

Romeoville Firefighters' Pension Fund
House Bill 5088 (Public Act 95-950) - Municipal Compliance Report
For the Fiscal Year Ending April 30, 2020

To the Village Board of the Village of Romeoville:

Pursuant to Section 4-134 of the Illinois Pension Code (40 ILCS 5/4-134), the Board of Trustees of the Romeoville Firefighters' Pension Fund (the "Fund") hereby presents its report of the condition of the Fund at the end of its most recently completed fiscal year as follows:

1) Total Assets held by the Fund at the end of the fiscal year: \$ 10,399,112

Current market value of the Fund's total assets: \$ 11,799,482

2) Estimated receipts during the next succeeding fiscal year from deductions from the salaries or wages of firefighters and all other sources: \$1,090,000

Estimated Receipts - Employees Contributions \$ 210,000

Estimated Receipts - Investment Earnings \$ 500,000

Estimated Receipts - Municipal Contributions \$ 459,800

Total Estimated Receipts \$ 1,169,800

3) Estimated amounts necessary during the next fiscal year to meet the annual actuarial requirements of the Fund as provided in Sections 4-118 and 4-120 (40 ILCS 5/4-118 and 4-120) as determined by the:

Illinois Department of Insurance - Actuary Report \$ 555,362

Private Actuary - State Assumptions for Required Contribution. \$ 414,948

Private Actuary - Village Levy (GAAP - 20 Year Amortization) (Recommended Levy) \$ 546,210

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4) Total net income received from investment of assets along with the assumed investment return and actual investment return received by the Fund during its most recently completed fiscal year, compared to the total net income, assumed investment return, and actual investment return received during the preceding fiscal year.

	<u>Current Fiscal Year Ended 4/30/2020</u>	<u>Previous Fiscal Year Ended 4/30/2019</u>
Net Income Received from Investment of Assets	\$ 50,787	\$ 581,446
Assumed investment return as determined by the Illinois Department of Insurance - Actuarial Report:	<u>6.50%</u>	<u>6.50%</u>
Assumed investment return as determined by Private Actuary	<u>7.00%</u>	<u>7.00%</u>
Actual Investment Return	<u>0.50%</u>	<u>6.20%</u>

5) The increase in employer pension contributions resulting from implementation of P.A. 93-0689 as determined by: the Illinois Department of Insurance:

Illinois Department of Insurance - Actuary Report	<u>N/A</u>
Private Actuary	<u>N/A</u>

6) Total Number of active employees who are financially contributing to the Fund:

Number of Active Members	<u>25</u>
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7) Total amount of benefits distributed by Fund during the fiscal year:

	<u>Number of Recipients</u>	<u>Benefits Distributed</u>
i. Retirement Pensions	6	311,162
ii. Disability Pensions	0	-
iii. Survivor and Children Pensions	0	0
Total	<u>6.00</u>	<u>\$ 311,162</u>

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8) Funded Ratio of the Fund as determined by the Illinois Department of Insurance

	<u>Current Fiscal Year Ended 4/30/2020</u>	<u>Previous Fiscal Year Ended 4/30/2019</u>
Illinois Department of Insurance - Actuarial Report	<u>82.00%</u>	<u>83.00%</u>
Private Actuary (Actuarial Value Assets)	<u>88.90%</u>	<u>85.60%</u>
Private Actuary (Market Value Assets)	<u>83.50%</u>	<u>83.20%</u>

9) Unfunded liability of the Fund as determined by the:

Illinois Department of Insurance - Actuarial Report	\$ 2,452,753	\$ 2,131,798
Private Actuary (GAAP/GASB Methodology)	\$ 1,382,805	\$ 1,736,213

The accrued liability is the actuarial present value of the portion of the projected benefits that has been accrued as of the valuation date based upon the actuarial valuation method and the actuarial assumptions employed in the valuation. The unfunded accrued liability is the accrued liability less the actuarial value of the assets.

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10) A copy of the Fund's current investment policy under the statuary investment restrictions imposed on the fund is attached to this report for informational purposes.

A copy of the most recent actuarial report prepared by Nyhart at the direction of the Romeoville Fire Pension Fund is attached to this report for informational purposes. The most recent actuarial report from the Illinois Department of Insurance (IDOI) pursuant to State of Illinois is attached to this report for informational purposes.

These certifications are made by the Board of Trustees this _____ day of _____, 2020

President, Board of Trustees - Romeoville Firefighters' Pension Fund

Attest:

Secretary, Board of Trustees Romeoville Firefighters' Pension Fund

ROMEovILLE FIREFIGHTERS PENSION FUND INVESTMENT POLICY

PURPOSE

The Investment of pension funds is the responsibility of the members of the Board of Trustees of the Romeoville Firefighters Pension Fund (Pension Board). The purpose of this investment policy is to indicate a conscious, formal effort by the Pension Board to develop, implement and monitor the investment of pension funds. It shall be considered an important means to communicate the Pension Board's policy views on management of pension funds to the public, participants, and beneficiaries of the Fund.

SCOPE

This policy governs the investment practices and applies to all financial transactions of the Romeoville Firefighters Pension Fund (Pension Fund).

OBJECTIVES

The Pension Board has a fiduciary responsibility to discharge its duties with respect to the Pension Fund solely in the interest of the participants and beneficiaries as set forth in the Illinois Pension Code.

Preservation of Principal – Preservation of principal is the foremost objective of the Pension Board. Investment transactions shall seek to first ensure that large capital losses are avoided. Additionally, the objective of the Pension Board is to avoid erosion of principal resulting from securities defaults.

Return on Investments – The Pension Board seeks to attain or exceed market rates of return on investments consistent with constraints imposed by safety objectives, cash flow considerations and Illinois Laws that restrict the placement of public funds.

Maintenance of Public Trust – All participants in the investment process shall seek to act responsibly as custodians of the Pension Fund. Investment officials shall avoid any transactions that might reasonably impair Pension Fund participant's confidence in the Pension Board's ability to manage the Pension Fund.

Liquidity – The assets shall be sufficiently liquid to meet the Pension Fund's disbursement requirements for the payment of operating expenses and benefits.

RESPONSIBILITY

Management of the investment program is the responsibility of the Pension Board. No person may engage in an investment transaction except as provided under terms of this policy established by the Pension Board.

The Treasurer of the Pension Fund shall be responsible for establishing internal controls and written procedures for the operation of the investment program to comply with Illinois Compiled Statutes.

The Pension Board may appoint an investment manager (as defined in 40 ILCS 5/1 – 101.4) to assist in the management of the investment program. The investment manager shall acknowledge, in writing, that he or she is a fiduciary with respect to the Pension Fund. Any such written acknowledgement shall be attached to this policy or included in the agreement between the Pension Board and the investment manager. (40 ILCS 5/1-113.5).

The Pension Board will meet with the investment manager quarterly to review market conditions and to determine investment strategy. This review will include analysis of the investment portfolio, its effectiveness in meeting the Pension Fund's needs for safety, liquidity, rate of return, and diversification, and its general performance.

PRUDENCE

The standard of prudence to be used by investment officials shall be the "prudent investor" and shall be applied in the context of managing the portfolio. Investments shall be made with the care, skill, prudence

and diligence that a prudent person acting in like capacity and familiar with such matters would use in the conduct of an enterprise of like character with like aims.

