# TCDRS <br> RETIREMENT PRESENTATION 

FY2022 Budget Workshop

## BENEFITS PROVIDED

- Employee Deposit Rate 7\%
- Matching Rate

200\%*

- Vesting Period

8 years

- Retirement Eligibility
- Age 60 \& 8 years of service
- At any age with 30 years of service
- Age + years of service $=75$
- Guaranteed Interest Rate 7\%
*For employee contributions made on or after 1/1/2011.


## COUNTY COMPARISON

| County | Employee <br> Contribution <br> $\%$ | County <br> Match \% | Years of <br> Service for <br> Vesting | Retirement <br> Eligibility <br> Rule | Most Recent <br> Retiree <br> COLA | Type and <br> Rate of <br> Retiree COLA | Group Term <br> Life Benefit |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Collin | 7 | 200 | 8 | 75 | 2018 | CPI $40 \%$ | No |
| Bexar* | 7 | 200 | 8 | 75 | 2018 | CPI $10 \%$ | No |
| Dallas | 7 | 200 | 10 | 80 | - | - | No |
| Denton* | 7 | 225 | 8 | 75 | 2017 | CPI 80\% | Active |
| El Paso* | 7 | 250 | 8 | 75 | 2016 | Flat $1 \%$ | No |
| Fort Bend | 7 | 200 | 8 | 75 | 2014 | CPI $10 \%$ | No |
| Harris | 7 | 225 | 8 | 75 | - | - | No |
| Hidalgo* | 7 | 200 | 8 | 75 | 2019 | Flat $2 \%$ | No |
| Montgomery | 6 | 250 | 8 | 75 | 2017 | CPI $10 \%$ | No |
| Tarrant | 7 | 200 | 8 | 75 | 2021 | Flat $1 \%$ | No |
| Travis | 7 | 225 | 8 | 75 | 2019 | CPI $50 \%$ | No |
| Williamson | 7 | 250 | 8 | 75 | 2019 | Flat $1 \%$ | No |

*Allows 20 years of service for retirement at any age, all others require 30 years of service for retirement at any age.

## CITY COMPARISON

| City | Employee Contribution \% | City <br> Match \% | Years of Service for Vesting | Retirement Eligibility Rule | Rate of Retiree COLA** | Retiree Death Benefit |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Allen | 7 | 200 | 5 | Age 60+5 yrs. | CPI 70\% | Active \& Retiree |
| Frisco | 7 | 200 | 5 | Age 60+5 yrs. | CPI 70\% | Active \& Retiree |
| McKinney | 7 | 200 | 5 | Age 60+5 yrs. | CPI 70\% | Active \& Retiree |
| Plano | 7 | 200 | 5 | Age 60+5 yrs. | CPI 70\% | No |
| Richardson* | 7 | 200 | 5 | Age 60+5 yrs. | CPI 50\% | No |
| Wylie | 7 | 200 | 5 | Age 60+5 yrs. | CPI 70\% | Active \& Retiree |

*Requires 25 years of service for retirement at any age, all others require 20 years of service.
**All surveyed cities have adopted a repeating COLA that remains in effect until rescinded.

## PORTFOLIO RATE OF RETURN - TCDRS

| Year | Return |
| :---: | :---: |
| 2011 | $-1.2 \%$ |
| 2012 | $12.6 \%$ |
| 2013 | $16.4 \%$ |
| 2014 | $6.8 \%$ |
| 2015 | $-0.7 \%$ |
| 2016 | $7.5 \%$ |
| 2017 | $14.7 \%$ |
| 2018 | $-1.9 \%$ |
| 2019 | $16.6 \%$ |
| 2020 | $10.5 \%$ |


| Total Fund Return |  |  |
| :---: | :---: | :---: |
|  | As of $12 / 2020$ | As of $12 / 2019$ |
| 1 year | $10.5 \%$ | $16.6 \%$ |
| 3 years | $8.1 \%$ | $9.5 \%$ |
| 5 years | $9.3 \%$ | $7.0 \%$ |
| 10 years | $7.9 \%$ | $8.1 \%$ |
| 20 years | $7.2 \%$ | $7.2 \%$ |
| 30 years | $8.1 \%$ | $8.0 \%$ |
|  |  |  |

