

# Chicago Transit Authority Retiree Health Care Trust

**Actuarial Valuation as of January 1, 2022  
Including Accounting Disclosures for the  
Year Ended December 31, 2021**



*This report has been prepared at the request of the Board of Trustees to assist in administering the Fund. This valuation report may not otherwise be copied or reproduced in any form without the consent of the Board of Trustees and may only be provided to other parties in its entirety. The measurements shown in this actuarial valuation may not be applicable for other purposes.*



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August 26, 2022

Board of Trustees  
Chicago Transit Authority Retiree Health Care Trust  
Chicago, Illinois

Dear Trustees:

We are pleased to submit this valuation of the Retiree Health Care Trust as of January 1, 2022.

This report is based on information received from Group Administrators and the Retiree Health Care Trust. Segal does not audit the data provided. The accuracy and comprehensiveness of the data is the responsibility of those supplying the data. Segal, however, does review the data for reasonableness and consistency. Based on our review of the data, we have no reason to doubt the substantial accuracy of the information on which we have based this report and we have no reason to believe there are facts or circumstances that would affect the validity of these results.

The actuarial computations made are for purposes of determining compliance with certain requirements of the Illinois Pension Code, and accounting disclosures under the Governmental Accounting Standards Board Statement No. 74. Determinations for purposes other than meeting these requirements may be significantly different from the results reported here.

Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: retiree group benefits program experience differing from that anticipated by the assumptions; changes in 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); and changes in retiree group benefits program provisions or applicable law. Retiree group benefits models necessarily rely on the use of approximations and estimates, and are sensitive to changes in these approximations and estimates. Small variations in these approximations and estimates may lead to significant changes in actuarial measurements. The scope of the assignment did not include performing an analysis of the potential range of such future measurements.

To the best of our knowledge, this report is complete and accurate and in our opinion presents the information necessary to comply with Illinois Pension Code Section 22-101B(b)(3)(iii), Illinois Pension Code Section 22-101B(b)(5), and GASB Statement 74 with respect to the benefit obligations addressed. We are members of the Society of Actuaries, the American Academy of Actuaries, and other professional actuarial organizations, and collectively meet their "General Qualification Standards for Statements of Actuarial Opinions" to render the actuarial opinion contained herein.

We look forward to discussing this material with you at your next meeting.

Sincerely,

Segal



Barbara Zaveduk, EA MAAA  
Vice President and Actuary



Nicole Llorens, ASA MAAA  
Retiree Health Actuary

cc: Mr. Paul Sidrys  
Mr. Daniel A. Levin  
Ms. Colleen Batty

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# Section 1: Introduction

## Introduction

Prior to Public Act 095-0708, the Retirement Plan for CTA Employees reimbursed the CTA for healthcare benefits provided to retired members and their dependents.

Under Section 22-101B of Public Act 095-0708, the Retiree Health Care Trust was established. Since 2009, the Retiree Health Care Trust has been providing health care benefits to eligible retirees and their dependents and survivors.

Retiree health benefits are funded through a combination of active contributions, retiree self-pay contributions, proceeds from a sale of bonds, and investment return on assets.

This valuation report contains information required by the Trustees of the Retiree Health Care Trust in order to comply with various accounting and funding requirements.

The projected present value of income and payments shown in this report are contingent upon a variety of assumptions about future events. Actual experience is likely to vary from these assumptions.

The Coronavirus (COVID-19) pandemic has had a significant impact on the US economy. Our results do not include the impact of the following:

- Direct or indirect effects of COVID-19 on short-term health plan costs
- Changes in interest rates since December 31, 2021
- Changes in the value of assets since December 31, 2021
- Short-term or long-term impacts on mortality of the covered population
- The potential for federal or state fiscal relief

Each of the above factors could significantly impact these results

# Important Information about Actuarial Valuations

An actuarial valuation is an estimate of future uncertain obligations of a postretirement health plan. As such, it will never forecast the precise future stream of benefit payments. It is an estimated forecast – the actual cost of the plan will be determined by the benefits and expenses paid, not by the actuarial valuation.

In order to prepare a valuation, Segal relies on a number of input items. These include:

<b>Plan of Benefits</b>	Plan provisions define the rules that will be used to determine benefit payments, and those rules, or the interpretation of them, may change over time. Even where they appear precise, outside factors may change how they operate. For example, a plan may provide health benefits to post-65 retirees that coordinate with Medicare. If so, changes in the Medicare law or administration may change the plan's costs without any change in the terms of the plan itself. It is important for the Trustees to keep Segal informed with respect to plan provisions and administrative procedures, and to review the plan summary included in our report to confirm that Segal has correctly interpreted the plan of benefits.
<b>Participant Data</b>	An actuarial valuation for a plan is based on data provided to the actuary by the plan. Segal does not audit such data for completeness or accuracy, other than reviewing it for obvious inconsistencies compared to prior data and other information that appears unreasonable. It is not necessary to have perfect data for an actuarial valuation; the valuation is an estimated forecast, not a prediction. The uncertainties in other factors are such that even perfect data does not produce a "perfect" result. Notwithstanding the above, it is important for Segal to receive the best possible data and to be informed about any known incomplete or inaccurate data.
<b>Assets</b>	Part of the cost of a plan will be paid from existing assets – the balance will need to come from future contributions and investment income. The valuation is based on the asset values as of the valuation date, typically reported by the auditor. Some plans include assets, such as private equity holdings, real estate, or hedge funds that are not subject to valuation by reference to transactions in the marketplace. A snapshot as of a single date may not be an appropriate value for determining a single year's contribution requirement, especially in volatile markets. Plan sponsors often use an "actuarial value of assets" that differs from market value to gradually reflect year-to-year changes in the market value of assets in determining the contribution requirements.
<b>Actuarial Assumptions</b>	In preparing an actuarial valuation, Segal starts by developing a forecast of the benefits to be paid to existing plan participants for the rest of their lives and the lives of their beneficiaries. To determine the future costs of benefits, Segal collects claims, premiums, and enrollment data in order to establish a baseline cost for the valuation measurement and then develop short- and long-term health care cost trend rates to project increases in costs in future years. This forecast also requires actuarial assumptions as to the probability of death, disability, withdrawal, and retirement of each participant for each year, as well as forecasts of the plan's benefits for each of those events. The forecasted benefits are then discounted to a present value, based on an estimate of the rate of return that will be achieved on the plan's assets. All of these factors are uncertain and unknowable. Thus, there will be a range of reasonable assumptions, and the results may vary materially based on which assumptions the actuary selects within that range. That is, there is no right answer (except with hindsight). It is important for any user of an actuarial valuation to understand and accept this constraint. The actuarial model necessarily uses approximations and estimates that may lead to significant changes in our results but will have no impact on the actual cost of the plan. In addition, the actuarial assumptions may change over time, and while this can have a significant impact on the reported results, it does not mean that the previous assumptions or results were unreasonable or wrong.

