). The basis for the GASB Statement No. 74 and GASB Statement No. 75 information will be this valuation (as of June 30, 2018), where roll-forward techniques will be applied.

Comment H: The calculations within this report have been performed incorporating \$33,750,459 in retiree health assets. We understand from the plan sponsor that these assets reside in a qualifying trust.

Comment I: The "Cadillac" tax is a 40% excise tax paid by the coverage provider (employer and/or insurer) on the value of health plan costs in excess of certain thresholds. The thresholds are \$10,200 for single coverage or \$27,500 for family coverage in 2022. Many plans are below the thresholds today, but are likely to exceed them in the next decade. The thresholds will be indexed at CPI-U, which is lower than the medical inflation rates affecting the cost of the plans. There is considerable uncertainty about how the tax would be applied, and considerable latitude in grouping of participants for tax purposes. Combining early retiree and Medicare eligible retiree costs is allowed and can keep plans under the thresholds for a longer period of time. For this valuation, no load was applied to the health care liabilities to approximate the cost for future excise tax, based on the current plan provisions and assumptions. We have not identified any other specific provision of health care reform that would be expected to have a significant impact on the measured obligation. As additional guidance on the legislation is issued, we will review and monitor the impact.

Comment J: Unless otherwise indicated, a funded status measurement presented in this report is based upon the actuarial accrued liability and the market value of assets. Unless otherwise indicated, with regards to any funded status measurements presented in this report:

- The measurement is inappropriate for assessing the sufficiency of plan assets to cover the estimated cost of settling the plan's benefit obligations, and
- The measure is inappropriate for assessing the need for or the amount of future employer contributions.

Comment K: Michigan Public Act 202 of 2017 created new reporting and other requirements for local units of government. As such, we can work with the City of Grand Rapids to develop a funding policy to document Plan procedures and facilitate compliance.





RETIREE PREMIUM RATE DEVELOPMENT

### **Retiree Premium Rate Development**

The initial per capita health care costs are an important part of a retiree health valuation. The per capita health care costs used in this valuation are based on analysis performed in connection with the annual Trend Report prepared for the City dated September 28, 2018. The following process is used to determine per capita health costs for the valuation from the results provided in the Trend Report:

- The pre-65 retiree only "2019 Calculated Premium Rates" developed on page 19 of the Trend Report serve as the basis of pre-65 per capita costs used in the valuation. The per contract rates are converted to per member rates and then converted to age-graded rates.
- Beginning in 2019 the foundation of the participants contribution will change to be based on a percentage of the blended (active and pre-65 retiree) tier rate but since no experience is available under this new scheme and to be conservative, the 2019 overall blended (pre-65 retiree and active composite rate) implemented rates (page 20 of the Trend Report) serve as the basis for pre-65 retiree contributions.
- The post-65 retirees pay 100% of the true cost developed on page 19 (2019 Calculated Premium Rates).

Please see the Trend Report for other important details regarding the rate setting process. A general description of the process follows.

#### **Background**

Eligible City retirees (and eligible spouses) receive benefits from the self-insured plan. For Non-Medicare retirees, there is one benefit option and for Medicare retirees, there is a choice of four options with the same medical benefits but differing drug copays.

### **Rate Development**

For the self-insured medical plans, initial per capita costs were developed separately for pre-65 and post-65 retirees using medical claims experience from July 2016 to June 2018 supplied by Meritain in conjunction with exposure data for the retired members of the health care program. These medical claims were projected on an incurred claim basis (using best estimate assumptions), adjusted for plan design changes, and loaded for administrative expenses.

For the self-insured drug plans, initial per capita costs were developed using drug claims experience July 2016 to June 2018 supplied by Meritain in conjunction with exposure data for the retired members of the health care program. These drug claims were projected on an incurred claim basis, adjusted for plan design changes and administrative expenses.

No Early Retirement Reinsurance Program (ERRP) reimbursements were reflected in the rates due to the short-term nature of the program.



### **Retiree Premium Rate Development**

The initial medical and drug premium rates used in the valuation are a weighted average cost of the 2year experience period to smooth out any large year to year fluctuations.

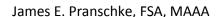
Age graded and sex distinct per capita costs are utilized by this valuation. The initial costs developed are appropriate for the unique age and sex distribution currently existing. Over the future years covered by this valuation, the age and sex distribution will most likely change. Therefore, our process "distributes" the average premium over all age/sex combinations and assigns a unique premium for each combination. This process more accurately reflects health care costs in the retired population over the projection period.