# 10 YEAR RATE OF RETURN (ILLUSTRATION ONLY) - TCDRS 

| Year | Required Account Value | Required Rate of Return | Required Ending Balance | Actual Account Value | Actual Rate of Return | Actual Ending Balance |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2011 | \$1,000 | \$80 | \$1,080 | \$1,000 | -\$12 | \$988 |
| 2012 | \$1,080 | \$86 | \$1,166 | \$988 | \$124 | \$1,112 |
| 2013 | \$1,166 | \$93 | \$1,259 | \$1,112 | \$182 | \$1,294 |
| 2014 | \$1,259 | \$101 | \$1,360 | \$1,294 | \$88 | \$1,382 |
| 2015 | \$1,360 | \$109 | \$1,469 | \$1,382 | -\$10 | \$1,372 |
| 2016 | \$1,469 | \$118 | \$1,587 | \$1,372 | \$103 | \$1,475 |
| 2017 | \$1,587 | \$127 | \$1,714 | \$1,475 | \$217 | \$1,692 |
| 2018 | \$1,714 | \$137 | \$1,851 | \$1,692 | -\$32 | \$1,660 |
| 2019 | \$1,851 | \$148 | \$1,999 | \$1,660 | \$276 | \$1,936 |
| 2020 | \$1,999 | \$160 | \$2,159 | \$1,936 | \$203 | \$2,139 |

# 10 YEAR RATE OF RETURN (ILLUSTRATION ONLY) - TCDRS 


$\$ 500$


## 5 YEAR RATE OF RETURN (ILLUSTRATION ONLY) - TCDRS

| Year | Required Account <br> Value | Required Rate of <br> Return | Required Dinding <br> Balance | Actual Account <br> Value | Actual Rate of <br> Return | Actual Ending <br> Balance |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2016 | $\$ 1,000$ | $\$ 80$ | $\$ 1,080$ | $\$ 1,000$ | $\$ 75$ | $\$ 1,075$ |
| 2017 | $\$ 1,080$ | $\$ 86$ | $\$ 1,166$ | $\$ 1,075$ | $\$ 158$ | $\$ 1,233$ |
| 2018 | $\$ 1,166$ | $\$ 93$ | $\$ 1,259$ | $\$ 1,233$ | $-\$ 23$ | $\$ 1,210$ |
| 2019 | $\$ 1,259$ | $\$ 101$ | $\$ 1,360$ | $\$ 1,210$ | $\$ 201$ | $\$ 1,411$ |
| 2020 | $\$ 1,360$ | $\$ 109$ | $\$ 1,469$ | $\$ 1,411$ | $\$ 148$ | $\$ 1,559$ |

# 5 YEAR RATE OF RETURN (ILLUSTRATION ONLY) - TCDRS 



## PORTFOLIO RATE OF RETURN - TMRS

| Year | Refurn |
| :---: | :---: |
| 2011 | $2.4 \%$ |
| 2012 | $10.1 \%$ |
| 2013 | $9.9 \%$ |
| 2014 | $6.0 \%$ |
| 2015 | $0.3 \%$ |
| 2016 | $7.4 \%$ |
| 2017 | $14.3 \%$ |
| 2018 | $-2.1 \%$ |
| 2019 | $15.0 \%$ |
| 2020 | $7.7 \%$ |


| Total Fund Return |  |  |
| :---: | :---: | :---: |
|  | As of $12 / 2020$ | As of $12 / 2019$ |
| 1 year | $7.7 \%$ | $15.0 \%$ |
| 3 years | $6.5 \%$ | $8.8 \%$ |
| 5 years | $8.0 \%$ | $6.8 \%$ |
| 10 years | $6.7 \%$ | $7.1 \%$ |

## RATE OF RETURN (ILLUSTRATION ONLY) - TMRS



[^0]
# PORTFOLIO RATE OF RETURN COMPARISON 

| Year | TCDRS <br> Return | TMRS <br> Return |
| :---: | :---: | :---: |
| 2011 | $-1.2 \%$ | $2.4 \%$ |
| 2012 | $12.6 \%$ | $10.1 \%$ |
| 2013 | $16.4 \%$ | $9.9 \%$ |
| 2014 | $6.8 \%$ | $6.0 \%$ |
| 2015 | $-0.7 \%$ | $0.3 \%$ |
| 2016 | $7.5 \%$ | $7.4 \%$ |
| 2017 | $14.7 \%$ | $14.3 \%$ |
| 2018 | $-1.9 \%$ | $-2.1 \%$ |
| 2019 | $16.6 \%$ | $15.0 \%$ |
| 2020 | $10.5 \%$ | $7.7 \%$ |