Given the above, the user of Segal's actuarial valuation (or other actuarial calculations) needs to keep the following in mind:

- The actuarial valuation is prepared for use by the Trustees. It includes information for compliance with accounting standards. Segal is not responsible for the use or misuse of its report, particularly by any other party.
- An actuarial valuation is a measurement at a specific date – it is not a prediction of a plan's future financial condition. Accordingly, Segal did not perform an analysis of the potential range of financial measurements, except where otherwise noted.
- Sections of this report include actuarial results that are not rounded, but that does not imply precision.
- Critical events for a plan include, but are not limited to, decisions about changes in benefits and contributions. The basis for such decisions needs to consider many factors such as the risk of changes in plan enrollment, emerging claims experience and health care trend, not just the current valuation results.
- Segal does not provide investment, legal, accounting, or tax advice. Segal's valuation is based on our understanding of applicable guidance in these areas and of the plan's provisions, but they may be subject to alternative interpretations. The Trustees should look to their other advisors for expertise in these areas.
- While Segal maintains extensive quality assurance procedures, an actuarial valuation involves complex computer models and numerous inputs. In the event that an inaccuracy is discovered after presentation of Segal's valuation, Segal may revise that valuation or make an appropriate adjustment in the next valuation.
- Segal's report shall be deemed to be final and accepted by the Trustees upon delivery and review. Trustees should notify Segal immediately of any questions or concerns about the final content.

As Segal has no discretionary authority with respect to the management of the Plan, it is not a fiduciary in its capacity as actuaries and consultants with respect to the Plan.

# Section 2: Illinois Pension Code Requirements

## Funding Assessment

Section 22-101B (b)(3)(iii) of the Illinois Pension Code requires the Board of Trustees of the Retiree Health Care Trust to make an annual assessment of the funding levels of the Retiree Health Care Trust and to submit a report to the Auditor General at least 90 days prior to the end of the fiscal year (i.e. by October 2).

The report must demonstrate that the present value of projected benefits is exceeded by the present value of projected contributions and income plus assets in excess of the statutory reserve. If there is a shortfall, the report must describe a plan to eliminate the shortfall. As of January 1, 2022, projected income and assets exceed projected benefits, and no changes are necessary.

**TABLE A: JANUARY 1, 2022 FUNDING ASSESSMENT**

Actuarial Present Value of Projected Benefits		Actuarial Present Value of Projected Income and Assets	
Current Retirees			
Present Value of Benefits	\$398,073,079	Present Value of Active Contributions	\$58,400,631
Less: Retiree Self-Payments	<u>(125,417,607)</u>	Assets	1,164,616,949
Net Present Value	\$272,655,472	Less: Statutory Reserve	<u>(35,260,788)</u>
Future Retirees		Total Income and Assets	
Present Value of Benefits	\$589,556,872	<u>\$1,187,756,792</u>	
Less: Retiree Self-Payments	<u>(181,957,803)</u>		
Net Present Value	\$407,599,069		
Present Value of HRA Benefits	<u>66,646,615</u>	Income and Assets in Excess of Projected Benefits	<u>\$440,855,636</u>
Total Present Value of Projected Benefits	<u>\$746,901,156</u>	Income and Assets as a Percentage of Projected Benefits	<u>159.0%</u>

The following changes were made since last year's valuation:

- Assets more than expected.
- Changes in the covered population.
- Changes to per capita claims, based on updated claim experience, along with retiree contribution rates and trend rates.
- A 2021 amendment to the Illinois Pension Code (PA 102-0415) decreased the minimum active contribution rate from 3% of compensation to 1%. The Trustees lowered the active contribution rate from 3% to 1% effective January 1, 2022.

**TABLE B: EFFECT OF CHANGES ON FUNDING LEVELS**

	Actuarial Present Value of Projected Benefits	Actuarial Present Value of Projected Income and Assets	Income and Assets as a % of Projected Benefits
January 1, 2021 valuation	\$728.1 million	\$1,184.6 million	162.7%
Effect of expected changes	+7.5 million	+64.0 million	+7.0%
Effect of assets more or less than expected	--	+69.4 million	+9.4%
Effect of other gains/losses (changes in census data)	+5.7 million	-13.1 million	-3.1%
Effect of changes in per capita claims, retiree contribution rates, and trend	+24.6 million	-0.3 million	-5.7%
Effect of plan changes	-19.0 million	-116.8 million	-11.3%
January 1, 2022 valuation	\$746.9 million	\$1,187.8 million	159.0%

Measuring the funded status of the Trust requires the use of assumptions regarding future economic and demographic experience. Since future events are uncertain and unknowable, there is a range of reasonable assumptions, and the results may vary materially based on which assumptions the actuary selects within that range.

In order to illustrate the sensitivity to changes in one such assumption – the assumed rate of return on plan investments – the funding assessment is shown below if the assumed rate of return were 6.50% rather than 6.85%.

**TABLE C: SENSITIVITY: FUNDING ASSESSMENT AT 6.5% INVESTMENT RETURN**

Actuarial Present Value of Projected Benefits	Actuarial Present Value of Projected Income and Assets
Current Retirees	
Present Value of Benefits \$409,309,535	Present Value of Active Contributions \$59,806,323
Less: Retiree Self-Payments <u>(129,247,896)</u>	Assets 1,164,616,949
Net Present Value \$280,061,639	Less: Statutory Reserve <u>(35,260,788)</u>
Future Retirees	Total Income and Assets <u>\$1,189,162,484</u>
Present Value of Benefits \$626,307,823	
Less: Retiree Self-Payments <u>(193,345,448)</u>	
Net Present Value \$432,962,375	
Present Value of HRA Benefits <u>68,904,214</u>	Income and Assets in Excess of Projected Benefits <u>\$407,234,256</u>
Total Present Value of Projected Benefits <u>\$781,928,228</u>	Income and Assets as a Percentage of Projected Benefits <u>152.1%</u>

## Statutory Reserve

Section 22-101B (b)(3)(ii) of the Illinois Pension Code requires the Board of Trustees of the Retiree Health Care Trust to maintain an appropriate funding reserve level which shall not be less than the amount of incurred and unreported claims plus 12 months of expected claims and administrative expenses.

**TABLE D: CALCULATION OF JANUARY 1, 2022 STATUTORY RESERVE**

1. 12 months of expected claims and administrative expenses	\$46,779,284
2. Less: 12 months of expected retiree and dependent contributions	<u>(13,000,096)</u>
3. 12 months of net expected claims and administrative expenses	33,779,188
4. Incurred and unreported claims*	<u>1,481,600</u>
5. Total statutory reserve: (3) + (4)	<u>\$35,260,788</u>

\* *Incurred but not reported claims represents the amount of claims that were incurred during a certain time period but have not yet been paid due to the timing difference between when the services were rendered and the day the claim was actually paid.*

## 45% Test

Section 22-101B (b)(5) of the Illinois Pension Code states that the Board of Trustees shall have the discretion to provide different contribution levels for retirees, dependents and survivors based on their years of service, level of coverage or Medicare eligibility, provided that the total contribution from all retirees, dependents and survivors shall not be more than 45% of the total cost of such benefits. The term “total cost of such benefits” is the total amount expended by the retiree health benefit program in the prior plan year.