The table below shows the combined medical and prescription drug one-person monthly per capita costs at select ages.

Current and Future Retirees							
For Those Not Eligible for Medicare							
Age		Female					
45	\$	575.44	\$	794.19			
50		749.29		923.05			
55		985.98		1,076.55			
60		1,273.45		1,253.91			

The dental and vision per capita costs used in this valuation of the plan were not "age graded" since these claims do not vary significantly by age. The monthly dental per capita cost used in this valuation is \$39.56 for single coverage and \$77.14 for two-person or family coverage per month. The monthly vision per capita cost used in this valuation is \$9.07 for single coverage and \$17.69 for two-person or family coverage per month.

James E. Pranschke is a Member of the American Academy of Actuaries (MAAA) and meets the Qualification Standards of the American Academy of Actuaries to certify the per capita retiree health care rates shown above.



James E. Pranschke



### **Consideration of Health Care Reform**

Excise Tax on High-Cost Employer Health Plans (aka Cadillac Tax) Effective 1/1/2022. The "Cadillac" tax is a 40% excise tax paid by the coverage provider (employer and/or insurer) on the value of health plan costs in excess of certain thresholds. The thresholds are \$10,200 for single coverage or \$27,500 for family coverage in 2022. Many plans are below the thresholds today, but are likely to exceed them in the next decade. The thresholds will be indexed at CPI-U, which is lower than the medical inflation rates affecting the cost of the plans. There is considerable uncertainty about how the tax would be applied, and considerable latitude in grouping of participants for tax purposes. Combining early retiree and Medicare eligible retiree costs is allowed and can keep plans under the thresholds for a longer period of time.

For this Plan it is intended that, for purposes of the test, the pre and post Medicare members will be blended. Should the excise tax ever become applicable, and since all the health care plans are self-funded, then the plan sponsor will be the coverage provider paying the tax. The plan sponsor will need to decide whether to reduce benefits to avoid the tax, or how the additional cost will be allocated between the employer and the members. No load was applied to all health care liabilities and projections of benefits paid to approximate the cost for future excise tax in this valuation (previously, a 7% load was used).

We have not identified any other specific provision of health care reform that would be expected to have a significant impact on the measured obligation. As additional guidance on the legislation is issued, we will review and monitor those impacts.





# **City of Grand Rapids Police Retiree Health Care Plan Defined Benefit Health Care** Summary of Benefits as of June 30, 2018

#### **Plan Participants**

Police Officers, Sergeants, and Command Officers of the City of Grand Rapids Retiree Health Care Plan are eligible to receive retiree health care benefits. The City covers up to 100% of retiree health care coverage up to age 65.

#### **Benefit Amount**

Defined Benefit Retiree Health covers up to 100% of retiree health care coverage up to age 65 based on an accrual schedule. As of 12/17/2008 for Police Officers and Sergeants and as of 9/15/2009 for Police Command, future retirees will pay a minimum of 20% of BLENDED active/pre-65 retiree cost per contract. This is applied before the accrual schedule shown below. Active employees with less than 10 years are no longer eligible for the Defined Benefit plan.

#### **Retiree Health Care Blended Composite Premium Sharing**

			All GR	POA					
		GRCO	GRCOA Retiring after June 30, 2013				Retiring be	fore June 3	30, 2013
		Contract	City	Blended	Premium	Contract	City	Blended	Premium
Years	Months	City%	Maximum	City%	EE%	City%	Maximum	City%	EE%
10	120	40%	80%	32.0%	68.0%	55%	80%	44.0%	56.0%
11	132	44%	80%	35.2%	64.8%	58%	80%	46.4%	53.6%
12	144	48%	80%	38.4%	61.6%	61%	80%	48.8%	51.2%
13	156	52%	80%	41.6%	58.4%	64%	80%	51.2%	48.8%
14	168	56%	80%	44.8%	55.2%	67%	80%	53.6%	46.4%
15	180	60%	80%	48.0%	52.0%	70%	80%	56.0%	44.0%
16	192	64%	80%	51.2%	48.8%	73%	80%	58.4%	41.6%
17	204	68%	80%	54.4%	45.6%	76%	80%	60.8%	39.2%
18	216	72%	80%	57.6%	42.4%	79%	80%	63.2%	36.8%
19	228	76%	80%	60.8%	39.2%	82%	80%	65.6%	34.4%
20	240	80%	80%	64.0%	36.0%	85%	80%	68.0%	32.0%
21	252	84%	80%	67.2%	32.8%	88%	80%	70.4%	29.6%
22	264	88%	80%	70.4%	29.6%	91%	80%	72.8%	27.2%
23	276	92%	80%	73.6%	26.4%	94%	80%	75.2%	24.8%
24	288	96%	80%	76.8%	23.2%	97%	80%	77.6%	22.4%
25	300	100%	80%	80.0%	20.0%	100%	80%	80.0%	20.0%
Disability F	Retirement	100%	80%	80.0%	20.0%	100%	80%	80.0%	20.0%



