REPLACEMENT RESERVES

Financially Sustainable Communities and Strategic Funding Plans

LONG ISLAND CHAPTER CAI

Presented by:

Peter B. Miller, RS, EBP

Housekeeping Note ...

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Why do people choose CIC's

- Lifestyle
 - Amenities / Activities
 - Same age group
 - Security
- Convenience Maintenance Free
- Location proximity to _____
- Stability of Property Values

"Perhaps the greatest
Duty of the Board of
Directors is to Protect,
Preserve and Enhance
the value of the homes
within the community!"



Robert Lyles, Esq. Charleston, SC

Why Do We Plan For Reserves

- Legal
- Practical/Financial
- Ethical

Meet Betty Jones!

- Retired school teacher;
- Lives on a fixed income;



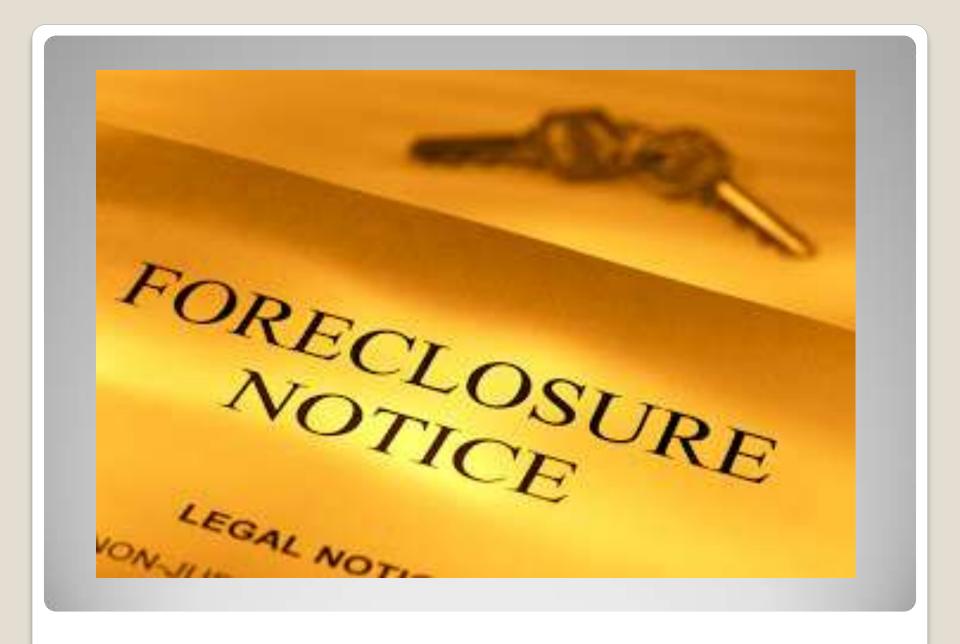
- Has lived in her HOA for 20 years;
- She is the ideal neighbor! Almost family!
- As a member of the Board of Directors,
 you are foreclosing on her home!

How Could This Happen?

Lack of Planning on the part of the Board!

Resulted in a Special Assessment, or

Resulted in precipitous increases in Normal Assessments!



Unintended Consequences!

Betty's low-ball price is now the RE Comp for everyone else's home in the community!



Food for Thought:

Almost all CIC financial disasters result, not from an event, but from lack of planning!

"Perhaps the greatest
Duty of the Board of
Directors is to Protect,
Preserve and Enhance
the value of the homes
within the community!"



Robert Lyles, Esq. Charleston, SC

Why Do We Plan For Reserves

- Legal
- Practical
- Ethical

Legal Considerations

- State Statutes
- Governing Documents
- IRS Guidelines
- FHA Requirements
- Bank Loan Requirements
- Fiduciary Duty of Board

Practical Considerations

- 10% 40% of Annual Budget !
- Sound Financial Planning!
- Equitable Distribution of costs over time!
- Avoid Special Assessments!

Ethical Considerations

- Avoids "kicking the can (future financial obligations) down the road" to future new or long-term owners!
- Equitable Distribution of costs over time!
 "Everybody pays their fair share!"*
 - *Not an easy sell among some demographics!

Protect, Preserve and Enhance

Financially Sustainable Community

Operations Expenses

Annual Budget

Maintenance Expenses

Replacement Reserves

Reserve Funding Pitfall Cycle

- Lack of Adequate Reserve Funding result in higher future assessments.
- Higher Future Assessments (or special assessments) result in financial hardship for some owners.
- Financial Hardship results in more delinquencies.
- More Delinquencies mean less annual revenue!
 - Less Annual Revenue means higher future assessments for others!

Financially Sustainable Community

- Annual Budget is balanced and adequate...
- Normal Assessments are stable..., not stagnant!
- Normal Assessments increase appropriately each year with Inflation (as gauged by the PPI).
- Property Values are Protected, Preserved & Enhanced!
- Your community is Financially Sustainable!

She has spent \$9,000 on condo Leonard association fees over five years.



She had to come up with \$12,000 more in three months. She couldn't.

Questions

Basic Principals

The Reserve Study must:

- Be Readable to be Useable!
- Reflect the Goals and Priorities of the Association!
- Provide a Practical and Implementable Funding Plan!