According to the preliminary December 31, 2021 balance sheet of the Chicago Transit Authority Retiree Health Care Trust, the aggregate amount of retiree, dependent, and survivor contributions for 2021 was \$12.7 million. The total cost of retiree health benefits paid from the Health Care Trust in 2020 was \$45.0 million. HRA benefits are excluded from the total cost of benefits; if they were included the percentage would be lower. Dental benefits and contributions are excluded from these totals, since the Fund does not provide dental benefits, but only serves as a “pass-through” for dental premiums.

Aggregate retiree, dependent, and survivor contributions in 2021 were less than 45% of the total cost of benefits in 2020.

**TABLE E: 45% TEST (RETIREE CONTRIBUTIONS VERSUS COST OF BENEFITS)**

1. Aggregate retiree, dependent, and survivor contributions in 2021	\$12,691,829
2. Total cost of benefits in 2020	\$45,039,655
<b>3. Retiree self-pay as a percentage of total cost of benefits: (1) / (2)</b>	<b><u>28.2%</u></b>

# Section 3: GASB 74 Disclosures

## Accounting Requirements

The Governmental Accounting Standards Board (GASB) issued a new accounting standard, Statement Number 74 – *Financial Reporting for Postemployment Benefit Plans Other Than Pension Plans*, which applies for fiscal years beginning after June 15, 2016. Under this statement, all state and local government entities that provide other post-employment benefits (OPEB) are required to report the cost of these benefits on their financial statements. The accounting standard supplements cash accounting, under which the expense for postemployment benefits is equal to benefit and administrative costs paid on behalf of retirees and their dependents (i.e., a pay-as-you-go basis).

The statements cover postemployment benefits of health, prescription drug, dental, vision and life insurance coverage for retirees; long-term care coverage, life insurance and death benefits that are not offered as part of a pension plan; and long-term disability insurance for employees. The benefits valued in this report are limited to those described in Section 4, which are based on those provided under the terms of the substantive plan in effect at the time of the valuation and on the pattern of sharing costs between the plan and plan members. The projection of benefits is not limited to legal or contractual limits on funding unless those limits clearly translate into benefit limits on the substantive plan being valued.

The total cost of providing postemployment benefits is projected, taking into account assumptions about demographics, turnover, mortality, disability, retirement, health care trends, and other actuarial assumptions. These assumptions are summarized in Section 4. This amount is then discounted to determine the Total OPEB Liability. The Net OPEB Liability (NOL) is the difference between the Total OPEB Liability and market value of assets in the Plan, called the Plan Fiduciary Net Position.

The calculation of an accounting obligation does not, in and of itself, imply that there is any legal liability to provide the benefits valued, nor is there any implication that the Plan Sponsor is required to implement a funding policy to satisfy the projected expense.

Actuarial calculations reflect a long-term perspective, and the methods and assumptions use techniques designed to reduce short term volatility in accrued liabilities and the actuarial value of assets, if any.

Actuarial valuations involve estimates of the value of reported amounts and assumptions about the probability of events far into the future, and the actuarially determined amounts are subject to continual revision as actual results are compared to past expectations and new estimates are made about the future.

# Net OPEB Liability

## CHART 1: NET OPEB LIABILITY

	December 31, 2021
Total OPEB Liability	\$627,174,222
Plan Fiduciary Net Position	<u>1,164,616,949</u>
Net OPEB Liability	(\$537,442,727)
Plan Fiduciary Net Position as a percentage of the Total OPEB Liability	185.69%

The Net OPEB Liability was measured as of December 31, 2021. Plan Fiduciary Net Position (plan assets) was valued as of the measurement date and the Total OPEB Liability was determined from the actuarial valuation as of December 31, 2021.

*Actuarial assumptions.* The Total OPEB Liability was measured by an actuarial valuation as December 31, 2021 used the following actuarial assumptions, applied to all periods included in the measurement, unless otherwise specified:

Salary increases	11% for 1 year of service, 12% for 2 years of service, 16% for 3 years of service, 8% for 4 years of service, and 3.5% thereafter (includes inflation of 3.10%)
Discount Rate	6.85%
Healthcare costs trend rates	
Non-Medicare	7.25% graded down to 4.50% over 11 years
Medicare	13.00% in the first year, then 6.50% graded down to 4.50% over 8 years
Mortality Rates	
Healthy	SOA Public 2010 General Healthy Retiree Headcount-Weighted Below Median Mortality Tables, multiplied by 113% for females, with generational projection using Scale MP-2018
Disabled	SOA Public 2010 Non-Safety Disabled Retiree Headcount-Weighted Mortality Tables, with generational projection using Scale MP-2018

The actuarial assumptions used in the December 31, 2021 valuation were based on the results of actuarial experience studies completed in 2019.

Detailed information regarding all actuarial assumptions can be found in Section 4.

## Development of Long-Term Rate

The long-term expected rate of return on OPEB plan investments was determined using a building block method in which best estimate ranges of expected future rates of return (expected returns, net of investment expense and inflation) are developed for each major asset class. These returns 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 of 2.30%. The target allocation and projected arithmetic real rates of return for each major asset class are summarized below:

**CHART 2: DEVELOPMENT OF LONG-TERM RATE**

Asset Class	Target Allocation	Long-Term Expected Real Rate of Return
U.S Fixed Income	22%	0.40%
Emerging Markets Debt	3%	2.80%
U.S. Equity	38%	6.40%
Non-U.S. Equity	8%	6.80%
Emerging Markets Equity	4%	8.50%
Other	25%	5.18%

## Discount Rate

The discount rate used to measure the Total OPEB Liability was 6.85%. The projection of cash flows used to determine the discount rate assumed that active members will continue to contribute 1% of payroll. Based on those assumptions the Plan's fiduciary net position was projected to be available to make all projected future net benefit payments for 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 the Total OPEB Liability.

The following presents the Net OPEB Liability, as well as what the Net OPEB Liability would be if it were calculated using a discount rate that is 1-percentage-point lower (5.85%) or 1-percentage-point higher (7.85%) than the current rate. Also shown is the Net OPEB Liability as if it were calculated using healthcare cost trend rates that were 1 percentage point lower or 1 percentage point higher than the current healthcare trend rates.

