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SPECIALIZING IN RESERVE STUDIES SINCE 1990 A PROFESSIONAL CORPORATION



Your Condominium-FY18

Chantilly, VA

Level I Full Reserve Study

April 26, 2017



Prepared for:

Board of Directors



Engineer

Mario B. "Ben" Ginnetti, PRA, RS, P.E.

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TABLE OF CONTENTS	<u>PAGE</u>
Executive Summary	1
Study Information	3
Maintenance/Repair/Replacement Tips & Reserve Considerations	5
Reading and Understanding Tables & Charts	7
Photographs	9
Appendix A	
Table of Repair/Replacement Reserves and Years 1-10 Expenses	A1
Years 11 – 30 Expenses	
30-Year Financial Plans	
50-Year Financial Plans	A5
Comparison to other Properties	A6
Comments	A7
Excel Spreadsheet Components	No Page #

EXECUTIVE SUMMARY

KEY TO UNDERSTANDING STUDY RESULTS – The purpose of a reserve study is to establish a financial plan for keeping the property's common and limited common elements in good repair. The plan is developed by identifying the component, assessing its condition and estimating both the time when work will be needed and cost of work. In a **PM+** study these entries can be found beginning on page A1, columns (1), (4) and (5). Those entries combined with reserve savings, current reserve contribution, interest and inflation rates and how much of a contingency should be preserved to fund unforeseen events are the factors that determine the reserve contribution.

RELEVANT DATA

 1st Study Year FY18
 \$700,000 AOH Start FY18 ♦

 FY Begins 1-Jan-18
 185,000 Your Contribution in FY17 ♦

 Inspection Date(s)
 25-Apr-17

 # Units
 200

 2.82% Interest ♦♦

- ♦ <u>AOH</u> (cash/investments start of fiscal year) and <u>Current Year Contribution</u> were provided to <u>PM+</u> and were best estimates available when provided, they are not audited amounts.
- ♦♦ <u>INTEREST AND INFLATION</u> factors¹ best project the future needs of the property. Inflation is based on the last tenyear average for the Consumer Price Index (CPI); interest on savings is based on the ten-year average of the Constant Maturity Yield for the 10-Year U.S. Treasury note.
 - **NOTE** If changes to amounts/factors are desired **PM+** will provide a revised study, if requested.
- THE FOLLOWING TABLE COMPARES AND SUMMARIZES the reserve funding plans. Association column is
 based on the contribution approved by the board of directors or last year's contribution adjusted for inflation. Each
 portrays total funding, amounts expected from interest and contributions, and minimums and maximums year end balances anticipated over 30 and 50-years:

——— CONTRIBUTION & F	UNDING SUM	MARY ———
	Association ²	PM+
	Planned	Recommended
	Contribution	Contribution
Reserve Contribution FY18	\$185,000	\$173,430
Avg Owner Contribution FY18	925	867
Avg Owner Contribution/Month	77.08	72.26
30-Year Income	8,337,400	7,666,070
Income From Interest	1,108,150	888,650
Income From Assessments	7,229,250	6,777,420
30-Year Min Balance	516,970	299,440
30-Year Max Balance	2,989,150	2,425,030
50-Year Min Balance	1,760,440	1,010,770
50-Year Max Balance	5,946,680	4,174,170

ANALYSIS:

- Study findings are shown above and can be summarized "the association's current contribution is more than needed to meet the reserve needs of the property."
 - 1. Although factors used may not prove to be precise they should be reasonable predictors of cost increases and contributions needed to support the reserve requirement over the life of the study.
 - 2. If the study is being done for other than the current fiscal year, inflation is applied to prior year contribution.

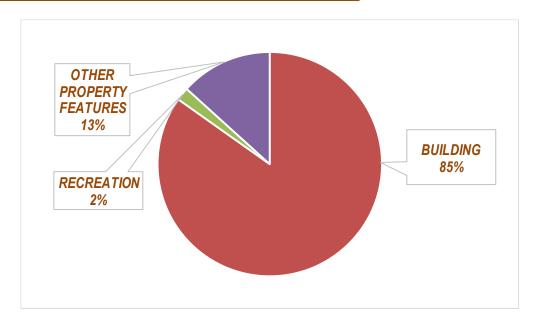
Both the association planned contribution and PM+ recommended contribution use the "Cash Flow" method as defined by the Community Association Institute (CAI) and the Association of Professional Reserve Analysts (APRA) for determining the reserve requirement. Most professional reserve providers, accountants and managers agree cash flow is the preferred method for funding reserves.

- "Component" method calculations are also provided to show the contribution needed if this method is used. Difference between cash flow and component method is cash flow averages the annual expenses over the life of the study to level out the needed contribution, yearly increases are mostly attributable to inflation. Component method is driven mostly by the estimated cost and remaining useful life for the next time work may be needed. Consequently, owner contributions will vary significantly from year to year. See page A3, columns (17) and (20), for a comparison of the contribution plans. Regardless of the plan chosen, both plans require the same amount of funding to pay 30-year expenses. Cash flow studies are considered valid for at least three years before updating; component studies should be update annually.
- The recommended owner contribution assumes interest earned on savings will be applied to the reserves and not used to offset operating account expenses or used for other purposes. If interest is not applied to the reserves, then the annual contribution will need to be increased by the interest amount.
- Funding plan dollar amounts shown on page A3 in columns (15), (18) and (21) are the approximate year end balances, both minimum and maximum, that can be expected if the plans are funded as shown. Properly funded plans will meet the following objectives: 1) funds are always available for needed work, 2) there is always a minimum savings balance available to provide for unforeseen contingencies, and 3) when studies are updated, there is not a substantial increase needed to meet the reserve requirement. To avoid substantial increases PM+ studies take into consideration the first thirty-years of the study and an additional twenty-years, making the "look at" period a total of fifty-years. The 50-year projection is to assure the recommended contribution is based on a sound long range analysis of the property's reserve needs.

RECOMMENDATION:

Fund the reserves to the recommended amount.

WHERE THE CONTRIBUTIONS TO THE RESERVES GO IN 30-YEARS:



STUDY INFORMATION

<u>THIS STUDY</u> is the initial engagement for the property by **PM+**. **PM+** has neither collaborated with nor provided consulting advice to others on issues pertaining to the property.

THIS IS A LEVEL I FULL STUDY with on-site visit. The association requested a Level I Full Study.

<u>STUDY WAS DONE</u> in its entirety by Mario B. "Ben" Ginnetti, a registered professional engineer (**P.E.**) licensed to practice engineering in the states of Virginia, Maryland and the District of Columbia. Mr. Ginnetti is also a CAI Certified Reserve Specialist (**RS**) and a Professional Reserve Analyst (**PRA**).

RESERVE STUDY criteria is defined by the Community Association Institute (CAI) and the Association of Professional Reserve Analysts (APRA). In complying with the criteria this study compares the "Associations" current funding plan to the two recommended methods for preparing reserve studies, "Cash Flow (AKA Pooling)" and "Component." This is a reserve study only - no other use is intended.

STUDY WAS COMPILED in accordance with generally accepted standards and represents our professional opinion on the components, timing and dollar amounts that should be budgeted for repair and replacement. In compiling this study information was obtained from drawings, field measurements, visual observations and management (information provided by management is considered to be reliable). Also taken into consideration are construction features, current conditions and component age. Testing was not performed, nor was demolition done or panels removed to determine conditions that are not obvious. Based on our observations and the information gained during the visit this study contains, to the best of our ability, all material issues required to determine the funding needed to meet the property's reserve requirement.

FOR PROPERTIES LOCATED IN THE STATE OF VIRGINIA, Virginia Statutes, 2003 Condominium and Property Owner's Association Act require the association to conduct reserve studies at least every five years, review the results of the study at least annually and make adjustments as necessary unless the condominium instruments/declaration imposes more stringent requirements. Your attention is called to Sections 55-79.83:1or 55-514.1 of the Statutes for the complete text.

AGE, UNITS AND STYLE

Constructed in 1997. 140-units; 70-single family, 70-townhomes. Major amenities – tot-lot.

CASH FLOW AND COMPONENT METHOD STUDIES

This study was calculated using both the Cash Flow and Component methods. A synopsis of each method:

CASH FLOW METHOD - This method develops the funding plan by having the annual contributions offset the variable annual expenses. All expenses are averaged over the life of the study to calculate the annual contribution needed to support the reserve requirement. Yearly contribution increases are mostly attributed to inflation.

COMPONENT METHOD - This method develops the funding plan by dividing the remaining useful life into the balance needed to fund the component for <u>only</u> the next cycle of work. Yearly contributions can vary significantly from year to year depending on where the components are in their life cycle. Contributions needed to pay expenses will equal the cash flow method over the life of the study.

FUNDING GOAL

This study complies with the "Threshold Funding Plan" established by the Community Association Institute (CAI) for reserve studies. Funding goal objective is to keep the reserve balance above a specified dollar or Percent Funded amount.

IN DEVELOPING the reserve we consider components that have a predictable life cycle as well as those that will

most likely need annual maintenance and repairs to keep them in serviceable condition. They are as follows:

PREDICTABLE LIFE CYCLE

These components have a predictable life cycle (an average useful life). At the end of its useful life total replacement will be needed.

ANNUAL ALLOWANCES

We reserve an average annual amount for these components. They are typically "life of the property" or long lasting components that do not have a predictable life cycle. We assume the association will keep these components in satisfactory condition with timely spot repairs.

FOLLOWING CONSIDERATIONS should be taken into account to properly manage the reserves: 1) properly funded reserves avoids "special assessments", 2) each owner should pay their fair share for the time they use the component, 3) when reserve funds are available the Association is more inclined not to defer work; deferral results in additional deterioration and "catch-up" costs to restore the component to a good condition, 4) government mortgage guarantees agencies, i.e. FHA, require a current reserve study to be available before backing a loan, and 5) some state laws require them. In addition to these considerations, a new factor has recently become apparent. Years ago owners were poorly informed on the importance of the reserves and paid very little attention to whether or not a property had an adequate plan for funding the reserves. With the inclusion of reserve tables in resale packages and other publicity, many potential buyers are now verifying the reserve status before they buy.

<u>ALTHOUGH</u> we use generally accepted techniques and best information available, it is possible actual costs and useful lives can vary significantly from our estimates. We recognize that possibility and attempt with our methodology to arrive at the overall funding recommendation that will avoid, or minimize the amount of funding if a special assessment is needed to do reserve work.

