CITY OF HOLLY HILL POLICE OFFICERS' RETIREMENT TRUST FUND

ACTUARIAL VALUATION AS OF OCTOBER 1, 2001

CONTRIBUTIONS APPLICABLE TO THE CITY'S FISCAL YEAR ENDED SEPTEMBER 30, 2002

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SECTION I

SUMMARY OF REPORT

The regular annual actuarial valuation of the City of Holly Hill Police Officers' Retirement Trust Fund, performed as of October 1, 2001, has been completed and the results are presented in this Report. The contribution amounts set forth herein are applicable to the City's fiscal year ended September 30, 2002.

The contribution requirements, compared with those set forth in the October 1, 2000 actuarial valuation, are as follows:

	<u>10/1/01</u>	<u>10/1/00</u>
Total Required Contribution	\$238,278	\$148,674
% of Total Annual Payroll	27.4%	20.0%
Member Contributions (Est.)	97,569	83,430
Member Contributions by City (Est.)	69,692	59,593
Applicable State Contribution	45,613	45,177
Balance from City	25,404	0
% of Total Annual Payroll	2.9%	0.0%

As can be seen, the Total Required Contribution has increased both in dollar amount and when expressed as a percentage of Total Annual Payroll. These increases are attributable to net unfavorable actuarial experience during the past year. The principal component of actuarial losses was a –14.3% investment return (Market Value basis) which was less than the 8.0% assumption.

2

In connection with this year's actuarial valuation, a change was made in the

method used to develop Actuarial Assets. Specifically, the use of pure market value

has been replaced by a method that considers the investment returns for the most re-

cent four years. The technique has the effect of smoothing out returns over a market

cycle and producing costs that are more stable and predictable. Additionally, the actu-

arial method of cost determination has been changed from the Frozen Initial Liability

Method to the Aggregate Method, and the assumed rate of growth of average salaries

has been changed from 7.5% to 6.0%. Details of the impact of these changes on con-

tributions and liabilities are set forth in the Comparative Summary.

The balance of this Report presents additional details of the actuarial valuation

and the general operation of the Fund. The undersigned would be pleased to meet with

the Board of Trustees in order to discuss the Report and any pending questions con-

cerning its contents.

Respectfully submitted,

FOSTER & FOSTER, INC.

By: Ward V. Foster, Jr., ASA, MAAA

Comparative Summary of Principal Valuation Results

	New Method	Old Method	Old Method
	10/1/01	10/1/01	10/1/00
A. Participant Data			
Number Included Actives Service Retirees Beneficiaries Terminated Vested Disability Retirees	25	25	23
	8	8	8
	0	0	0
	0	0	0
	3	3	3
Total	36	36	34
Total Annual Payroll	\$871,152	\$871,152	\$744,912
Payroll Under Assumed Ret. Age	871,152	871,152	744,912
Annual Rate of Payments to:			
Service Retirees	226,690	226,690	226,690
Beneficiaries	0	0	0
Terminated Vested	0	0	0
Disability Retirees	40,224	40,224	40,224
B. Assets			
Actuarial Value	5,532,568	4,610,473	5,500,526
Market Value	4,610,473	4,610,473	5,500,526
C. Liabilities			
Present Value of Benefits Active Members Retirement Benefits Disability Benefits Death Benefits Vested Benefits Refund of Contributions Service Retirees Beneficiaries Terminated Vested Disability Retirees	3,737,467	4,019,744	3,409,126
	50,973	56,337	45,877
	42,910	46,468	40,317
	253,201	277,857	248,119
	99,664	102,293	87,500
	2,436,610	2,436,610	2,465,710
	0	0	0
	402,790	402,790	409,079
Total	7,023,614	7,342,100	6,705,728