Module 2

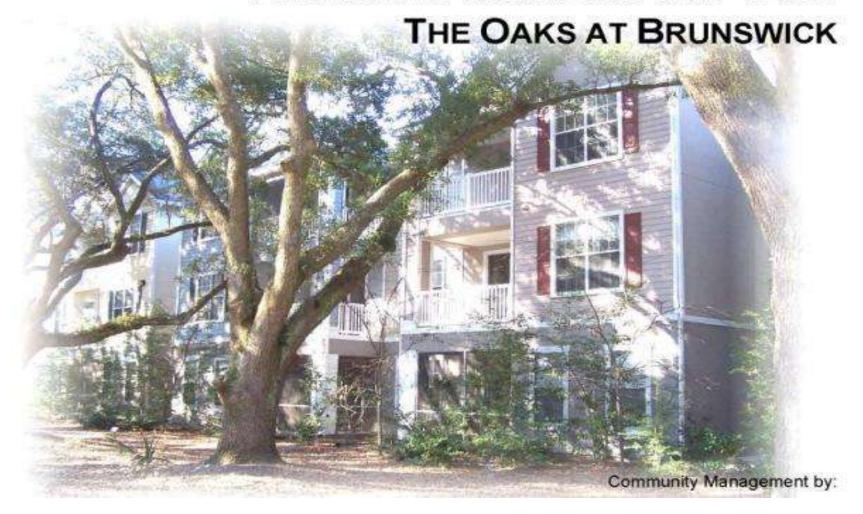
Sample Reserve Study

Phases of a Reserve Study

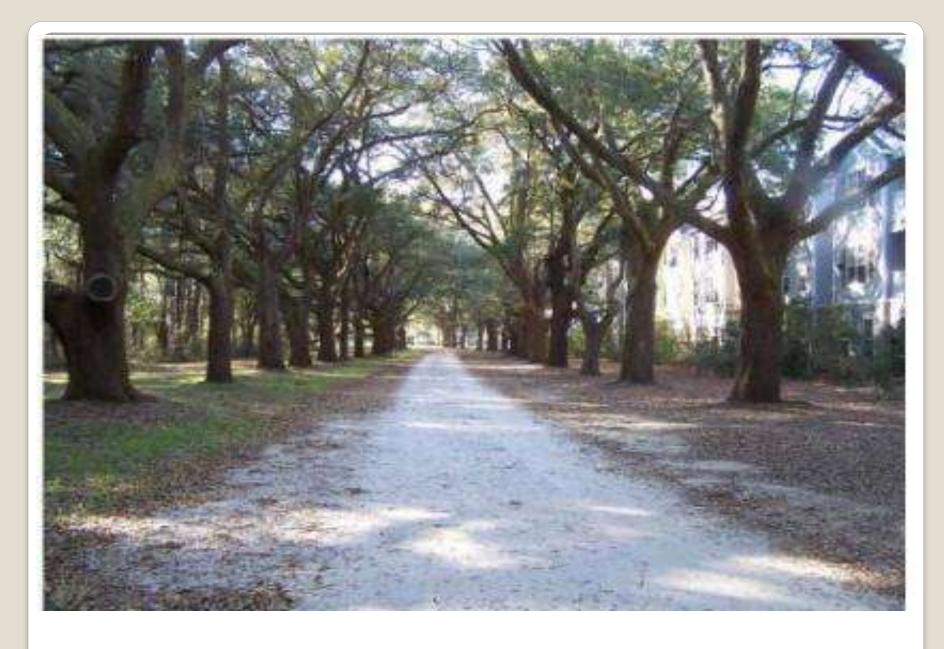
- Initial Reserve Study
- Review
- Revision
- Final Reserve Study

 And if needed
- Strategic Funding Plan

REPLACEMENT RESERVE REPORT FY 2015



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EXECUTIVE SUMMARY

The Oaks at Brunswick Replacement Reserve Analysis uses the Cash Flow Method (CFM) to calculate Replacement Reserve funding for the periodic replacement of the 103 Projected Replacements identified in the Replacement Reserve Inventory.

\$149,507

RECOMMENDED REPLACEMENT RESERVE FUNDING FOR THE STUDY YEAR, 2015 \$57.68 Per unit (average), minimum monthly funding of Replacement Reserves

We recommend the Association adopt a Replacement Reserve Funding Plan based on the annual funding recommendation above. Inflation adjusted funding for subsequent years is shown on Page A5.

Oaks at Brunswick reports a Starting Balance of \$77,240 and Annual Funding totaling \$90,000.

Current funding is inadequate to fund the \$5,616,122 of Projected Replacements scheduled in the Replacement Reserve Inventory over the 40-year Study Period. See Page A3 for a more detailed evaluation.

Starting Balance: \$77,240
Current Annual Funding: \$90,000
Recommended Funding: \$149,507

rem N	ITEM DESCRIPTION	UNIT	NUMBER OF UNITS	COST (8)	NORMAL ECONOMIC LIFE LYRSE	PREMAINING ECONOMIC LIFE (YRS)	PEPLACEAEN COST d
1	Asphalt road and parking area	sf	157,053	\$1.30	20	15	\$204,169
2	Seal coat asphalt	sf	157,053	\$0.16	5	none	\$25,126
3	Concrete curb & gutter (20%)	If	1,072	\$34.00	54	6	\$36,44
4	Concrete flatwork (6%)	sf	817	\$8.50	60	6	\$6,94
	Repoint masonry entrance feature	sf	20				
5	Sandblasted wood signage	Is	1	\$1,200.00	15	10	\$1,20
6	Segmental retaining wall, 30%	sf	697	\$45.00	40	35	\$31,36
7	Mailboxes	ls	1	\$18,000.00	25	15	\$18,00
8	Dumpster pad	sf	816	\$10.00	25	20	\$8,16
9	Dumpster enclosure stucco repair	sf	805	\$12.75	50	45	\$10,26
10	Dumpster trellace	Is	1	\$1,500.00	20	15	\$1,50
11	Dumpster gates	pr	1	\$1,000.00	10	5	\$1,00
12	Site lighting	ea	26	\$2,100.00	30	25	\$54,60
13	Sanitary sewer - mains (10%)	unit	216	\$155.00	20	15	\$33,48
14	Domestic water - mains (10%)	unit	216	\$95.00	20	15	\$20,52
15	Storm water - structure & pipe (10%)	unit	216	\$185.00	20	15	\$39,96
16	Storm water pond dredging	Is	1	\$50,000.00	20	15	\$50,00