FOR THE RESERVES to be an effective budget management tool it will need periodic updates. Because reserves on hand, current costs, quality of maintenance, acts of God, vandalism, and useful life can vary from year to year, a periodic review will assure it remains an effective management tool. We recommend studies be updated every 3 years.

<u>UNLESS OTHERWISE NOTED</u> this study does not take into consideration any work the association may need to correct hazardous or defective conditions, such as issues with asbestos, radon, lead, mold, FRT, etc., nor will it fund major projects to repair/replace facades, building tension cables, utilities and other essential systems. Projects of this nature require the services of engineers or other consultants to determine scope, timing and projects costs. If requested, once costs and project timing are known, we will provide a revised study at no additional cost.

<u>FOR ANY RESERVE PROJECTS</u> in progress on the date(s) of our visit our observation of the work should not be considered a project audit or quality control inspection. We leave that to others to determine.

IF WE DESCRIBE PREVENTIVE MAINTENANCE recommendations in this study they are intended to be general in nature and the most common tasks needed to extend useful life. They are not all inclusive; we do not imply that is all that is necessary for good maintenance. Manufactures' brochures, service specialty companies, and other qualified sources should be consulted to establish the full array of actions needed for proper preventive maintenance.

<u>FUNDING FROM RESERVE VERSUS OPERATING ACCOUNT</u> - There could be components in this study the association is funding from the operating account. When there are we recommend they be funded from the reserves. When components are worked on it usually extends their useful life - a proper reserve expense. Reserve funds are intended to keep property components in good repair and to replace those that need replacing; operating funds are intended for maintenance and reoccurring operating expenses.

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MAINTENANCE/REPAIR/REPLACEMENT TIPS & RESERVE CONSIDERATIONS

THERE ARE THREE LEVELS of care needed to maximize the useful life of equipment and property components: 1) Maintenance, 2) Repair and 3) Replacement.

MAINTENANCE is taking care of a component by doing such tasks as sealing pavement cracks to prevent water from undermining the base, painting to prevent metal corrosion or wood rot, lubricating moving parts on mechanical equipment, fan belt adjustments, etc. It involves the least expenditure of funds and is the best way to maximize useful life. Repair is replacing a portion of a component, such as, a section of pavement, a part of a roof, an air conditioning compressor, etc. It's usually more expensive than maintenance. The most costly is replacement. It involves the entire replacement of the component.

<u>APPLICATION</u> of good maintenance and repair techniques can be explained by the following example: An asphalt parking lot of 1000 square yards develops a 10 foot long crack in the surface. The crack can be sealed for about a dollar a linear foot. By doing so, water will not seep through the asphalt causing damage to the base course. That simple maintenance action extended the useful life of the pavement at minimum cost. Assume the crack was not sealed and it grew to a 12' by 12' base damaged area. Cost of repairs would be approximately 60 times as much as fixing the crack. If the damaged area was not repaired and eventually the entire lot had to be replaced it would cost considerably more. Therefore, the prudent thing to do is good maintenance. It's the least costly of the three levels of work.

PRIOR TO TOTALLY REPLACING a component, e.g., a roof, a fence, an air conditioner, etc., all measures should be taken to extend the useful life of the component with repairs. If the roof is leaking do not automatically think the entire roof needs to be replaced. Most leaks occur around penetrations and flashed areas and they can be repaired for less than replacing the entire roof. Fence posts almost always rot out at ground level before the rest of the fence. Posts can be replaced without purchasing a complete new fence. The same applies to most mechanical/electrical equipment. Tube leaks frequently occur in boilers; compressor failures occur in air conditioners and circuit breakers wear out in electric panels. These kinds of failures are repairable without replacing the entire component. The reserve table should be used as an aid in establishing budgets - not as a work plan. When used as a budget management tool its effectiveness will be recognized when funds are readily available to do work - when it must be done. Do not use the remaining useful life data as a work plan. It should be treated as a "window of probable expectancy", based on statistical information, historical trends, conditions at time of survey and experience of when repair or replacement is most likely to be needed. Actual work should not be done until needed. For example, if paving is estimated to need replacement in five years but it's not a problem at that time, put it off until it is a problem. Conversely, if repairs are necessary sooner, do them sooner.

<u>WHEN CONTRACTING</u> for services, seek competitive bids and purchase only what's necessary to restore the component to its "like original" condition. Include state-of-the-art improvements but avoid over buying or substantially enhancing a component beyond its original condition. Such improvements are not included in the cost estimates.

<u>CATASTROPHIC FAILURES</u> to such components as footers, foundations, floors, exterior walls and total replacement of utility systems, etc., are not included in the table. They are not included because they are not predictable and it is rare that these components have to be replaced in total. We do recommend a reasonable annual amount be set aside for some repairs and reflect that in the reserve table.

<u>FUNDING FOR RESERVES SHOULD BE FAIR TO ALL OWNERS</u>; past, present and future. The worst case scenario for a property is to have no money set aside to pay for repairs/replacements forcing the current owners to pay the total cost. Additionally, having insufficient reserves also presents some injustices as illustrated by the following example:

Mr. and Mrs. "X" owned a unit at the property for the first ten years of its existence when reserve funding was suppressed and insufficient to take care of future problems. Mr. and Mrs. "X" sell their unit and leave. Five years after

they leave the pavement and sidewalks need to be repaired. Mr. & Mrs. "Y" now own the unit and receive notice they are to be "specially assessed" to pay for the repair costs.

For demonstration purposes let's say the pavement and sidewalk repairs costs \$150,000 and the association has \$50,000 in the reserve account. Let's also assume there are 100 units at this property.

Over the last fifteen years, past and present owners set aside \$50,000 to take care of the \$150,000 expenditure. Expressed in \$/year that equates to \$3,333/yr. or \$33.33 per owner per year.

Mr. & Mrs. "X" had the benefit of good paving and sidewalks for 10 years at a total cost to them of \$333.30. Unfortunately for Mr. & Mrs. "Y", they only used the components for five years, but it will cost them \$1166.50 for their share of the repairs.

Calculations for the above are as follows:

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5 years they lived there X $33.33/yr. = $166.50
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The difference between amount in reserves and repair costs divided by number of unit owners:

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($150,000-50,000)/100 = $1000.00
Total cost to Mr. & Mrs. "Y" = $1166.50
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Or, said another way:

Mr. and Mrs. "X" used the components for 66% of their useful life but only paid 22% of the repair cost.

Mr. and Mrs. "Y" used the components for 34% of their useful life but had to pay 78% of the cost.

For funding to be fair all owners should contribute their share of the costs for the period of time they use the component.

READING and UNDERSTANDING TABLES & CHARTS

RELEVANT DATA

Study fiscal year, inspection date(s), units, association's financial data, and interest/inflation rates.

CONTRIBUTION SUMMARY

Financial summary of study results.

TABLE OF REPAIR & REPLACEMENT RESERVES

The Repair and Replacement Table shows the common or limited common element, average and remaining useful life, and estimated cost for work. This information, for the most part, is self-explanatory; however, when we believe more information is needed, we provide comments or use photographs.

Column

- (1) The property components the association should include in the reserves. Where a 15%, 30%, etc., is shown it means total replacement of the item is not anticipated. If we have omitted or added components that are not common or limited common area responsibility, please inform us so we can provide a revised table. It also applies if the association accomplishes the work from their annual operating expense and a reserve set-aside is not needed. If components are included that are operating expenses, we leave it to others to determine the correct tax consequence of the component.
- (2) Approximate quantity and unit of measure. The following abbreviations are used; however, they may not all appear in this study:

AC – Acres LF - Linear Feet TN - Tons AOH - Amount-On-Hand LS - Lump Sum UN - Units

AnAvg - Annual Average HP - Horsepower > - Greater Than BLD - Building RC - Replacement Cost < - Less Than

EA - Each SF - Square Feet CY - Cubic Yards SY - Square Yards

- (3) The components' average useful life (Avg). Leading publications on useful life data, our own experiences and historical trends are used to determine average useful life.
- (4) Our best estimate of the remaining useful life (RUL). Some components in the table may not fail precisely as shown. We use the remaining useful life in conjunction with the estimated cost to calculate the annual contribution needed to fund the component. Actual remaining useful life can be significantly different.
- (5) Estimated costs are in current dollars; actual cost can be significantly different. Estimates are based on similar work in the greater Washington area, association experience, industry publications, such as R.S. Means and HomeTech, contractors and other reliable sources. It assumes the association will competitively seek bids and obtain a fair price in today's market. Some work, such as balconies, roofing, garages, façade, boiler and chiller replacements, etc. may need the services of an engineer or architect to determine scope and oversee repairs. Those estimates take precedence over those shown in the table. Some costs can be more predictable than others, i.e., when roofs and pavements are replaced the entire component will most likely be replaced so a total replacement costs can be estimated. Other components, such as closed loop piping, plumbing, electrical and fire protection systems may not need total replacement and will continue to perform with sub-systems being repaired. For these components, we reserve a reasonable amount for this work.
- (6) Distribution of the funds the association had (is projected to have) at the start of their fiscal year or the amount we were requested to use. The program distributes a prorated amount to each component.
- (7) The amount needed to fund the balance of the requirement.

(8) The contribution needed to fund the 1st year applying the cash flow method. This value is the product of the components and the Funding Plans - 30 Year Projection chart. The annual contribution is calculated so that the reserve balance never falls below the "X" axis and there is always a minimum balance for unforeseen contingencies.

- (9) The contribution needed to fund the 1st year applying the component method.
 - Fiscal Years 1 10 Expense Projection Projected cash out-lays over the first ten years of the study.
 - Fiscal Years 11 30 Expense Projection Projected cash out-lays over the next twenty years of the study.

Average Contribution Per Owner - The average contribution needed per owner to fund the 1st year reserve contribution. This amount is not indicative of each owner's individual contribution.

FUNDING PLANS - 30 YEAR PROJECTION

Column

- (10) Fiscal Year.
- (11) Projected annual expenses.
- (12) Cumulative expenses over 30-years.
- (13), (16) and (19) Interest earned per funding plan based on previous year end balance.
- (14), (17) and (20) Contribution per funding plan, inflation applied.
- (15), (18) and (21) Projected year-end balance per funding plan.

GRAPHS

Graphs depict the projected contributions and year end balances for each plan. The contribution objective should be to have a consistent contribution, year after year, that can be maintained with inflation adjustments. Avoid fluctuating contributions as they can impose financial hardships on owners. The plot objective for the reserve balance is to have the year end balances always above the "X" axis. If it falls below, it indicates a special assessment or loan will be needed to support the reserves.