	New Method 10/1/01	Old Method 10/1/01	Old Method 10/1/00
C. Liabilities - (Continued)			
Liabilities Due and Unpaid	\$0	\$0	\$0
Present Value of Future Salaries (Attained Age)	6,338,926	6,864,111	6,001,829
Present Value of Future Salaries (Entry Age)	10,274,139	11,440,120	9,801,681
Present Value of Future Member Contributions	709,960	768,780	672,205
Present Value of Future Normal Costs (Entry Age)	1,263,312	1,531,395	1,318,692
Actuarial Accrued Liability	5,532,568	5,186,856	6,064,771
Unfunded Actuarial Accrued Liability (UAAL)	0	576,383	564,245
D. Actuarial Present Value of Accrued Benefits			
Vested Accrued Benefits Inactives Actives Member Contributions	2,839,401 1,121,777 565,095	2,839,401 1,082,732 565,095	2,874,789 851,798 422,094
Total	4,526,273	4,487,228	4,148,681
Non-vested Accrued Benefits	26,712	24,458	54,618
Total Present Value Accrued Benefits	4,552,985	4,511,686	4,203,299
Increase (Decrease) in Present Value of Accrued Benefits Attributable to: Plan Amendments Assumption Changes New Accrued Benefits Benefits Paid Interest Other	0 41,299 0 0 0 0	0 0 262,000 (278,728) 325,115 0	
Total:	41,299	308,387	

	New Method <u>10/1/01</u>	Old Method 10/1/01	Old Method <u>10/1/00</u>
E. Pension Cost			
Normal Cost (with interest) % of Total Annual Payroll*	\$238,278 27.4	\$309,640 35.5	\$99,790 13.4
Payment Required to Amortize Unfunded Actuarial Accrued Liability over 30 years			
(as of 10/1/01) % of Total Annual Payroll*	0 0.0	43,234 5.0	48,884 6.6
Total Required Contribution % of Total Annual Payroll*	238,278 27.4	352,874 40.5	148,674 20.0
Expected Member Contributions % of Total Annual Payroll*	97,569 11.2	97,569 11.2	83,430 11.2
Expected City for Member Contr. % of Total Annual Payroll*	69,692 8.0	69,692 8.0	59,593 8.0
Expected City & State Contrib. % of Total Annual Payroll*	71,017 8.2	185,613 21.3	5,651 0.8
F. Past Contributions			
Plan Years Ending:	9/30/01		
Total Required Contribution City and State Requirement	\$ 148,674 5,651		
Actual Contributions Made:			
Members City	147,609 0		
State Total	45,613 193,222		
G. Net Actuarial Gain (Loss)	N/A		

^{*} Contributions developed as of 10/1/01 are expressed as a percentage of projected annual payroll at 10/1/01 of \$871,152

H. Schedule Illustrating the Amortization of the Total Unfunded Actuarial Accrued Liability as of:

<u>Year</u>

Projected Unfunded Accrued Liability

N/A - Aggregate Actuarial Cost Method

I. (i) 3 Year Comparison of Actual and Assumed Salary Increases

		<u>Actual</u>	Assumed
Year Ended Year Ended	9/30/01 9/30/00	6.8% 3.3%	7.5% 7.5%
Year Ended	9/30/99	3.6%	7.5%

(ii) 3 Year Comparison of Investment Return on Actuarial Value

		<u>Actual</u>	<u>Assumed</u>
Year Ended Year Ended	9/30/01 9/30/00	-14.3% 14.1%	8.0% 8.0%
Year Ended	9/30/99	11.3%	8.0%

(iii) Average Annual Payroll Growth

(a) Payroll as of:	10/1/01 10/1/92	\$871,152 736,410
(b) Total Increase		18.3%
(c) Number of Years		9.00
(d) Average Annual Rate		1.9%

Statement by Enrolled Actuary

This actuarial valuation was prepared and completed by me or under my direct supervision, and I acknowledge responsibility for the results. To the best of my knowledge, the results are complete and accurate, and in my opinion, the techniques and assumptions used are reasonable and meet the requirements and intent of Part VII, Chapter 112, Florida Statutes. There is no benefit or expense to be provided by the plan and/or paid from the plan's assets for which liabilities or current costs have not been established or otherwise taken into account in the valuation. All known events or trends which may require a material increase in plan costs or required contribution rates have been taken into account in the valuation.