DESCRIPTION	UNIT	MUMBER	REPLACEMENT COST (8)	LIFE (VRS)	ECONOMIC LIFE (YRS)	PEPLACEMEN COST (
CB Windows, 20%	sf	2,232	\$35.00	30	21	\$78,120
CB Windows, 20%	sf	2,232	\$35.00	30	23	\$78,120
CB Windows, 20%	sf	2,232	\$35.00	30	25	\$78,12
CB Windows, 20%	sf	2,232	\$35.00	30	27	\$78,12
CB Windows, 20%	sf	2,232	\$35.00	30	29	\$78,12
CB Window shutters	pr	160	\$100.00	15	10	\$16,00
CB Doors, 20%	ea	43	\$950.00	25	18	\$41,04
CB Doors, 20%	ea	43	\$950.00	25	19	\$41,04
CB Doors, 20%	ea	43	\$950.00	25	20	\$41,04
CB Doors, 20%	ea	43	\$950.00	25	21	\$41,04
CB Doors, 20%	ea	43	\$950.00	25	22	\$41,04
CB Patio doors, 20%	ea	12	\$1,470.00	25	18	\$17,64
CB Patio doors, 20%	ea	12	\$1,470.00	25	19	\$17,64
CB Patio doors, 20%	ea	12	\$1,470.00	25	20	\$17,64
CB Patio doors, 20%	ea	12	\$1,470.00	25	21	\$17,64
CB Patio doors, 20%	ea	12	\$1,470.00	25	22	\$17,64
	CB Windows, 20% CB Window shutters CB Doors, 20% CB Patio doors, 20%	CB Windows, 20% sf CB Doors, 20% ea CB Patio doors, 20% ea	CB Windows, 20% sf 2,232 CB Windows shutters pr 160 CB Doors, 20% ea 43 CB Doors, 20% ea 12 CB Patio doors, 20% ea 12	CB Windows, 20% sf 2,232 \$35.00 CB Windows shutters pr 160 \$100.00 CB Windows shutters pr 160 \$100.00 CB Doors, 20% ea 43 \$950.00 CB Patio doors, 20% ea 12 \$1,470.00	CB Windows, 20% sf 2,232 \$35.00 30 CB Windows shutters pr 160 \$100.00 15 CB Doors, 20% ea 43 \$950.00 25 CB Patio doors, 20% ea 12 \$1,470.00 25 CB Patio doors, 20% ea 12 S1,470.00 25 CB Patio doors, 20% ea 12 S1,470.00 25 CB	CB Windows, 20% sf 2,232 \$35.00 30 21 CB Windows, 20% sf 2,232 \$35.00 30 23 CB Windows, 20% sf 2,232 \$35.00 30 25 CB Windows, 20% sf 2,232 \$35.00 30 27 CB Windows, 20% sf 2,232 \$35.00 30 27 CB Windows, 20% sf 2,232 \$35.00 30 29 CB Windows shutters pr 160 \$100.00 15 10 CB Doors, 20% ea 43 \$950.00 25 18 CB Doors, 20% ea 43 \$950.00 25 19 CB Doors, 20% ea 43 \$950.00 25 20 CB Doors, 20% ea 43 \$950.00 25 20 CB Doors, 20% ea 43 \$950.00 25 21 CB Patio doors, 20% ea 12 \$1,470.00 25 19 CB Patio doors, 20% ea 12 \$1,470.00 25 20 CB Patio doors, 20% ea 12 \$1,470.00 25 20 CB Patio doors, 20% ea 12 \$1,470.00 25 20 CB Patio doors, 20% ea 12 \$1,470.00 25 20 CB Patio doors, 20% ea 12 \$1,470.00 25 20 CB Patio doors, 20% ea 12 \$1,470.00 25 20 CB Patio doors, 20% ea 12 \$1,470.00 25 20

EM #	ITEM DESCRIPTION	UNIT	NUMBER OF UNITS	UNIT HEPLACEMENT COST (II)	NORMAL ECONOMIC LIFE (VRS)	REMARING ECONOMIC LIFE (VRS)	HEPLACEMENT COST (\$
66	Swimming pool - structure	sf	990	\$70.00	45	40	\$69,300
67	Swimming pool - finish	sf	990	\$3.50	10	4	\$3,465
68	Swimming pool - waterline tile	ft	135	\$40.00	15	10	\$5,400
69	Swimming pool pump (2 - 5 hp)	ea	1	\$3,200.00	10	5	\$3,200
70	Swimming pool filter/chlorinator	sf	990	\$4.00	20	15	\$3,960
71	Swimming pool valves & plumbing	sf	990	\$2.00	20	15	\$1,980
72	Swimming pool - concrete	sf	480	\$10.25	30	5	\$4,920
73	Swimming pool - concrete de. 25%	sf	480	\$10.25	30	10	\$4,920
74	Swimming pool - concrete deck, 25%	sf	480	\$10.25	30	15	\$4,920
75	Swimming pool - concrete deck, 25%	sf	480	\$10.25	30	20	\$4,920
76	Swimming pool deck coating	sf	1,920	\$10.00	10	6	\$19,200
77	Swimming pool furniture (50%)	Is	1	\$1,950.00	8	- 31	
78	Swimming pool furniture (50%)	Is	1	\$1,950.00	8	3	
79	Spa structure	sf	50	\$100.00	45	40	\$5,02
80	Spa finish	sf	50	\$10.00	10	4	\$500
81	Spa waterline tile	If	25	\$40.00	15	10	\$1,00
82	Spa filter/chlorinator	Is	1	\$2,500.00	20	15	\$2,500
83	Swimming pool lighting	ea	7	\$900.00	30	25	\$6,300
84	Pool perimeter fence - 6' (metal)	ft	186	\$55.00	30	25	\$10,230
85	Swimming pool retaining wall	sf	165	\$40.00	35	30	\$6,600

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Projected Annual Replacements - Page C3

Oaks at Brunswick

June 14, 2014

PROJECTED REPLACEMENTS - YEARS 4 TO 6

em 2018 - YEAR 4	\$	item.	2019 - YEAR 5	\$	Item	2020 - YEAR 6	\$
em 2018 - YEAR 4 '8 Swimming pool furnitu		The state of the s	ming paol - finish	\$3,465	2 11 27 69 72 88 95 99	Seal coat asphalt Dumpster gates CB EIFS coating Swimming pool pump (2 - 5 Swimming pool - concrete d CO EIFS coating FC EIFS coating FC HVAC system	\$25,126 \$1,000 \$344,966 \$3,200 \$4,926 \$10,836 \$3,866 \$2,500
Total Scheduled Replacen	nents \$1,950	Total Sch	eduled Replacements	\$3,965	Tol	al Scheduled Replacements	\$396,40