SUMMARY

- 30-Year Income projected from interest and owners.
- 30 & 50-Year Minimum/Maximum Balances includes contingency for unforeseen events.

PROPERTY COMPARISON (NOT SHOWN IN SOME STUDIES)

The "Property Comparison" chart compares the property's current funding to the last properties we have studied. The comparison shows the maximums, minimums, property averages and medians compared to your property. Property features differ from one property to another so consider these as averages only and not a true comparison on your property to another similar property. Three comparisons are made:

- % Funded Ratio of the <u>current</u> to the <u>ideal</u> Reserve Balance for each component in the Reserve Table. The ratio is a product of the "used-up" life, useful life and component cost.
- Reserve Depletion Factor Number of years amount-on-hand will fund (It's the same as the "go broke" date if no more money is added to the reserves).
- Cost Per Owner Average contribution per owner needed to meet the reserve requirement. Dollar amounts will vary
 from property to property based on construction features, common/limited common elements, past contributions to
 the reserves and other factors that may not result in a true comparison.

Front view of building. Photo deleted in sample to withhold property identification.

Rear view of building. Photo deleted in sample to withhold property identification.

Your Condominium is a 200-unit community constructed in 1978 and is located in Chantilly, Virginia.

There are 12 residential floors and a two level underground garage.



There are two roofing systems -this is the Inverted Roof Membrane system. These systems can last 30-years or more if maintained and repaired as needed.



The second system - fiberglass shingles over the penthouse unit.



Corridors are carpeted; walls are painted. Illumination is with ceiling and wall mounted fixtures.



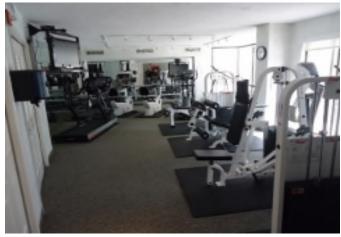
Ceramic tile flooring is placed on the first floor and garage level elevator lobbies.



Sealer placed on balconies years ago to prevent concrete structural damage has worn thin. Sealer reapplication should be done within the next two years.



Entrance door to roof-top mechanical room is corroding. Periodic painting will control rust and extend the doors useful life.



Exercise room has eleven major pieces and is nicely equipped.



Swimming pool to include shell, deck, filters, water heaters, handicap bathroom and fence were all recently re-furbished.



We reserve for the ladies and men's room to be renovated.



Both saunas are in good repair.



Cooling towers are performing without major problems.



All four elevators and cabs were recently renovated to improve performance and meet current code requirements.

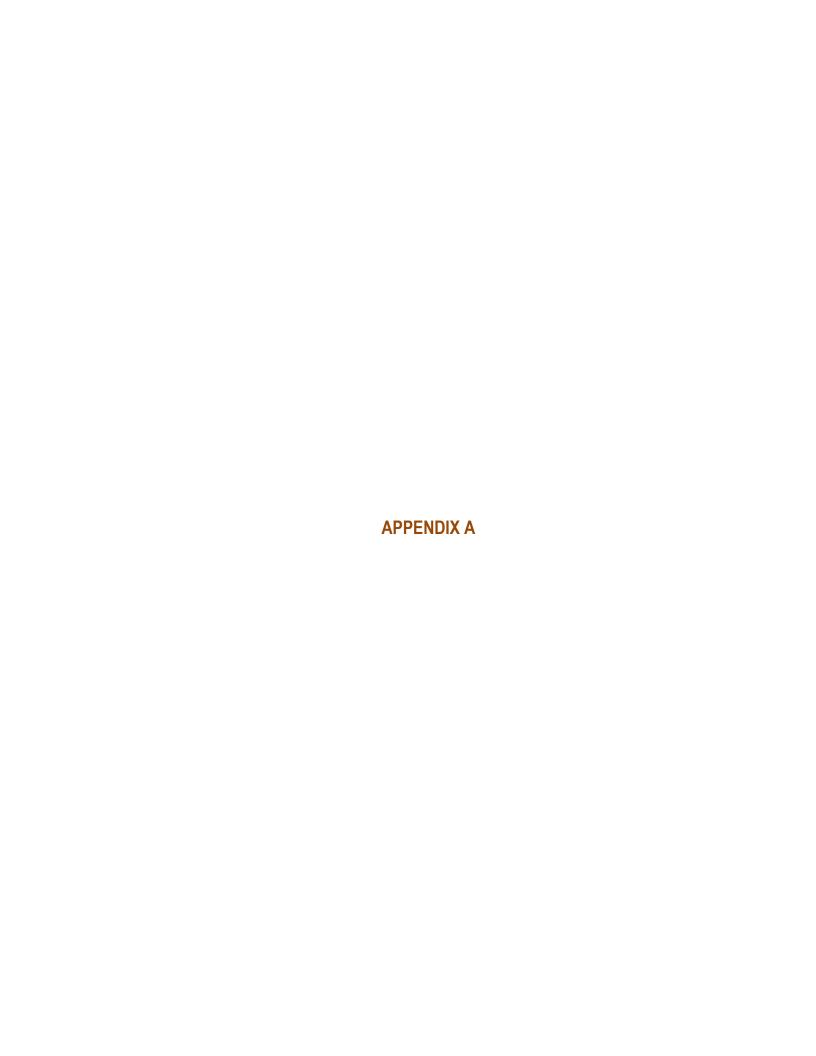


Water booster pump was recently replaced.



Mail boxes will eventually need to be replaced.

Other photographs as needed.



COMPONENT	APPROX QUAN		USEFUL AVG (YR	REM	COST IN CURRENT \$	DISTR'BTN OF AOH AS OF 1-Jan-18	BALANCE NEEDED TO FUND RESERVE	FY18 CONTRIBU CASH FLOW C	OMPONENT	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
(1)	(2)		(3)	(4)	(5)	(6)	(7)	(8)	(9)										
BUILDING																			
ROOFING																			
MAIN ROOF-IRMA	Deleted	SF	25	3	191,210	36,630	154,580	21,640	19,750	0	0	198,000	0	0	0	0	0	0	0
ROOF-SHINGLES	in	SF	25	2	3,380	650	2,730	570	520	0	3,440	0	0	0	0	0	0	0	0
FACADE/CAULK/WATERPROOFING	Sample	LS	5	3	27,000	5,170	21,830	3,060	2,790	0	0	27,960	0	0	0	0	30,510	0	0
WINDOW/DOORS																			
WINDOWS		EΑ	45	12	556,200	106,550	449,650	15,740	14,360	0	0	0	0	0		0	0	0	
MAIN ENTRANCE DOORS	\downarrow	EΑ	45	11	6,000	1,150	4,850	190	170	0	0	0	0	0	0	0	0	0	0
DECORATING																			
CORRIDORS																			
CARPET		SF	10	7	90,300	17,300	73,000	4,380	4,000	0	0	0	0	0		100,270	0		
CORRIDOR LIGHT FIXTURES		EΑ	25	10	49,000	9,390	39,610	1,660	1,520	0	0	0	0	0	0	0	0	0	57,330
BATHROOMS										_	_	_	_	_	_	_	_	_	
RENOVATION		EA	25	10	16,000	3,060	12,940	540	500	0	0	0	0	0	0	0	0	0	18,720
BALCONIES PALCONIC PERAIDO			40	•	202.000	F7 470	040.500	50.000	40.400	0	005 000		•	0		•	0	0	•
BALCONY REPAIRS	•	EA	10	2	300,000	57,470	242,530	50,930	46,480	0	305,280	0	0	0	0	0	0	0	0
MECHANICAL/PLUMBING/ELECTRICAL																			
MECHANICAL COOLING TOWER(S)		Γ.	05	1.1	445.000	85.240	359.760	10.790	9.850	0	0	0	0	0	0	0	0	0	0
(-)		EA EA	25 30	14 29	445,000	28.480	120.190	-,	- ,	0	0	0	0	0		0	0		
CORRIDOR HVAC PLUMBING		EA	30	29	148,670	20,400	120,190	1,740	1,590	U	U	U	U	U	U	U	U	U	U
PLUMBING/CONDENSATE/DRAINS		LS	40	6	260,000	49,810	210,190	14,710	13,430	0	0	0	0	٥	283,700	0	0	0	0
WATER HEATER(S)		EA	15	13	6,000	1.150	4.850	14,710	140	0	0	0	0	0	,	0	-		
ELECTRICAL		LA	13	13	0,000	1,130	4,000	100	140	U	U	U	U	U	U	U	U	U	U
SWITCHGEAR/COMMON AREA PANELS/WIRING		LS	40	6	260,000	49.810	210.190	14,710	13,430	0	0	0	0	0	283,700	0	0	0	0
ELEVATORS		LO	40	Ū	200,000	40,010	210,130	14,710	10,400	Ū	Ū	· ·	· ·	Ū	200,700	· ·	Ū	Ū	· ·
ELEVATORS		EA	30	29	920.000	176.230	743.770	10.770	9.830	0	0	0	0	0	0	0	0	0	0
MECHANICAL/PLUMBING/ELECTRICAL		LS	1	1	12,000	2,300	9,700	4,070	3,720	12,000	12,210	12,430	12,640	12,870	13,090	13,320	13,560	13,800	
										,	, -	,	,	,-	-,	-,-	,,,,,,	,,,,,,	,
TOTAL BUILDING					3,290,760	630,390	2,660,370	155,660	142,080										
RECREATION																			
SWIMMING POOL		0.5	-		40.700	0.070	0.700	000	0.40	0	0		44.070	0		•	0	0	•
WHITECOAT		SF	7	4	10,790	2,070	8,720	920	840	0	0	0	11,370	0	-	0	0	0	
FILTER/PUMPS/WATER LINES		LS	15	12	15,000	2,870	12,130	420	390	0	0	0	0	0		0	0	0	
COPING/TILES/WALLS&FLOORS		LS	14	11	16,220	3,110	13,110	500	460	0	0	0	0	0	0	0	0	0	0
TOTAL RECREATION					42,010	8,050	33,960	1,840	1,690										
	•																		
OTHER PROPERTY FEATURES																			
GARAGE																			
GENERAL REPAIRS		SF	12	5	168,000	32,180	135,820	11,410	10,410	0	0	0	0	180,140		0	0	0	-
OVERHEAD DOORS		EΑ	12	5	27,000	5,170	21,830	1,830	1,670	0	0	0	0	28,950		0	0	0	
MAIL BOXES		EA	40	40	32,000	6,130	25,870	270	250	0	0	0	0	0	-	0	0	0	
STREET LIGHTS		EΑ	35	18	92,400	17,700	74,700	1,740	1,590	0	0	0	0	0	•	0	0	0 2,300	-
SITE ITEMS		LS	1	1	2,000	380	1,620	680	620	2,000	2,040	2,070	2,110	2,140	2,180	2,220	2,260		

Level I Full Reserve Study

COMPONENT	APPROX'MT QUANTITY	USEFUL LIFE AVG REM (YRS)		DISTR'BTN OF AOH AS OF 1-Jan-18	BALANCE NEEDED TO FUND RESERVE	FY1 CONTRIB CASH FLOW METHO	UTION COMPONENT	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
(1)	(2)	(3) (4)	(5)	(6)	(7)	(8)	(9)										
TOTAL OTHER PROPERTY FEATURES			321,400	61,560	259,840	15,930	14,540										
TOTAL BUILDING			\$3,654,170	\$700,000	\$2,954,170	\$173,430	\$158,310	\$14,000	\$322,970	\$240,460	\$26,120	\$224,100	######	\$115,810	\$46,330	\$16,100	\$92,430
			======	=====	=====	======	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
			F	Reserve Contri	bution FY18	\$173,430	\$158,310										
			Avg	Owner Contri	bution FY18	867	792										
Notes:				Owner Contrib		72	66										

All dollars rounded to nearest \$10. Totals may not add due to rounding. One year remaining useful life indicates the useful life of the component is used up.