### CHART 3: SENSITIVITY

	<b>1% Decrease in Discount Rate (5.85%)</b>	<b>Current Discount Rate (6.85%)</b>	<b>1% Increase in Discount Rate (7.85%)</b>
Net OPEB Liability (Asset)	(\$470,624,840)	(\$537,442,727)	(\$594,075,924)
	<b>1% Decrease in Trend Rates (6.25% decreasing to 3.50%)</b>	<b>Current Trend Rates (7.25%, decreasing to 4.50%)</b>	<b>1% Increase in Trend Rates (8.25%, decreasing to 5.50%)</b>
Net OPEB Liability (Asset)	(\$594,151,448)	(\$537,442,727)	(\$469,781,795)

## Schedules of Required Supplementary Information

CHART 4: SCHEDULE OF CHANGE IN NET OPEB LIABILITY

	2017	2018	2019	2020	2021
<b>Total OPEB Liability</b>					
Service cost	\$17,056,064	\$16,248,895	\$14,467,096	\$14,679,935	\$14,494,046
Interest	49,442,226	48,344,035	42,238,580	43,520,614	41,293,312
Change of benefit terms	(231,265)	0	0	0	(6,836,572)
Differences between expected & actual experience	(15,636,958)	(4,438,778)	5,306,214*	(22,326,324)	(15,467,426)
Changes of assumptions	(35,532,918)	(101,361,429)	(13,417,865)	(38,729,375)	19,971,491
Benefit payments net of retiree contributions	(28,370,831)	(31,586,009)	(30,450,777)	(29,731,301)	(29,217,319)
<b>Net change in Total OPEB Liability</b>	<b>(13,273,682)</b>	<b>(72,793,286)</b>	<b>18,143,247</b>	<b>(32,586,451)</b>	<b>24,237,532</b>
<b>Total OPEB Liability – beginning</b>	<b><u>703,446,862</u></b>	<b><u>690,173,180</u></b>	<b><u>617,379,894</u></b>	<b><u>635,523,141</u></b>	<b><u>602,936,690</u></b>
<b>(a) Total OPEB Liability – ending</b>	<b><u>690,173,180</u></b>	<b><u>617,379,894</u></b>	<b><u>635,523,141</u></b>	<b><u>602,936,690</u></b>	<b><u>627,174,222</u></b>
<b>Plan Fiduciary Net Position</b>					
Contributions – employer	\$0	\$0	\$0	\$0	\$0
Contributions – employee	21,205,666	23,300,031	24,039,187	23,370,519	23,285,858
Net investment income	111,133,146	(35,292,431)	138,082,960	114,601,568	130,551,028
Benefit payments net of retiree contributions	(28,370,831)	(31,586,009)	(30,450,777)	(29,731,301)	(29,217,319)
Administrative expense	(1,718,881)	(2,458,360)	(2,910,387)	(2,027,844)	(1,762,012)
<b>Net change in Plan Fiduciary Net Position</b>	<b>102,249,100</b>	<b>(46,036,769)</b>	<b>128,760,982</b>	<b>106,212,942</b>	<b>122,857,554</b>
<b>Plan Fiduciary Net Position – beginning</b>	<b><u>750,573,139</u></b>	<b><u>852,822,239</u></b>	<b><u>806,785,470</u></b>	<b><u>935,546,452</u></b>	<b><u>1,041,759,394</u></b>
<b>(b) Plan Fiduciary Net Position – ending</b>	<b><u>852,822,239</u></b>	<b><u>806,785,470</u></b>	<b><u>935,546,452</u></b>	<b><u>1,041,759,394</u></b>	<b><u>1,164,616,949</u></b>
<b>(c) Net OPEB Liability – ending (a) – (b)</b>	<b><u>(162,649,059)</u></b>	<b><u>(189,405,576)</u></b>	<b><u>(300,023,311)</u></b>	<b><u>(438,822,704)</u></b>	<b><u>(537,442,727)</u></b>
Plan Fiduciary Net Position as a percentage of Total OPEB Liability: (b)/(a)	123.57%	130.68%	147.21%	172.78%	185.69%
Covered employee payroll	684,200,773	671,698,469	761,433,460	737,513,496	737,577,463
Plan Net OPEB Liability as percentage of covered employee payroll	(23.77%)	(28.20%)	(39.40%)	(59.50%)	(72.87%)

**Notes to Schedule:**

The above information is required beginning in 2017. A full 10-year trend will be compiled in future years.

Benefit changes:

- 2017: On April 27, 2017, the Trustees changed eligibility requirements for retirements on or after January 1, 2018 to be (1) separate from service at or after age 55 with at least 20 years of eligibility service, or (2) separate with at least 10 years of service and are at least age 65 at the time they enroll.
- 2017: Effective January 1, 2018, the HRA program was established.
- 2018: None.
- 2019: None.
- 2020: None.
- 2021: A 2021 amendment to the Illinois Pension Code (PA 102-0415) decreased the minimum active contribution rate from 3% of compensation to 1%. The Trustees lowered the active contribution rate from 3% to 1% effective January 1, 2022.

Changes of assumptions:

- 2017: Valuation-year per capita health costs, retiree contribution rates, and future assumed trend rates on such costs and rates were updated.
- 2018: Valuation-year per capita health costs, retiree contribution rates, and future assumed trend rates on such costs and rates were updated. Assumed retirement, turnover, disability, and mortality rates and salary scale were modified. The percent of future retirees assumed to enroll in health care was decreased. The percent of future retirees assumed to enroll in the PPO versus HMO plans was changed to 85% PPO and 15% HMO for non-Medicare retirees and 95% PPO and 5% HMO for Medicare retirees. The percentage of future disabled retirees assumed to be on Medicare was decreased to 40% in the first two years of disability and 70% thereafter. The discount rate was lowered from 7.00% to 6.85%.
- 2019: Valuation-year retiree contribution rates remained unchanged rather than increasing as projected. Valuation-year per capita health costs and future assumed trend rates on such costs and rates were updated.
- 2020: Valuation-year per capita health costs, retiree contribution rates, and future assumed trend rates on such costs and rates were updated.
- 2021: Valuation-year per capita health costs, retiree contribution rates, and future assumed trend rates on such costs and rates were updated.

## CHART 5: SCHEDULE OF INVESTMENT RETURNS

Year	Annual Money Weighted Rate of Return, Net of Investment Expense
2021	12.6%
2020	12.3%
2019	17.2%
2018	-4.2%
2017	14.9%
2016	6.2%
2015	-0.6%
2014	3.4%
2013	14.7%
2012	12.8%

# Section 4: Supporting Information

## EXHIBIT 1 - SUMMARY OF PARTICIPANT DATA

	January 1, 2021	January 1, 2022
<b>Retirees and Disableds*</b>		
• Number of retirees and disableds	5,741	5,599
• Average age of retirees and disableds	72.2	72.3
• Number of spouses (not including dependent children)	1,793	1,765
• Average age of spouses	69.0	69.1
<b>Surviving Spouses</b>		
• Number	656	653
• Average age	79.6	79.8
<b>Active Employees</b> (including those not yet accruing service under the Retirement Plan)		
• Number	10,172	9,823
• Average age	46.1	46.1
• Average years of service for contribution schedule	11.0	10.9
• Average salary	\$76,406	\$78,730
<b>Inactive Vested Participants</b>		
• Number	113	108
• Average age	58.4	58.8
<b>Separated Participants Only Eligible for HRA at Age 65</b>		
• Number age 65 and older (enrolled or eligible to enroll)	1,424	1,558
• Average age	70.6	70.8
• Number under age 65	7,581	8,468
• Average age	45.5	45.6