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Projected Annual Replacements - Page C10

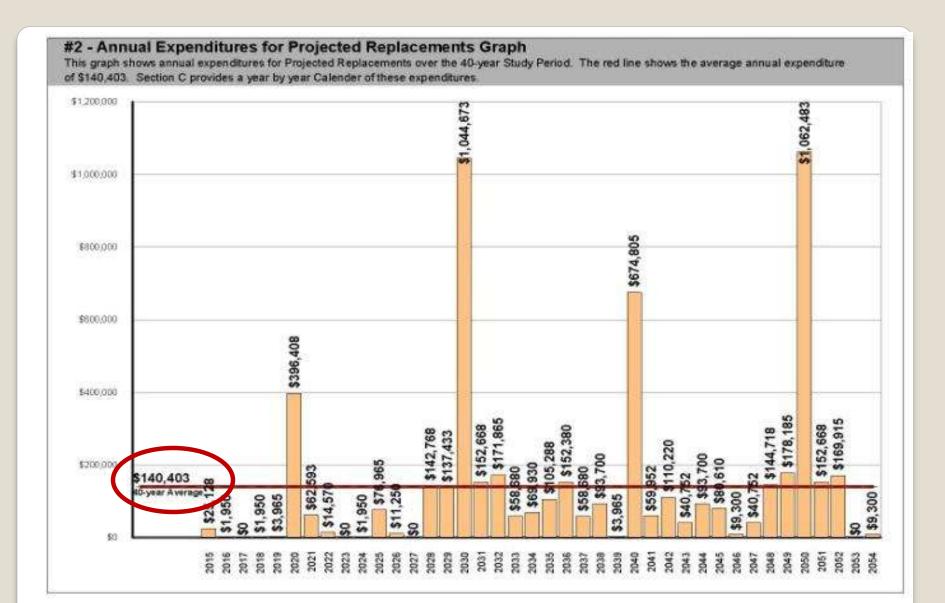
Oaks at Brunswick

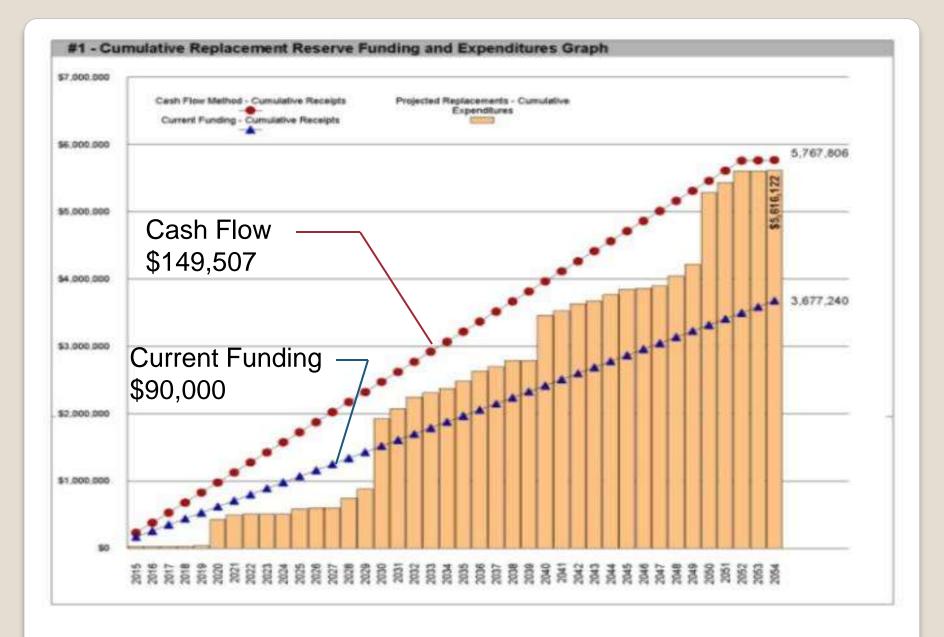
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PROJECTE		AL-FMENIS	- YEARS	75 1() 71	
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tem	2039 - YEAR 25	\$	Item	2040 - YEAR 26	\$	Item	2041 - YEAR 27	S
37	Swimming pool - finish	\$3,465	2	Seal coat asphalt	\$25,128	29	CB Vinyl siding, 20%	\$40,75
80	Spa finish	\$500	5	Sandblasted wood signage	\$1,200	76	Swimming pool deck coating	\$19,20
			11	Dumpster gates	\$1,000			
			12	Site lighting	\$54,600			
			27	CB EIFS coating	\$344,960			
			36	CB Windows, 20%	\$78,120			
			39	CB Window shutters	\$16,000			
			55	CB Balcony structure	\$58,800			
			56	CB Balcony surface	\$21,112			
			60	CB Stairs, 20%	\$15,580			
			65	CB Exit lights	\$4,500			
			68	Swimming pool - waterline ti	\$5,400			
			69	Swimming pool pump (2 - 5	\$3,200			
			77	Swimming pool furniture (50	\$1,950			
			81	Spa waterline tile	\$1,005			
			83	Swimming pool lighting	\$6,300			
			84	Pool perimeter fence - 6' (m)	\$10,230			
			88	CO EIFS coating	\$10,836			
			90	CO Windows	\$8,820			
			91	CO Window shutters	\$1,000			
			95	FC EIFS coating	\$3,864			
			100	FC HVAC condensing unit	\$1,200			
Tol	tal Scheduled Replacements	\$3,965	Total	tal Scheduled Replacements	\$674.805	Tel	tal Scheduled Replacements	\$50.0/
1,93	car consocied repracements	44,644	(19)	mi panednied nepracements	9079,000	1.0	an extremeled trebladelitelits	\$0.5°0.





Module 3

Strategic Funding Plan

What's the Next Step?