PROHIBITED TRANSACTIONS

A Fiduciary with respect to the Pension Fund shall not:

1. Deal with the assets of the Pension Fund in his or her own interests or for his or her own account.
2. In their individual or other capacity effect any transaction involving the Pension Fund on behalf of a party whose interests are adverse to the interests of the Pension Fund or the interests of its participants or beneficiaries.
3. Receive any consideration for his or her own personal account from any party dealing with the Pension Fund in connection with a transaction involving the assets of the Pension Fund.
4. Knowingly cause or advise the Pension Fund to engage in an investment transaction when the fiduciary (i) has any direct interest in the income, gains, or profits of the Investment advisor through which the investment transaction is made or (ii) has a business relationship with that investment advisor that would result in a pecuniary benefit to the fiduciary as a result of the investment transaction. (40 ILCS 5/1-110)

INVESTMENT INSTRUMENTS

The Pension Fund may invest in any type of investment instrument permitted by Illinois law, as described in Chapter 40 of the Illinois Compiled Statutes, 40 ILCS 5/1-113.2 through 113.4a. Permitted investment instruments include, but are not limited to:

1. Interest bearing direct obligations of the United States of America.
2. Interest bearing obligations to the extent that they are fully guaranteed or insured as to payment of principal and interest by the United States of America.
3. Interest bearing bonds, notes, debentures, or other similar obligations of agencies of the United States of America. For the purposes of this section, "Agencies of the United States of America" include:
 - a. The Federal National Mortgage Association and the Student Loan Marketing Association.
 - b. Federal Land Banks, Federal Intermediate Credit Banks, Federal Farm Credit Banks, and any other entity authorized to issue direct debt obligations of the United States of America under the Farm Credit Act of 1971.
 - c. Federal Home Loan Banks and the Federal Home Loan Mortgage Corporation.
 - d. Any agency created by act of Congress that is authorized to issue direct debt obligations of the United States of America.
4. Corporate bonds managed through an investment advisor must meet all of the following requirements:
 - a. The bonds must be rated as investment grade by one of the 2 largest rating services at the time of purchase.
 - b. If subsequently downgraded below investment grade, the bonds must be liquidated by the manager from the portfolio within 90 days after being downgraded.
5. Interest bearing savings accounts or certificates of deposit, issued by federally chartered banks or savings and loan associations, or by State of Illinois chartered banks or savings and loan associations, to the extent that the deposits are insured by agencies or instrumentalities of the federal government.
6. Interest bearing bonds of the State of Illinois or interest bearing bonds or tax anticipation warrants of any county, township, or municipal corporation of the State of Illinois.
7. Pooled interest bearing accounts managed by the Illinois Public Treasurer's Investment Pool in accordance with the Deposit of State Moneys Act.

8. Direct obligations of the State of Israel.
9. Money Market Mutual Funds managed by investment companies that are registered under the Federal Investment Company Act of 1940 and the Illinois Securities Law of 1953 and are diversified, open-ended management investment companies; provided that the portfolio of the money market mutual fund is limited to:
 - a. Bonds, notes, certificates of indebtedness, treasury bills, or other securities that are guaranteed by the full faith and credit of the United States of America or its agencies.
 - b. Bonds, notes, debentures, or other similar obligations of the United States of America or its agencies.
10. Not to exceed 10% of the portfolio, separate accounts that are managed by life insurance companies authorized to transact business in Illinois and are comprised of diversified portfolios consisting of common or preferred stock, bonds or money market instruments or mutual funds that meet the requirement as outlined in item 11 below.
11. In addition to the items listed above, if the Pension Fund has net assets of \$2,500,000 or more it may invest a portion of its net assets in mutual funds that meet the following requirements:
 - a. The mutual fund is managed by an investment company as defined and registered under the Federal Investment Company Act of 1940 and registered under the Illinois Securities Law of 1953.
 - b. The mutual fund has been in operation for at least five years.
 - c. The mutual fund has total net assets of \$250 million or more.
 - d. The mutual fund is comprised of diversified portfolios of common or preferred stocks, bonds, or money market instruments.
12. In addition to the items listed above, if the Pension Fund has net assets of \$5,000,000 or more it may invest a portion of its net assets in common and preferred stocks that meet the following requirements:
 - a. Investments made through an investment advisor with a written contract.
 - b. Stocks of U.S. Corporations that have been in existence for 5 years.
 - c. Corporations not in arrears in payment of dividends in the last 5 years.
 - d. Market value of stock in any one corporation does not exceed 5% of cash and invested assets of pension fund.
 - e. Stock in any one corporation does not exceed 5% of the total outstanding stock in the corporation.
 - f. Stocks listed on national securities exchange or quoted in NASDAQNMS.
13. In addition to the items mentioned above, if the Pension Fund has net assets of at least \$10,000,000 the fund may, through that investment adviser, invest an additional portion of its assets in common and preferred stocks and mutual funds.

If the Pension Fund has net assets of at least \$2,500,000 but less than \$10,000,000, the Pension Fund's investment in the above equity investments (#'s 10, 11 and 12) shall not exceed 45% of the market value of the Pension Fund's net present assets stated in its most recent annual report on file with the Illinois Department of Insurance.

If the Pension Fund has net assets of at least \$10,000,000, the Pension Fund's total investment in the above equity investments (#'s 10, 11 and 12) shall not exceed 50% effective July 1, 2011 and 55% effective July 1, 2012 of the market value of the Pension Fund's net present assets stated in its most recent annual report on file with the Illinois Department of Insurance.

The 55% maximum allocation is subject to statutory interpretation and any change to the maximum allocation will be made by motion and approval by the Board of Trustees of the Pension Fund.

Investments of the Pension Fund will be registered in the name of the Pension Fund and placed with a custodian approved by the Pension Board so long as the custodian meets the requirements of state statutes.

PERFORMANCE MEASUREMENTS

Performance will be calculated using professional standards as established by the CFA Institute. The Pension Board may include (but is not limited to) the following benchmarks for evaluating the Pension Fund's performance:

Application	Benchmark Index
Cash Equivalents	Morningstar Manager Benchmark Taxable Money Market
Fixed Income - U.S. Treasury	Barclay's U.S. Treasury Intermediate
Fixed Income - U.S. Agency	Barclay's U.S. Agency 7-10 Year
Fixed Income - Taxable Municipal	Barclay's Taxable Municipal Intermediate
Fixed Income - Corporate	Barclay's Corporate Intermediate
Large Capitalization Equities	Standard & Poor's 500 Stock Index
Small Capitalization Equities	Russell 2000 Stock Index
International Equities	Morgan Stanley Capital International EAFE

CONTROLS

The Pension Board maintains Pension Fund books and records in conformance with generally accepted accounting principles. Internal controls shall be reviewed by the Pension Board and may be reviewed by an independent auditor. The controls shall be designed to prevent losses of public funds arising from fraud, employee error, misrepresentation by third parties, or imprudent actions by employees and officers of the Pension Board.

DIVERSIFICATION / STRATEGY

Fixed Income

The average maturity/duration of the portfolio will be managed based upon the current existing interest rate environment. Under most circumstances the average maturity and duration of the portfolio will be maintained at approximately 5.0 years and will range from 2.0 years to 7.0 years. This type of strategy will often result in increasing the maturity/duration of the portfolio when interest rates are rising and decreasing the maturity/duration of the portfolio when interest rates are declining. The investment manager may change the duration of the portfolio as market conditions permit.