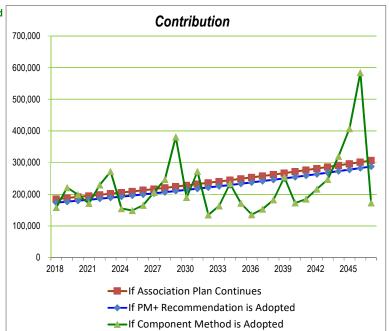
COMPONENT	USEFUL L		ESTIMATED COST IN																				
	(YR		CURRENT \$	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047
(1)	(3)	(4)	(5)																				
BUILDING																							
ROOFING MAIN ROOF-IRMA	25	3	191,210	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	306,260	0	0
ROOF-SHINGLES	25	2	3,380	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5,320	0	0	0
FACADE/CAULK/WATERPROOFING	5	3	27,000	0	0	33,290	0	0	0	0	36,320	0	0	0	0	39,630	0	0	0	0	43,250	0	0
WINDOW/DOORS	45	40	EEC 000	0	670.070	0	0	•	0	0	0	^	0	^	0	0	0	0	0	0	0	0	0
WINDOWS MAIN ENTRANCE DOORS	45 45	12 11	556,200 6.000	0 7,140	673,870 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0
DECORATING CORRIDORS	40		0,000	7,140	v	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	O	v	U
CARPET	10	7	90,300	0	0	0	0	0	0	119,380	0	0	0	0	0	0	0	0	0	142,130	0	0	0
CORRIDOR LIGHT FIXTURES	25	10	49,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BATHROOMS RENOVATION	25	10	16 000	0	0	0	0	0	0	0	0	٥	0	0	0	0	0	0	0	0	0	٥	0
BALCONIES	25	10	16,000	U	U	0	U	U	0	U	U	0	U	U	U	U	U	0	U	U	U	0	U
BALCONY REPAIRS MECHANICAL/PLUMBING/ELECTRICAL	10	2	300,000	0	363,470	0	0	0	0	0	0	0	0	0	432,750	0	0	0	0	0	0	0	0
MECHANICAL						_		_	_	_	_			_		_	_	_		_		_	
COOLING TOWER(S) CORRIDOR HVAC	25 30	14 29	445,000	0	0	0	558,290 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 242,320	0 0
PLUMBING	30	29	148,670	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	242,320	U
PLUMBING/CONDENSATE/DRAINS	40	6	260,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WATER HEATER(S)	15	13	6,000	0	0	7,400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9,610	0	0
ELECTRICAL						_	_	_	_	_	_			_		_	_	_		_		_	
SWITCHGEAR/COMMON AREA PANELS/WIRING ELEVATORS	40	6	260,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ELEVATORS	30	29	920,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,499,500	0
MECHANICAL/PLUMBING/ELECTRICAL	1	1	12,000	14,290	14,540	14,790	15,060	15,320	15,590	15,860	16,140	16,430	-	17,010	17,310	17,610	17,920	18,240	18,560	18,890	19,220	19,560	
				,	,	,	,	,	,	,	,	,	,	,	,	,	,	,	,	,	,	,	,
TOTAL BUILDING			3,290,760																				
RECREATION																							
SWIMMING POOL																							
WHITECOAT	7	4	10,790	12,850	0	0	0	0	0	0	14,520	0	0	0	0	0	0	,	0	0	0	0	0
FILTER/PUMPS/WATER LINES COPING/TILES/WALLS&FLOORS	15 14	12 11	15,000 16,220	0 19,310	18,170 0	0	0	0	0	0	0	0	0	0	0	0	0	0 24,650	0	23,610	0	0	0
COPING/TILES/WALLS&FLOORS	14	11	10,220	19,510	U	U	U	U	U	U	U	U	U	U	U	U	U	24,000	U	U	U	U	U
TOTAL RECREATION			42,010																				
OTHER PROPERTY FEATURES																							
GARAGE		_				_	_	_	_		_	_				_	_	_		_			
GENERAL REPAIRS	12	5	168,000	0	0	0	0	0	0	222,100	0	0	0	0	0	0	0	0	0	0	0	273,820	0
OVERHEAD DOORS MAIL BOXES	12 40	5 40	27,000 32,000	0	0	0	0	0	0	35,690 0	0	0	0	0	0	0	0	0	0	0	0	44,010 0	0 0
STREET LIGHTS	35	18	92,400	0	0	0	0	0	0	0	124,300	0	0	0	0	0	0	0	0	0	0	0	0
SITE ITEMS	1	1	2,000	2,380	2,420	2,470	2,510	2,550	2,600	2,640	2,690	2,740	2,790	2,840	2,890	2,940	2,990	3,040	3,090	3,150	3,200	3,260	
TOTAL OTHER PROPERTY FEATURES			321,400																				
TOTAL BUILDING			¢2 654 170	¢55.070-0	£1 072 470	¢57.050	©E7E 000	¢17.070	¢10,400	¢205,670	¢402.070	¢10.470	¢10 £10	¢10 050	¢4E2.0E0	¢60.490	¢20.040	¢60,226	¢21 650	¢102.100	©201.E40	22 002 470	¢22 220
TOTAL BUILDING			\$3,654,170	\$55,970	\$1,072,470					\$395,670											\$381,540	======	

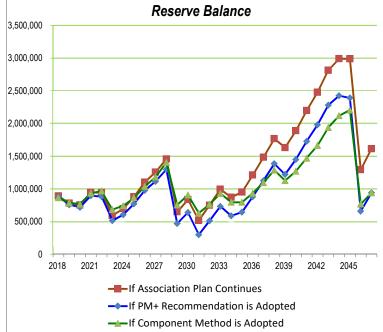
-Association & PM+ Plans are Calcualted Using the Cash Flow Method

<u>FY</u>	Expe	enses	If Associ	ation Plan C	ontinues	f PM+ Reco	ommendatio	n is Adopted	If Compor	ent Method	is Adopted
	Annual *	Cumulative	<u>Interest</u>	Contr'btn	Balance	Interest	Contr'btn	Balance	Interest	Contr'btn	Balance
(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
AOH					\$700,000			\$700,000			\$700,000
2018	14,000	14,000	19,740	185,000	890,740	19,740	173,430	879,170	19,740	158,310	864,050
2019	322,970	336,970	25,120	188,260	781,150	24,790	176,480	757,470	24,370	221,070	786,520
2020	240,460	577,430	22,030	191,570	754,290	21,360	179,590	717,960	22,180	198,800	767,040
2021	26,120	603,550	21,270	194,940	944,380	20,250	182,750	894,840	21,630	171,230	933,780
2022	224,100	827,650	26,630	198,370	945,280	25,230	185,970	881,940	26,330	229,700	965,710
2023	582,670	1,410,320	26,660	201,860	591,130	24,870	189,240	513,380	27,230	272,090	682,360
2024	115,810	1,526,130	16,670	205,410	697,400	14,480	192,570	604,620	19,240	154,700	740,490
2025	46,330	1,572,460	19,670	209,030	879,770	17,050	195,960	771,300	20,880	148,850	863,890
2026	16,100	1,588,560	24,810	212,710	1,101,190	21,750	199,410	976,360	24,360	165,340	1,037,490
2027	92,430	1,680,990	31,050	216,450	1,256,260	27,530	202,920	1,114,380	29,260	206,430	1,180,750
2028	55,970	1,736,960	35,430	220,260	1,455,980	31,430	206,490	1,296,330	33,300	246,810	1,404,890
2029	1,072,470	2,809,430	41,060	224,140	648,710	36,560	210,120	470,540	39,620	381,370	753,410
2030	57,950	2,867,380	18,290	228,080	837,130	13,270	213,820	639,680	21,250	189,980	906,690
2031	575,860	3,443,240	23,610	232,090	516,970	18,040	217,580	299,440	25,570	271,920	628,320
2032	17,870	3,461,110	14,580	236,170	749,850	8,440	221,410	511,420	17,720	134,990	763,160
2033	18,190	3,479,300	21,150	240,330	993,140	14,420	225,310	732,960	21,520	163,300	929,790
2034	395,670	3,874,970	28,010	244,560	870,040	20,670	229,280	587,240	26,220	233,880	794,220
2035	193,970	4,068,940	24,540	248,860	949,470	16,560	233,320	643,150	22,400	171,850	794,500
2036	19,170	4,088,110	26,780	253,240	1,210,320	18,140	237,430	879,550	22,400	135,500	933,230
2037	19,510	4,107,620	34,130	257,700	1,482,640	24,800	241,610	1,126,450	26,320	153,350	1,093,390
2038	19,850	4,127,470	41,810	262,240	1,766,840	31,770	245,860	1,384,230	30,830	182,730	1,287,100
2039	452,950	4,580,420	49,820	266,860	1,630,570	39,040	250,190	1,220,510	36,300	254,420	1,124,870
2040	60,180	4,640,600	45,980	271,560	1,887,930	34,420	254,590	1,449,340	31,720	172,860	1,269,270
2041	20,910	4,661,510	53,240	276,340	2,196,600	40,870	259,070	1,728,370	35,790	184,890	1,469,040
2042	62,330	4,723,840	61,940	281,200	2,477,410	48,740	263,630	1,978,410	41,430	216,370	1,664,510
2043	21,650	4,745,490	69,860	286,150	2,811,770	55,790	268,270	2,280,820	46,940	247,010	1,936,810
2044	193,100	4,938,590	79,290	291,190	2,989,150	64,320	272,990	2,425,030	54,620	320,230	2,118,560
2045	381,540	5,320,130	84,290	296,310	2,988,210	68,390	277,790	2,389,670	59,740	407,740	2,204,500
2046	2,082,470	7,402,600	84,270	301,530	1,291,540	67,390	282,680	657,270	62,170	584,640	768,840
2047	23,220	7,425,820	36,420	306,840	1,611,580	18,540	287,660	940,250	21,680	172,950	940,250
	,		,	,		•	,	,	,	,	,
	20	SUMMARY Voor Income	. 1 100 150	7 220 250		000 650	6 777 400		010.760	6 752 240	
		-Year Income =		1,229,250	E40 070	888,650	6,777,420	200 440	912,760	6,753,310	600 200
		mum Balance =			516,970			299,440			628,320
		mum Balance =			2,989,150			2,425,030			2,204,500
		mum Balance =			516,970			299,440			628,320
5	ou Year Maxir	mum Balance =			5,946,680			4,174,170			2,771,850

Minimum balance does not include the first year.