- You as the Manager...
- You as a Board Member...
- You as a FinanceCommittee Member...

You just were handed this report!

It says to increase the Reserve Funding from \$90K to \$150K!

Say What?

That's a \$60K annual increase!

Holy Cr@p!

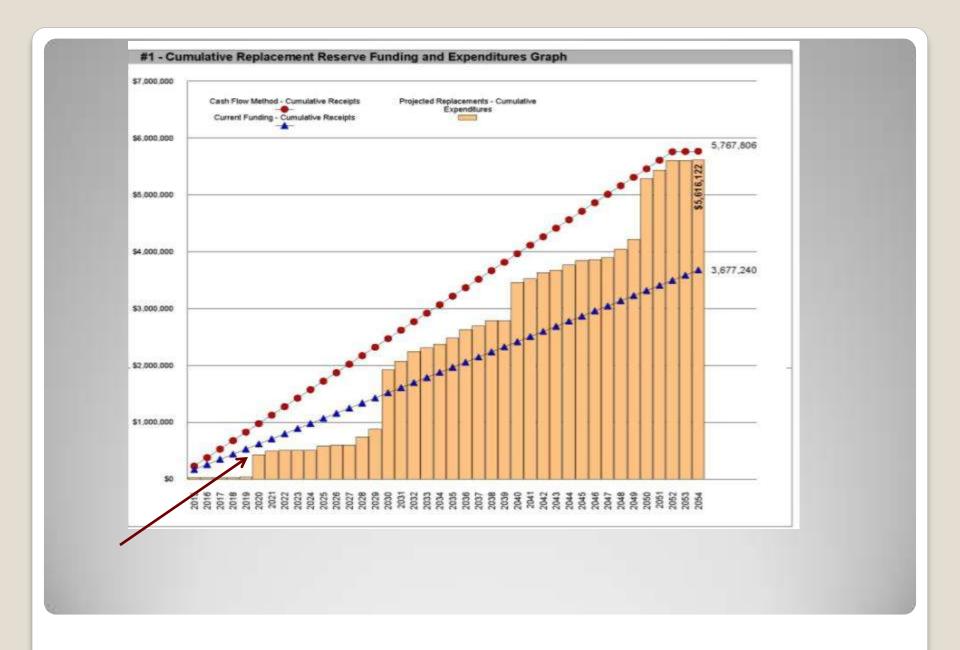
What Are Your Alternatives?

- Increase Normal Assessments
- Special Assessment*
- Commercial Bank Loan
- Combination of two or more
- *(Always Back Special Assessment w/ Bank Loan)

Next Step:

- Review inventory data and Re-think replacement priorities.
- Check Cash Flow margins.
- Develop Strategic Funding Plan.

rem N	ITEM DESCRIPTION	UNIT	NUMBER OF UNITS	COST (8)	NORMAL ECONOMIC LIFE LYRSE	PREMAINING ECONOMIC LIFE (YRS)	PEPLACEAEN COST d
1	Asphalt road and parking area	sf	157,053	\$1.30	20	15	\$204,169
2	Seal coat asphalt	sf	157,053	\$0.16	5	none	\$25,126
3	Concrete curb & gutter (20%)	If	1,072	\$34.00	54	6	\$36,44
4	Concrete flatwork (6%)	sf	817	\$8.50	60	6	\$6,94
	Repoint masonry entrance feature	sf	20				
5	Sandblasted wood signage	ls	1	\$1,200.00	15	10	\$1,20
6	Segmental retaining wall, 30%	sf	697	\$45.00	40	35	\$31,36
7	Mailboxes	ls	1	\$18,000.00 25		15	\$18,00
8	Dumpster pad	sf	816	\$10.00	25	20	\$8,16
9	Dumpster enclosure stucco repair	sf	805	\$12.75	50	45	\$10,26
10	Dumpster trellace	Is	1	\$1,500.00	20	15	\$1,50
11	Dumpster gates	pr	1	\$1,000.00	10	5	\$1,00
12	Site lighting	ea	26	\$2,100.00	30	25	\$54,60
13	Sanitary sewer - mains (10%)	unit	216	\$155.00	20	15	\$33,48
14	Domestic water - mains (10%)	unit	216	\$95.00	20	15	\$20,52
15	Storm water - structure & pipe (10%)	unit	216	\$185.00	20	15	\$39,96
16	Storm water pond dredging	Is	1	\$50,000.00	20	15	\$50,00