# City of Grand Rapids Police Retiree Health Care Plan **Defined Benefit Health Care** Summary of Benefits as of June 30, 2018

#### **Normal Retirement Eligibility**

Age 50 with 10 years.

#### **Deferred Retirement Benefits**

Deferred retiree health care is available to terminated Police Officers and Sergeants with 10 or more years of service. Deferred benefits begin at age 50.

#### **Duty/Non-Duty Death-in-Service Retirement Benefits**

Deceased member must be eligible for retirement at death. Surviving spouse pays any accrual and applicable premium sharing amount until such time as the covered person would have reached age 65.

#### **Duty/Non-Duty Disabled Retirement Benefits**

No age or service requirement. Benefits commence immediately for qualified disabled member.

#### Benefits for Spouses of Retired Employees

Spouses of retired employees are eligible to receive health care benefits as long as the retiree is eligible. Coverage continues to surviving spouses of deceased retirees until the earlier of when retiree would have reached age 65 or when the spouse reaches age 65.

#### **Medicare-Eligible Provisions**

Retirees are required to enroll in Medicare once eligible. Retiree is responsible for paying the full premium for retiree Medicare coverage offered through the City.

#### Dental/Vision Coverage

Same as Retiree Health Care Eligibility Conditions.

#### Life Insurance Coverage

The City does not provide life insurance for retirees.

#### Opt-Out

The City does not provide Opt-Out payments or payment in lieu of retiree health care coverage for retirees.

#### Other Employment and Compensation

A retiree, spouse or other dependent who has coverage from an employer who provides medical coverage should coordinate benefits, making the City's coverage secondary.

This is a brief summary of the City of Grand Rapids Retiree Health Care Plan provisions. In the event that any description contained herein differs from the actual eliqibility or benefit, the appropriate employee contract or governing document will prevail.



# City of Grand Rapids Police Retiree Health Care Plan **RHSA Members** Summary of Benefits as of June 30, 2018

#### Plan Participants

Police Officers, Sergeants, and Command Officers of the City of Grand Rapids Retiree Health Care Plan are eligible to purchase retiree health care benefits until Medicare eligible.

#### **Benefit Amount**

Defined Contribution RHSA members can purchase retiree health care coverage through the City by paying the full blended (active/pre-65 retiree) premium. For Duty Death-in-Service retirements and Duty Disability retirements, after RHSA is exhausted, the City will resume paying the premiums less any applicable premium sharing amount until such time as the covered person would have reached age 65. Defined contributions paid by the City or the member into the RHSA accounts were not included in this valuation.

#### Normal Retirement Eligibility

Age 50 with 10 years.

#### **Deferred Retirement Benefits**

Deferred retiree health care is available to terminated Police Officers and Sergeants with 10 or more years of service. Deferred benefits begin at age 50. RHSA Police Officers and Sergeant members can purchase retiree health care coverage through the City by paying the defined benefit accrual amount and employee cost share of blended (active/pre-65 retiree) premium.

Retiree health care is not available to deferred Police Command retirees whose coverage ceases during deferral period. RHSA Police Command members can purchase retiree health care coverage through the City by paying the full blended (active/pre-65 retiree) premium.

#### **Duty Death-in-Service Retirement Benefits**

Deceased member must be eligible for retirement at death. Surviving spouse benefits are immediate. Premiums shall be first paid to the City from funds in the employee's RHSA account if the surviving spouse and/or eligible dependents wish to continue to receive retiree health care. When RHSA is exhausted, the City shall resume paying the premiums, less any applicable premium sharing amount until such time as the covered person would have reached age 65.

#### Non-Duty Death-in-Service Retirement Benefits

No age or service requirement for Duty Death-in-Service. Benefits are immediate.