0-Your Condo-FY18





Notes: * An annual average cost. Expenditures can change from year-to-year depending on when actual work is done. Projections are based on this year - will vary as current cost, useful life, amount-on-hand, contribution and contingency change. Data should be considered a more accurate projection for years 1 - 5 than the out-years.

Same as 30-Year Comparison

2058

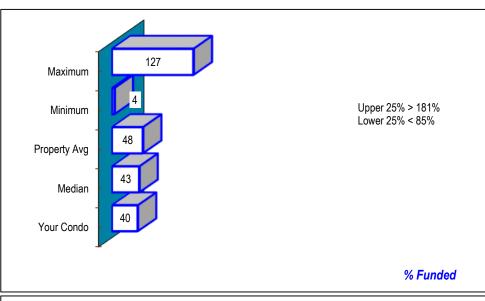
2063

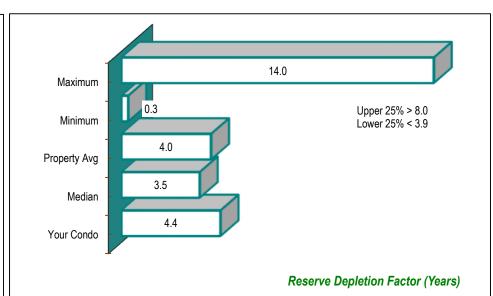
2058

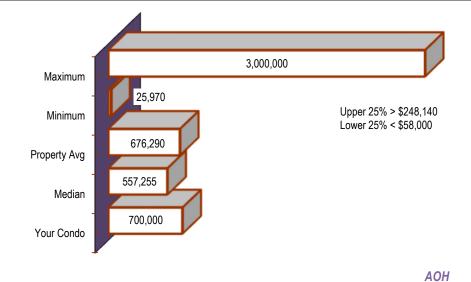
2063

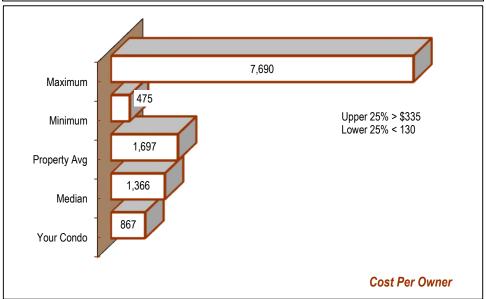
Association & PM+ Plans are Calcualted Using the Cash Flow Method