Ward V. Foster, Jr., ASA, EA, MAAA

Enrolled Actuary #99-2808

A copy of this Report is to be furnished to the Division of Retirement within 60 days of receipt from the actuary at the following address:

Patricia Shoemaker Municipal Police and Fire Pension Trust Funds Division of Retirement Post Office Box 3010 Tallahassee, FL 32315-3010 Mr. Charles Slavin, Actuary Bureau of Local Retirement Systems Cedars Executive Center, Bldg. C 2639 North Monroe Street Tallahassee, FL 32303

SECTION II VALUATION INFORMATION

ACTUARIAL ASSUMPTIONS AND FUNDING METHODS

<u>Assumptions</u>

Mortality Rate 1983 GAM Table - Sex Distinct.

Interest Rate 8% per year compounded annually, net of in-

vestment related expenses.

Retirement Age Earlier of age 55 and 10 years of service, or

the completion of 20 years of service, regardless of age. Also, any member who has reached Normal Retirement is assumed to continue employment for one additional year.

Early Retirement Commencing with eligibility for Early Retire-

ment Age (age 50 with 10 years of Service), members are assumed to retire with an immediate subsidized benefit at the rate of 5% per

year.

<u>Disability Rate</u> See table below (1201).

<u>Termination Rate</u> See table below (1302).

<u>Salary Increases</u> 6.0% per year until the assumed retirement

age; see table below. Projected salary at retirement is increased 20% to account for non-

regular compensation.

<u>Administrative Expenses</u> \$24,200 annually.

<u>Age</u>	% Terminating During the Year	% Becoming Disabled <u>During the Year</u>	Current Salary as % of Salary at age 50
20	6.0%	0.03%	12.3%
30	5.0	0.04	25.3
40	2.6	0.07	52.1
50	0.8	0.18	100.0

Funding Methods

Aggregate Actuarial Cost Method.

VALUATION NOTES

- Total Annual Payroll is the projected annual rate of pay for the fiscal year following the valuation date of all covered Members.
- <u>Present Value of Benefits</u> is the single sum value on the valuation date of all future benefits to be paid to current Members, Retirees, Beneficiaries, Disability Retirees and Vested Terminations.
- Normal (Current Year's) Cost is the current year's cost for benefits yet to be funded.
- <u>Total Required Contribution</u> is equal to the Normal Cost adjusted for interest according to the timing of contributions during the year.
- Aggregate Actuarial Cost Method is the method used to determine required contributions under the Plan. The use of this method involves the systematic funding of the Normal Cost (described above).

PARTIAL HISTORY OF PREMIUM TAX REFUNDS

Received During Fiscal Year	<u>Amount</u>	Increase from Previous Year
1983	19,800.87	%
1984	24,982.17	26.2%
1985	26,920.47	7.8%
1986	32,117.88	19.3%
1987	39,150.60	21.9%
1988	39,450.32	0.8%
1989	39,967.33	1.3%
1990	41,108.50	2.9%
1991	42,016.95	2.2%
1992	40,235.97	-4.2%
1993	42,044.77	4.5%
1994	43,894.29	4.4%
1995	48,205.39	9.8%
1996	47,682.87	-1.1%
1997	51,189.90	7.4%
1998	51,838.81	1.3%
1999	48,759.83	-5.9%
2000	45,177.19	-7.3%
2001	45,612.78	1.0%

SECTION III

TRUST FUND

BALANCE SHEET September 30, 2001

ASSETS Cash and Cosh Equivalents:	COST VALUE	MARKET VALUE
Cash and Cash Equivalents: Money Market Petty Cash	176,054.65 50.00	176,054.65 50.00
Total Cash and Equivalents	176,104.65	176,104.65
Receivable: Accrued Income	24,811.14	24,811.14
Total Receivable	24,811.14	24,811.14
Investments: Federal Agency Guaranteed Securities Corporate Bonds Corporate Stocks	622,680.24 1,231,610.90 2,574,571.02	663,447.25 1,274,308.75 2,471,801.59
Total Investments	4,428,862.16	4,409,557.59
TOTAL ASSETS	4,629,777.95	4,610,473.38
LIABILITIES AND NET ASSETS		
Liabilities:		
Total Liabilities	0.00	0.00
Net Assets: Active and Retired Members' Equity	4,629,777.95	4,610,473.38
Total Net Assets	4,629,777.95	4,610,473.38
TOTAL LIABILITIES AND NET ASSETS	4,629,777.95	4,610,473.38