The allocation guidelines, by asset class, for the fixed income investments are as follows:

	Minimum Allocation	Allocation Range	Maximum Allocation
U.S. Treasury Bills/Notes/Bonds	0%	5% - 40%	100%
U.S. Government Agency Securities (non-MBS)	0%	20% - 70%	75%
U.S. Government Agency Securities (Callable)	0%	0% - 20%	30%
U.S. Government Agency Securities (MBS)	0%	0% - 10%	15%
Taxable Municipal Securities	0%	5% - 20%	30%
Certificates of Deposit	0%	0% - 10%	20%
Investment Grade Corporate Bonds	0%	5% - 20%	30%

Under normal market conditions the structure of the portfolio will be within these limits. However, the portfolio manager may diverge from the above guidelines due to abnormal market conditions.

Equities

Once the Pension Fund reaches the equity allocation approved by the Pension Board and permitted by law, normal asset allocation range for equity portfolio allocation weightings should be:

	Normal Allocation	Range of Allocation
U.S. Large Company Stocks	70%	40% - 100%
U.S. Small Company Stocks	20%	0% - 40%
International Stocks	10%	0% - 20%

The Pension Fund asset allocation should be rebalanced at least annually when the equity allocation rises above the maximum allowable as a percentage of assets as defined by Illinois State Statute.

ILLINOIS SUSTAINABLE INVESTING ACT

The Board recognizes that material, relevant, and decision-useful sustainability factors have been or are regularly considered by the Board, within the bounds of financial and fiduciary prudence, in evaluating investment decisions. Such factors include, but are not limited to: (1) corporate governance and leadership factors; (2) environmental factors; (3) social capital factors; (4) human capital factors; and (5) business model and innovation factors, as provided under the Illinois Sustainable Investing Act. (40 ILCS 5/1-113.6 and 1-113.17)

COLLATERALIZATION

Pension Fund assets may be invested in savings accounts or certificates of deposit of a national or state bank, even if fund assets on deposit in such institution will exceed federal deposit insurance or guarantee limits for invested principal and accrued interest, but only if the amount by which the fund's investment exceeds such insurance or guarantee limits is collateralized by the bank which shall be maintained and credited to the fund on the records of the custodial bank. The Pension Fund shall have a perfected security interest in such securities which shall be free of any claims to the rights to these securities other than any claims by the custodian which are subordinate to the Pension Fund's claims to rights to these securities.

CUSTODY AND SAFEKEEPING OF INVESTMENTS

Third party safekeeping is required for all securities owned by the Pension Fund (40 ILCS 5/1-113.7). Custody arrangements shall be documented by an approved written agreement. The agreement may be in the form of a safekeeping agreement, trust agreement, escrow agreement or custody agreement.

ETHICS AND CONFLICTS OF INTEREST

Any fiduciary with respect to the Pension Fund shall refrain from personal business activity that could conflict with the proper execution of the investment program, or which could impair his or her ability to make impartial investment decisions.

REPORTING

At least quarterly, the Treasurer shall submit to the Pension Board an investment report which shall describe the portfolio in terms of investment securities, maturity, cost, transactions and earnings for the current period. The Treasurer shall also submit a comprehensive annual report on the Pension Fund and its activity.

MEETING SCHEDULE

The Pension Board shall schedule periodic meetings for the purposes of portfolio and investment manager review. Special meetings may be called from time-to-time by the Pension Board.

AUDIT

Pension Fund is subject to periodic examination by Illinois Department of Insurance - Public Pension Division.

FILING

The Board shall file a copy of this policy with the Illinois Department of Insurance, Public Pension Division within thirty (30) days of its adoption. The Board shall make a copy of this Policy available to the public at the main administrative office of the Pension Fund. (40 ILCS 5/1-113.6; 30 ILCS 235/2.5(c))

DEFINITIONS

Barclay's Corporate Intermediate – The index includes publicly issued U.S. corporate and specified foreign debentures and secured notes that are SEC registered. The securities must be rated investment grade, fixed rate, dollar-denominated and have maturities typically less than 10 years.

Barclay's Taxable Municipal Intermediate – The index includes publicly issued taxable municipal bonds that are rated investment grade. The bonds must be fixed rate with outstanding par value of at least \$7 million. The bonds will have maturities typically less than 10 years.

Barclay's U.S. Agency 7-10 Year – The index includes securities publicly issued by U.S. government agencies that are rated investment grade, fixed rate and have at least \$300 million par value outstanding. The securities will have maturities ranging between 7 and 10 years.

Barclay's U.S. Treasury Intermediate – The index includes public obligations of the U.S. Treasury that have at least \$250 million in par value outstanding. The securities must be rated investment grade, dollar-denominated and have a fixed rate. Maturities will range from 1 to 10 years.

Beneficiary – person eligible for or receiving benefits from a pension fund.

Book Entry Security – securities that can be transferred from institution to institution using the federal electronic wire system, thus eliminating the physical transfer of certificates. Records are maintained on a computer system at the Federal Reserve.

Collateral – the pledging of a security to guarantee performance of an obligation.

Current Yield – percentage derived by taking annual interest from an investment and dividing by current market value.

Fiduciary – person entrusted with the control of assets for the benefit of others.

Investment Manager – an individual or organization that provides investment management services for a fee, either on a discretionary or nondiscretionary basis. Under Illinois law, an investment manager is considered a fiduciary with respect to the Pension Fund.

Market Value – the present price of a given security.

Morgan Stanley Capital International (EAFE) – Indices are based on the share prices of approximately 1,600 companies listed on stock exchanges in the twenty-two countries that make up the MSCI National Indices.

Morningstar Manager Benchmark Taxable Money Market - the index tracks the performance of the U.S. taxable money market universe.

Return – the profit or interest as payment for investment.

Russell 2000 Stock Index – is comprised of the smallest 2000 companies in the Russell 3000 index, representing approximately 11% of the Russell 3000 total market capitalization. The Index was developed with a base value of 135.00 as of December 31, 1986.

Security – any note, stock, bond, certificate of interest or certificate of deposit.

Separate Account – term used of variable annuities. Because the risk is borne by the investor in a variable annuity, the issuer may not commingle funds invested in the variable annuity with the general funds of the issuer.

Standard & Poor's 500 Stock Index – is a capitalization-weighted index of 500 stocks designed to measure performance of the broad domestic economy through changes in the aggregate market value of 500 stocks representing all major industries. The index was developed with a base level of 10 for the 1941-43 base period.

Treasury Bill – short-term debt obligation of U.S. government which will mature in one year or less at the time of original issuance.

Treasury Bond – longer debt obligations of U.S. government which will mature in ten years or longer at the time of original issuance.

Treasury Note – debt obligations of U.S. government which will mature in ten years or less at the time of original issuance.

AMENDMENT

This policy may be amended from time to time by the Pension Board.

CONFLICT

In the event of any conflict between this Policy and the Illinois Compiled Statutes or case decisions of the State of Illinois, the Statutes and case law decisions shall govern.

ADOPTION

This Investment Policy is hereby adopted by the **Romeoville Firefighters Pension Fund Board of Trustees** on this the 7th day of OCTOBER, 2020.

Title	Signature
President	
Secretary	
Treasurer	
Trustee	
Trustee	
Trustee	



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Village of Romeoville
Firefighters' Pension Fund

May 1, 2020
Actuarial Valuation Report

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At the request of the plan sponsor, this report summarizes the Village of Romeoville Firefighters' Pension Fund as of May 1, 2020 . The purpose of this report is to communicate the following results of the valuation:

- Funded Status;
- Village Funding Policy Contribution;
- Statutory Minimum Contribution;

This report has been prepared in accordance with the applicable Federal and State laws. Consequently, it may not be appropriate for other purposes. Please contact Nyhart prior to disclosing this report to any other party or relying on its content for any purpose other than that explained above. Failure to do so may result in misrepresentation or misinterpretation of this report.