\* Excludes retirees receiving only dental benefits

## EXHIBIT 2 – SUMMARY OF INCOME AND EXPENSES

	Year Ended December 31, 2020	Year Ended December 31, 2021
<b>Additions</b>		
Employee contributions	\$23,370,519	\$23,285,858
Retiree contributions	16,540,407	15,122,818
Investment income (net of investment expenses)	<u>114,601,568</u>	<u>130,551,028</u>
<b>Total Additions</b>	<b>\$154,512,495</b>	<b>\$168,959,704</b>
<b>Deductions</b>		
Benefit payments (net of rebates)	\$46,271,708	\$44,340,137
Administrative expenses	<u>2,027,844</u>	<u>1,762,012</u>
<b>Total Deductions</b>	<b>\$48,299,552</b>	<b>\$46,102,150</b>
<b>Net increase (decrease)</b>	<b>106,212,942</b>	<b>122,857,554</b>
<b>Net assets available for benefits</b>		
Beginning of year	\$935,546,452	\$1,041,759,394
End of year	\$1,041,759,394	\$1,164,616,949

## EXHIBIT 3 – STATEMENT OF ACTUARIAL ASSUMPTIONS/METHODS

<b>Valuation Date</b>	January 1, 2022																																																							
<b>Data</b>	Claims experience and premiums were provided by the Retiree Health Care Trust and by vendors hired by the Trust. Detailed census data was provided by Group Administrators and the Trust.																																																							
<b>Net Investment Return</b>	6.85%																																																							
<b>Salary Scale</b>	<table border="1"> <thead> <tr> <th>Years of Service</th> <th>Salary Increase</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>11.0%</td> </tr> <tr> <td>2</td> <td>12.0%</td> </tr> <tr> <td>3</td> <td>16.0%</td> </tr> <tr> <td>4</td> <td>8.0%</td> </tr> <tr> <td>5+</td> <td>3.5%</td> </tr> </tbody> </table>	Years of Service	Salary Increase	1	11.0%	2	12.0%	3	16.0%	4	8.0%	5+	3.5%																																											
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<b>Decrements Prior to Retirement</b>	<table border="1"> <thead> <tr> <th colspan="5">Rates (%)</th> </tr> <tr> <th colspan="5">Mortality<sup>1</sup></th> </tr> <tr> <th>Age</th> <th>Male</th> <th>Female</th> <th>Withdrawal<sup>2</sup></th> <th>Disability</th> </tr> </thead> <tbody> <tr> <td>20</td> <td>0.04</td> <td>0.01</td> <td>9.50</td> <td>0.10</td> </tr> <tr> <td>25</td> <td>0.05</td> <td>0.02</td> <td>8.50</td> <td>0.10</td> </tr> <tr> <td>30</td> <td>0.07</td> <td>0.03</td> <td>7.00</td> <td>0.10</td> </tr> <tr> <td>35</td> <td>0.10</td> <td>0.04</td> <td>4.90</td> <td>0.25</td> </tr> <tr> <td>40</td> <td>0.12</td> <td>0.06</td> <td>3.80</td> <td>0.50</td> </tr> <tr> <td>45</td> <td>0.15</td> <td>0.07</td> <td>3.20</td> <td>0.73</td> </tr> <tr> <td>50</td> <td>0.21</td> <td>0.11</td> <td>2.70</td> <td>0.85</td> </tr> <tr> <td>55</td> <td>0.32</td> <td>0.17</td> <td>0.00</td> <td>1.15</td> </tr> </tbody> </table>	Rates (%)					Mortality <sup>1</sup>					Age	Male	Female	Withdrawal <sup>2</sup>	Disability	20	0.04	0.01	9.50	0.10	25	0.05	0.02	8.50	0.10	30	0.07	0.03	7.00	0.10	35	0.10	0.04	4.90	0.25	40	0.12	0.06	3.80	0.50	45	0.15	0.07	3.20	0.73	50	0.21	0.11	2.70	0.85	55	0.32	0.17	0.00	1.15
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<sup>1</sup> Tables used are SOA Public 2010 General Employee Headcount-weighted Below Median Mortality Tables, with generational projection using MP-2018. Rates are shown projected to ages as of the valuation date.

<sup>2</sup> 15% assumed in first year for non-full-time permanent employees.