CHANGES IN NET ASSETS AVAILABLE FOR BENEFITS September 30, 2001 Market Value Basis

INCOME

0 1-21 42	INCOME	
Contributions: Member City for Members State	88,944.66 58,663.87 45,612.78	
Total Contributions:		193,221.31
Earnings from Investments Interest & Dividends Miscellaneous Income Net Realized Gain (Loss) Unrealized Gain (Loss)	168,412.13 680.92 (96,652.27) (802,671.05)	
Total Earnings and Investment Gains		(730,230.27)
A desirable for Francisco	EXPENSES	
Administrative Expenses: Investment Related* Other	50,151.87 24,163.30	
Total Expenses		74,315.17
Distributions to Members: Benefit Payments Return of Contributions	273,284.77 5,443.35	
Total Distributions		278,728.12
Change in Net Assets for the Year		(890,052.25)
Net Assets Beginning of the Year		5,500,525.63
Net Assets End of the Year		4,610,473.38

^{*}Investment Related expenses include investment advisory, custodial and performance monitoring fees.

ACTUARIAL ASSET VALUATION

Actuarial Assets for funding purposes are developed by increasing the Actuarial Assets used in the most recent actuarial valuation of the Fund by the average annual market value rate of return (net of investment related expenses) for the past four years, but are limited to 120% of Market Value, if less.

Details of the derivation are set forth as follows:

Plan Year End	Rate of Return*	
9/30/98	2.16%	
9/30/99	11.32%	
9/30/00	14.07%	
9/30/01	-14.33%	
Annualized Rate of Return for prior four (4) years:	2.67%	
(A) 10/01/00 Actuarial Assets:		\$5,500,525.63
(I) Net Investment Income:		
 Interest and Dividends Realized Gains (Losses) Change in Actuarial Value Investment Related Expension 	169,093.05 (96,652.27) 123,346.43 50,151.87 145,635.34	
(B) 10/01/01 Derived Assets:	\$5,536,490.86	
Derived Asset Rate of Return = 2I/(A+B-I):	2.67%	
10/01/01 Actuarial Assets: (Lesser of Derived Assets	or 120% of Market Value)	\$5,532,568.06
Actuarial Asset Rate of Return:		2.60%

^{*}Market Value Basis, net of investment related expenses

CHANGES IN NET ASSETS AVAILABLE FOR BENEFITS September 30, 2001 Actuarial Asset Basis

INCOME

	INCOME	
Contributions: Member City for Members State	88,944.66 58,663.87 45,612.78	
Total Contributions:		193,221.31
Earnings from Investments Interest & Dividends Miscellaneous Income Net Realized Gain (Loss) Change in Actuarial Value	168,412.13 680.92 (96,652.27) 119,423.63	
Total Earnings and Investment Gains		191,864.41
	EXPENSES	
Administrative Expenses: Investment Related* Other	50,151.87 24,163.30	
Total Administrative Expenses		74,315.17
Distributions to Members: Benefit Payments Return of Contributions	273,284.77 5,443.35	
Total Distributions		278,728.12
Change in Net Assets for the Year		32,042.43
Net Assets Beginning of the Year		5,500,525.63
Net Assets End of the Year		5,532,568.06
*Investment Related expenses include inv	estment advisory.	

^{*}Investment Related expenses include investment advisory, custodial and performance monitoring fees.

SECTION IV MEMBER STATISTICS

ELIGIBILTY FOR RETIREMENT

Members are eligible for Normal Retirement based upon the following criteria:

- 1) Attained Age 55 with 10 Years of Credited Service or 2) 20 Years of Credited Service regardless of Age

Members are eligible for Early Retirement based upon the following criteria:

1) Attained Age 50 with 10 Years of Credited Service

As of the date of this valuation, the following list of Members are eligible for:

Normal Retirement	Early Retirement			
Dees, M. W.	Borelli, J. Klein, R. A. Patton, J. A.			

