### **BOARD OF FINANCE MEETING**

February 17, 2021

### **AGENDA**

Pension Options

Plan Performance

Pension Obligation Bond

General Fund / Debt Service

Pension Scenarios & DIY Kit

### PENSION OPTIONS

#### **Stay the Course:**

- Continue to fully fund ADC annually
- Achieve 100% Funded in 13-years
- Hold ROR at 6.5% in FY21/22

#### **Reduce ROR:**

- 6.5%, ADC of \$10.038M± (Town \$7.246M±)
- 6.375%, ADC of \$10.479M± (Town \$7.564M±)
- 6.25%, ADC of \$10.921M ± (Town \$7.883M±)
- Plan Performance:
  - Since Inception (1/1/03)... 7.3%
  - Past 10 Years... 8.1%

#### **Pension Obligation Bond:**

- Issue a taxable bond 2.5% 2.75%
- 80% Funded Ratio requires \$27M at 6.5% ROR
- Subject to voter approval at referendum

#### **Reallocate Funds from Capital Transfer:**

- Multiple scenarios exist
- Issue debt to fund projects; reallocate transfer to fund Pension (lump sum / ROR)
- Outer year consideration of debt service and need to possibly reestablish Capital Transfer
- Subject to voter approval at referendum

### PLAN PERFORMANCE

### AS OF DECEMBER 31, 2020

Trailing Performance S	Summary								
	QTR	Jul-2020 To Dec-2020	1 Year	3 Years	5 Years	7 Years	10 Years	Since Inception	Inception Date
Total Plan	11.7	17.4	16.8	9.2	10.1	7.4	8.1	7.3	01/01/2003
Blended Benchmark	9.1	14.8	13.7	8.6	9.6	7.2	7.5	7.6	
Difference	2.6	2.6	3.1	0.6	0.5	0.2	0.6	-0.3	

Calendar	Year	Performance	Summary
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	2019	2018	2017	2016	2015	2014	2013	2012
Total Plan	18.8	-6.1	15.9	7.1	-1.8	3.7	15.1	15.4
Blended Benchmark	18.8	-5.3	14.9	7.4	-1.5	4.5	13.8	11.0
Difference	0.0	-0.8	1.0	-0.3	-0.3	-0.8	1.3	4.4

1/31/2021					As	sset /	Alloca	ation									Forecas	sts		Past (1/8	38-1/21)
	Fixed Income	Equity	Real Assets	Alternatives	Cash	TIPS	US Bond	Global Bonds	US Equity (LC)	US Equity (SC)	Int'l Dev. Equity	EM Equity	Real Estate	Broad Real Assets	Private Equity	Annualized Return	Annualized Volatility	Normal 100 Year Flood*	Non-Normal 100 Year Flood**	Annualized Return	Annualized Volatility
Current Mix (A)	33%	61%	7%		0.6%	1.7%	25.9%	4.4%	29.4%	13.8%	12.0%	5.4%	4.8%	2.0%		6.0%	11.9%	-21%	-30%	9.0%	10.1%
Mix 1	45%	47%	8%			3.1%	36.0%	6.1%	19.4%	6.5%	14.5%	6.4%	4.9%	3.2%		5.5%	10.3%	-18%	-26%	8.3%	8.2%
Mix 2	31%	60%	9%			2.1%	24.8%	4.2%	24.9%	8.3%	18.7%	8.2%	5.4%	3.6%		6.2%	12.4%	-22%	-31%	8.7%	10.2%
Mix 3	26%	65%	9%			1.8%	20.8%	3.5%	26.8%	8.9%	20.1%	8.8%	5.6%	3.7%		6.5%	13.1%	-23%	-32%	8.9%	10.9%
Observation Mix (A)	43%	40%	7%	10%			37.3%	5.4%	16.7%	5.6%	12.5%	5.5%	4.3%	2.9%	10.0%	6.0%	10.0%	-17%	-23%	8.9%	7.4%
Observation Mix (B)	33%	49%	8%	10%			29.2%	4.2%	20.2%	6.7%	15.2%	6.6%	4.6%	3.1%	10.0%	6.5%	11.3%	-19%	-27%	9.2%	8.6%

