Citizen Advisory Group City of Newton

January 29, 2009

Goals of the Report

- We sought to evaluate
 - -Condition of Newton's capital stock
 - -Process by which these capital assets are renewed, maintained and replaced



We found serious causes for concern on both dimensions

- Summary
- Status of Capital Infrastructure & Level of Required Funding
- Capital Investment Budgeting Process
- Conclusion

Evaluated condition and capital needs of Newton's infrastructure

- Interviewed key municipal and school executives
- Reviewed various capital budgets
- Analyzed historical capital spending levels
- Estimated replacement cost of City's infrastructure & required capital spending levels

Evaluated capital planning and budgeting process in Newton

- Interviewed key personnel
- Reviewed capital planning and budgeting documents
- Analyzed "case studies" of capital investment decisions
- Studied best practices of other cities in prioritizing and rationing capital investment

Summary of Newton's Capital Stock

Infrastructure	Description	• \$950 million (a)	
Public Buildings	 2.6 million square feet! 22 educational buildings 6 fire stations Police HQ & garage Main & branch libraries 		
Vehicles & equipment	 Fire trucks Ice & snow removal Automobiles IT infrastructure 	Up to \$45 million	
Roads & Traffic Signals	310 miles of streetsConcrete sidewalks	Approximately \$50 million (b)	
Parks & Playgrounds	 Over 70 parks & play-grounds on over 1,100 acres Basketball & tennis courts, swimming facilities 	• \$20 million ^(c)	
Water & Sewer	Sizable investment but generally not funded by tax revenues	• N/A	
Total		Approximately \$1.1 billion	



Newton has a large capital stock

- (a) At new construction costs of \$375 / sf or the present value of \$35 / sf of rental rates.
- (b) Estimates of resurfacing & reconstruction costs are approximately \$150,000 / mile.
- (c) The land itself is not depreciable / is assumed to have an infinite life. Represents the infrastructure & depreciable assets on the land only.

Summary Observations

 City's infrastructure in
need of significant
investment with a large
"required" maintenance
& replacement backlog

Findings

Why?

- Significant historical under-funding
- Convoluted budgeting process

- Arcane and (sometimes) ineffective capital budgeting process
- Not guided by long-term vision for City
- No established prioritization criteria
- Insulated from general public
- "Rolling" budget process

Root Causes

- Limited funds
- Short-term bias
 - –Preference for program over maintenance
 - Short timeframe of elected officials
 - -"Silent" nature of depreciation costs
- Lack of clear fact base
 - –Size & replacement needs of capital stock
- Self-imposed limitations
 - -e.g. "3% rule"



Root causes need to be addressed to "fix" capital backlog & budgeting process

- Summary
- Status of Capital Infrastructure & Level of Required Funding
- Capital Investment Budgeting Process
- Conclusion

Current Annual Funding "Gap"

Current Spending (FY 2008)		Appropriate Spending	
		Replacement Cost of Infrastructure	\$1,100,000,000
		÷ Useful Life	40 years
Capital Investment (a)	\$13 M	Avg. Capital Investment	\$27-28 M
<u>Maintenance</u>	\$15 M	Appropriate Maintenance	<u>±\$20 M</u>
Total Capital & Maintenance	±\$28 M	Total Capital & Maintenance (keep up with current needs)	±\$48 M



Newton has under-funded its capital investment by an estimated \$20 million per year

Newton Capital Investment Backlog

- Sustained under-funding of repair & maintenance has led to a sizable backlog of desired capital spending
 - \$220 million for schools
 - \$76 million for municipal sector
 - up to \$300 million total



If accurate, this backlog represents approximately 30% of the \$1.1 billion replacement cost of all of Newton's capital infrastructure!

What This Backlog Means for You

Newton Capital Investment Backlog	Up to \$300,000,000
Residential Property Tax as % of Revenue	72.4%
Newton Residents' Share of Backlog	Up to \$217,200,000
Assessed Value of Newton Residents' Property	\$19.4 billion
Liability per \$100,000 of Assessed Value	Up to \$1,121



Single Family Home Assessed Value	Household Share of Liability
\$400,000	\$4,484
\$500,000	\$5,605
\$600,000	\$6,726
\$700,000	\$7,847
\$800,000	\$8,968
\$900,000	\$10,089
\$1,000,000	\$11,210



Equivalent to a one-time ~\$8,000 liability for the median single family household in Newton!