#### **Duty Disabled Retirement Benefits**

No age or service requirement. Benefits commence immediately for qualified disabled member. Premiums shall be first paid to the City from funds in the employee's RHSA account if the surviving spouse and/or eligible dependents wish to continue to receive retiree health care. When RHSA is exhausted, the City shall resume paying the premiums, less any applicable premium sharing amount until such time as the covered person would have reached age 65.

#### **Non-Duty Disabled Retirement Benefits**

No age or service requirement. Benefits commence immediately for qualified disabled member.



# City of Grand Rapids Police Retiree Health Care Plan **RHSA Members** Summary of Benefits as of June 30, 2018

#### Benefits for Spouses of Retired Employees

Spouses of retired employees are eligible to receive health care benefits as long as the retiree is eligible. Coverage continues to surviving spouses of deceased retirees until the earlier of when retiree would have reached age 65 or when the spouse reaches age 65.

#### **Medicare-Eligible Provisions**

Retirees are required to enroll in Medicare once eligible. Retiree is responsible for paying the full premium for retiree Medicare coverage offered through the City.

#### Dental/Vision Coverage

Same as Retiree Health Care Eligibility Conditions.

#### Life Insurance Coverage

The City does not provide life insurance for retirees.

#### Opt-Out

The City does not provide Opt-Out payments or payment in lieu of retiree health care coverage for retirees.

#### Other Employment and Compensation

A retiree, spouse or other dependent who has coverage from an employer who provides medical coverage should coordinate benefits, making the City's coverage secondary.

This is a brief summary of the City of Grand Rapids Retiree Health Care Plan provisions. In the event that any description contained herein differs from the actual eligibility or benefit, the appropriate employee contract or governing document will prevail.



# **City of Grand Rapids Police** Active Member Demographic Data as of June 30, 2018

	Years of Service to Valuation Date							
								Total
Age	0-4	5-9	10-14	15-19	20-24	25-29	30 Plus	No.
20-24	16							16
25-29	49							49
30-34	21	2	5					28
35-39	7	2	11	7				27
40-44	2		8	29	19			58
45-49			1	16	46	11		74
50-54	1			5	21	12	1	40
55-59					2	3	2	7
60-64							1	1
65 & Over								
Totals	96	4	25	57	88	26	4	300

The active member counts above include current active employees who participate in the City's defined contribution plan and are eligible to purchase retiree health benefits through the City.

While not used in the financial computations, the following group averages are computed and shown because of their general interest.

	DB	<u>RHSA</u>	<u>Total</u>
Count:	127	173	300
Age (Years):	48.1	34.3	40.2
Service (Years):	23.3	8.2	14.6



# **City of Grand Rapids Police Retired and Deferred** Member Demographic Data as of June 30, 2018

#### **Defined Benefit Police Retirees**

	Number of Retirees					
Age	Male	Female	Total			
Under 55	26	10	36			
55-59	22	10	32			
60-64	20	7	27			
65 & Over	4	3	7			
Totals	72	30	102			

The above exhibit includes only defined benefit retirees receiving health care benefits from the City. In addition, there are four RHSA retirees purchasing health care through the City.

#### **Police Vested Deferred**

	Number of Deferred Members				
Age	Male	Female	Total		
Under 40	0	0	0		
40-44	5	3	8		
45-49	13	5	18		
50 & Over	0	0	0		
Totals	18	8	26		

Only retirees and vested deferred members valued in this report are shown in the exhibits above.





#### Valuation Methods

Actuarial Cost Method. Normal cost and the allocation of benefit values between service rendered before and after the valuation date was determined using an Individual Entry-Age Normal Actuarial Cost **Method** having the following characteristics:

- the annual normal cost for each individual active member, payable from the date of employment to the date of retirement, is sufficient to accumulate the value of the member's benefit at the time of retirement;
- (ii) each annual normal cost is a constant percentage of the member's year-by-year projected covered pay.

Actuarial gains (losses), as they occur, reduce (increase) the Unfunded Actuarial Accrued Liability.

Financing of Unfunded Actuarial Accrued Liabilities. Unfunded Actuarial Accrued Liabilities (UAAL) were amortized on a level dollar basis. The UAAL were determined using the funding value of assets and actuarial accrued liability calculated as of the valuation date. The UAAL amortization payment is the amount required to fully amortize the UAAL over a 20-year period beginning with the fiscal year ending June 30, 2020. This UAAL payment reflects payments expected to be made between the valuation date and the fiscal year for which the contributions in this report have been calculated. The 20-year amortization factor used is 12.7712.