The results in this report were prepared using information provided to us by other parties. The census information has been provided to us by the employer. Asset information has been provided to us by the administrator. We have reviewed the provided data for reasonableness when compared to prior information provided, but have not audited the data. Where relevant data may be missing, we have made assumptions we believe to be reasonable. We are not aware of any significant issues with and have relied on the data provided. Any errors in the data provided may result in a different result than those provided in this report. A summary of the data used in the valuation is included in this report.

The actuarial assumptions and methods were chosen by the employer. In our opinion, all actuarial assumptions and methods are individually reasonable and in combination represent our best estimate of anticipated experience of the plan. 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); and
- changes in plan provisions or applicable law.

We did not perform an analysis of the potential range of future measurements due to the limited scope of our engagement. This report has been prepared in accordance with generally accepted actuarial principles and practice.

Neither Nyhart nor any of its employees have any relationship with the plan or its sponsor which could impair or appear to impair the objectivity of this report. To the extent that this report or any attachment concerns tax matters, it is not intended to be used and cannot be used by a taxpayer for the purpose of avoiding penalties that may be imposed by law.

Village of Romeoville Firefighters' Pension Fund
Actuarial Valuation as of May 1, 2020
Actuarial Certification

The undersigned are compliant with the continuing education requirements of the Qualification Standards for Actuaries Issuing Statements of Actuarial Opinion in the United States and are available for any questions.

Nyhart

Michael Zurek

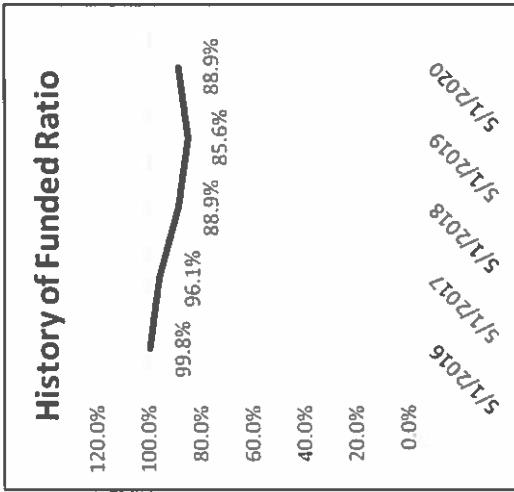
Michael Zurek, EA, FCA, MAAA

September 29, 2020
Date

Summary Results

The actuarial valuation's primary purpose is to produce a scorecard measure displaying the funding progress of the plan toward the ultimate goal of paying benefits at retirement. The Accrued Liability is based on the Entry Age Normal actuarial cost method.

	May 1, 2019	May 1, 2020
Funded Status Measures		
Accrued Liability	\$ 12,069,793	\$ 12,455,486
Actuarial Value of Assets	<u>10,333,580</u>	<u>11,072,681</u>
Unfunded Accrued Liability	\$ 1,736,213	\$ 1,382,805
Funded Percentage (AVA)	85.6%	88.9%
Funded percentage (MVA)	83.2%	83.5%
Cost Measures		
Total Funding Policy Pension Contribution	\$ 639,930	\$ 781,893
Expected Employee Contributions	<u>(180,226)</u>	<u>(235,683)</u>
Net Village Funding Policy Contribution	\$ 459,704	\$ 546,210
- as a Percentage of Payroll	25.0%	22.7%
Asset Measures		
Market Value of Assets (MVA)	\$ 10,039,040	\$ 10,399,112
Actuarial Value of Assets (AVA)	\$ 10,333,580	\$ 11,072,681
Actuarial Value/Market Value	102.9%	106.5%
Participant Information		
Active Participants	19	25
Terminated Vested Participants	4	4
Retirees, Beneficiaries, and Disabled Participants	<u>6</u>	<u>6</u>
Total	29	35
Payroll	\$ 1,841,684	\$ 2,408,762



Changes since Prior Valuation and Key Notes

The Tier II benefit changes effective January 1, 2020 under Illinois Public Act 101-610 are included in the valuation. The changes result in an increase in benefit obligations and an increase in the recommended contribution.

The mortality improvement scale was updated from scale MP-2018 to scale MP-2019. The change results in a decrease in benefit obligations and a decrease in the recommended contribution.

Village of Romeoville Firefighters' Pension Fund
Actuarial Valuation as of May 1, 2020
Executive Summary

History of Valuation Results

	5/1/2016	5/1/2017	5/1/2018	5/1/2019	5/1/2020
Plan Funding					
Accrued Liability	\$ 8,240,245	\$ 9,260,268	\$ 10,766,830	\$ 12,069,793	\$ 12,455,486
Actuarial Value of Assets	8,220,750	8,898,933	9,573,288	10,333,580	11,072,681
Unfunded Accrued Liability	\$ 19,495	\$ 361,335	\$ 1,193,542	\$ 1,736,213	\$ 1,382,805
Funded Percentage	99.8%	96.1%	88.9%	85.6%	88.9%
Normal Cost (NC)	\$ 460,019	\$ 458,792	\$ 513,062	\$ 502,177	\$ 633,807
NC as a Percent of Covered Payroll	27.2%	27.3%	27.3%	27.3%	26.3%
Actual Contribution	\$ 356,759	\$ 358,453	\$ 398,644	\$ 451,007	To Be Determined
Funding Policy Contribution	\$ 322,221	\$ 336,097	\$ 419,931	\$ 459,704	\$ 546,210
Funding Policy Contribution (% of Pay)	19.0%	20.0%	22.3%	25.0%	22.7%
Interest Rate	7.00%	7.00%	7.00%	7.00%	7.00%
Rate of Return					
Actuarial Value of Assets	5.5%	5.3%	4.9%	5.1%	4.1%
Market Value of Assets	1.7%	6.3%	4.4%	6.2%	0.5%
Demographic Information					
Active Participants	20	19	20	19	25
Retired Participants	3	5	6	6	6
Beneficiaries	-	-	-	-	-
Disabled Participants	1	1	-	-	-
Terminated Vested Participants	3	3	3	4	4
Total Participants	27	28	29	29	35
Covered Payroll	\$ 1,692,697	\$ 1,678,478	\$ 1,879,145	\$ 1,841,684	\$ 2,408,762
Average Covered Pay	\$ 84,635	\$ 88,341	\$ 93,957	\$ 96,931	\$ 96,350

Identification of Risks

The results presented in this report are shown as single point values. However, these values are derived using assumptions about future markets and demographic behavior. If actual experience deviates from our assumptions, the actual results for the plan will consequently deviate from those presented in this report. Therefore, it is critical to understand the risks facing this pension plan. The following table shows the risks we believe are most relevant to the Village of Romeoville Firefighters' Pension Fund. The risks are generally ordered with those we believe to have the most significance at the top. Also shown are possible methods by which a more detailed assessment of the risk can be performed.

Type of Risk	Method to Assess Risk
Investment Return	Scenario Testing; Asset Liability Study
Participant Longevity	Projections and Contribution Strategy
Early Retirement	
Salary Growth	

Plan Maturity Measures - May 1, 2020

Each pension plan has a distinct life-cycle. New plans promise future benefits to active employees and then accumulate assets to pre-fund those benefits. As the plan matures, benefits are paid and the pre-funded assets begin to decumulate until ultimately, the plan pays out all benefits. A plan's maturity has a dramatic influence on how risks should be viewed. The following maturity measures illustrate where the Village of Romeoville Firefighters' Pension Fund falls in its life-cycle.