Increase Capital Investment

 Recommendation #1: Increase Annual Spending on Capital Maintenance and Renewal Substantially

Current Spending (FY 2008)		Appropriate Spending	
		Replacement Cost of Infrastructure	\$1,100,000,000
		÷ Useful Life	40 years
Capital Investment (a)	\$13 M	Avg. Capital Investment	\$27-28 M
<u>Maintenance</u>	<u>\$15 M</u>	Appropriate Maintenance	<u>±\$20 M</u>
Total Capital & Maintenance	±\$28 M	Total Capital & Maintenance (keep up with current needs)	±\$48 M
		Additional annual spending to work off existing backlog	<u>±\$14 M</u>
		Total Recommended Capital	±\$60 M
		'_& <u>Maintenance</u>	
		7	

A ~doubling of capital & maintenance spending is necessary to work off the backlog

- Summary
- Status of Capital Infrastructure & Level of Required Funding
- Capital Investment Budgeting Process
- Conclusion

Capital Investment Process Context

• Three investment guidelines established after passage of Proposition 21/2 in 1981

- Free Cash (end of year budget surplus) would only be used for capital projects
- Capital projects > \$500,000 financed by debt; < \$500,000 out of operating budget
- Debt service (interest + principal) = 3% of Operating Budget

Good intentions, but some unintended consequences

- Incentive to overestimate expenses and underestimate revenues to create "Free Cash"
- Artificial "3% rule" constrained replacement of infrastructure
- Limited budgeting of "small" (<\$500,000) capital projects
- "Pay as you go" method inhibits systematic budget analysis

Current Capital Investment Process

Budgeting process has several procedural complications

- Only the Mayor can propose a Capital Budget
- Rolling 9 month process
- Four different capital planning processes (CIP, Supplemental Capital Budget, Mayor's submissions, Capital Stabilization Fund)

There are several barriers to simplifying and improving this process

- Plan is not grounded in long-term vision for City
- No up-to-date inventory of City's infrastructure (replacement cost & useful life)
- No asset management plan or single "manager"
- Capital budgeting process is insulated from the general public
- Poor linkage with the operating plan



Capital budgeting process needs re-engineering

Capital Investment Rule

- Recommendation #2: Institute a New "Capital Investment Rule"
 - Determine annually the replacement cost and useful life of Newton's infrastructure
 - Each year, set aside in the budget an amount equal to the replacement cost of Newton's infrastructure ÷ its useful life in the "Capital Investment Reserve" account
 - Draw annual capital investments from this Capital Investment Reserve
 - The Capital Investment Reserve cannot be used for anything other than capital investment in existing infrastructure
 - Any repayments or amortization of principal of the City's debt are to be "counted" as if invested in the Capital Investment Reserve



Capital Investment Rule will be a forcing mechanism for the City to "save" adequately for future capital repair, replacement & maintenance

Capital Project Prioritization

- Recommendation #3: Introduce New Processes for Prioritizing Capital Investments
 - Consider adoption of Integrated Operating and Capital Budget
 - Elevate importance of a formal Capital Improvement Plan process
 - Establish a consistent and measurable set of criteria for prioritizing specific projects
 - Budget for both planned and an average level of "unanticipated" capital maintenance
 - Consider more decentralized process for developing and vetting annual investment priorities



Several additional changes are necessary to improve the capital budgeting process

Supporting Recommendations

- Complete Detailed Inventory of the City's Stock of Capital Assets
- Create and Fully Support a New "Capital Asset Manager" Position
- Adopt Life Cycle Costing for All Significant Capital Projects
- Harvest Short-Term Savings
- Consolidate Municipal & School Maintenance in the Public Buildings Department

- Summary
- Status of Capital Infrastructure & Level of Required Funding
- Capital Investment Budgeting Process
- Conclusion

- Limited funds, a short-term bias, lack of a clear fact base and some self-imposed limitations have led to:
 - Under-funded capital investment and maintenance by up to \$20 million per year
 - Deterioration of infrastructure and a sizeable backlog of required investment
 - Arcane and complex decision-making process
- But, this problem is fixable if we face the music
 - Increase capital spending to maintain current capital stock and "catch up" on backlog
 - Establish Capital Investment Rule to make sure we "keep up" in the future
 - Simplify and amend decision-making process
- Thank you to all who helped us complete this analysis & supported our efforts!