Total fund return as of 12/2020

|  | TCDRS | TMRS |
| :---: | :---: | :---: |
| 1 year | $10.5 \%$ | $7.7 \%$ |
| 3 years | $8.1 \%$ | $6.5 \%$ |
| 5 years | $9.3 \%$ | $8.0 \%$ |
| 10 years | $7.9 \%$ | $6.7 \%$ |

## COST

| Year | Normal Rate (\%) | UAAL Rate (\%) | COLA Rate (\%) | Total (\%) | County Contribution (\%) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 2013 | 7.56 | 0.45 | . 05 | 8.01 | 8.50 (original) |
| 2013 | 7.56 | 0.00 | . 05 | 7.61 | 8.50 (revised) |
| Made a lump sum payment of \$11,608,062 in November 2013 |  |  |  |  |  |
| 2014 | 7.55 | 0.51 | . 00 | 8.06 | 8.50 (original) |
| 2014 | 7.55 | 0.00 | . 00 | 7.55 | 8.50 (revised) |
| 2015 | 7.43 | -1.22 | . 00 | 6.21 | 8.00 |
| 2016 | 7.44 | -1.73 | . 00 | 5.71 | 8.00 |
| 2017 | 7.08 | -0.86 | . 00 | 6.22 | 8.00 |
| Made a lump sum payment of \$2,471,616 in December 2017 |  |  |  |  |  |
| 2018 | 7.09 | -0.32 | . 00 | 6.77 | 8.00 |
| Made a lump sum payment of \$1,160,641 in October 2018 |  |  |  |  |  |
| 2019 | 6.94 | 0.01 | . 00 | 6.95 | 8.00 |
| Made a lump sum payment of \$13,274,348 in November 2019 |  |  |  |  |  |
| 2020 | 6.93 | 0.91 | . 00 | 7.84 | 8.00 |
| Made a lump sum payment of \$3,800,554 in August 2020 |  |  |  |  |  |
| 2021 | 6.91 | -0.05 | . 00 | 6.86 | 8.00 |
| 2022 | 8.47 | 1.39 | . 00 | 9.86 | 8.00* (budgeted) |

* Lump sum payment will be required to continue at $8 \%$.


## TCDRS CHANGES

- Reduced the investment return assumption to $7.5 \%$ beginning in 2021.
- Rate mitigation - Distributed $\$ 800$ million from reserves.
- Reamortized entities unfunded liabilities over 20 years.


## COUNTY RATE COMPARISON

| County | 2021 Required Rate | 2021 Hlected Rate | 2022 Required Rate |
| :---: | :---: | :---: | :---: |
| Collin | 6.86\% | 8.00\% | 9.86\% |
| Bexar | 13.63\% | 13.86\% | 14.44\% |
| Dallas | 13.09\% | N/A | 13.93\% |
| Denton | 13.61\% | N/A | 14.62\% |
| El Paso | 18.01\% | N/A | 18.63\% |
| Fort Bend | 12.33\% | N/A | 13.45\% |
| Harris | 14.61\% | 15.10\% | 15.70\% |
| Hidalgo | 12.50\% | N/A | 13.03\% |
| Montgomery | 10.90\% | 12.27\% | 12.71\% |
| Tarrant | 13.50\% | 19.50\% | 13.86\% |
| Travis | 16.08\% | 16.19\% | 17.17\% |
| Williamson | 14.56\% | N/A | 16.00\% |

## CITY RATE COMPARISON

| City | 2021 Required Rate | 2022 Required Rate |
| :---: | :---: | :---: |
| Allen | $14.51 \%$ | $14.30 \%$ |
| Frisco | $14.54 \%$ | $14.36 \%$ |
| McKinney | $15.04 \%$ | $15.13 \%$ |
| Plano | $16.68 \%$ | $16.35 \%$ |
| Richardson | $14.80 \%$ | $14.07 \%$ |
| Wylie | $15.50 \%$ | $15.39 \%$ |

TMRS does not have elected rates. Cities contribute the required rate but have the option to make additional payments during the year.