Actuarial Value of Assets. The Actuarial Value of Assets is set equal to the market value of assets. The City allocated all of the assets to the Defined Benefit portion of the plan.



### **Actuarial Assumptions**

The rationale for the retirement rates, rates of merit and seniority salary increases, rates of separation from active membership, and disability rates used in this valuation is included in the 5-year experience study for the period December 31, 2009 through December 31, 2014 issued December 7, 2015. All assumptions are expectations of future experience, not market measures.

Rates of Investment Return used in the valuation was 5.0% per year, compounded annually, net of expenses. This assumption is used to equate the value of payments due at different points in time.

The total number of active defined benefit retiree health care participants is expected to decline in the future.

The rates of Price Inflation are not specifically used for this valuation. However, a rate of price inflation of 2.00% to 2.5% would be consistent with other assumptions in this report.

The rates of salary increase used for individual members are in accordance with the following table. The assumption is used to project a member's current salary to the salaries upon which future contributions will be based.

Service at	% Incr		
Beginning of	Merit &	Base	Increase Next
Year	Seniority	(Economic)	Year
1	17.00 %	3.25 %	20.25 %
2	7.00	3.25	10.25
3	6.00	3.25	9.25
4	5.00	3.25	8.25
5	4.00	3.25	7.25
6 & Beyond	1.00	3.25	4.25



### **Actuarial Assumptions (Continued)**

The mortality tables used to project the mortality experience of Police plan members is the RP-2014 Healthy Annuitant Mortality Table projected to 2019 using the MP-2014 mortality improvement scale.

	Probability of		Future Life	
Sample	Dying Next Year		Expectancy (years)	
Ages	Men	Women	Men	Women
50	0.37 %	0.26 %	33.25	35.95
55	0.53	0.35	28.92	31.44
60	0.74	0.49	24.73	27.02
65	1.04	0.74	20.70	22.74
70	1.56	1.17	16.85	18.67
75	2.45	1.90	13.26	14.86
80	4.06	3.18	10.01	11.41

This assumption is used to measure the probabilities of each benefit payment being made after retirement.

For disabled Police retirees, RP-2014 Disabled Retirees Mortality Table projected to 2019 using the MP-2014 mortality improvement scale was used.



### **Actuarial Assumptions (Continued)**

The rates of normal retirement used to measure the probability of eligible members retiring under normal retirement conditions during the next year, were as follows:

**Percent of Eligible Active Members** 

Retirement	Retiring within Next Year		
Ages	Police		
	/		
50	25 %		
51	25		
52	25		
53	25		
54	25		
55	25		
56	25		
57	25		
58	25		
59	25		
60	50		
61	60		
62	70		
63	80		
64	90		
65	100		

A member is eligible for pension retirement after attaining age 50 and completing 10 or more years of service. Prior to the above eligibility, members who are eligible for early reduced retirement are assumed to elect this option at a 3% rate per year until eligible for normal retirement.



### **Actuarial Assumptions (Continued)**

Rates of separation from active membership are used to estimate the number of employees at each age that are expected to terminate employment before qualifying for retirement benefits. The withdrawal rates do not apply to members eligible to retire, and do not include separation on account of death or disability.

Sample rates of separation from active employment are shown below:

Police			
Sample	% of Active Members Separating		
Ages	within Next Year		
25	4.60 %		
30	3.80		
35	2.60		
40	1.80		
45	1.40		
50	1.20		
55	1.20		

Rates of disability among active members are used to estimate the incidence of member disability in future years. 75% of disabilities were assumed to be duty related and 25% of disabilities are assumed to be non-duty related.

Sample	Percent Becoming Disabled		
Ages	within Next Year		
20	0.12 %		
25	0.12		
30	0.12		
35	0.27		
40	0.59		
45	1.05		
50	1.68		
55	2.51		



# **Actuarial Assumptions (Concluded)**

*Health care trend rates* used in the valuation were as shown below:

#### Medical and

Year	<b>Prescription Drugs</b>	Dental	Vision
2019	8.50 %	3.25 %	3.25 %
2020	8.25	3.25	3.25
2021	8.00	3.25	3.25
2022	7.50	3.25	3.25
2023	7.00	3.25	3.25
2024	6.50	3.25	3.25
2025	5.75	3.25	3.25
2026	5.00	3.25	3.25
2027	4.25	3.25	3.25
2028	3.50	3.25	3.25
2029	3.25	3.25	3.25
2029 & Later	3.25	3.25	3.25



### **Miscellaneous and Technical Assumptions**

**Decrement Operation:** Disability and mortality decrements do not operate during the first

five years of service. Disability also does not operate during

retirement eligibility.