Duration of Liabilities: 18.1

Duration is the most common measure of plan maturity. It is defined as the sensitivity of the liabilities to a change in the interest rate assumption. The metric also approximates the weighted average length of time, in years, until benefits are expected to be paid. A plan with high duration is, by definition, more sensitive to changes in interest rates. A plan with low duration is more susceptible to risk if asset performance deviates from expectations as there would be less time to make up for market losses in adverse market environments while more favorable environments could result in trapped surplus from gains. Conversely, high duration plans can often take on more risk when investing, and low duration plans are less sensitive to interest rate fluctuations.

Demographic Distribution - Ratio of Actively Accruing Participants to All Participants: 71.4%

A plan with a high ratio is more sensitive to fluctuations in salary (if a salary-based plan) and statutory changes. A plan with a low ratio is at higher risk from demographic experience. Such a plan should pay close attention to valuation assumptions as there will be less opportunity to realize future offsetting gains or losses when current experience deviates from assumptions. Plans with a low ratio also have limited opportunities to make alterations to plan design to affect future funded status.

Asset Leverage - Ratio of Payroll for Plan Participants to Market Value of Assets: 23.2%

Younger plans typically have a large payroll base from which to draw in order to fund the plan while mature plans often have a large pool of assets dedicated to providing benefits to a population primarily consisting of members no longer on payroll. Plans with low asset leverage will find it more difficult to address underfunding, as the contributions needed to make up the deficit will represent a higher percentage of payroll than for a plan with high asset leverage.

Benefit Payment Percentage - Ratio of Annual Benefit Payments to Market Value of Assets: 3.4%

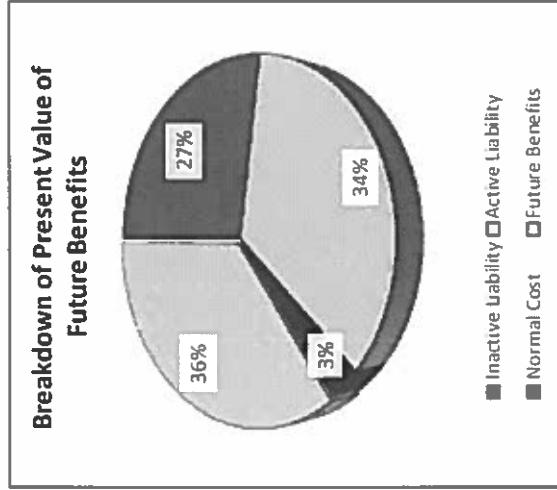
As a plan enters its decumulation phase, a larger percentage of the pre-funded assets are paid out each year to retirees. A high percentage is not cause for alarm as long as the plan is nearly fully funded. However, such a plan is more sensitive to negative asset performance, especially if cash contributions are not an option to make up for losses.

**Village of Romeoville Firefighters' Pension Fund
Actuarial Valuation as of May 1, 2020
Assets and Liabilities**

Present Value of Future Benefits

The Present Value of Future Benefits represents the future benefits payable to the existing participants.

	May 1, 2020
Present Value of Future Benefits	
Active Participants	\$ 12,139,953
Retirement	1,794,803
Disability	460,043
Death	427,903
Termination	-
Total Active	<u>\$ 14,822,702</u>
Inactive participants	\$ 5,168,210
Retired Participants	-
Beneficiaries	-
Disabled Participants	-
Terminated Vested Participants	400,717
Total Inactive	<u>\$ 5,568,927</u>
Total	<u>\$ 20,391,629</u>
Present Value of Future Payrolls	\$ 33,396,952
Present Value of Future Employee Contributions	\$ 3,008,182



Accrued Liability

The Funding Liability measures the present value of benefits earned as of the valuation date, using the actuarial assumptions described in the assumption section of this report and the Entry Age Normal actuarial cost method.

May 1, 2020

Funding Liabilities

Active Participants

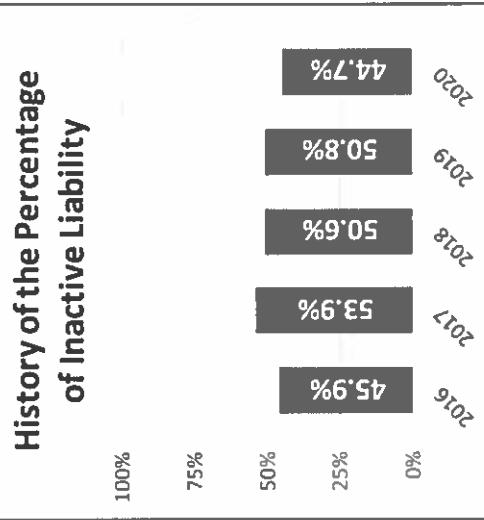
Retirement	\$ 5,807,103
Disability	758,554
Death	146,940
Termination	173,962
Total Active	\$ 6,886,559

Inactive Participants

Retired Participants	\$ 5,168,210
Beneficiaries	-
Disabled Participants	-
Terminated Vested Participants	400,717
Total Inactive	\$ 5,568,927
Total	\$ 12,455,486

Normal Cost

\$ 633,807

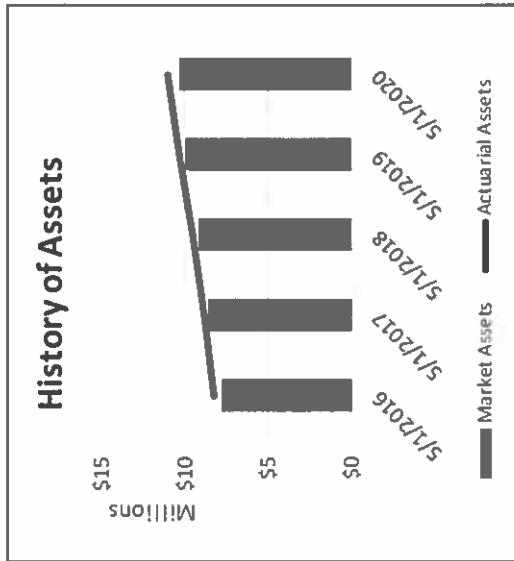


**Village of Romeoville Firefighters' Pension Fund
Actuarial Valuation as of May 1, 2020
Assets and Liabilities**

Asset Information

The amount of assets backing the pension promise is the most significant driver of volatility and future costs within a pension plan. The investment performance of the assets directly offsets the ultimate cost.

		May 1, 2020
Market Value Reconciliation		
Market Value of Assets, Beginning of Prior Year		\$ 10,039,040
Contributions		
Employer Contributions	\$ 451,007	
Member Contributions	204,861	
Total	\$ 655,868	
Investment Income	50,787	
Benefit Payments	(311,162)	
Administrative Expenses	(35,421)	
Market Value of Assets, Beginning of Current Year	<u>\$ 10,399,112</u>	
Return on Market Value	0.5%	
Actuarial value of assets		
Value at Beginning of Current Year	\$ 11,072,681	



**Village of Romeoville Firefighters' Pension Fund
Actuarial Valuation as of May 1, 2020
Assets and Liabilities**

Asset Information (continued)

Plan Assets are used to develop funded percentages and contribution requirements.