STATISTICAL DATA

(Averages are salary weighted)

	10/1/98	10/1/99	10/1/00	10/1/01
Active Members				
Number	25	26	23	25
Average Current Age	38.4	38.8	39.1	39.8
Average Age at Employment	29.1	29.4	30.1	30.5
Average Past Service	9.4	9.5	9.0	9.3
Average Annual Salary	\$31,854	\$33,470	\$32,387	\$34,846

AGE AND SERVICE DISTRIBUTION

PAST SERVICE

AGE	0	1	2	3	4	5-9	10-14	15-19	20-24	25-29	30+	Total
15 - 19	0	0	0	0	0	0	0	0	0	0	0	0
20 - 24	0	1	0	1	0	0	0	0	0	0	0	2
25 - 29	1	1	0	0	0	0	0	0	0	0	0	2
30 - 34	2	1	0	2	0	0	0	0	0	0	0	5
35 - 39	0	1	1	0	0	3	1	0	0	0	0	6
40 - 44	0	0	0	0	1	0	1	1	0	0	0	3
45 - 49	0	0	0	0	0	0	0	1	0	0	0	1
50 - 54	1	0	0	0	0	0	2	2	1	0	0	6
55 - 59	0	0	0	0	0	0	0	0	0	0	0	0
60 - 64	0	0	0	0	0	0	0	0	0	0	0	0
65+	0	0	0	0	0	0	0	0	0	0	0	0
Total	4	4	1	3	1	3	4	4	1	0	0	25

VALUATION PARTICIPANT RECONCILIATION

1. Active lives

a. Number in prior valuation 10/1/00	23
b. Terminations	
i. Vested (partial or full) with deferred benefits	0
ii. Non-vested or full lump sum distribution received	3
c. Deaths	
i. Beneficiary receiving benefits	0
ii. No future benefits payable	0
d. Disabled	0
e. Retired	Ō
f. Voluntary withdrawal	0
g. Continuing participants	20
h. New entrants	5
i. Total active life participants in valuation	25

2. Non-Active lives (including beneficiaries receiving benefits)

	Service Retirees, Vested Receiving <u>Benefits</u>	Receiving Death Benefits	Receiving Disability <u>Benefits</u>	Vested <u>Deferred</u>	<u>Total</u>
a. Number prior valuation	8	0	3	0	11
b. In	0	0	0	0	0
c. Out	0	0	0	0	0
d. Number current valuation	8	0	3	0	11

SECTION V SUMMARY OF PLAN PROVISIONS

SUMMARY OF CURRENT PLAN

Eligibility

Full-time employees who are classified as full-time sworn police officers shall participate in the System as a condition of employment.

Credited Service

Total years and fractional parts of years of continuous employment with the City as a Police Officer.

<u>Earnings</u>

Total W-2 Earnings plus all tax deferred or tax exempt items of income. Additional 8.0% (10.6% if employed prior to 10/1/99) of Earnings included for calculating AFC.

Average Final Compensation (AFC)

Average Earnings for the highest 5 years during the 10 years immediately preceding retirement or termination.

Member Contributions

11.2% of Earnings.

Member Contributions by City

8.0% of Earnings. Members hired on or after 10/1/99 vest in these contributions 10% for each complete year of Credited Service to 100% after 10 years of Credited Service. Members hired before 10/1/99 are 100% vested in these contributions.

City and State Contributions

Remaining amount necessary to pay current costs and amortize past service cost if any, over 30 years.

Normal Retirement

Date

Earlier of Age 55 and 10 years of Credited Service or 20 years of Credited Service.

Benefit

3.0% of Average Final Compensation times Credited Service. Members retir-

ing after 10/1/1999, receive \$150 per

month, payable for life.

Form of Benefit

Ten Year Certain and Life Annuity (op-

tions available).

Early Retirement

Eligibility

Age 50 and 10 Years of Credited Ser-

vice.