Forecasts
 exclude
 incremental
 return of
 active
 management

### PENSION OBLIGATION

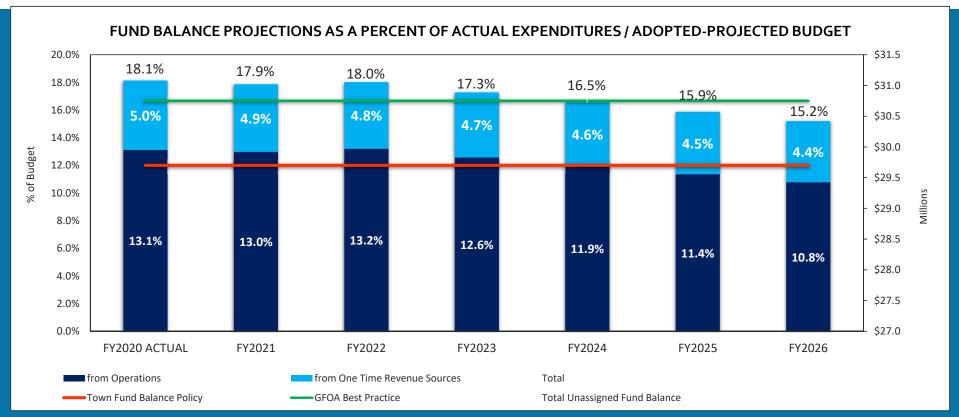
### **TAXABLE BOND 2.5% - 2.75%**

July 1, 2020	ROR of 6.5%
Total Pension Liability	\$237,172,324
Assets	\$162,766,959
Net Liability	\$74,405,365
Funded Ratio	68.6%
1%-Pt Inc. to Funded Ratio	\$2.37M

Lur	Lump Sum to Inc. Funded Ratio to:								
ROR:	6.5%	6.375%	6.25%						
70%	\$3.25	\$5.65	\$8.11						
75%	\$15.11	\$17.68	\$20.31						
80%	\$26.97	\$29.71	\$32.52						
85%	\$38.83	\$41.74	\$44.73						
90%	\$50.69	\$53.77	\$56.93						
95%	\$62.55	\$65.80	\$69.14						
100%	\$74.41	\$77.83	\$81.34						

### **GENERAL FUND - FUND BALANCE\***

Unassigned Fund Balance = \$30M Town Policy of 12% = \$21M GFOA Best Practice: 16.7% = \$29M



### Debt Service Projected

Annual Principal & Interest

- Excludes WWTP / CWF
- July 2020 Library & Land Acquisitions \$10.4M
- Includes \$3M land



### FUNDING / BORROWING – Reallocate Savings

Years 1-5 \$30M Capital projects @ \$6M/year **Funding Resources** Capital Reserve @ \$4M/year \$20M Bond Issue - Year 1 \$12.5M \$32.5M Total Cost @ \$4M/year \$20M \$4.25M Debt Service @ 2% **Total** \$24.25M \$28.75M Capital Transfer @ \$5.75M One-time reallocation of \$900K± in Year 1

Y	ears 6-20	<b>o</b>
	\$90M	
	\$60M	
	-	
	(\$30M)	

Borrow \$12.5M (20-Yr Bond) Capital Reserve @\$4M/Yr Net Savings Reallocated to Pension

- \$2M annual shortfall for capital projects years 6-20
- \$600-\$800K / year of Debt Service
  - Cost escalation

### FUNDING / BORROWING – Reallocate Savings

Borrow \$5.0M (20-Yr Bond) Capital Reserve @\$4.75M/Yr Net Savings Reallocated to Pension

					Net Savings Reallocated to Ferision
		Years 1-5	Years 6-20		
C	apital projects @ \$6M/year	\$30M	\$90M		
F	unding Resources				
	Capital Reserve @ \$4.75M/year	\$23.75M	\$86.3M •	-	\$5.75M in Years 6-20
	Bond Issue – Year 1	\$5M	-		
Т	otal	\$28.75M	(\$3.7M)		
C	ost @ \$4.75M/year	\$23.75M			
D	ebt Service @ 2%	\$1.7M			\$350-\$255k / year
	Total	\$25.45M			of Debt Service
C	apital Transfer @ \$5.75M	\$28.75M		•	Cost escalation
	One-time reallocation of \$650K± in \	ear 1			

### FUNDING / BORROWING – Lump Sum to Pension

Borrow \$11.5M (10-Yr Bond)
Annual Transfer of \$5.75M, net of debt service, Lump Sum to Pension