May 1, 2020

1. Expected Market Value of Assets	
(a) Market Value of Assets, Beginning of Prior Year	\$ 10,039,040
(b) Contributions	655,868
(c) Benefit Payments	(311,162)
(d) Administrative Expenses	(35,421)
(e) Expected Return	713,558
(f) Expected Market Value of Assets, Beginning of Current Year	<u>\$ 11,061,883</u>
2. Market Value of Assets, Beginning of Current Year	\$ 10,399,112
3. Actual Return on Market Value	\$ 50,787
4. Amount Subject to Phase-in [(3)-(1e)]	\$ (662,771)
5. Phase-in of Asset Gain/(Loss)	\$ (530,217)
(a) Current Year [80% x \$ (662,771)]	(42,778)
(b) First Prior Year [60% x \$ (71,296)]	(88,686)
(c) Second Prior Year [40% x \$ (221,714)]	(11,888)
(d) Third Prior Year [20% x \$ (59,441)]	
(e) Total Phase-in	<u>\$ (673,569)</u>
6. Actuarial Value of Assets, Beginning of Current Year [(2)-(5e)]	\$ 11,072,681
7. Return on Actuarial Value of Assets	4.1%

**Village of Romeoville Firefighters' Pension Fund
Actuarial Valuation as of May 1, 2020
Assets and Liabilities**

Reconciliation of Gain/Loss

	May 1, 2020
Liability (Gain)/Loss	
Actuarial Liability, Beginning of Prior Year	\$ 12,069,793
Normal Cost	502,177
Benefit Payments	(311,162)
Expected Interest	<u>869,147</u>
	\$ 13,129,955
Expected Actuarial Liability, Beginning of Current Year	\$ 13,129,955
Actual Actuarial Liability, Before Changes	\$ 12,365,969
Liability (Gain)/Loss	\$ (763,986)
Asset (Gain)/Loss	
Actuarial Value of Assets, Beginning of Prior Year	\$ 10,333,580
Contributions	655,868
Benefit Payments and Administrative Expenses	(346,583)
Expected Return	<u>734,176</u>
	\$ 11,377,041
Expected Actuarial Value of Assets, Beginning of Current Year	\$ 11,377,041
Actual Actuarial Value of Assets, Beginning of Current Year	\$ 11,072,681
Asset (Gain)/Loss	\$ 304,360
Total (Gain)/Loss	\$ (459,626)

**Village of Romeoville Firefighters' Pension Fund
Actuarial Valuation as of May 1, 2020
Contribution Requirements**

Development of Funding Policy Contribution

The funding policy contribution is the annual amount needed to fund the plan to 100% by the end of the 2041 fiscal year as a level percentage of payroll, using the Entry Age Normal actuarial cost method. The recommended contribution is subject to the State statutory minimum, which is the annual amount needed to fund the plan to 90% by the end of the 2040 fiscal year as a level percentage of payroll, using the Projected Unit Credit actuarial cost method.

May 1, 2020

Funded Position	
1. Entry Age Normal Accrued Liability	\$ 12,455,486
2. 100% of Entry Age Normal Accrued Liability	\$ 12,455,486
3. Actuarial Value of Assets	11,072,681
4. Unfunded Actuarial Accrued Liability (UAAL) (2 – 3)	\$ 1,382,805
Funding Policy Contribution	
1. Normal Cost	\$ 633,807
2. Administrative Expenses	35,421
3. Amortization of UAAL	86,224
4. Applicable Interest	26,441
5. Total Funding Policy Contribution	\$ 781,893
6. Expected Employee Contributions	235,683
7. Net Village Funding Policy Contribution (5 – 6)	\$ 546,210
8. Minimum Contribution (Public Act 096-1495 Tax Levy Requirement)	\$ 414,948
9. Final Contribution [max (7,8)]	\$ 546,210
As a Percentage of Expected Payroll	22.7%

History of Recommended Contributions (% of Payroll)



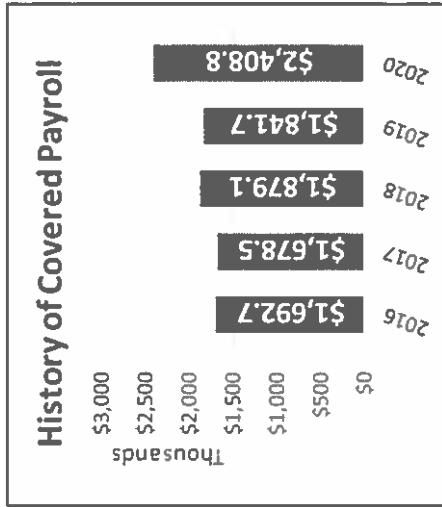
The Plan's Normal Cost plus interest on the Unfunded Actuarial Accrued Liability is \$ 513,350.

A contribution greater than the Normal Cost plus interest on the Unfunded Actuarial Accrued Liability will reduce the Unfunded Actuarial Accrued Liability, if all other assumptions are met. A contribution less than the Normal Cost plus interest on the Unfunded Actuarial Accrued Liability, if all other assumptions are met. Consider making a contribution greater than the Normal Cost plus interest on the Unfunded Actuarial Accrued Liability in order to pay down the Plan's shortfall more rapidly if that amount is greater than your funding policy contribution.

Demographic Information

The foundation of a reliable actuarial report is the participant information provided by the plan sponsor. Monitoring trends in demographic information is crucial for long-term pension planning.

	May 1, 2019	May 1, 2020
Participant Counts		
Active Participants	19	25
Retired Participants	6	6
Beneficiaries	-	-
Disabled Participants	-	-
Terminated Participants	4	4
Total Participants	29	35
Active Participant Demographics		
Average Age	38.9	37.6
Average Service	9.3	8.0
Average Compensation	\$ 96,931	\$ 96,350
Covered Payroll	\$ 1,841,684	\$ 2,408,762



Demographic Information (continued)

	May 1, 2019	May 1, 2020
Retiree Statistics		
Average Age	58.5	59.5
Average Monthly Pension Benefit	\$ 4,286	\$ 4,393
Beneficiary Statistics		
Average Age	N/A	N/A
Average Monthly Pension Benefit	\$ N/A	\$ N/A
Disabled Participants Statistics		
Average Age	N/A	N/A
Average Monthly Pension Benefit	\$ N/A	\$ N/A
Terminated Participants Statistics		
Average Age	42.7	43.7
Average Monthly Pension Benefit*	\$ 1,545	\$ 1,545

* Average monthly pension benefit does not include participants eligible for a return of contributions only.

Village of Romeoville Firefighters' Pension Fund
 Actuarial Valuation as of May 1, 2020
 Participant Reconciliation

Participant Reconciliation

	Active	Terminated Vested	Disabled	Retired	Beneficiaries	Totals
Prior Year	19	4	0	6	0	29
Active						
To Retired	0	0	0	0	0	0
To Disabled	0	0	0	0	0	0
To Terminated Vested	0	0	0	0	0	0
To Death	0	0	0	0	0	0
Terminated Nonvested (return of employee contributions)	0	0	0	0	0	0
Terminated Vested						
To Retired	0	0	0	0	0	0
Return of employee contributions	0	0	0	0	0	0
Retired						
To Death with Beneficiary	0	0	0	0	0	0
To Death without Beneficiary	0	0	0	0	0	0
Beneficiaries						
To Death	0	0	0	0	0	0
Additions	6	0	0	0	0	6
Departures	0	0	0	0	0	0
Current Year	25	4	0	6	0	35

Village of Romeoville Firefighters' Pension Fund
 Actuarial Valuation as of May 1, 2020
 Participant Reconciliation

Active Participant Schedule

Active participant information grouped based on age and service.