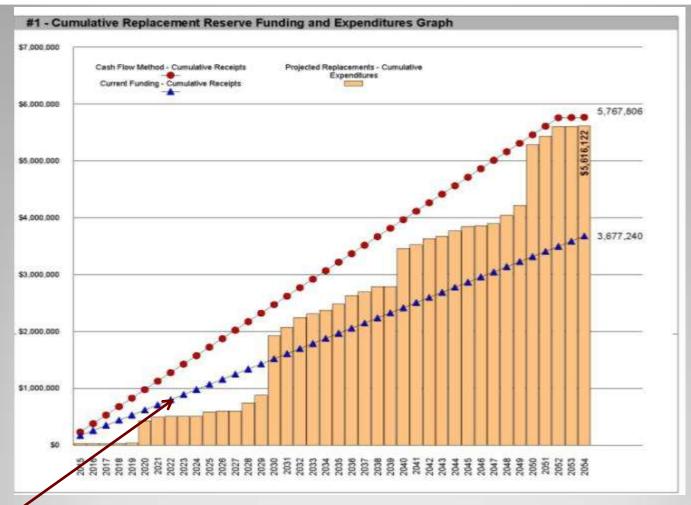


Check Cash Flow Margins

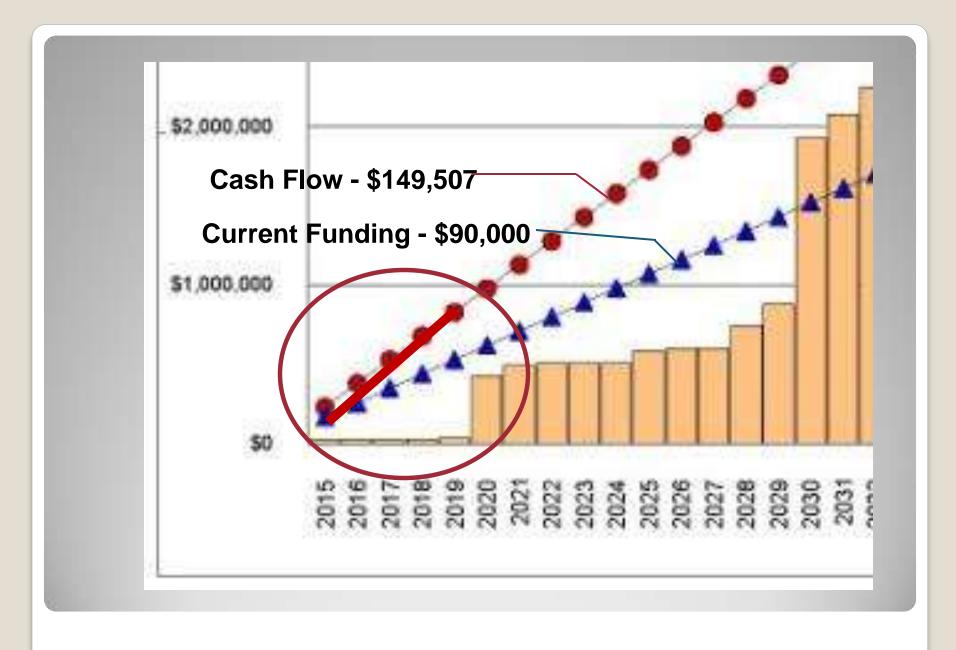
Year	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Starting Balance Projected Replacements Annual Deposit	\$77,240 (\$25,128) \$90,000	(\$1,950) \$90,000	\$90,000	(\$1,950) 000,000	(\$3,965) \$90,000	(\$396,408) \$90,000	(\$62,593) \$90,060	(\$14,570) \$90,000	\$90,000	(\$1,960 \$90,000
End of Year Balance	\$142,112	\$230_162	\$320,182	\$408,212	\$494,247	\$187,838	\$215,246	\$290,676	\$380,676	\$488,726
Cumulative Expenditures Cumulative Receipts	(\$25,128) \$167,240	(\$27,078) \$257,240	(\$27,078) \$347,240	(\$29,028) \$437,248	(\$32,993) \$527,240	(\$429,402) \$617,240	(\$491,994) \$707,240	(\$506,564) \$797,240	(\$508,564) \$887,240	(\$509,514) \$977,240
Year	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Projected Replacements Annual Deposit	(\$76,965) \$90,000	(\$11,250) \$90,000	\$90,000	(\$142,768) \$90,000	(\$137,433) \$90,000	(\$1,044,673) \$90,000	(\$152,668) \$90,000	(\$171,885) \$90,000	(\$59,680) \$90,000	\$90,000 \$90,000
End of Year Balance	\$481,781	\$560,511	\$850,511	\$597,743	\$550,309	(\$404;364)	(\$467,032)	(\$548,887)	(\$517,577)	(\$497,507)
Cumulative Expenditures Cumulative Receipts	(\$585,479) \$1,867,248	(\$596,729) \$1,157,248	(\$596,729) \$1,247,240	(\$739,497) \$1,337,248	(\$876,931) \$1,427,240	(\$1,921,804) \$1,517,240	\$2,074,272) \$1,607,240	(\$2,246,137) \$1,697,240	(\$2,304,817) \$1,787,240	(\$2,374,747) \$1,877,240
Year Projected Replacements Annual Deposit End of Year Balance	2035 (\$105,288) \$90,000 (\$512,796)	2036 (\$152,380) \$90,000 (\$575,176)	(\$58,580) \$90,000 (\$543,856)	2038 (\$93,700) \$90,000 (\$547,556)	2039 (\$3,965) \$90,000 (\$461,521)	\$90,000 (\$1,046,326)	2041 (\$59,952) \$90,000 (\$1,016,279)	\$10,220) \$90,000 (\$1,036,497)	2043 (\$40,752) \$96,000 (\$987,248)	2044 (\$93,700) \$90,000 (\$990,949)
Cumulative Expenditures Cumulative Receipts	(\$2,480,036) \$1,967,248	(\$2,632,416) \$2,057,240	(\$2,691,096) \$2,147,240	(\$2,784,796) \$2,237,240	(\$2,788,761) \$2,327,240	(\$3,463,566) \$2,417,248	(\$3,523,518) \$2,507,240	(\$3,633,737) \$2,597,240	\$3,674,489) \$2,687,240	(\$3,768,189) \$2,777,240
Year	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
Projected Replacements Annual Deposit	(\$80,610) \$90,000	(006,8\$) 000,00	(\$40,752) \$90,000	(\$144,718) \$90,000	(\$178,185) \$90,000	(\$1,062,483) \$90,000	(\$152,668) \$90,000	(\$169,915) \$90,000	\$90,000	(\$9,300) \$90,000
End of Year Balance	(\$981,560)	(\$990,860)	(\$851,612)	(\$908,330)	(\$994,515)	(\$1,986,999)	(\$2,029,687)	(\$2,109,582)	(\$2,019,582)	(\$1,939,892)
Cumulative Expenditures Cumulative Receipts	(\$3,848,800) \$2,867,240	(\$3,858,100) \$2,957,240	(\$3,898,852) \$3,847,240	(\$4,043,570) \$3,137,240	(\$4,221,755) \$3,227,240	(\$5,284,239) \$3,317,240	(\$5,438,907) \$3,407,240	(\$5,686,822) \$3,497,240	(\$5,606,822) \$3,587,248	(\$5,818,122) \$3,877,240

Year end balance stays positive until year 2030.

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This association has the latitude to "ramp up" rather than have one large increase.