## EMPLOYER CONTRIBUTIONS

| Calendar Year | Payment Type | Total Employer Deposits | Contributing Employees | Cost Per Eimployee |
| :---: | :---: | :---: | :---: | :---: |
| 2011 | Standard Payment Lump Sum Payment | $\begin{aligned} & \$ 11,699,770 \\ & \$ 35,500,000 \end{aligned}$ | 1790 | $\begin{gathered} \$ 6,536 \\ \$ 19,832 \end{gathered}$ |
| 2012 | Standard Payment Lump Sum Payment | $\begin{aligned} & \$ 6,702,402 \\ & \$ 2,045,000 \end{aligned}$ | 1811 | $\begin{aligned} & \$ 3,701 \\ & \$ 1,129 \end{aligned}$ |
| 2013 | Standard Payment Lump Sum Payment | $\begin{gathered} \$ 7,437,259 \\ \$ 11,608,062 \end{gathered}$ | 1824 | $\begin{aligned} & \$ 4,077 \\ & \$ 6,364 \end{aligned}$ |
| 2014 | Standard Payment | \$7,222,299 | 1848 | \$3,908 |
| 2015 | Standard Payment | \$7,368,276 | 1854 | \$3,974 |
| 2016 | Standard Payment | \$7,652,829 | 1898 | \$4,032 |
| 2017 | Standard Payment Lump Sum Payment | $\begin{aligned} & \$ 8,045,603 \\ & \$ 2,471,616 \end{aligned}$ | 1943 | $\begin{aligned} & \$ 4,141 \\ & \$ 1,272 \end{aligned}$ |
| 2018 | Standard Payment Lump Sum Payment | $\begin{aligned} & \$ 8,721,011 \\ & \$ 1,160.641 \end{aligned}$ | 1943 | $\begin{gathered} \$ 4,488 \\ \$ 597 \end{gathered}$ |
| 2019 | Standard Payment Lump Sum Payment | $\begin{gathered} \$ 8,839,887 \\ \$ 13,274,384 \end{gathered}$ | 2010 | $\begin{aligned} & \$ 4,398 \\ & \$ 6,604 \end{aligned}$ |
| 2020 | Standard Payment Lump Sum Payment | $\begin{aligned} & \$ 9,826,263 \\ & \$ 3,800,554 \end{aligned}$ | 1986 | $\begin{aligned} & \$ 4,948 \\ & \$ 1,914 \end{aligned}$ |
| 2011-2020 | Total Payments | \$153,375,856 | 1891 | \$81,108 |

## UNFUNDED LIABILITY UPDATE

- As of December 2020, our plan has $\$ 21,536,178$ of unfunded liability using the Five-year Asset Recognition method which is a funded ratio of 96.8\%.
- If an Immediate Asset Recognition method were used instead of a delayed asset recognition the unfunded liability would be $\$ 24,080,153$, which is a funded ratio of $96.4 \%$.
- The minimum required contribution rate for 2022 is $9.86 \%$.
- TCDRS exceeded their investment return goal of $8 \%$ for 2020. Actual return was $10.5 \%$.
- Actuarial gains and losses are smoothed over 5 years and will be recognized over time.


## LIABILITY HISTORY

| Calendar Year End | Budget Year | Five-year Asset Recognition Unfunded Liability | Five-year Asset Recognition Funded Percentage | Immediate Asset Recognition Unfunded Liability | Immediate Asset Recognition Funded Percentage |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 2011 | 2013 | \$2,044,817 | 99.0\% | \$30,199,573 | 90\% |
| Made a lump sum payment of \$35,500,000 in October 2011 |  |  |  |  |  |
| 2012 | 2014 | \$2,794,438 | 99.1\% | \$11,608,062 | 96\% |
| Made a lump sum payment of \$2,045,000 in October 2012 |  |  |  |  |  |
| 2013 | 2015 | (\$14,704,583) | 104.5\% | (\$32,286,282) | 109.8\% |
| Made a lump sum payment of \$11,608,062 in November 2013 |  |  |  |  |  |
| 2014 | 2016 | (\$21,504,628) | 106.2\% | (\$27,012,753) | 107.8\% |
| 2015 | 2017 | (\$11,689,647) | 103.1\% | \$23,468,041 | 93.7\% |
| 2016 | 2018 | (\$4,076,091) | 100.8\% | \$22,292,175 | 95.5\% |
| 2017 | 2019 | \$1,160,641 | 99.8\% | \$3,114,182 | 99.4\% |
| Made a lump sum payment of \$2,471,616 in December 2017 (paid to fund COLA) |  |  |  |  |  |
| 2018 | 2020 | \$13,274,348 | 97.6\% | \$60,434,843 | 89\% |
| Made a lump sum payment of \$1,160,641 in October 2018 |  |  |  |  |  |
| 2019 | 2021 | \$267,254 | 100.0\% | \$3,800,554 | 99.4\% |
| Made a lump sum payment of \$13,274,348 in November 2019 |  |  |  |  |  |
| 2020 | 2022 | \$21,536,178 | 96.8\% | \$24,080,153 | 96.4\% |
| Made a lump sum payment of $\$ 3,800,554$ in August 2020 |  |  |  |  |  |