Age Group	Years of Service							Total	Average Pay
	Under 1	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29		
Under 25									
25 to 29	3							3	64,722
30 to 34	2	3	1	1				7	90,775
35 to 39	1	1	1	3	1			7	95,453
40 to 44		1		4				5	110,637
45 to 49		1	1					2	107,594
50 to 54									
55 to 59								1	142,631
60 to 64					1				
65 to 69									
70 & up									
Total	6	5	3	9	2	0	0	0	96,350

Eligibility for Participation

Firefighters of the Village of Romeoville

Accrual of Benefits

For employees hired prior to January 1, 2011, the normal retirement benefit is equal to 50% of the final salary plus 2.5% of any service over 20 years (with a maximum of 30) times the final salary. There is a minimum benefit of \$1,000 per month. The benefit is paid as a 100% joint and survivor benefit with the spouse, children under 18, or dependent parents of the participants as the survivor.

For employees hired after or on January 1, 2011, the normal retirement benefit is equal to 2.5% of the final average salary times benefit service (maximum 30 years.) The benefit is paid as a 66.67% joint and survivor benefit with the spouse, children under 18, or dependent parents of the participants as the survivor.

Benefits

Normal Retirement

Eligibility For employees hired prior to January 1, 2011, the normal retirement date is the first day of the month on or after completion of 20 years of service and attainment of age 50.

For employees hired after or on January 1, 2011, the normal retirement date is the first day of the month on or after completion of 10 years of service and attainment of age 55.

Benefit Unreduced Accrued Benefit payable immediately.

Early Retirement

Eligibility For employees hired prior to January 1, 2011 and terminating with less than 20 years of service
For employees hired after or on January 1, 2011 who has attained age 50 and has 10 years of service.

Benefit For those hired prior to January 1, 2011 a reduced Accrued Benefit shall be paid at age 60 based on the schedule below.
For those hired after or on January 1, 2011 the Accrued Benefit is reduced by 0.5% for each month prior to age 55.

Benefit Service	Accrual Percentage	Benefit Service	Accrual Percentage
10	15.0%	15	30.0%
11	17.6%	16	33.6%
12	20.4%	17	37.4%
13	23.4%	18	41.4%
14	26.6%	19	45.6%

Termination	Eligibility	Participants terminating before 20 years of service.	Benefit	Refund of Contributions
Disability In The Line of Duty	Eligibility	For participants who become disabled in the line of duty.	Benefit	The greater of 65% of the final salary or the accrued benefit
Disability Not In The Line of Duty	Eligibility	For participants who become disabled outside of the line of duty.	Benefit	50% of the final salary
Death In the Line of Duty	Eligibility	For participants who die in the line of duty.	Benefit	The benefit is 100% of final salary paid to the survivor.*
Death Not In the Line of Duty	Eligibility	For participants who die outside of the line of duty.	Benefit	For those hired before 1/1/2011 with greater than 20 years of service, a benefit of 100% of the accrued benefit is paid to the survivor. For those with more than 10 years of service, but less than 20 years of service, a benefit of 54% of the final salary is paid to the survivor.
Compensation		Final Salary is the salary attached to the rank held on the last day of service, or one year prior to the last day, whichever is greater.		Final Average Salary is the average monthly salary obtained by dividing the total salary of the firefighter during the 48 consecutive months of service within the last 60 months of service in which the total salary was the highest by the number of months of service in that period. Salary will not exceed \$106,800 adjusted from January 1, 2011 with the lesser of 3% and 100% of the CPI on November 1.

Credited Service

For Vesting and Benefit Accrual purposes, pension service credit is based on elapsed time from hire.

Employee Contributions

9.455% of Compensation

COLA

Eligibility

Benefit

For employees hired prior to January 1, 2011 a compound COLA of 3% is granted each year after attainment of age 55 and 1 year of payments.

For employees hired after or on January 1, 2011 a simple COLA of the lesser of 3% and 50% of the CPI on November 1 is granted each year after attainment of age 60 and 1 year of payments.

For disabled employees, a simple COLA is available after attainment of age 60 and 1 year of payments. For employees hired prior to January 1, 2011 the COLA is 3%. For employees hired after January 1, 2011, the COLA is the lesser of 3% and 50% of the CPI on November 1.

Plan Provisions Not Included

We are not aware of any plan provisions not included in the valuation

Adjustments Made for Subsequent Events

We are not aware of any event following the measurement date and prior to the date of this report that would materially impact the results of this report.

Village of Romeoville Firefighters' Pension Fund
Actuarial Valuation as of May 1, 2020
Actuarial Assumptions

Except where otherwise indicated, the following assumptions were selected by the plan sponsor with the concurrence of the actuary. Prescribed assumptions are based on the requirements of the relevant law and applicable regulations. The actuary was not able to evaluate the prescribed assumptions for reasonableness for the purpose of the measurement.

Valuation Date	May 1, 2020
Participant and Asset Information Collected as of	May 1, 2020
Actuarial Cost Method (CO)	Entry Age Normal Cost Method
Amortization Method – Funding Policy Contribution (CO)	Closed level percentage of payroll amortization of 100% of the Unfunded Actuarial Accrued Liability using a 4.00% payroll growth assumption over the period ending on April 30, 2041 (21-year amortization in 2020)
Asset Method	5-year smoothing of asset gains and losses
Interest Rates (CO)	7.00%, net of investment expenses
Inflation (FE)	2.50%
Annual Pay Increases (FE)	5.50%
Ad-hoc Cost-of-living Increases	3.0% (1.25% for those hired after 1/1/2011)
Mortality Rates (FE)	RP-2014 Mortality Table with blue collar adjustment, with improvement scale MP-2019 Applied generationaly from 2013
Healthy	115% of the healthy mortality table, with improvement scale MP-2019 applied generationaly from 2013
Disabled	20% of deaths are assumed to be in the line of duty

Village of Romeoville Firefighters' Pension Fund
Actuarial Valuation as of May 1, 2020
Actuarial Assumptions

Retirement Rates (FE)

Recommended rates from the 2017 IDOI experience study.

Age	Tier I	Rate	Tier II	Age	Rate
50-51		10%		50-54	3%
52-53		12%		55	30%
54-55		15%		56-59	20%
56-59		20%		60-62	25%
60-62		25%		63-64	33%
63-64		33%		65-69	50%
65-69		50%		70+	100%
70+		100%			

Disability Rates (FE)

Recommended rates from the 2017 IDOI experience study. Sample rates include:

Age	Rate
20	0.010%
30	0.068%
40	0.420%
50	0.900%

80% of disabilities are assumed to be in the line of duty

Recommended rates from the 2017 IDOI experience study. Sample rates include:

Age	Rate
20	5.80%
30	3.50%
40	1.10%
50	1.00%

80% of participants are assumed to be married with female spouses 3 years younger.

Equal to the administrative expenses paid in the prior year.

Equal to the normal cost plus an amortization of the unfunded liability to fund the plan to 100% as a level percentage of payroll by 2041 using the Entry Age Normal cost method.

FE indicates an assumption representing an estimate of future experience
 MD indicates an assumption representing observations of estimates inherent in market data
 CO indicates an assumption representing a combination of an estimate of future experience and observations of market data

The actuarial report also shows the necessary items required for plan reporting and the any state requirements.