Strategic Funding Plan

Ramp Up Annual Funding over five years:

Year 1: \$90K to \$102K

Year 2: \$102K to \$114K

Year 3: \$114K to \$126K

Year 4: \$126K to \$138K

Year 5: \$138K to \$150K *

^{*}Year 5 would bring Reserve Study update and would adjust for inflation, underfunding, changed conditions.

Questions

Thank you!

Module 4

Cash Flow Method Versus Component Method

CASH FLOW vs COMPONENT (Pooling vs. Full Funding)

CASH FLOW ("Pooling") METHOD

Treats Reserves as an aggregate "pool" of funds.

COMPONENT ("Full Funding") METHOD Treats each Reserve Item as a separate "line item" budget.

Illustration of the Different Mathematical Models

- One Project per year,
- Projects repeat every 4 yrs
- Cost of \$12,000 per Project
- Four Projects:

Year One - Parging,

Year Two - Seal Coat,

Year Three - Plumbing,

Year Four - Retaining Wall

(Assume \$Zero Starting Balance) (Assume \$Zero Threshold)

Component Calculations

	Year	1st	2 nd	3 rd	4th	Total									
COMPONENT	Cost x \$1,000	Annual Contributions													
Parging Year One	\$12	12	3	3	3										
Paving Year Two	\$12	6	6	3	3										
Plumbing Year Three	\$12	4	4	4	3										
Retaining Wall Year Four	\$12	3	3	3	3										
Total Cost	\$48	\$25	\$16	\$ 13	\$12	\$66									

Cash Flow Calculations

	Year	1st	2 nd	3 rd	4th	Total								
COMPONENT	Cost x \$1,000	Annual Contributions												
Parging Year One	\$12	3	3	3	3	\$12								
Paving Year Two	\$12		3	3	3	\$12								
Plumbing Year Three	\$12	3	3	3	3	\$12								
Retaining Wall Year Four	\$12	3	3	3	3	\$12								
Total Cost	\$48 \$12		\$12	\$12	\$12	\$48								

Questions

Housekeeping Note ...

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Module 5

Inflation and Reserve Fund Planning

Understand Inflation - CPI vs PPI

- Consumer Price Index (CPI)
 - Food Costs
 - Fuel Costs
 - Electricity Costs
 - Housing Costs (meaning rent)
- Producer Price Index (PPI)
 - Manufacturing costs
 - Construction costs

Percentage Changes in Producer Price Indexes (PPIs)

for

Construction Materials & Components, (2003 - 2013)

Percentage Change in Producer Price Indexes (PPIs) for Construction Materials, Structure Types & Subcontractors, 2003-2013

BLS Series ID		1	2 month	gh Dec	to February 2013 since									
		2007	2008	2009	2010	2011	2012	1/13	11/12	2/12	12/03			
Table 1: Chang	ges in Consumer, Producer & Construction Prices	13	.5==3		7.3	375 - 39	8 8	(Carried	SOUTH	FRANK I				
CUUR0000SA0	Consumer price index (CPI-U)	4.1	0.1	2.7	1.5	3.0	1.7	0.8	0.8	2.0	26.0			
WPUSOP3000	Producer price index (PPI) for finished goods	6.2	-0.9	4.3	3.8	4.7	1.3	0.8	0.9	1.7	35.8			
PCUBCON	PPI for inputs to construction industries	4.8	2.8	0.4	5.3	5.2	1.3	1.3	1.8	2.0	52.7			
PCUBHWY	Highway and street construction	10.1	-0.6	3.9				discontin	ued after	June 2	010			
PCUBHVY	Other heavy construction	6.9	1.3	-0.1				discontinued after June 2010						
PCUBBLD	Nonresidential buildings	4.8	2.2	0.3				discontin	ued after	June 2	010			
PCUBNON	PPI for inputs to nonresidential construction					5.7	0.8	1.3	1.7	1.7				
PCUBNCS	Commercial structures					4.9	1.1	8.0	1.3	1.6				
PCUBNIS	Industrial structures					5.2	8.0	0.9	1.1	1.2				
PCUBONS	Other nonresidential (highway, other heavy)					6.1	0.7	1.5	1.8	1.6				
PCUBRSM	PPI for inputs to multi-unit residential	3.8	3.0	-0.5				discontin	ued after	June 2	010			
PCUBRES	PPI for inputs to residential (formerly single-unit)	2.5	5.0	-0.6	4.3	4.8	2.0	1.1	1.9	2.5	44.8			

Changes in Producer Price Indexes

Percentage Change in Producer Price Indexes (PPIs) for Construction Materials, Structure Types & Subcontractors, 2003-2013