Benefit

Accrued benefit, reduced 3% per year.

<u>Vesting</u>

Schedule

100% after 10 years of Credited

Service.

Benefit Amount

Member will receive the vested portion of his (her) accrued benefit payable at the otherwise

Normal Retirement Date.

Disability

Eligibility

Service Incurred

Covered from Date of Employment.

Non-Service Incurred

10 years of Credited Service.

Exclusions

Disability resulting from use of drugs, illegal participation in riots, service

in military, etc.

Benefit

Benefit accrued to date of disability but not less than 42% of Average Final Compensation (Service Incurred), or 25% of Average Final Compensation

(Non-Service Incurred).

Duration

Payable for life (with 120 months guaranteed) or until recovery (as determined

by the Board). Options are available.

Death Benefits

Pre-Retirement

Vested

Non-Vested

Post-Retirement

Board of Trustees

Monthly accrued benefit payable to designated beneficiary for 10 years.

Refund of accumulated contributions without interest.

Benefits payable to beneficiary in accordance with option selected at retirement.

- a. Two Commission appointees,
- b. Two Members of the Department elected by the membership, and
- c. Fifth Member elected by other 4 and appointed by Commission.

SECTION VI

GOVERNMENTAL ACCOUNTING STANDARDS BOARD STATEMENTS NO. 25 & No. 27 INFORMATION

DISCLOSURE INFORMATION PER STATEMENT NO. 25 OF THE GOVERNMENTAL ACCOUNTING STANDARDS BOARD

The schedule provided below has been prepared in accordance with the requirements of paragraph 37 of Statement No. 25 of the Governmental Accounting Standards Board.

SCHEDULE OF FUNDING PROGRESS

UAAL as a % of Covered Payroll ((b-a)/c)	0.00% 75.75% 17.07% 26.94% 40.52%
Covered Payroll (c)	871,152 744,912 870,214 796,342 889,439
Funded Ratio (a/b)	100.00% 90.70% 97.06% 95.39% 92.33%
Unfunded AAL (UAAL) (b-a)	0 564,245 148,559 214,526 360,404
Actuarial Accrued Liability (AAL) - Entry Age (b)	5,532,568 6,064,771 5,060,316 4,654,807 4,696,323
Actuarial Value of Assets (a)	5,532,568 5,500,526 4,911,757 4,440,281 4,335,919
Actuarial Valuation Date	10/01/01 10/01/00 10/01/99 10/01/98

The schedule provided below has been prepared in accordance with the requirements of paragraph 38 of Statement No. 25 of the Governmental Accounting Standards Board.

SCHEDULE OF CONTRIBUTIONS FROM THE EMPLOYER AND OTHER CONTRIBUTING ENTITIES

Percentage Contributed	100.00%	100.00%	100.00%	100.00%	100.00%
State Contribution	45,613	45,177	48,760	51,839	51,190
City Contribution	0	0	0	0	0
Annual Required Contribution	5,651	26,549	12,003	0	0
Year Ended September 30	2001	2000	1999	1998	1997

DISCLOSURE INFORMATION PER STATEMENT NO. 27 OF THE GOVERNMENTAL ACCOUNTING STANDARDS BOARD

ANNUAL PENSION COSTS AND RELATED INFORMATION

Contribution rates as of 9/30/01 City for Members Plan Members	8.0% 11.2%
Annual pension cost	0
Contributions made	0
Actuarial valuation date	10/1/00
Actuarial cost method	Frozen Entry Age
Amortization method	Level Percentage of Pay, Closed
Remaining amortization period	29 Years
Asset valuation method	Market Value
Actuarial assumptions:	
Investment rate of return	8.0%
Projected salary increase*	7.5%
* Includes inflation at	3.0%
Post Retirement COLA	0.0%

THREE YEAR TREND INFORMATION

	Annual	Percentage	Net
Year	Pension	of APC	Pension
Ending	Cost (APC)	Contributed	Obligation
9/30/01	0	100%	0
9/30/00	0	100%	0
9/30/99	0	100%	0