	Year 1	Year 2	Year 3
Borrow (10-year bond @ 1.75%)	\$11.5M*	-	-
"Capital" Transfer	\$5.75M	\$5.75M	\$5.75M
To Fund Capital Projects	_*	_*	\$5.75M
To Fund Debt Service	\$1.35M	\$1.33M	\$1.31M
Transfer Lump Sum to Pension	\$4.40M	\$4.42M	-
Funded Ratio w/ Lump Sums (from 68.6%)	70.5%	72.3%	-
Reduction in ADC (\$1M Lump Sum = \$100k±)	\$440K	\$442K	-
Budgetary Effect	(\$440K)	(\$442K)	+\$1.31M
Tax Effect (ATM FY21-22 of 37.55 / 1.76%)	37.45 / 1.5%	37.35 / 1.2%	37.65 / 2.0%

- \$5.75M in all years
- \$1.35M \$1.15M / year of Debt Service
- Cost escalation

• Will cost tax payers 1/10 of a mill or +0.24% tax increase.

### FUNDING / BORROWING – Lump Sum to Pension

Borrow \$11.5M (20-Yr Bond) Annual Transfer of \$5.75M, net of debt service, Lump Sum to Pension

	Year 1	Year 2	Year 3
Borrow -20-year bond @ 1.75%)	\$11.5M*	-	-
"Capital" Transfer	\$5.75M	\$5.75M	\$5.75M
To Fund Capital Projects	_*	_*	\$5.75M
To Fund Debt Service	\$776K	\$766K	\$756K
Transfer Lump Sum to Pension	\$4.974M	\$4.984M	-
Funded Ratio w/ Lump Sums (from 68.6%)	70.7%	72.8%	-
Reduction in ADC (\$1M Lump Sum = \$100k±)	\$497K	\$498K	-
Budgetary Effect	(\$497K)	(\$498K)	+\$756K
Tax Effect (ATM FY21-22 of 37.55 / 1.76%)	37.44 / 1.5%	37.32 / 1.1%	37.50 / 1.6%

- \$5.75M in all years
- \$776k 585k / year of Debt Service
- Cost escalation

### FUNDING / BORROWING – DIY KIT

#### Other Considerations:

- Referendum Outcome
- Timing of Referendum
- Pension ADC to be paid in July 2021

#### **Historical CIP:**

- \$6M of Capital Projects / Year
- Capital Transfer of \$5.75M to Fund (cash basis)

#### **Cost to Borrow:**

- Current market: 20-Yr Bond at 1.5% to 2.0%
  - Principal spread equally over life of Bond
  - Interest calculated on remaining principal owed
- Cost to issue debt \$6oK

#### **Pension ADC / Funded Ratio:**

- Reducing 1/8 %-Pt of ADC costs \$440K± (72% to Town)
- Every \$1M Lump Sum to Pension reduces ADC by \$100K±
- Every 1%-Pt Inc. to Funded Ratio costs \$2.37M
- Current ROR of 6.5%

#### Impact on Budget / Mill Rate:

- Expenditure reductions should be compared to prior year budget (i.e. not considered cumulatively)
- Value of a mill ~ \$4.3M
- Each expenditure reduction of \$1M equates to a mill rate reduction of 0.23 (\$100K ~ 0.02).
- Current FY2021 Mill Rate: 36.90
   Annual Town Meeting Prop. FY2022 Mill Rate: 37.55

### **DISCUSSION**

# SLIDES FROM BOF MEETING ON FEB 8, 2021

### **AGENDA**

Supplemental Appropriations

Pension

General Fund

Illustrative Scenarios

• Bond Issue and Capital Reserve

• Use of Fund Balance

• Pension Obligation Bond

## SUPPLEMENTAL TRANSFER & APPROPRIATION MARCH 2020 – FEBRUARY 2021

Fund	Amount	Project
Capital Reserve Fund	\$50,000	Uranium – Public Water Service
General Fund	\$150,000	Public Access Television – 100% Grant
General Fund	\$100,000	Sale of Fill to Establish Bulky Waste Closure Fund
General Fund	\$150,000	Police Body Cameras – Police Accountability – 50% Grant
Capital Reserve Fund	\$225,000	Cotton Hollow Mill
General Fund	\$150,000	Repairs & Updates to 2157 Main Street
General Fund	\$400,000	SCBA to Take Advantage of \$80,000 Purchasing Economy
General Fund	\$53,000	Cost for November Election - \$37,000 Grant Offset
Total	\$1,278,000	
Net of Grants	\$1,016,000	

Does not include \$80,000 cost avoidance for SCBA. \$400K to be reimbursed through capital program.