## UNFUNDED LIABILITY

| Actual Unfunded Liability as of 12/31/2019 | \$267,254 |
| :--- | :---: |
| Adjustment due to Decrease in Discount Period | $\$ 302,903$ |
| Scheduled OAAL Drawdown | $(\$ 218,851)$ |
| Recognition of Investment Gains and Losses for 2016-2020 (Using the Five-year Recognition Method) | $\$ 938,067$ |
| Gain due to Additional Employer Contributions (Elected Rate greater than Required Rate) | $(\$ 1,326,544)$ |
| Gain due to Additional Employer Contributions (Lump Sum Contribution) | $(\$ 3,800,554)$ |
| Loss due to changes in Assumptions \& Methods | $\$ 25,257,661$ |
| Loss due to payroll and salary increase variations | $\$ 1,574,395$ |
| Gain due to Termination and Withdrawal Experience | $(\$ 437,598)$ |
| Gain due to Retirements Different than Expected (Includes disability) | $(\$ 60,197)$ |
| Gain due to Less than Expected Retiree Mortality | $(\$ 1,099,343)$ |
| Net Actuarial Gain from All Other Sources (Active death, proportionate service, etc.) | $\$ 138,985$ |
| Actual Underfunded Liability as of $12 / 31 / 2020$ | $\$ 21,536,178$ |

## UNFUNDED LIABILITY HISTORY

|  | 2015 | 2016 | 2017 | 2018 | 2019 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Actual Over/Underfunded Liability as of December 31 | \$11,690,000 | \$4,076,000 | (\$1,161,000) | (\$13,274,000) | \$267,254 |
| Adjustment due to Decrease in Discount Period | \$935,000 | \$326,000 | $(\$ 93,000)$ | $(\$ 1,062,000)$ | \$302,903 |
| Scheduled OAAL Drawdown | (\$1,248,000) | (\$841,000) | (\$200,000) | $(\$ 42,000)$ | $(\$ 218,851)$ |
| Recognition of Investment Gains and Losses for Previous Five Years (Using the Five-year Recognition Method) | (\$11,370,000) | (\$2,817,000) | $(\$ 12,392,000)$ | (\$821,000) | \$938,067 |
| Gain/Loss due to Additional Employer Contributions (Elected Rate greater than Required Rate) | \$2,121,000 | \$1,737,000 | \$1,302,000 | \$1,238,000 | $(\$ 1,326,544)$ |
| Gain/Loss due to Additional Employer Contributions (Lump Sum Contribution) |  | \$2,472,000 | \$1,161,000 | \$13,274,000 | (\$3,800,554) |
| Gain/Loss due to Adoption of 40\% CPI-based COLA |  | (\$2,472,000) |  |  |  |
| Gain/Loss due to Change in Actuarial Assumptions and Methods |  | (\$3,189,000) |  |  | \$25,257,661 |
| Gain/Loss due to Greater/Less than Expected Salary Increases | (\$590,000) | $(\$ 605,000)$ | (\$1,113,000) | (\$303,000) | \$1,574,395 |
| Gain/Loss due to Greater/Less than Expected Terminations and Withdrawals | \$956,000 | $(\$ 75,000)$ | \$190,000 | \$611,000 | (\$437,598) |
| Gain/Loss due to Retirements Different than Expected (Includes Disability) | \$250,000 | \$424,000 | \$7,000 | \$329,000 | $(\$ 60,197)$ |
| Gain/Loss due to Greater/Less than Expected Retiree Mortality | \$439,000 | (\$197,000) | $(\$ 975,000)$ | (\$143,000) | (\$1,099,343) |
| Net Actuarial Gain/Loss from All Other Sources (Active Death, Proportionate Service, Etc.) | \$893,000 | \$0 | \$0 | (\$74,000) | \$138,985 |
| Actual Under/Overfunded Liability as of December 31 the Following Year | \$4,076,000 | (\$1,161,000) | $(\$ 13,274,000)$ | (\$267,000) | \$21,536,178 |