<b>Post-Retirement Mortality Rates</b>	<p><i>Healthy:</i> SOA Public 2010 General Healthy Retiree Headcount-Weighted Below Median Mortality Tables, multiplied by 113% for females, with generational projection using Scale MP-2018</p> <p><i>Disabled:</i> SOA Public 2010 Non-Safety Disabled Retiree Headcount-Weighted Mortality Tables, with generational projection using Scale MP-2018</p>																																															
<b>Active Retirement Rates</b>	<p>After meeting Pension eligibility, the following rates apply:</p> <table border="1" data-bbox="677 355 1670 1155"> <thead> <tr> <th data-bbox="677 355 804 388" rowspan="2">Age</th> <th data-bbox="804 355 1269 388">25+years of service and hired &lt;1/18/08</th> <th data-bbox="1269 355 1670 388">&lt;25 years of service OR Age &lt;64 and hired 1/18/08+</th> </tr> <tr> <th data-bbox="804 388 1269 421">OR Age 64+ with 25+ years of service and hired 1/18/08+</th> <th data-bbox="1269 388 1670 421"></th> </tr> </thead> <tbody> <tr> <td data-bbox="677 551 804 584">45-49</td><td data-bbox="804 551 1269 584">20.0</td><td data-bbox="1269 551 1670 584">N/A</td></tr> <tr> <td data-bbox="677 600 804 633">50-54</td><td data-bbox="804 600 1269 633">20.0</td><td data-bbox="1269 600 1670 633">N/A</td></tr> <tr> <td data-bbox="677 649 804 682">55-56</td><td data-bbox="804 649 1269 682">20.0</td><td data-bbox="1269 649 1670 682">2.0</td></tr> <tr> <td data-bbox="677 698 804 731">57</td><td data-bbox="804 698 1269 731">20.0</td><td data-bbox="1269 698 1670 731">2.5</td></tr> <tr> <td data-bbox="677 747 804 780">58</td><td data-bbox="804 747 1269 780">20.0</td><td data-bbox="1269 747 1670 780">3.0</td></tr> <tr> <td data-bbox="677 796 804 829">59</td><td data-bbox="804 796 1269 829">25.0</td><td data-bbox="1269 796 1670 829">3.5</td></tr> <tr> <td data-bbox="677 845 804 878">60</td><td data-bbox="804 845 1269 878">25.0</td><td data-bbox="1269 845 1670 878">4.0</td></tr> <tr> <td data-bbox="677 894 804 926">61</td><td data-bbox="804 894 1269 926">35.0</td><td data-bbox="1269 894 1670 926">5.0</td></tr> <tr> <td data-bbox="677 943 804 975">62-63</td><td data-bbox="804 943 1269 975">35.0</td><td data-bbox="1269 943 1670 975">15.0</td></tr> <tr> <td data-bbox="677 992 804 1024">64</td><td data-bbox="804 992 1269 1024">35.0</td><td data-bbox="1269 992 1670 1024">20.0</td></tr> <tr> <td data-bbox="677 1041 804 1073">65</td><td data-bbox="804 1041 1269 1073">40.0</td><td data-bbox="1269 1041 1670 1073">30.0</td></tr> <tr> <td data-bbox="677 1090 804 1122">66-69</td><td data-bbox="804 1090 1269 1122">30.0</td><td data-bbox="1269 1090 1670 1122">30.0</td></tr> <tr> <td data-bbox="677 1139 804 1171">70-74</td><td data-bbox="804 1139 1269 1171">30.0</td><td data-bbox="1269 1139 1670 1171">30.0</td></tr> <tr> <td data-bbox="677 1188 804 1220">75+</td><td data-bbox="804 1188 1269 1220">100.0</td><td data-bbox="1269 1188 1670 1220">100.0</td></tr> </tbody> </table> <p><u>Pension eligibility</u></p> <p>Normal Retirement: Age 65</p> <p>Early Retirement if hired before 1/18/08: Age 55 with 3 years of service or any age with 25 years of service</p> <p>Early Retirement if hired on or after 1/18/08: Age 55 with 10 years of service or age 64 with 25 years of service</p>	Age	25+years of service and hired <1/18/08	<25 years of service OR Age <64 and hired 1/18/08+	OR Age 64+ with 25+ years of service and hired 1/18/08+		45-49	20.0	N/A	50-54	20.0	N/A	55-56	20.0	2.0	57	20.0	2.5	58	20.0	3.0	59	25.0	3.5	60	25.0	4.0	61	35.0	5.0	62-63	35.0	15.0	64	35.0	20.0	65	40.0	30.0	66-69	30.0	30.0	70-74	30.0	30.0	75+	100.0	100.0
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<b>Participation</b>	<p>The percent of those eligible for coverage who are assumed to decline is equal to 100% of the percent of full cost paid by the retiree (based on contribution service at retirement). An illustration of the resulting rates of retiree PPO enrollment for January 1, 2022 are:</p> <table border="1" data-bbox="844 261 1605 636"> <thead> <tr> <th data-bbox="844 261 1013 310" rowspan="2">Service</th><th colspan="2" data-bbox="1013 261 1309 310">Rate (%)</th></tr> <tr> <th data-bbox="1119 310 1309 342">Pre-Medicare</th><th data-bbox="1415 310 1605 342">Medicare</th></tr> </thead> <tbody> <tr> <td data-bbox="908 342 1013 375">35+</td><td data-bbox="1182 342 1309 375">96.4</td><td data-bbox="1436 342 1605 375">95.2</td></tr> <tr> <td data-bbox="908 375 1013 408">30-34</td><td data-bbox="1182 375 1309 408">94.4</td><td data-bbox="1436 375 1605 408">90.6</td></tr> <tr> <td data-bbox="908 408 1013 440">25-29</td><td data-bbox="1182 408 1309 440">85.5</td><td data-bbox="1436 408 1605 440">76.8</td></tr> <tr> <td data-bbox="908 440 1013 473">20-24</td><td data-bbox="1182 440 1309 473">66.1</td><td data-bbox="1436 440 1605 473">55.6</td></tr> <tr> <td data-bbox="908 473 1013 505">15-19</td><td data-bbox="1182 473 1309 505">43.4</td><td data-bbox="1436 473 1605 505">26.1</td></tr> <tr> <td data-bbox="908 505 1013 538">10-14</td><td data-bbox="1182 505 1309 538">35.9</td><td data-bbox="1436 505 1605 538">18.5</td></tr> <tr> <td data-bbox="908 538 1013 571">&lt;10</td><td data-bbox="1182 538 1309 571">24.6</td><td data-bbox="1436 538 1605 571">8.4</td></tr> </tbody> </table>	Service	Rate (%)		Pre-Medicare	Medicare	35+	96.4	95.2	30-34	94.4	90.6	25-29	85.5	76.8	20-24	66.1	55.6	15-19	43.4	26.1	10-14	35.9	18.5	<10	24.6	8.4						
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<b>Dependents</b>	<p>75% of future retirees are assumed to be married, with husbands assumed to be three years older than their wives. The percent of spouses assumed to decline coverage is equal to 100% of the percent of full cost paid by the spouse (based on retiree's contribution service at retirement). An illustration of the resulting rates of spouse PPO enrollment for January 1, 2022 are:</p> <table border="1" data-bbox="844 783 1605 1259"> <thead> <tr> <th data-bbox="844 783 1013 832" rowspan="2">Service</th><th colspan="2" data-bbox="1013 783 1605 832">Rate (%)</th></tr> <tr> <th data-bbox="1119 832 1309 864">Pre-Medicare</th><th data-bbox="1415 832 1605 864">Medicare</th></tr> </thead> <tbody> <tr> <td data-bbox="908 864 1013 897">45+</td><td data-bbox="1182 864 1309 897">96.4</td><td data-bbox="1436 864 1605 897">95.2</td></tr> <tr> <td data-bbox="908 897 1013 930">40-44</td><td data-bbox="1182 897 1309 930">88.0</td><td data-bbox="1436 897 1605 930">83.3</td></tr> <tr> <td data-bbox="908 930 1013 962">35-39</td><td data-bbox="1182 930 1309 962">75.2</td><td data-bbox="1436 930 1605 962">65.1</td></tr> <tr> <td data-bbox="908 962 1013 995">30-34</td><td data-bbox="1182 962 1309 995">65.9</td><td data-bbox="1436 962 1605 995">51.8</td></tr> <tr> <td data-bbox="908 995 1013 1028">25-29</td><td data-bbox="1182 995 1309 1028">53.8</td><td data-bbox="1436 995 1605 1028">37.0</td></tr> <tr> <td data-bbox="908 1028 1013 1060">20-24</td><td data-bbox="1182 1028 1309 1060">47.2</td><td data-bbox="1436 1028 1605 1060">31.5</td></tr> <tr> <td data-bbox="908 1060 1013 1093">15-19</td><td data-bbox="1182 1060 1309 1093">43.4</td><td data-bbox="1436 1060 1605 1093">26.1</td></tr> <tr> <td data-bbox="908 1093 1013 1126">10-14</td><td data-bbox="1182 1093 1309 1126">35.9</td><td data-bbox="1436 1093 1605 1126">18.5</td></tr> <tr> <td data-bbox="908 1126 1013 1158">&lt;10</td><td data-bbox="1182 1126 1309 1158">24.6</td><td data-bbox="1436 1126 1605 1158">8.4</td></tr> </tbody> </table>	Service	Rate (%)		Pre-Medicare	Medicare	45+	96.4	95.2	40-44	88.0	83.3	35-39	75.2	65.1	30-34	65.9	51.8	25-29	53.8	37.0	20-24	47.2	31.5	15-19	43.4	26.1	10-14	35.9	18.5	<10	24.6	8.4
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<b>Plan Election</b>	85% of future pre-Medicare retirees are assumed to elect PPO coverage, and the remaining 15% elect HMO coverage. Once eligible for Medicare, 95% of future retirees are assumed to elect PPO coverage, and the remaining 5% elect HMO coverage. Upon retirement, 40% of pre-65 disabled retirees are assumed to be eligible for Medicare, increasing to 70% eligible for Medicare two years after retirement. All pre-Medicare disabled retirees are assumed to elect BCBS PPO coverage.
<b>Missing Participant Data</b>	A missing census item for a given participant was assumed to equal the average value of that item over all other participants of the same status for whom the item is known. For those hired in 2021, salaries were annualized. For employees whose 2021 earnings were less than \$20,000, an annual rate of \$25,000 was assumed. Those currently in part-time status are assumed to attain full time permanent status at a salary of \$43,000.
<b>Service for Eligibility</b>	Future accruals assumed to equal one credit per year.
<b>Service for Contribution Schedule</b>	Future accruals assumed to be equal to an average of 2020 and 2021 hours divided by 2,080 for non-salaried actives. If hired in 2020, only 2021 hours are used. If hired in 2021 or currently part-time, participants earn one credit in each future year. Salaried actives earn one year of service each year.