### PENSION HISTORY

Valuation Year	Funded Ratio	% of ADC	Investment ROR
2020	68.6%	100%	6.5%
2019	67.3	100%	6.5%
2018	71.6	100%	6.5%
2017	70.5	100%	6.625%
2016	70.9	100%	6.875%
2015	72.2	100%	7.00%
2014	70.6	100%	7.125%
2013	66.9	100%	7.25%
2012	66.6	100%	7.50%
2011	76.5	100%	7.50%
2010	78.1	79%	7.75%
2009	73.1	100%	7.75%
2008	92.5	100%	8.00%
2007	94.5	100%	8.25%
2006	94.6	100%	8.75%

### PENSION ADC - ROR ASSUMPTION

	6.500%	6.375%	6.250%	
FY 2020-2021 Budget	\$9.358M	-	-	
FY 2021-2022 Budget	\$10.0M	\$10.5M	\$10.9M	
FY 2023	10.5	11.0	11.5	
FY 2024	11.1 11.6		12.0	
FY 2025	11.6	12.1	12.6	
Year-Over-Year Change				
FY 2022	\$680K	\$1,121K	\$1,563K	
FY 2023	502	524	546	
FY 2024	527	550	573	
FY 2025	553	578	602	

Each 1/8% ROR reduction = \$440K

### PENSION LUMP SUM CONTRIBUTION

ROR AND FUNDED RATIO

Each 1% on funded ratio totals \$2.37M

	6.50%	6.375%	6.25%	
Additional contribution needed to offset impact of interest rate reduction on ADC	-	\$4,238,172	\$8,616,367	
Accrued Liability	\$237,172,324	\$240,601,389	\$244,108,802	
Actuarial Value of Assets	\$162,766,959	\$167,005,131	\$171,383,326	
Funded Ratio	68.6%	69.4%	70.2%	
ADC	\$10,037,785	\$10,037,785	\$10,037,785	

### PENSION OBLIGATION

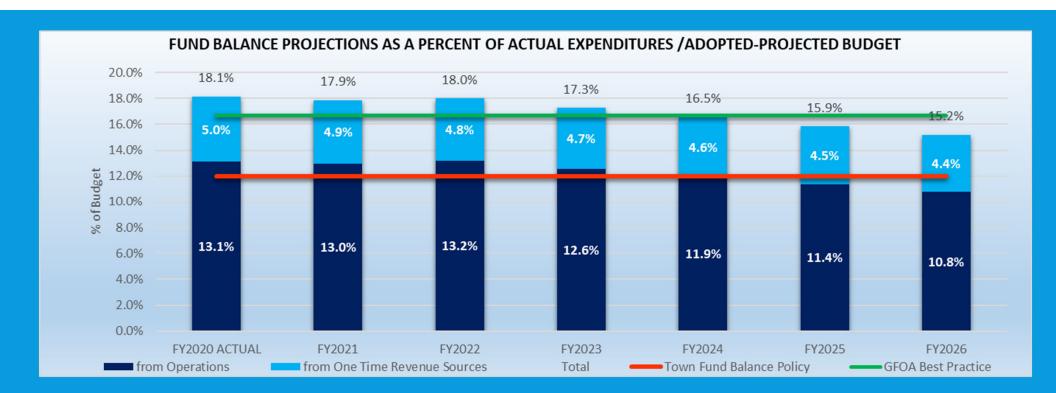
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Net Liability	\$74,405,365
Funded Ratio	68.6%
1%-Pt Inc. to Funded Ratio	\$2.37M

Additional Contribution to Increase Funded Ratio to:							
70%	\$3.25M						
75%	\$15.11M						
80%	\$26.97M						
85%	\$38.83M						
90%	\$50.69M						
95%	\$62.55M						
100%	\$74.41M						

### **GENERAL FUND - FUND BALANCE\***

Unassigned Fund Balance = \$30M Town Policy of 12% = \$21M GFOA Best Practice: 16.7% = \$29M



<sup>\*</sup>Assumes General Fund Transfer In Remains at \$975K / year.