**Decrement Timing:** Decrements of all types are assumed to occur mid-year.

**Eligibility Testing:** Eligibility for benefits is determined based upon the age nearest

birthday and service nearest whole year on the date the decrement

is assumed to occur.

90% of Police males and females are assumed to be married for **Marriage Assumption:** 

purposes of death-in-service benefits. Male spouses are assumed to

be three years older than female spouses for active member

valuation purposes.

Assumed to be available for all covered employees on attainment **Medicare Coverage:** 

of age 65.

**Covered Children:** A 4% load was applied for children's coverage.

**Election Percentage:** (Police) It was assumed that 100% of retirees would choose to

receive retiree health care benefits through the City. Of those assumed to elect coverage, 75% of retirees were assumed to elect two-person coverage, if eligible. For those that elect two-person coverage, it was assumed that coverage would continue to the spouse upon death of the retiree 100% of the time, if eligible. A load of 75% was applied to deferred member liabilities to reflect

future election rates.

**Retiree Opt-Outs:** Retirees and spouses who have opted-out of coverage are assumed

to not re-enroll.

**Patient Protection and Affordable** 

**Care Act:** 

In general, changes related to the Patient Protection and Affordable

Care Act are reflected to the extent that they are already

implemented in the Plan and future changes will be reflected as they become effective. Per the City, no load of was applied to the valuation results in anticipation of future cost increases resulting from this Act. The excise tax applicable to health plan benefits over certain statutory limits is estimated at this time to be 15% of claims.

This could raise valuation results an additional 15%.

**Deferred and Retired Members:** With the exception of three RHSA retirees, all retired members

> valued in this valuation were assumed to be part of the Defined Benefit plan. Current deferred members not electing to continue coverage through the deferral period are ineligible to participate in

the Defined Benefit Retiree Health Care plan.



# **SECTION E**

### **SUPPLEMENTARY INFORMATION**

This information is presented in draft form for review by the Plan and/or City auditor. Please let us know if there are any items that the auditor changes so that we may maintain consistency with the Plan and/or City financial statements.

### **Supplementary Information**

Valuation Date

June 30, 2018

**Actuarial Cost Method** 

Individual Entry Age Normal Cost

**Amortization Method** 

Level Dollar Closed

**Remaining Amortization Periods** 

20 Years

**Asset Valuation Method** 

Market Value

**Actuarial Assumptions:** 

**Discount Rate** 

5.0% Per Year

4.25% - 20.25%

**Projected Salary Increases** Police

Valuation Health Care Cost Trend Rate Medical and Drug **Dental and Vision** 

8.5% in 2019 grading to 3.25% in 2029 3.25% in All Years



### **Supplementary Information**

### **Schedule of Funding Progress**

		Actuarial		
Actuarial	Actuarial	Accrued	Unfunded	
Valuation Value of		Liability	AAL	Funded
Date	Assets	(AAL)	(UAAL)	Ratio
June 30	(a)	(b)	(b)-(a)	(a)/(b)
2009	\$ 0	\$ 64,267,410	\$ 64,267,410	0.0 %
2011	1,885,035	55,430,263	53,545,228	3.4
2012	5,800,843	50,604,054	44,803,211	11.5
2013	10,196,070	58,270,058	48,073,988	17.5
2014	15,217,860	63,443,368	48,225,508	24.0
2015	19,770,732	57,552,601	37,781,869	34.4
2016	24,090,346	61,553,466	37,463,120	39.1
2017	28,821,618	62,311,143	33,489,525	46.3
2018	33,750,459	55,387,943	21,637,484	60.9