BLS Series I	D	1	hs throu	gh Dece	to February 2013 since						
-300000			2008			2011		1/13		2/12	12/03
	ges in PPIs for Specific Construction Inputs										
WPU057303	#2 diesel fuel	33.9	-38.2	22.1	26.4	20.0		7.2	5.6		
WPU139401	Asphalt paving mixtures and blocks	1.6	34.3	-9.3	4.4	8.4	4.4	-0.1	0.3		
WPU136	Asphalt felts and coatings	1.4	57.8	-7.5	1.8	5.8	-0.3	-1.2	-1.8		
WPU1361	Prepared asphalt & tar roofing & siding products	2.3	57.5	-5.5	1.9	2.5	-0.6	-1.5	-1.6	7.2	101.1
WPU133	Concrete products	3.8	4.1	-1.4	-0.4	0.9	2.4	0.3	1.3	2.3	3 41.4
WPU1331	Concrete block and brick	3.3	4.2	0.2	-1.1	1.1	1.5	-0.1	0.3		
WPU1332	Concrete pipe	10.0	4.2	-6.5	0.4	1.4	4.3	0.1	1.5	5.2	2 33.4
WPU1333	Ready-mixed concrete	3.1	4.2	-1.1	-1.2	0.5	2.3	0.4	1.3		
WPU1334	Precast concrete products	4.7	4.3	1.6	1.0	2.9	2.5	0.0	1.8		
WPU1335	Prestressed concrete products	2.2	2.8	-10.6	4.7	-3.1	-0.2	1.1	1.8		
WPU1342	Brick and structural clay tile	0.0	0.3	-0.9	-0.3	-2.6	-2.6	0.4	-0.5		
WPU072106	Plastic construction products	0.4	4.1	-0.7	3.3	3.6	4.7	0.0	0.4	1.4	1 50.8
NPU137	Gypsum products	-22.1	7.2	-10.2	3.2	-1.6	14.0	4.4	16.4	17.8	52.7
WPU1392	Insulation materials	-3.5	0.8	-0.7	4.6	5.4	5.1	2.1	4.2	5.9	32.7
WPUSI004011	Lumber and plywood	-0.7	-6.8	0.1	5.7	-0.7	10.8	2.3	8.9	15.8	3 7
WPU062101	Architectural coatings	4.2	16.6	-0.5	-0.1	4.2	10.1	-0.5	0.2	0.3	70.1
WPU1017	Steel mill products	0.9	4.8	-9.8	12.5	12.2	-7.9	-0.9	-0.1	-9.7	7 75.6
WPU101704	Hot-rolled bars, plates, & structural shapes	8.1	3.3	-13.4	18.4	13.2	-9.6	-2.0	0.1	-10.8	88.6
WPU101706	Steel pipe and tube	-1.3	28.6	-19.5	19.6	13.7	-6.1	-1.1	-2.1	-11.6	124.4
WPU102502	Copper and brass mill shapes	-3.0	-23.3	41.3	11.8	-9.3	1.0	0.7	2.8	-2.3	166.7
WPU102501	Aluminum mill shapes	-1.7	-4.0	-8.1	11.6	0.6	-1.6	0.6	1.3	-1.5	25.6
NPU1073	Sheet metal products	0.2	7.4	-4.2	4.0	3.7	-0.5	0.6	-1.0	-1.2	34.8
WPU107405	Fabricated structural metal	5.3	11.8	-13.5	1.9	3.8	1.1	-1.2	0.1	-0.4	1 44.4
WPU1074051	Fabricated structural metal bar joists & rebar	4.7	9.4	-10.2	-0.3	1.6	2.0	-1.2	-0.2		
NPU107408	Architectural and ornamental metalwork	2.0	21.8	-5.8	1.6	4.5	0.5	1.0	1.2		
NPU1076	Fabricated steel plate	5.7	21.8	-11.1	3.2	3.0	2.5	-1.0	-0.3	2.0	46.9
WPU1079	Prefabricated metal buildings	2.0	25.5	-14.8	8.4	9.8	-1.2	0.4	0.4	-0.6	5 88.7

Updated 3/15/2013 Source: Bureau of Labor Statistics (BLS): www.bls.gov/cpi for CPI, www.bls.gov/ppi for PPIs Compiled by Ken Simonson (simonsonk@agc.org), Chief Economist, Associated General Contractors of America, www.agc.org

Percentage Changes in Producer Price Indexes (PPIs) 2003 - 2013

Percentage Change in Producer Price Indexes (PPIs) for Construction Materials, Structure Types & Subcontractors, 2003-2013

S Series ID			12 months through December-					to Feb	February 2013 since-		00.0
M 8 36 3		2007	2008	2009	2010	2011	2012	1/13	11/12	2/12	12/03
Table 4: Chang	es in PPIs for Basic Inputs Important to Construction										
WPU056	Crude petroleum (domestic production)	51.7	-57.7	87.0	24.8	16.2	-11.3	2.0	9.5	-5.8	234.0
WPU05810212	Asphalt (at refinery)	-0.2	48.3	5.6	-5.1	32.1	-2.5	-3.2	-10.9	-15.9	226.1
WPU066	Plastic resins and materials	9.7	-8.3	3.4	5.9	9.0	3.5	1.5	2.4	3.3	68.5
WPU1321	Construction sand/gravel/crushed stone	8.4	6.7	2.6	1.7	1.3	2.3	0.1	1.5	2.4	55.3
WPU1322	Cement	4.4	-0.9	-3.7	-6.0	-1.8	3.4	1.8	3.7	5.2	31.8
WPU1011	Iron ore	1.3	12.1	0.5	3.8	22.9	-3.8	-24.6	-27.3	-31.3	35.0
WPU1012	Iron and steel scrap	29.4	-35.2	52.9	38.9	8.7	-15.5	-3.5	-2.3	-17.9	119.2
WPU101212	Stainless and alloy steel scrap	-7.8	-39.8	97.5	29.0	-8.4	-10.2	1.4	10.9	-16.6	
WPU102102	Copper ores	-1.7	-46.6	84.4	28.8	-15.6	1.6	2.7	1.9	-5.4	293.6
WPU102301	Copper base scrap	3.1	-48.2	101.5	19.2	0.6	0.9	1.5	8.8	-1.6	312.5

Updated 3/15/2013 Source: Bureau of Labor Statistics (BLS): www.bls.gov/cpi for CPI, www.bls.gov/ppi for PPIs Compiled by Ken Simonson (simonsonk@agc.org), Chief Economist, Associated General Contractors of America, www.agc.org

Questions

Thank You!

Speaker BIO

Peter B. Miller, RS, EBP

A Principal in the firm of Miller – Dodson Associates, Peter Miller is considered to be one of the nation's leading experts in the field of Reserve Studies and Strategic Financial Planning for community associations. He holds the professional designation of Reserve Specialist (RS). Mr. Miller is a frequent author and lecturer, and was selected to develop and teach the Community Associations Institute's (CAI) Webinar on Reserves and Reserve Studies.

Peter served as the 2004 President of the CAI Washington Metropolitan Chapter, and was a member of the Board of the CAI South Carolina Chapter. Most recently, he served as the 2014 President of the Southeast Virginia Chapter of CAI. He served as Vice-Chair of the CAI National Reserves Committee, and currently serves on the CAI National Business Partners Council, an advisory group to the National Board of Trustees. He has been widely recognized for his efforts in the industry, including the CAI National "President's Award" and "Award for Excellence in Chapter Leadership".

Peter is a graduate of the College of Architecture and Urban Studies at Virginia Tech, and is a member of the Urban Land Institute and The Congress for a New Urbanism.