### **CAPITAL BOND ISSUE**

Scenario A	
Gideon Welles (GW) Roof	\$2.0M
Naubuc Boiler	\$850,000
GW Boiler	\$950,000
School RTUs	\$1.7M
School Lockers	\$460,000
GHS Lockers/Restrooms	\$2.5M
	\$8.46M
Allocation - Design, CA	\$250,000
	\$8.710M
Escalation at 5%	\$435,000
Total (rounded)	\$10M±

Scenario B	
Fire Apparatus	\$1.4M
Fire Apparatus	\$550,000
New Sidewalks	\$1.2M
Grange Pool	\$1.5M
Gideon Welles (GW) Roof	\$2.0M
Naubuc Boiler	\$850,000
GW Boiler	\$950,000
School RTUs	\$1.7M
Intersection	\$1.0M
Subtotal	\$11.15M
Allocation - Design, CA	\$350,000
	\$11.5M
Escalation at 5%	\$575,000
Total (rounded)	\$12.5M±

### FUNDING / BORROWING – Reallocate Savings

			Years 1-5	Years 6-20
Ca	pital projects @ \$6M/year		\$30M	\$90M
Fι	nding Resources			
	Capital Reserve @ \$4M/year		\$20M	\$60M
	Bond Issue – Year 1		\$12.5M	-
To	tal		\$32.5M	(\$30M)
Co	ost @ \$4M/year		\$20M	
De	ebt Service @ 2%		\$4.25M	
	Total		\$24.25M	
Ca	pital Transfer @ \$5.75M		\$28.75M	
	One-time reallocation of \$900K± i	n Ye	ear 1	

\$2M annual shortfall
for capital projects
years 6-20

- \$600-\$800K / year of Debt Service
- Cost escalation

### FUNDING / BORROWING – Lump Sum to Pension

		Years 1-5	Years 6-20
Ca	apital projects @ \$6M/year	\$30M	\$90M
Fι	inding Resources		
	Capital Reserve @ \$3.5M/year	\$17.5M	\$86.25M
	Bond Issue: \$2.5M/year	\$12.5M	-
	Total	\$30M	(\$3.75M)
Co	ost @ \$3.5M/year	\$17.5M	
D	ebt Service @ 2%	\$2.575M	
	Total	\$20.075M	
To	tal Transfer @ \$5.75M	\$28.75M	
	Estimated funding to <b>re-program</b> ye of \$2.075M - \$1.4M	ars 1-5	
Es	timated issuance costs (Years 2-5)	\$250K	

Assumes 2% borrowing rate available for 5 years

- \$250K annual shortfall for capital projects years 6-20
- \$600-\$800K / year of Debt Service
- Cost escalation

(\$ in millions)	2020/2021 Budget		2021/2022 Proposed		Vari	ance	
Wages	\$	22.1	\$	22.5	\$ 0.4	0.8 Pts	
Insurance	\$	6.6	\$	6.1	\$(0.5)	-1.1 Pts	
Pension	\$	6.3	\$	7.0	\$ 0.7	1.5 Pts	
Data Processing	\$	0.7	\$	0.8	\$ 0.1	0.3 Pts	
<b>Utilities &amp; Fuel</b>	\$	1.0	\$	1.1	\$ 0.0	0.1 Pts	
Capital Outlay	\$	1.7	\$	1.7	\$(0.1)	-0.1 Pts	
Contractual Services	\$	1.2	\$	1.2	\$(0.0)	0 Pts	
All Others	\$	5.3	\$	5.4	\$ 0.1	0.3 Pts	
Town Op. BUD	\$	45.0	\$	45.8	\$ 0.8	1.70%	