### **Calculation of Net OPEB Obligation**

	Fiscal					
Valuation	Year	Annual	Annual	Percentage of	Percentage of	Net
Date	Ending	Required	OPEB	ARC	<b>OPEB Costs</b>	OPEB
June 30	June 30	Contribution@	Costs*	Contributed	Contributed	Obligation*
'-						_
						\$ 3,992,301
2009	2010	\$ 4,673,548	\$ 4,630,016	135.0%	136.3%	2,313,483
2009	2011	4,673,548	4,681,323	75.2%	75.1%	3,481,252
2011	2012	5,555,697	5,508,780	97.0%	97.8%	3,603,331
2011	2013	5,527,932	5,475,873	89.0%	89.9%	4,158,844
2012	2014	4,558,360	4,493,905	107.0%	108.5%	3,775,445
2013^	2015	5,112,382	5,039,758	107.0%	108.6%	3,343,185
2014^	2016	5,103,301	5,034,039	114.4%	116.0%	2,540,058
2015	2017	4,192,648	4,135,896	103.0%	104.4%	2,356,924
2016	2018	4,207,504	4,150,626	101.0%	102.4%	2,255,938
2017	2019	3,841,765	3,782,865	N/A	N/A	N/A
2018	2020	2,648,182	N/A	N/A	N/A	N/A

<sup>\*</sup> Figures prior to FY 2012 are based on client provided information. The NOO for the fiscal year ending June 30, 2018 was calculated using an employer contribution of \$4,251,612.

The exhibits on this page show results for both the Defined Benefit group and the RHSA group combined.



<sup>^</sup> The development of the NOO has been revised and updated since the June 30, 2015 valuation.

<sup>@</sup>For the fiscal year ending June 30, 2020, this is considered an Actuarially Computed Employer Contribution instead of an Annual Required Contribution as the new GASB accounting standards do not stipulate a contribution amount.

# **A**PPENDIX

**G**LOSSARY

### **Glossary**

**Accrued Service** - The service credited under the plan which was rendered before the date of the actuarial valuation.

**Actuarial Accrued Liability** - The difference between (i) the actuarial present value of future plan benefits, and (ii) the actuarial present value of future normal cost. Sometimes referred to as "accrued liability" or "past service liability."

**Actuarial Assumptions** - Estimates of future plan experience with respect to rates of mortality, disability, turnover, retirement, rate or rates of investment income and salary increases. Decrement assumptions (rates of mortality, disability, turnover and retirement) are generally based on past experience, often modified for projected changes in conditions. Economic assumptions (salary increases and investment income) consist of an underlying rate in an inflation-free environment plus a provision for a long-term average rate of inflation.

**Actuarial Cost Method** - A mathematical budgeting procedure for allocating the dollar amount of the "actuarial present value of future plan benefits" between the actuarial present value of future normal cost and the actuarial accrued liability. Sometimes referred to as the "actuarial funding method."

**Actuarial Equivalent** - A single amount or series of amounts of equal value to another single amount or series of amounts, computed on the basis of the rate(s) of interest and mortality tables used by the plan.

**Actuarial Present Value** - The amount of funds presently required to provide a payment or series of payments in the future. It is determined by discounting the future payments at a predetermined rate of interest, taking into account the probability of payment.

**Amortization** - Paying off an interest-bearing liability by means of periodic payments of interest and principal, as opposed to paying it off with a lump sum payment.

**Actuarially Computed Employer Contribution (ACEC)** - The ACEC is the normal cost plus the portion of the unfunded actuarial accrued liability to be amortized in the current period. The ACEC is an amount that is actuarially determined in accordance with the requirements so that, if paid on an ongoing basis, it would be expected to provide sufficient resources to fund both the normal cost for each year and the amortized unfunded liability.

**Governmental Accounting Standards Board (GASB) -** GASB is the private, nonpartisan, nonprofit organization that works to create and improve the rules U.S. state and local governments follow when accounting for their finances and reporting them to the public.

**Medical Trend Rate (Health Care Inflation)** - The increase in the cost of providing health care benefits over time. Trend includes such elements as pure price inflation, changes in utilization, advances in medical technology, and cost shifting.

**Normal Cost** - The annual cost assigned, under the actuarial funding method, to current and subsequent plan years. Sometimes referred to as "current service cost." Any payment toward the unfunded actuarial accrued liability is not part of the normal cost.



### **Glossary (Concluded)**

**Other Postemployment Employee Benefits (OPEB) -** OPEB are postemployment benefits other than pensions. OPEB generally takes the form of health insurance and dental, vision, prescription drugs or other health care benefits.

**Reserve Account** - An account used to indicate that funds have been set aside for a specific purpose and is not generally available for other uses.

**Unfunded Actuarial Accrued Liability -** The difference between the actuarial accrued liability and valuation assets. Sometimes referred to as "unfunded accrued liability."

Valuation Assets - The value of current plan assets recognized for valuation purposes.