FY	Exp	enses	If Asso	ciation Pla	n Continues	If Cash	Flow Meth	od is Used	If Comp	onent Meth	od is Used		A (''
_		Cumulative		Contr'btn	Balance		Contr'btn			Contr'btn	Balance		Contribution
(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	700.00	10 -
АОН					700,000			700,000			700,000	,	
2018	14,000	14,000	19,740	185,000	890,740	19 740	173,430	879,170	19,740	158,310	864,050		
2019	322,970	336,970	25,120		781,150	24,790	176,480	757,470	24,370	221,070	786,520	600,00	00
2020	240,460	577,430	22,030		754,290		179,590	717,960	22,180	198,800	767,040		, and the second se
2021	26,120	603,550	21,270	194,940	944,380	20,250	182,750	894,840	21,630	171,230	933,780		Λ
2022	224,100	827,650	26,630		945,280	25,230	185,970	881,940	26,330	229,700	965,710	500,00	10
2023	582,670	1,410,320	26,660		591,130	24,870	189,240	513,380	27,230	272,090	682,360		
2024	115,810	1,526,130	16,670		697,400	14,480	192,570	604,620	19,240	154,700	740,490	400.00	
2025 2026	46,330 16,100	1,572,460 1,588,560		209,030 212,710	879,770 1,101,190		195,960 199,410	771,300 976,360	20,880 24,360	148,850 165,340	863,890 1,037,490	400,00	July 1
2020	92,430	1,680,990	31,050		1,256,260	27,530	202,920	1,114,380	29,260	206,430	1,180,750		/ /
2028	55,970	1,736,960		220,260	1,455,980		206,490	1,296,330	33,300	246,810	1,404,890	300,00	
2029	1,072,470	2,809,430	41,060		648,710		210,120	470,540	39,620	381,370	753,410	300,00	
2030	57,950	2,867,380	18,290	228,080	837,130	13,270	213,820	639,680	21,250	189,980	906,690		
2031	575,860	3,443,240	23,610	232,090	516,970	18,040	217,580	299,440	25,570	271,920	628,320	200,00	
2032	17,870	3,461,110	14,580	236,170	749,850	8,440	221,410	511,420	17,720	134,990	763,160	200,00	
2033	18,190	3,479,300		240,330	993,140		225,310	732,960	21,520	163,300	929,790		
2034	395,670	3,874,970		244,560	870,040		229,280	587,240	26,220	233,880	794,220	100,00	0
2035	193,970	4,068,940		248,860	949,470		233,320	643,150	22,400	171,850	794,500		
2036	19,170	4,088,110	26,780		1,210,320		237,430	879,550	22,400	135,500	933,230		
2037	19,510	4,107,620		257,700	1,482,640		241,610	1,126,450	26,320	153,350	1,093,390		0 +
2038 2039	19,850 452,950	4,127,470 4,580,420		262,240 266,860	1,766,840 1,630,570		245,860 250,190	1,384,230 1,220,510	30,830 36,300	182,730 254,420	1,287,100 1,124,870		2018 2023 2028 2033 2038 2043 2048 2053
2039	60,180	4,640,600		271,560	1,887,930		254,590	1,449,340	31,720	172,860	1,269,270		■If Association Plan Continues → If Cash Flow Method is Used
2040	20,910	4,661,510		276,340	2,196,600		259,070	1,728,370	35,790	184,890	1,469,040		
2042	62,330	4,723,840		281,200	2,477,410		263,630	1,978,410	41,430	216,370	1,664,510		—If Component Method is Used
				286,150			268,270	2,280,820	46,940	247,010	1,936,810		
2043	21,650	4,745,490	09,000	200,100	2,011,770	00,100							
2043 2044	21,650 193,100	4,745,490		291,190	2,811,770 2,989,150		272,990	2,425,030	54,620	320,230	2,118,560		Reserve Balance
				291,190		64,320 68,390	272,990 277,790					7 000 000	Reserve Balance
2044	193,100	4,938,590	79,290 84,290 84,270	291,190 296,310 301,530	2,989,150 2,988,210 1,291,540	64,320 68,390 67,390	272,990 277,790 282,680	2,425,030 2,389,670 657,270	54,620 59,740 62,170	320,230 407,740 584,640	2,118,560 2,204,500 768,840	7,000,000	Reserve Balance
2044 2045	193,100 381,540 2,082,470 23,220	4,938,590 5,320,130 7,402,600 7,425,820	79,290 84,290 84,270 36,420	291,190 296,310 301,530 306,840	2,989,150 2,988,210 1,291,540 1,611,580	64,320 68,390 67,390 18,540	272,990 277,790 282,680 287,660	2,425,030 2,389,670 657,270 940,250	54,620 59,740 62,170 21,680	320,230 407,740 584,640 172,950	2,118,560 2,204,500 768,840 940,250	7,000,000	Reserve Balance
2044 2045 2046 2047 2048	193,100 381,540 2,082,470 23,220 23,630	4,938,590 5,320,130 7,402,600 7,425,820 7,449,450	79,290 84,290 84,270 36,420 45,450	291,190 296,310 301,530 306,840 312,240	2,989,150 2,988,210 1,291,540 1,611,580 1,945,640	64,320 68,390 67,390 18,540 26,520	272,990 277,790 282,680 287,660 292,720	2,425,030 2,389,670 657,270 940,250 1,235,860	54,620 59,740 62,170 21,680 26,520	320,230 407,740 584,640 172,950 208,790	2,118,560 2,204,500 768,840 940,250 1,151,930		Reserve Balance
2044 2045 2046 2047 2048 2049	193,100 381,540 2,082,470 23,220 23,630 557,810	4,938,590 5,320,130 7,402,600 7,425,820 7,449,450 8,007,260	79,290 84,290 84,270 36,420 45,450 54,870	291,190 296,310 301,530 306,840 312,240 317,740	2,989,150 2,988,210 1,291,540 1,611,580 1,945,640 1,760,440	64,320 68,390 67,390 18,540 26,520 34,850	272,990 277,790 282,680 287,660 292,720 297,870	2,425,030 2,389,670 657,270 940,250 1,235,860 1,010,770	54,620 59,740 62,170 21,680 26,520 32,480	320,230 407,740 584,640 172,950 208,790 300,790	2,118,560 2,204,500 768,840 940,250 1,151,930 927,390	7,000,000	Reserve Balance
2044 2045 2046 2047 2048 2049 2050	193,100 381,540 2,082,470 23,220 23,630 557,810 71,660	4,938,590 5,320,130 7,402,600 7,425,820 7,449,450 8,007,260 8,078,920	79,290 84,290 84,270 36,420 45,450 54,870 49,640	291,190 296,310 301,530 306,840 312,240 317,740 323,330	2,989,150 2,988,210 1,291,540 1,611,580 1,945,640 1,760,440 2,061,750	64,320 68,390 67,390 18,540 26,520 34,850 28,500	272,990 277,790 282,680 287,660 292,720 297,870 303,110	2,425,030 2,389,670 657,270 940,250 1,235,860 1,010,770 1,270,720	54,620 59,740 62,170 21,680 26,520 32,480 26,150	320,230 407,740 584,640 172,950 208,790 300,790 182,510	2,118,560 2,204,500 768,840 940,250 1,151,930 927,390 1,064,390		Reserve Balance
2044 2045 2046 2047 2048 2049 2050 2051	193,100 381,540 2,082,470 23,220 23,630 557,810 71,660 24,900	4,938,590 5,320,130 7,402,600 7,425,820 7,449,450 8,007,260 8,078,920 8,103,820	79,290 84,290 84,270 36,420 45,450 54,870 49,640 58,140	291,190 296,310 301,530 306,840 312,240 317,740 323,330 329,020	2,989,150 2,988,210 1,291,540 1,611,580 1,945,640 1,760,440 2,061,750 2,424,010	64,320 68,390 67,390 18,540 26,520 34,850 28,500 35,830	272,990 277,790 282,680 287,660 292,720 297,870 303,110 308,440	2,425,030 2,389,670 657,270 940,250 1,235,860 1,010,770 1,270,720 1,590,090	54,620 59,740 62,170 21,680 26,520 32,480 26,150 30,020	320,230 407,740 584,640 172,950 208,790 300,790 182,510 191,840	2,118,560 2,204,500 768,840 940,250 1,151,930 927,390 1,064,390 1,261,350		Reserve Balance
2044 2045 2046 2047 2048 2049 2050 2051 2052	193,100 381,540 2,082,470 23,220 23,630 557,810 71,660 24,900 142,980	4,938,590 5,320,130 7,402,600 7,425,820 7,449,450 8,007,260 8,078,920 8,103,820 8,246,800	79,290 84,290 84,270 36,420 45,450 54,870 49,640 58,140 68,360	291,190 296,310 301,530 306,840 312,240 317,740 323,330 329,020 334,810	2,989,150 2,988,210 1,291,540 1,611,580 1,945,640 1,760,440 2,061,750 2,424,010 2,684,200	64,320 68,390 67,390 18,540 26,520 34,850 28,500 35,830 44,840	272,990 277,790 282,680 287,660 292,720 297,870 303,110 308,440 313,870	2,425,030 2,389,670 657,270 940,250 1,235,860 1,010,770 1,270,720 1,590,090 1,805,820	54,620 59,740 62,170 21,680 26,520 32,480 26,150 30,020 35,570	320,230 407,740 584,640 172,950 208,790 300,790 182,510 191,840 229,660	2,118,560 2,204,500 768,840 940,250 1,151,930 927,390 1,064,390 1,261,350 1,383,600	6,000,000 -	Reserve Balance
2044 2045 2046 2047 2048 2049 2050 2051 2052 2053	193,100 381,540 2,082,470 23,220 23,630 557,810 71,660 24,900 142,980 25,780	4,938,590 5,320,130 7,402,600 7,425,820 7,449,450 8,007,260 8,078,920 8,103,820 8,246,800 8,272,580	79,290 84,290 84,270 36,420 45,450 54,870 49,640 58,140 68,360 75,690	291,190 296,310 301,530 306,840 312,240 317,740 323,330 329,020 334,810 340,700	2,989,150 2,988,210 1,291,540 1,611,580 1,945,640 1,760,440 2,061,750 2,424,010 2,684,200 3,074,810	64,320 68,390 67,390 18,540 26,520 34,850 28,500 35,830 44,840 50,920	272,990 277,790 282,680 287,660 292,720 297,870 303,110 308,440 313,870 319,390	2,425,030 2,389,670 657,270 940,250 1,235,860 1,010,770 1,270,720 1,590,090 1,805,820 2,150,350	54,620 59,740 62,170 21,680 26,520 32,480 26,150 30,020 35,570 39,020	320,230 407,740 584,640 172,950 208,790 300,790 182,510 191,840 229,660 228,050	2,118,560 2,204,500 768,840 940,250 1,151,930 927,390 1,064,390 1,261,350 1,383,600 1,624,890	6,000,000 5,000,000	Reserve Balance
2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054	193,100 381,540 2,082,470 23,220 23,630 557,810 71,660 24,900 142,980 25,780 195,460	4,938,590 5,320,130 7,402,600 7,425,820 7,449,450 8,007,260 8,078,920 8,103,820 8,246,800 8,272,580 8,468,040	79,290 84,290 84,270 36,420 45,450 54,870 49,640 58,140 68,360 75,690 86,710	291,190 296,310 301,530 306,840 312,240 317,740 323,330 329,020 334,810 340,700 346,700	2,989,150 2,988,210 1,291,540 1,611,580 1,945,640 1,760,440 2,061,750 2,424,010 2,684,200 3,074,810 3,312,760	64,320 68,390 67,390 18,540 26,520 34,850 28,500 35,830 44,840 50,920 60,640	272,990 277,790 282,680 287,660 292,720 297,870 303,110 308,440 313,870 319,390 325,010	2,425,030 2,389,670 657,270 940,250 1,235,860 1,010,770 1,270,720 1,590,090 1,805,820 2,150,350 2,340,540	54,620 59,740 62,170 21,680 26,520 32,480 26,150 30,020 35,570	320,230 407,740 584,640 172,950 208,790 300,790 182,510 191,840 229,660 228,050 285,050	2,118,560 2,204,500 768,840 940,250 1,151,930 927,390 1,064,390 1,261,350 1,383,600 1,624,890 1,760,300	6,000,000 -	Reserve Balance