### **Financial Projections** For Discussion Purposes Only

Assumes a 2% year-over-year increase in

surance \$ 6.6 \$ 6.1 \$(0.5) -1.1 Pts nsion \$ 6.3 \$ 7.0 \$ 0.7 1.5 Pts	Results Will Vary Based on Assumptions Selected								Operating Expenditures.				
tata Processing \$ 0.7 \$ 0.8 \$ 0.1 0.3 Pts illities & Fuel \$ 1.0 \$ 1.1 \$ 0.0 0.1 Pts			Fin	anc	cial Projection	ns							
parital Outlay \$ 1.7 \$ 1.7 \$ (0.1) -0.1 Pts contractual Services \$ 1.2 \$ 1.2 \$ (0.0) 0 Pts II Others \$ 5.3 \$ 5.4 \$ 0.1 0.3 Pts cown Op. BUD \$ 45.0 \$ 45.8 \$ 0.8 1.70%		ADOPTED FY20/21	PROPOSED FY21/22		FY22/23		FY23/24	FY24/25	F	Y25/26	F	FY26/27	Assumption
		ſ	Grand List Growth		ſ		GL Growth from t. '22 Revaluation						
REVENUE			0.93%		J		5.00%						GL Growth, Non-Reval Yrs
Total Grand List <sup>(A)</sup> <i>Mill Rate</i>	\$	4,279,213,990 <i>36.90</i>			4,354,523,249 <i>37.55</i>		4,572,249,411 <i>37.55</i>	\$ 4,613,399,656 37.55		4,654,920,253 <i>37.55</i>	\$ 4	4,696,814,535 <i>37.55</i>	0.90%
Tax Revenue Non-Tax Revenue (Ex. Use of Fund Balance)		155,633,075 13,823,074	12,841,669	59	161,031,032 12,841,669		169,133,069 12,841,669	170,664,354 12,841,669		172,209,421 12,841,669		173,768,393 12,841,669	99.10% Collection Rate
Use of Fund Balance Reduction in State Aid Other Increasing Revenues		975,000 - -	975,000 - -	<i>1</i>	875,000 (262,952) 100,000	)	775,000 (262,946) 100,000	675,000 (262,946) 100,000	)	975,000 (262,946) 100,000		975,000 (262,946) 100,000	ECS: FY22 \$5.1m; FY27 \$3.8m
Total Revenues	\$	170,431,149	\$ 173,402,343	3 \$	174,584,749	\$	182,586,792	\$ 184,018,077	\$_	185,863,144	\$_	187,422,116	
OPERATING EXPENDITURES  Town Education OPEB & Dog Fund	\$	44,995,304 111,754,046 855,000	114,067,405	)5	116,348,753 802,740		47,821,894 118,754,119 818,795	\$ 48,778,332 121,129,202 835,171		49,753,899 123,551,786 851,874	\$	50,748,977 126,022,821 868,912	2.00%
Reduction in Pension Rate of Return Assumption <sup>(B)</sup>		-	<u> </u>		281,611					-			
Total Operating Expenditures  (B) The above analysis assumes Pension Investment Assumption of	\$ of: 6.5%						167,394,808	\$ 170,742,704	\$	174,157,558	\$	177,640,710	
FINANCIAL REVIEW													
<u>Debt &amp; Transfers</u> Debt Service Costs  Temporary Interest	\$	6,772,818 303,981	\$ 6,796,742 240,000		6,788,363 240,000		6,642,492 240,000	\$ 5,478,995 240,000		4,411,094 240,000	\$	3,363,325 240,000	
Total Debt Service	—	7,076,799			7,028,363		6,882,492	5,718,995		4,651,094		3,603,325	
Transfer to Capital Reserve		5,750,000			5,750,000		5,750,000	5,750,000		5,750,000		5,750,000	
Total Debt & Transfers (Ex. Dog Fund & OPEB)		12,826,799			12,778,363		12,632,492	11,468,995		10,401,094		9,353,325	
Total Operating Expenses, Debt & Transfers	\$	170,431,149					180,027,300			184,558,652	\$	186,994,035	
Revenue Shortfall			\$ (0)	0) \$	2,306,171	\$	(2,559,492)	\$ (1,806,378)	1 \$	(1,304,491)	\$	(428,081)	
Adjusted Mill Rate		36.90			38.09		36.99	37.16	-	37.27		37.46	
Mill Rate Increase (Rounding May Impact Hundredths Place)	<b></b>		1.76%		1.44%		-2.89%	0.46%		0.30%		0.51%	

### ILLUSTRATIVE DEBT SERVICE SCENARIOS

	(Assumes 20-Year Bond at Various Interest Rates)												
Year/ \$5M			\$10	OM	\$15M	\$20	\$20M						
Bond	2.00%	2.50%	2.00%	2.50%	2.00% 2.50	2.00%	2.50%						
1	\$ 350,000	\$ 375,000	\$ 700,000	\$ 750,000	\$ 1,050,000 \$ 1,12	5,000 \$ 1,400,000	\$ 1,500,000						
2	\$ 345,000	\$ 368,750	\$ 690,000	\$ 737,500	\$ 1,035,000 \$ 1,100	6,250 \$ 1,380,000	\$ 1,475,000						
3	\$ 340,000	\$ 362,500	\$ 680,000	\$ 725,000	\$ 1,020,000 \$ 1,08	7,500 \$ 1,360,000	\$ 1,450,000						
4	\$ 335,000	\$ 356,250	\$ 670,000	\$ 712,500	\$ 1,005,000 \$ 1,068	8,750 \$ 1,340,000	\$ 1,425,000						
5	\$ 330,000	\$ 350,000	\$ 660,000	\$ 700,000	\$ 990,000 \$ 1,050	0,000 \$ 1,320,000	\$ 1,400,000						