<b>Per Capita Cost Development: <i>HMO Illinois</i></b>	Based on January 1, 2022 premium rates. Actuarial factors were then applied to estimate individual retiree and spouse costs by age and by gender.
<b>Per Capita Cost Development: <i>PPO Medical</i></b>	<p>Per capita claims costs were based on actual retiree paid claim experience for the period March 1, 2018 through February 28, 2021, including PPO fees. Claims were adjusted as follows:</p> <ul style="list-style-type: none"> <li>total adjusted claims were divided by the number of adult members to yield a per capita claim; and</li> <li>the per capita claim was trended to the midpoint of the valuation year at assumed trend rates.</li> </ul> <p>Per capita claims for each plan year were then combined by taking a weighted average. The weights used in this average account for a number of factors including each plan year's volatility of claims experience and distance to the valuation year. Actuarial factors were then applied to the weighted average cost to estimate individual retiree and spouse costs by age and by gender.</p>
<b>Per Capita Cost Development: <i>PPO Prescription Drugs</i></b>	<p>Per capita claims costs were based on actual retiree paid claim experience for the period March 1, 2018 through February 28, 2021. Claims were then adjusted as follows:</p> <ul style="list-style-type: none"> <li>total adjusted claims were divided by the number of adult members to yield a per capita claim;</li> <li>the per capita claim was trended to the midpoint of the valuation year at assumed trend rates; and</li> <li>the per-capita prescription drug claims were decreased for estimated prescription drug rebates.</li> </ul> <p>Per capita claims for each plan year were then combined by taking a weighted average. The weights used in this average account for a number of factors including each plan year's volatility of claims experience and distance to the valuation year. Actuarial factors were then applied to the weighted average cost to estimate individual retiree and spouse costs by age and by gender.</p>
<b>Per Capita Cost Development: <i>MAPD PPO</i></b>	Based on January 1, 2022 premium rates for Humana Medicare Advantage Prescription Drug (MAPD) PPO plan. Actuarial factors were then applied to estimate individual retiree and spouse costs by age and by gender.
<b>Per Capita Cost Development: <i>MAPD HMO</i></b>	Based on January 1, 2022 premium rates for Humana Medicare Advantage Prescription Drug (MAPD) HMO plan. Actuarial factors were then applied to estimate individual retiree and spouse costs by age and by gender.
<b>Per Capita Cost Development: <i>Administrative Expenses</i></b>	Administrative expenses were based on experience furnished by the Plan Administrator for the period January 1, 2017 through December 31, 2020. Expenses were separated by plan year and trended to the valuation date. Expenses were divided by the number of adult members to yield a per participant cost.

**Per Capita Health Costs**

Medical and prescription drug claims costs for the plan year beginning January 1, 2022 are shown in the table below for retirees at selected ages. These costs are net of deductibles and other benefit plan cost sharing provisions.

Age	PPO Medical				PPO Prescription Drug				HMO Illinois			
	Retiree		Spouse		Retiree		Spouse		Retiree		Spouse	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
55	\$12,183	\$12,579	\$9,589	\$10,860	\$2,960	\$3,056	\$2,330	\$2,639	\$9,574	\$9,885	\$7,535	\$8,535
60	14,469	13,558	12,836	12,596	3,515	3,294	3,119	3,060	11,370	10,655	10,087	9,898
64	16,600	14,383	16,205	14,177	4,033	3,494	3,937	3,444	13,045	11,303	12,734	11,141
MAPD PPO												
Age	Retiree		Spouse		Retiree		Spouse		Retiree		Spouse	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
	55	\$1,996	\$1,996	\$1,996	\$1,996	\$1,016	\$1,016	\$1,016	\$1,016	\$1,016	\$1,016	\$1,016
60	1,996	1,996	1,996	1,996	1,016	1,016	1,016	1,016	1,016	1,016	1,016	1,016
64	1,996	1,996	1,996	1,996	1,016	1,016	1,016	1,016	1,016	1,016	1,016	1,016
65	2,101	1,786	2,101	1,786	1,069	909	1,069	909	1,069	909	1,069	909
70	2,435	1,925	2,435	1,925	1,239	979	1,239	979	1,239	979	1,239	979
75	2,624	2,072	2,624	2,072	1,335	1,054	1,335	1,054	1,335	1,054	1,335	1,054

**Administrative Expenses**

Administrative expenses of \$352 per participant were added to projected incurred claims costs.

<b>Health Care Cost Trend Rates</b>	Health care trend measures the anticipated overall rate at which health plan costs are expected to increase in future years. The rates shown below are “net” and are applied to the net per capita costs shown above.			
Year Ending December 31,	HMO & PPO	MAPD	Fees and Administrative Expenses	
2022	7.25%	13.00%*	3.00%	
2023	7.00%	6.50%	3.00%	
2024	6.75%	6.25%	3.00%	
2025	6.50%	6.00%	3.00%	
2026	6.25%	5.75%	3.00%	
2027	6.00%	5.50%	3.00%	
2028	5.75%	5.25%	3.00%	
2029	5.50%	5.00%	3.00%	
2030	5.25%	4.75%	3.00%	
2031	5.00%	4.50%	3.00%	
2032	4.75%	4.50%	3.00%	
2033 & later	4.50%	4.50%	3.00%	

\* Accounts for the Humana MAPD renewals and removal of the COVID-19 Premium Credit in 2022.

**Retiree Contribution Increase Rate**	Retiree and dependent contribution rates were assumed to increase at medical and prescription drug trend.			
**Active Contributions**	1.00% of pay in all future years.			
**Plan Design**	Development of plan liabilities was based on the plan of benefits in effect as described in a subsequent appendix. Cost of dental coverage was not included in this valuation since retirees and dependents pay the full cost for this coverage.			
**Lifetime Maximum Benefits**	No information was available regarding accumulations toward lifetime maximum benefits and no such accumulations were assumed.			