2044 2045 2046 2047 2048 2049 2050 2051 2052 2053	193,100 381,540 2,082,470 23,220 23,630 557,810 71,660 24,900 142,980 25,780	4,938,590 5,320,130 7,402,600 7,425,820 7,449,450 8,007,260 8,078,920 8,103,820 8,246,800 8,272,580	79,290 84,290 84,270 36,420 45,450 54,870 49,640 58,140 68,360 75,690 86,710	291,190 296,310 301,530 306,840 312,240 317,740 323,330 329,020 334,810 340,700 346,700 352,800	2,989,150 2,988,210 1,291,540 1,611,580 1,945,640 1,760,440 2,061,750 2,424,010 2,684,200 3,074,810	64,320 68,390 67,390 18,540 26,520 34,850 28,500 35,830 44,840 50,920 60,640 66,000	272,990 277,790 282,680 287,660 292,720 297,870 303,110 308,440 313,870 319,390	2,425,030 2,389,670 657,270 940,250 1,235,860 1,010,770 1,270,720 1,590,090 1,805,820 2,150,350	54,620 59,740 62,170 21,680 26,520 32,480 26,150 30,020 35,570 39,020 45,820	320,230 407,740 584,640 172,950 208,790 300,790 182,510 191,840 229,660 228,050	2,118,560 2,204,500 768,840 940,250 1,151,930 927,390 1,064,390 1,261,350 1,383,600 1,624,890	6,000,000 5,000,000	Reserve Balance
2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055	193,100 381,540 2,082,470 23,220 23,630 557,810 71,660 24,900 142,980 25,780 195,460 78,180	4,938,590 5,320,130 7,402,600 7,425,820 7,449,450 8,007,260 8,078,920 8,103,820 8,246,800 8,272,580 8,468,040 8,546,220	79,290 84,290 84,270 36,420 45,450 54,870 49,640 58,140 68,360 75,690 86,710 93,420	291,190 296,310 301,530 306,840 312,240 317,740 323,330 329,020 334,810 340,700 346,700 352,800 359,010	2,989,150 2,988,210 1,291,540 1,611,580 1,945,640 1,760,440 2,061,750 2,424,010 2,684,200 3,074,810 3,312,760 3,680,800	64,320 68,390 67,390 18,540 26,520 34,850 28,500 35,830 44,840 50,920 60,640 66,000 74,990	272,990 277,790 282,680 287,660 292,720 297,870 303,110 308,440 313,870 319,390 325,010 330,730	2,425,030 2,389,670 657,270 940,250 1,235,860 1,010,770 1,270,720 1,590,090 1,805,820 2,150,350 2,340,540 2,659,090	54,620 59,740 62,170 21,680 26,520 32,480 26,150 30,020 35,570 39,020 45,820 49,640	320,230 407,740 584,640 172,950 208,790 300,790 182,510 191,840 229,660 228,050 285,050 308,470	2,118,560 2,204,500 768,840 940,250 1,151,930 927,390 1,064,390 1,261,350 1,383,600 1,624,890 1,760,300 2,040,230	6,000,000 5,000,000 4,000,000	Reserve Balance
2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056	193,100 381,540 2,082,470 23,220 23,630 557,810 71,660 24,900 142,980 25,780 195,460 78,180 943,140	4,938,590 5,320,130 7,402,600 7,425,820 7,449,450 8,007,260 8,078,920 8,103,820 8,246,800 8,272,580 8,468,040 8,546,220 9,489,360	79,290 84,290 84,270 36,420 45,450 54,870 49,640 58,140 68,360 75,690 86,710 93,420 103,800 90,250	291,190 296,310 301,530 306,840 312,240 317,740 323,330 329,020 334,810 340,700 346,700 352,800 359,010	2,989,150 2,988,210 1,291,540 1,611,580 1,945,640 1,760,440 2,061,750 2,424,010 2,684,200 3,074,810 3,312,760 3,680,800 3,200,470	64,320 68,390 67,390 18,540 26,520 34,850 28,500 35,830 44,840 50,920 60,640 66,000 74,990 60,000	272,990 277,790 282,680 287,660 292,720 297,870 303,110 308,440 313,870 319,390 325,010 330,730 336,550	2,425,030 2,389,670 657,270 940,250 1,235,860 1,010,770 1,270,720 1,590,090 1,805,820 2,150,350 2,340,540 2,659,090 2,127,490	54,620 59,740 62,170 21,680 26,520 32,480 26,150 30,020 35,570 39,020 45,820 49,640 57,530	320,230 407,740 584,640 172,950 208,790 300,790 182,510 191,840 229,660 228,050 285,050 308,470 439,700	2,118,560 2,204,500 768,840 940,250 1,151,930 927,390 1,064,390 1,261,350 1,383,600 1,624,890 1,760,300 2,040,230 1,594,320	6,000,000 5,000,000	Reserve Balance
2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057	193,100 381,540 2,082,470 23,220 23,630 557,810 71,660 24,900 142,980 195,460 78,180 943,140 90,840	4,938,590 5,320,130 7,402,600 7,425,820 7,449,450 8,007,260 8,078,920 8,103,820 8,246,800 8,272,580 8,468,040 8,546,220 9,489,360 9,580,200 10,000,180 10,672,930	79,290 84,290 84,270 36,420 45,450 54,870 49,640 58,140 68,360 75,690 90,250 103,800 90,250 100,540 102,010	291,190 296,310 301,530 306,840 312,240 323,330 329,020 334,810 340,700 352,800 359,010 365,330 371,760 378,300	2,989,150 2,988,210 1,291,540 1,611,580 1,945,640 1,760,440 2,061,750 2,424,010 2,684,200 3,074,810 3,312,760 3,680,800 3,200,470 3,565,210 3,617,530 3,425,090	64,320 68,390 67,390 18,540 26,520 34,850 28,500 35,830 44,840 50,920 60,640 66,000 74,990 60,000 68,780 68,710	272,990 277,790 282,680 287,660 292,720 297,870 303,110 308,440 313,870 319,390 325,010 330,730 336,550 342,470 348,500 354,630	2,425,030 2,389,670 657,270 940,250 1,235,860 1,010,770 1,270,720 1,590,090 1,805,820 2,150,350 2,340,540 2,659,090 2,127,490 2,439,120 2,436,420 2,187,010	54,620 59,740 62,170 21,680 26,520 32,480 30,020 35,570 39,020 45,820 49,640 57,530 51,500 51,130	320,230 407,740 584,640 172,950 208,790 300,790 182,510 191,840 228,050 285,050 308,470 439,700 2777,780 355,350 371,780	2,118,560 2,204,500 768,840 940,250 1,151,930 927,390 1,064,390 1,261,350 1,383,600 1,624,890 1,760,300 2,040,230 1,594,320 1,826,220 1,813,090 1,563,250	6,000,000 5,000,000 4,000,000	Reserve Balance
2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2059	193,100 381,540 2,082,470 23,220 23,630 557,810 24,900 142,980 25,780 195,460 78,180 943,140 90,840 419,980 672,750 97,800	4,938,590 5,320,130 7,402,600 7,425,820 7,449,450 8,007,260 8,078,920 8,103,820 8,246,800 8,272,580 8,468,040 8,546,220 9,489,360 9,580,200 10,000,180 10,672,930 10,770,730	79,290 84,290 84,270 36,420 45,450 54,870 49,640 68,360 75,690 86,710 93,420 103,800 90,250 100,540 102,010 96,590	291,190 296,310 301,530 306,840 312,240 312,240 323,330 329,020 334,810 340,700 352,800 359,010 365,330 371,760 378,300 384,960	2,989,150 2,988,210 1,291,540 1,611,580 1,945,640 1,760,440 2,061,750 2,424,010 2,684,200 3,074,810 3,312,760 3,680,800 3,200,470 3,565,210 3,617,530 3,425,090 3,808,840	64,320 68,390 67,390 18,540 26,520 34,8500 35,830 44,840 50,920 60,640 66,000 74,990 60,000 68,780 68,710 61,670	272,990 277,790 282,680 287,660 292,720 297,870 303,110 308,440 313,870 319,390 325,010 330,750 336,550 342,470 348,500 354,630 360,870	2,425,030 2,389,670 657,270 940,250 1,235,860 1,010,770 1,590,090 1,805,820 2,150,350 2,340,540 2,659,090 2,127,490 2,436,420 2,436,420 2,187,010 2,511,750	54,620 59,740 62,170 21,680 26,520 32,480 30,020 35,570 39,020 45,820 44,960 51,500 51,130 44,080	320,230 407,740 584,640 172,950 208,790 300,790 182,510 191,840 228,050 285,050 308,470 439,700 277,780 355,350 371,780 252,870	2,118,560 2,204,500 768,840 940,250 1,151,930 927,390 1,064,390 1,261,350 1,383,600 1,624,890 1,760,300 2,040,230 1,826,220 1,813,090 1,563,250 1,762,400	6,000,000 5,000,000 4,000,000 3,000,000	Reserve Balance
2044 2045 2046 2047 2048 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061	193,100 381,540 2,082,470 23,220 23,630 557,810 71,660 24,900 142,980 25,780 195,460 78,180 943,140 90,840 419,980 672,750 97,800 29,640	4,938,590 5,320,130 7,402,600 7,425,820 7,449,450 8,007,260 8,078,920 8,103,820 8,246,800 8,272,580 8,468,040 8,546,220 9,489,360 9,580,200 10,000,180 10,672,930 10,770,730 10,800,370	79,290 84,290 84,270 36,420 45,450 54,870 58,140 68,360 75,690 86,710 93,420 103,880 90,250 100,540 102,010 96,590 107,410	291,190 296,310 301,530 306,840 312,240 317,740 323,330 329,020 334,810 340,700 352,800 359,010 365,330 371,760 378,300 384,960 391,740	2,989,150 2,988,210 1,291,540 1,611,580 1,945,640 1,760,440 2,061,750 2,424,010 2,684,200 3,074,810 3,312,760 3,680,800 3,200,470 3,565,210 3,617,530 3,425,090 3,808,840 4,278,350	64,320 68,390 67,390 18,540 26,520 34,850 28,500 35,830 44,840 50,920 60,600 74,990 60,000 68,780 68,710 61,670 70,830	272,990 277,790 282,680 287,660 292,720 297,870 303,110 308,440 313,870 319,390 325,010 330,750 342,470 342,470 348,500 354,630 360,870 367,220	2,425,030 2,389,670 657,270 940,250 1,235,860 1,010,770 1,590,090 1,805,820 2,150,350 2,340,540 2,659,090 2,127,490 2,439,120 2,436,420 2,187,010 2,511,750 2,920,160	54,620 59,740 62,170 21,680 26,520 32,480 26,150 30,020 35,570 39,020 45,820 44,960 51,530 44,960 51,130 44,080 49,700	320,230 407,740 584,640 172,950 208,790 300,790 182,510 191,840 228,050 285,050 308,470 439,700 277,780 355,350 371,780 252,870 273,490	2,118,560 2,204,500 768,840 940,250 1,151,930 927,390 1,064,390 1,261,350 1,383,600 1,624,890 1,760,300 2,040,230 1,594,320 1,826,220 1,813,090 1,563,250 1,762,400 2,055,950	6,000,000 5,000,000 4,000,000	Reserve Balance
2044 2045 2046 2047 2048 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061	193,100 381,540 2,082,470 23,220 23,630 557,810 71,660 24,900 142,980 25,780 195,460 78,180 943,140 90,840 419,980 672,750 97,800 29,640 30,170	4,938,590 5,320,130 7,402,600 7,425,820 7,449,450 8,007,260 8,078,920 8,103,820 8,272,580 8,468,040 8,546,220 9,489,360 10,007,293 10,007,293 10,770,730 10,800,370 10,830,540	79,290 84,290 84,270 36,420 45,450 54,870 49,640 68,360 75,690 86,710 93,420 103,800 90,250 100,540 102,010 96,590 107,410 120,650	291,190 296,310 301,530 306,840 312,240 317,740 323,330 329,020 346,700 352,800 359,010 365,330 371,600 384,960 391,740 398,630	2,989,150 2,988,210 1,291,540 1,611,580 1,945,640 1,760,440 2,061,750 2,424,010 2,684,200 3,074,810 3,312,760 3,680,800 3,200,470 3,565,210 3,617,530 3,425,090 3,808,840 4,278,350 4,767,460	64,320 68,390 67,390 18,540 26,520 34,850 28,500 35,830 44,840 50,920 60,640 66,000 74,990 60,000 68,780 68,710 61,670 70,830 82,350	272,990 277,790 282,680 287,660 292,720 297,870 303,110 308,440 313,870 319,390 325,010 330,730 342,470 348,500 354,630 360,870 367,220 373,680	2,425,030 2,389,670 657,270 940,250 1,235,860 1,010,770 1,270,720 1,590,090 2,150,350 2,340,540 2,659,090 2,127,490 2,439,120 2,436,420 2,187,010 2,511,750 2,920,160 3,346,020	54,620 59,740 62,170 21,680 26,520 32,480 26,150 30,020 35,570 39,020 45,820 49,640 57,530 44,960 51,530 44,080 49,700 57,980	320,230 407,740 584,640 172,950 208,790 300,790 182,510 219,660 228,050 285,050 308,470 439,700 277,780 355,350 252,870 273,490 337,110	2,118,560 2,204,500 768,840 940,250 1,151,930 927,390 1,064,390 1,261,350 1,383,600 1,624,890 1,760,300 2,040,230 1,826,220 1,813,090 1,563,250 1,762,400 2,055,950 2,420,870	6,000,000 5,000,000 4,000,000 3,000,000	Reserve Balance