- ✓ Minimum contribution (Public Act 096-1495 Tax Levy Requirement)

Village of Romeoville Firefighters' Pension Fund
 Actuarial Valuation as of May 1, 2020
 Other Measurements

Minimum Contribution (Public Act 096-1495 Tax Levy Requirement)

	May 1, 2020
1. Accrued liability using projected unit credit cost method	\$ 11,983,861
2. 90% of Accrued liability	\$ 10,785,475
3. Actuarial value of assets	<u>11,072,681</u>
4. Unfunded liability to be amortized [(2)-(3)]	<u>\$ (287,206)</u>
5. Total normal cost using projected unit credit cost method	<u>\$ 611,772</u>
6. Administrative expenses	35,421
7. 20-year level pay amortization of (4)	<u>(18,564)</u>
8. Applicable interest	<u>22,002</u>
9. Minimum contribution (5 + 6 + 7 + 8)	<u>\$ 650,631</u>
10. Expected employee contributions	<u>235,683</u>
11. Net employer minimum contribution (9 – 10)	<u>\$ 414,948</u>

Actuarial Cost Method

Amortization Method

Asset Method

Interest Rate

Projected Unit Credit

Closed level percentage of payroll amortization of 90% of Unfunded Actuarial Accrued Liability using a 4.00% payroll growth assumption over the period ending on April 30, 2040 (20-year amortization in 2020)

5-year smoothing of asset gains and losses

7.00%, net of investment expenses

ROMEOVILLE FIREFIGHTERS PENSION FUND
Actuarial Valuation Report

**Showing Assets and Liabilities of the Fund in
 Accordance with Actuarial Reserve Requirements
 as of May 1, 2020**

Summary

Accrued Liability	\$13,414,242
Actuarial Value of Assets	<u>\$10,961,489</u>
Unfunded Accrued Liability	\$2,452,753

Funded Ratio	82%
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Liabilities

Reserves for Annuities and Benefits in Force

	Head Count:	Present Value:
Retirement Annuities	6	5,909,657
Disability Annuities	0	0
Surviving Spouse Annuities	0	0
Minor Dependent Annuities	0	0
Deferred Retirement Annuities	2	1,025,256
Handicapped Dependent Annuities	0	0
Dependent Parent Annuities	0	0
Terminated Liabilities	<u>2</u>	<u>21,549</u>
Total:	10	\$6,956,462

Accrued Liabilities for Active Members	25	\$6,457,780
Total Accrued Liabilities		<u>\$13,414,242</u>
Total Normal Cost for Active Members		\$676,224
Total Normal Cost as a Percentage of Payroll		28%

Total Annual Payroll	\$2,397,381
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Amortization of Unfunded Liabilities:

Total Accrued Liability	\$13,414,242
90% Funded Ratio Target	\$12,072,818
Actuarial Value of Assets	\$10,961,489
Liabilities Subject to Amortization	\$1,111,329
Amortization Period	20 years
Amortization Payment, Beginning of Year	\$71,915

This report is provided to the Board and Municipality as part of the Public Pension Division advisory services under Section 1A-106 of the Illinois Pension Code. This report should not be relied upon for purposes other than determining the current tax levy required under the Illinois Pension Code. The assumptions have been set based on expectations for all Article 4 funds in the State of Illinois. The actuarial methods are prescribed by the Illinois Pension Code and do not necessarily represent the approach recommended by either the actuary or the Department of Insurance. This report was prepared under the direct supervision of the undersigned:

Brad Lee Armstrong (Enrolled Actuary #17-5614)
 Lance Weiss (Enrolled Actuary #17-2468)
 GRS

Deputy Director
 Public Pension Division
 Illinois Department of Insurance

ROMEOVILLE FIREFIGHTERS PENSION FUND
Actuarial Valuation Report

Assets

Actuarial Value of Assets

Current Year Gain/(Loss):

Market value of assets as of April 30, 2019	\$10,039,040
Benefit payments during fiscal year 2020	(311,162)
Administrative expense during fiscal year 2020	(35,421)
Total contributions during fiscal year 2020	655,868
Expected return during fiscal year 2020	662,589
Expected market value of assets as of April 30, 2020	<hr/> \$11,010,914

Actual market value of assets as of April 30, 2020	\$10,399,112
Investment gain/(loss) during the fiscal year	(\$611,802)

Development of Actuarial Value of Assets (market value less unrecognized amounts):

Market value of assets as of April 30, 2020	\$10,399,112
Unrecognized gain/(loss) from fiscal 2020	(489,442)
Unrecognized gain/(loss) from fiscal 2019	(815)
Unrecognized gain/(loss) from fiscal 2018	(66,740)
Unrecognized gain/(loss) from fiscal 2017	(5,380)
Actuarial value of assets as of April 30, 2020	<hr/> \$10,961,489

Actuarially Determined Employer Contributions

Actuarially determined amount to provide the employer normal cost based on the annual payroll of active participants as of May 1, 2020.	\$449,552
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Amount necessary to amortize the unfunded accrued liability as determined by the State of Illinois Department of Insurance over the remaining 20 years as prescribed by Section 4-118 of the Illinois Pension Code.	\$71,915
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Interest to the end of the fiscal year.	\$33,895
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Total suggested amount of employer contributions to arrive at the annual requirements of the fund as prescribed by Section 4-118 of the Illinois Pension Code. *	\$555,362
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*The above figure is the suggested amount which should be obtained by the fund from the municipality exclusive of any other items of income, such as interest on investments, contributions from participants, etc. These items have already been taken into consideration in arriving at this amount.

ROMEOVILLE FIREFIGHTERS PENSION FUND
Actuarial Valuation Report

Actuarial Information

The following methods have been prescribed in accordance with Section 4-118 of the Illinois Pension Code.

Funding method

Projected Unit Credit

Amortization method

Normal cost, plus an additional amount (determined as a level percentage of payroll) to bring the plan's funded ratio to 90% by the end of fiscal year 2040.

Asset valuation method

Investment gains and losses are recognized over a 5-year period.

Actuarial Assumptions

Interest rate	6.50%
Interest rate, prior fiscal year	6.50%
Healthy mortality rates - Male	RP-2014 Healthy Annuitant with Blue Collar Adjustment, males
Healthy mortality rates - Female	RP-2014 Healthy Annuitant with Blue Collar Adjustment, females
Disability mortality rates - Male	115% of RP-2014 Healthy Annuitant with Blue Collar Adjustment, males
Disability mortality rates - Female	115% of RP-2014 Healthy Annuitant with Blue Collar Adjustment, females
Decrements other than mortality	Experience tables
Rate of service-related deaths	20%
Rate of service-related disabilities	80%
Salary increases	Service-related table with rates grading from 12.50% to 3.50% at 31 years of service
Payroll growth	3.50%
Tier 2 cost-of-living adjustment	1.25%
Marital assumptions for active members	80% of members are assumed to be married; male spouses are assumed to be 3 years older than female spouses.

The actuarial assumptions used for determining the above amounts are based on experience for all Article 4 funds for the State of Illinois in aggregate. The Department of Insurance has approved the above actuarial assumptions. Contact the Department of Insurance for complete experience tables.

Data and Fund Information

The above valuation uses personnel data as reported to the Department of Insurance in the Schedule P. Specifically, the following data items have been determined as of the date of the Actuarial Valuation Report: attained age, annual salary or pension, completed years of service of each individual participant.

The fund specific information used in the production of this document was provided to the Department of Insurance by your pension fund board of trustees through the fund's annual statement filing.

Additional critical information regarding actuarial assumptions and methods, and important actuarial disclosures are provided in the Actuarial Valuation Report Disclosures Document located on the following Illinois DOI Website (<https://insurance.illinois.gov/Applications/Pension/FOIAReporting/FOIAPortal.aspx>)