## GASB STATEMENT 68

- Requires Collin County to report TCDRS pension liability/assets on the CAFR.
- Reporting requirements do not change how TCDRS plan funding is calculated.
- Any significant volatility experienced in pension liability will be reflected on the CAFR.
- Repeating Cost of Living Adjustments (COLAs) increase the calculated rate of financial reporting, as they assume annual COLAs for all plan participants continuously into the future and require this pension liability to be reported on the CAFR.
- The repeating COLA designation has no effect on the plan funding. It does not impact the plan's funded ratio or the required contribution rate, which are calculated for the purpose of funding the plan.


## COST OF LIVING ADJUSTMENT (COLA)

- The TCDRS retirement benefit is a fixed benefit payment.
- The costs of goods and services, such as health care expenses, may go up each year due to inflation.
- A Cost of Living Adjustment (COLA) restores some of the purchasing power that the benefit loses over time.
- Electing a COLA is only effective for one plan year and is reassessed on a year-to-year basis. Court determines if a cost of living increase will be awarded each year. There are three options:
- Flat Rate COLA: Flat percentage increase is applied to all retiree benefits.
- CPI-based COLA: Based on how much inflation has occurred since each employee retired. Adjustments for one retiree could differ from that of another retiree if they retired at different times.
- No COLA.


## RETIREE COLA

- COLAs are funded over a 15 -year period.
- Collin County has historically adopted various COLA options including:
- $40 \%$ to $100 \%$ of CPI
- 1\%-8\% Flat Rate
- No COLA
- The last COLA adopted was 40\% CPI, which was approved for plan year 2018.
- As of the end of December 2020, there were 889 individuals collecting TCDRS benefits, an increase of 40 since the prior year. 391 active employees were eligible to retire, and 349 additional employees will be eligible to retire in the next 5 years.

Pre-funded cost to add COLA in 2021:

| Type of COLA | Pre-fund Cost |
| :---: | :---: |
| $40 \%$ of CPI | $\$ 6,585,655$ |
| $60 \%$ of CPI | $\$ 12,377,197$ |
| $80 \%$ of CPI | $\$ 18,493,773$ |
| $1 \%$ Flat Rate | $\$ 2,712,116$ |

## ALTERNATE RATE OPTIONS

|  | Current | Option 1 | Option 2 | Option 3 | Option 4 |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Required Rate | $9.86 \%$ | $9.50 \%$ | $9.01 \%$ | $7.95 \%$ | $7.07 \%$ |
| Lump Sum Required | N/A | $\$ 6,200,000$ | $\$ 14,500,000$ | $\$ 35,000,000$ | $\$ 55,000,000$ |
| Funded Ratio | $96.8 \%$ | $97.7 \%$ | $98.8 \%$ | $101.6 \%$ | $104.4 \%$ |
| Unfunded/ <br> (Overfunded) Liability | $\$ 21,536,178$ | $\$ 15,768,736$ | $(\$ 8,047,806)$ | $(\$ 11,021,962)$ | $(\$ 29,626,613)$ |

## Additional Options:

- Paying the unfunded liability using Five-year Asset Recognition of $\$ 21,536,178$ will decrease the required rate to $8.60 \%$.
- Paying the unfunded liability from the Immediate Asset Recognition method of $\$ 24,080,153$ will decrease the required rate to $8.46 \%$.


# COURT DETERMINATION BUDGET INFORMATION 

- Employer contribution rate
- Payment of any lump sum contribution for unfunded liability
- Determination of any retiree COLA


[^0]:    - $6.75 \%$ return required to cover guaranteed return for employee accounts