<b>Health Care Reform</b>	This is a retiree-only plan, and most aspects of the Patient Protection and Affordable Care Act (PPACA) and the Health Care and Education Reconciliation Act (HCERA) of 2010 do not apply. Any future aspects that do apply are assumed to have a <i>de minimis</i> effect.
<b>Models</b>	<p>Segal accounting results are based on proprietary actuarial modeling software. The accounting valuation models generate a comprehensive set of liability and cost calculations that are presented to meet accounting standards and client requirements. Our Actuarial Technology and Systems unit, comprising both actuaries and programmers, is responsible for the initial development and maintenance of these models. The models have a modular structure that allows for a high degree of accuracy, flexibility and user control. The client team programs the assumptions and the plan provisions, validates the models, and reviews test lives and results, under the supervision of the responsible actuary.</p> <p>The results are also based on models for cost projections developed by Segal actuaries and programmers. The client team customizes and validates the models, and reviews the results, under the supervision of the responsible actuary.</p> <p>Our claims costs assumptions are based on proprietary modeling software as well as models that were developed by others. These models generate per capita claims cost calculations that are used in our valuation software. Our Health Technical Services Unit, comprised of actuaries and programmers, is responsible for the initial development and maintenance of our health models. They are also responsible for testing models that we purchase from other vendors for reasonableness. The client team inputs the paid claims, enrollments, plan provisions and assumptions into these models and reviews the results for reasonableness, under the supervision of the responsible actuary.</p>
<b>Rational for Actuarial Assumptions</b>	<p>Rates of mortality, turnover, disability, and retirement, salary increases, and the rate of inflation were based on an experience study completed to determine assumptions for the January 1, 2019 through January 1, 2023 valuations of the Retirement Plan for CTA Employees. The analysis was based on historical data and projections for the five-year period ending December 31, 2017. The mortality tables were determined to reasonably provide for future mortality improvement.</p> <p>Rates of retiree and spouse participation, plan election assumptions, the percent of disabled participants eligible for Medicare, and rates of turnover for participants who are not full time permanent employees were based on an experience study completed to determine assumptions for the January 1, 2019 through January 1, 2023 valuations of the CTA RHCT. The analysis was based on historical data and projections for various periods ending December 31, 2018.</p> <p>The net investment return assumption is a long-term estimate derived from historical data, current and recent market expectations, and professional judgment. The analysis was based on an experience study completed to determine assumptions for the January 1, 2019 through January 1, 2023 valuations of the CTA RHCT. As part of the analysis, a building block approach was used that reflects inflation expectations and anticipated risk premiums for each of the portfolio's asset classes, as well as the Plan's target asset allocation.</p> <p>The trend rate assumptions were developed using data sources such as the Segal Health Trend Survey, internal client results, trends from other published surveys prepared by the S&amp;P Dow Jones Indices, consulting firms and brokers, and CPI statistics published by the Bureau of Labor Statistics.</p>

## EXHIBIT 4 – SUMMARY OF PLAN

This exhibit summarizes the major benefit provisions as included in the valuation. To the best of our knowledge, the summary represents the substantive plans as of the valuation date. It is not intended to be, nor should it be interpreted as, a complete statement of all benefit provisions.

<b>Active Contributions</b>	1% of pay as of January 1, 2022.
<b>HRA</b>	The Trustees established a health reimbursement account (HRA) for retirees and former employees, and their survivors, who have contributed to the Retiree Health Care Trust but either (1) do not satisfy the eligibility requirements for retiree health coverage, or (2) satisfy the eligibility requirements but decline coverage prior to retirement. Upon reaching age 65, the HRA provides reimbursement for allowable expenses, not to exceed the retiree's total active contributions. To begin using the HRA balance, participants must enroll for a debit card. Once enrolled, an annual fee is deducted from the HRA balance. The annual fee is currently \$25 per year. If a participant enrolls in the HRA, they can never enroll in the RHCT health care benefits and vice versa.
<b>Health Benefit Eligibility</b>	<p>Retirement:</p> <ul style="list-style-type: none"> <li>➤ Age 55 with 20 years of service, or</li> <li>➤ Separate with at least 10 years of service and at least age 65 at time of enrollment.</li> </ul> <p>Disability:</p> <ul style="list-style-type: none"> <li>➤ 5 years of service if covered under Workmen's Compensation; or</li> <li>➤ 10 years of service.</li> </ul> <p>Participants are not eligible for retiree health benefits if they cash-out their pension benefits.</p>
<b>Service for Eligibility Purposes</b>	Pension service to January 18, 2008 plus RHCT service after January 17, 2008. After January 17, 2008, employees accrue one year of service for every plan year worked.
<b>Service for Contribution Schedule</b>	Pension service to January 18, 2008 plus RHCT service after January 17, 2008. After January 17, 2008, salaried employees accrue one year of service for every plan year worked, and non-salaried employees earn service based on the actual hours worked in the plan year divided by 2,080 hours.
<b>Benefit Types</b>	Medical and prescription drug. Dental is available at full cost.
<b>Duration of Coverage</b>	Lifetime.
<b>Dependent Benefits</b>	Medical and prescription drug. Dental is available at full cost.
<b>Dependent Coverage</b>	Eligible dependents covered during retirement may continue coverage after the death of the retiree.

**Retiree Contributions**

Self-pay rates depend on service at retirement and Medicare status. Self-pay rates for disabled retirees depend on Medicare status and service at time of disability. The monthly rates effective January 1, 2022 are shown below.

Service	Non-Medicare				Medicare			
	Retiree		Dependent(s) or Surviving Spouse		Retiree		Dependent(s) or Surviving Spouse	
	PPO	HMO	PPO	HMO	PPO	HMO	PPO	HMO
45+	\$51	\$42	\$51	\$42	\$11	\$6	\$11	\$6
40-44	51	42	172	142	11	6	38	20
35-39	51	42	355	292	11	6	79	43
30-34	80	68	488	401	21	12	109	59
25-29	207	189	661	541	52	29	142	77
20-24	485	444	756	691	100	55	155	83
15-19	810	740	810	740	167	91	167	91
10-14	918	838	918	838	184	100	184	100
Less than 10	1,080	987	1,080	987	207	109	207	109

Benefit Descriptions	Pre-Medicare			
	BCBS PPO		HMO Illinois	
	Medical			
	In-Network		Out-of-Network	
Annual Deductible		\$390 individual/\$780 family		Not applicable
Annual Out-of-Pocket Maximum (after deductible)	\$3,901 individual/ \$7,802 family	\$5,202 individual/ \$10,404 family		\$1,500 individual/ \$3,000 family
Lifetime Maximum	\$2,000,000 per person		Unlimited	
Coinsurance (after deductible)	90%	60%	100% after co-pays	
Prescription Drugs				
Copay*	Retail* (30 day)	Mail* (90 day)	Retail	Mail
Generic	\$13	\$26	\$5	\$10
Brand Formulary if no Generic	\$26	\$52	\$10	\$20
Brand Non-Formulary or Brand with Generic	\$65	\$130	\$25	\$50

\* Mandatory mail-order for 2nd refill

**Medicare: Humana MAPD PPO\***

Medical			
Annual Deductible	\$390 individual/\$780 family		
Annual Out-of-Pocket Maximum (after deductible)	\$3,901 individual/\$7,802 family		
Lifetime Maximum	Unlimited		
Prescription Drugs			
Copay	Retail	Mail	
Generic	\$5	\$10	
Brand Formulary if no Generic	\$15	\$31	
Brand Non-Formulary or Brand with Generic	\$41	\$82	

\* **Humana MAPD HMO** plan has the same provisions with a smaller network of providers.