2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2062	193,100 381,540 2,082,470 23,220 23,630 557,810 71,660 24,900 142,980 25,780 195,460 78,180 943,140 90,840 419,980 672,750 97,800 29,640 30,170 1,194,540	4,938,590 5,320,130 7,402,600 7,425,820 7,449,450 8,007,260 8,078,920 8,103,820 8,246,800 8,272,580 8,468,040 8,546,220 9,580,200 10,000,180 10,672,930 10,770,730 10,800,370 10,830,540 12,025,080	79,290 84,290 84,270 36,420 45,450 54,870 49,640 68,360 75,690 86,710 93,420 103,800 90,250 100,540 102,010 96,590 107,410 120,650 134,440	291,190 296,310 301,530 306,840 312,240 317,740 323,330 329,020 334,810 346,700 352,800 359,010 365,330 371,760 378,360 384,960 391,740 398,630 405,650	2,989,150 2,988,210 1,291,540 1,611,580 1,945,640 1,760,440 2,061,750 2,424,010 2,684,200 3,074,810 3,312,760 3,680,800 3,200,470 3,565,210 3,617,530 3,425,090 3,808,840 4,278,350 4,767,460 4,113,010	64,320 68,390 67,390 18,540 26,520 34,850 35,830 44,840 50,920 66,600 74,990 60,000 68,780 68,710 61,670 70,830 82,350 94,360	272,990 277,790 282,680 287,660 292,720 297,870 303,110 308,440 313,870 319,390 325,010 330,730 342,470 348,500 354,630 360,870 367,220 373,680 380,260	2,425,030 2,389,670 657,270 940,250 1,235,860 1,010,770 1,270,720 1,590,090 1,805,820 2,150,350 2,340,540 2,659,090 2,127,490 2,439,120 2,436,420 2,187,010 2,511,750 2,920,160 3,346,020 2,626,100	54,620 59,740 62,170 21,680 26,520 32,480 26,150 30,020 35,570 39,020 45,820 49,640 57,530 44,960 51,500 51,130 44,080 57,980 68,270	320,230 407,740 584,640 172,950 208,790 182,510 191,840 229,660 228,050 285,050 308,470 439,700 277,780 355,350 371,780 252,870 273,490 337,110 503,010	2,118,560 2,204,500 768,840 940,250 1,151,930 927,390 1,064,390 1,261,350 1,383,600 1,760,300 2,040,230 1,594,320 1,826,220 1,813,090 1,563,250 1,762,400 2,055,950 2,420,870 1,797,610	6,000,000 5,000,000 4,000,000 3,000,000	Reserve Balance
2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063	193,100 381,540 2,082,470 23,220 23,630 557,810 71,660 24,900 142,980 25,780 195,460 78,180 943,140 90,840 419,980 672,750 97,800 29,640 30,170 1,194,540 232,710	4,938,590 5,320,130 7,402,600 7,425,820 7,449,450 8,007,260 8,078,920 8,103,820 8,246,800 8,272,580 8,468,040 9,580,200 10,000,180 10,672,930 10,770,730 10,800,370 10,830,540 12,025,080 12,025,080 12,257,790	79,290 84,290 84,270 36,420 45,450 54,870 49,640 68,360 75,690 86,710 93,420 103,800 90,250 100,540 102,010 96,590 107,410 120,650 134,440 115,990	291,190 296,310 301,530 306,840 312,240 312,240 323,330 329,020 334,810 340,700 352,800 359,010 365,330 371,760 378,300 384,960 391,740 398,630 405,650 412,790	2,989,150 2,988,210 1,291,540 1,611,580 1,945,640 1,760,440 2,061,750 2,424,010 2,684,200 3,074,810 3,312,760 3,680,880 3,200,470 3,565,210 3,617,530 3,425,090 4,278,350 4,278,350 4,113,010 4,409,080	64,320 68,390 67,390 18,540 26,520 34,850 28,500 35,830 44,840 50,920 66,000 74,990 60,000 68,780 68,710 61,670 70,830 94,360 74,060	272,990 277,790 282,680 287,660 292,720 297,870 303,110 308,440 313,870 319,390 325,010 330,730 342,470 348,500 354,630 360,870 367,220 373,680 380,260 386,950	2,425,030 2,389,670 657,270 940,250 1,235,860 1,010,770 1,270,720 1,590,090 1,805,820 2,150,350 2,340,540 2,659,090 2,127,490 2,439,120 2,436,420 2,187,010 2,511,750 2,920,160 3,346,020 2,626,100 2,854,400	54,620 59,740 62,170 21,680 26,520 32,480 26,150 30,020 35,570 39,020 45,820 49,640 57,530 44,960 51,500 51,130 44,970 57,980 68,270 50,690	320,230 407,740 584,640 172,950 208,790 182,510 191,840 229,660 228,050 308,470 439,700 277,780 355,350 371,780 252,870 273,490 353,010 279,400	2,118,560 2,204,500 768,840 940,250 1,151,930 927,390 1,064,390 1,261,350 1,383,600 1,624,890 1,760,300 2,040,230 1,594,320 1,826,220 1,813,090 1,563,250 1,762,400 2,055,950 2,420,870 1,797,610 1,894,990	6,000,000 5,000,000 4,000,000 3,000,000 2,000,000	Reserve Balance
2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065	193,100 381,540 2,082,470 23,220 23,630 557,810 71,660 24,900 142,980 25,780 195,460 78,180 90,840 419,980 672,750 97,800 29,640 30,170 1,194,540 232,710 93,090	4,938,590 5,320,130 7,402,600 7,425,820 7,449,450 8,007,260 8,078,920 8,103,820 8,246,800 8,272,580 8,468,040 9,580,200 10,000,180 10,672,930 10,770,730 10,800,370 10,830,540 12,025,080 12,257,790 12,350,880	79,290 84,290 84,270 36,420 45,450 54,870 49,640 68,360 75,690 86,710 93,420 103,800 90,250 100,540 102,010 96,590 107,410 120,659 134,440 115,990 124,340	291,190 296,310 301,530 306,840 312,240 317,740 323,330 329,020 334,810 340,700 352,800 371,760 378,300 384,960 391,740 391,740 391,740 40,660 412,790 420,060	2,989,150 2,988,210 1,291,540 1,611,580 1,945,640 1,760,440 2,061,750 2,424,010 2,684,200 3,074,810 3,312,760 3,680,800 3,200,470 3,565,210 3,617,530 3,425,090 3,808,840 4,278,350 4,767,460 4,113,010 4,409,080 4,860,390	64,320 68,390 67,390 18,540 26,520 34,850 28,500 35,830 44,840 50,920 60,640 66,000 68,780 68,710 61,670 70,830 82,350 94,360 74,060 80,490	272,990 277,790 282,680 287,660 292,720 303,110 308,440 313,870 319,390 325,010 336,550 342,470 348,500 354,630 360,870 367,220 373,680 380,260 386,950 393,760	2,425,030 2,389,670 657,270 940,250 1,235,860 1,010,770 1,270,720 1,590,090 1,805,820 2,150,350 2,340,540 2,659,090 2,127,490 2,439,120 2,436,420 2,187,010 2,511,750 2,920,160 3,346,020 2,626,100 2,854,400 3,235,560	54,620 59,740 62,170 21,680 26,520 32,480 26,150 30,020 35,570 39,020 45,820 49,640 57,530 44,960 51,500 51,130 44,080 49,700 57,980 68,270 50,690 53,440	320,230 407,740 584,640 172,950 208,790 182,510 191,840 229,660 285,050 308,470 277,780 355,350 371,780 252,870 273,490 337,110 279,400 260,420	2,118,560 2,204,500 768,840 940,250 1,151,930 927,390 1,064,390 1,261,350 1,383,600 1,624,890 1,760,300 2,040,230 1,594,320 1,826,220 1,813,090 1,563,250 1,762,400 2,055,950 2,420,870 1,797,610 1,894,990 2,115,760	6,000,000 5,000,000 4,000,000 3,000,000 2,000,000	Reserve Balance
2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065	193,100 381,540 2,082,470 23,220 23,630 557,810 71,660 24,900 142,980 25,780 195,460 78,180 943,140 419,980 672,750 97,800 29,640 30,170 1,194,540 232,710 93,090 32,350	4,938,590 5,320,130 7,402,600 7,425,820 8,007,260 8,007,260 8,078,920 8,103,820 8,246,800 8,272,580 8,468,040 8,546,220 9,489,360 9,580,200 10,000,180 10,672,930 10,770,730 10,800,370 10,800,370 10,800,370 12,025,080 12,257,790 12,350,880 12,383,230	79,290 84,290 84,270 36,420 45,450 54,870 49,640 68,360 75,690 86,710 93,420 103,800 90,250 100,540 102,010 96,590 107,410 120,650 134,440 115,990 124,340 137,060	291,190 296,310 301,530 306,840 312,240 317,740 323,330 329,020 334,810 340,700 352,800 359,010 365,330 371,760 378,300 384,960 391,740 398,630 405,650 412,790 420,060 427,450	2,989,150 2,988,210 1,291,540 1,611,580 1,945,640 1,760,440 2,061,750 2,424,010 2,684,200 3,074,810 3,312,760 3,680,800 3,200,470 3,565,210 3,617,530 3,425,090 3,808,840 4,278,350 4,767,460 4,113,010 4,409,080 4,860,390 5,392,550	64,320 68,390 67,390 18,540 26,520 34,850 28,500 35,830 44,840 50,920 60,640 66,000 74,990 68,780 68,710 61,670 70,830 82,350 94,360 74,960 80,490 91,240	272,990 277,790 282,680 287,660 292,720 297,870 303,110 308,440 313,870 319,390 325,010 330,730 336,550 342,470 346,500 354,630 360,870 367,220 373,680 380,260 380,260 380,260 380,260 380,260 380,260 380,260 380,260 380,260 400,690	2,425,030 2,389,670 657,270 940,250 1,235,860 1,010,770 1,270,720 1,590,090 1,805,820 2,150,350 2,340,540 2,659,090 2,127,490 2,439,120 2,436,420 2,187,010 2,511,750 2,920,160 3,346,020 2,626,100 2,854,400 3,235,560 3,695,140	54,620 59,740 62,170 21,680 26,520 32,480 30,020 35,570 39,020 45,820 44,960 51,500 51,130 44,080 49,700 57,980 68,270 50,690 53,440 59,660	320,230 407,740 584,640 172,950 208,790 300,790 182,510 191,840 229,660 228,050 285,050 308,470 439,700 277,780 355,350 371,780 252,870 273,490 337,110 503,011 503,011 503,011 279,400 260,420 276,250	2,118,560 2,204,500 768,840 940,250 1,151,930 927,390 1,064,390 1,261,350 1,383,600 1,624,890 1,760,300 2,040,230 1,594,320 1,826,220 1,813,090 1,563,250 1,762,400 2,055,950 2,420,870 1,797,610 1,894,990 2,115,760 2,419,320	6,000,000 5,000,000 4,000,000 3,000,000 1,000,000 0	
2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065	193,100 381,540 2,082,470 23,220 23,630 557,810 71,660 24,900 142,980 25,780 195,460 78,180 90,840 419,980 672,750 97,800 29,640 30,170 1,194,540 232,710 93,090	4,938,590 5,320,130 7,402,600 7,425,820 7,449,450 8,007,260 8,078,920 8,103,820 8,246,800 8,272,580 8,468,040 9,580,200 10,000,180 10,672,930 10,770,730 10,800,370 1	79,290 84,290 84,270 36,420 45,450 54,870 49,640 68,360 75,690 86,710 93,420 103,800 90,250 100,540 102,010 96,590 107,410 120,650 134,440 115,990 124,340 137,060	291,190 296,310 301,530 306,840 312,240 317,740 323,330 329,020 334,810 340,700 352,800 371,760 378,300 384,960 391,740 391,740 391,740 40,660 412,790 420,060	2,989,150 2,988,210 1,291,540 1,611,580 1,945,640 1,760,440 2,061,750 2,424,010 2,684,200 3,074,810 3,312,760 3,680,800 3,200,470 3,565,210 3,617,530 3,425,090 3,808,840 4,278,350 4,767,460 4,113,010 4,409,080 4,860,390	64,320 68,390 67,390 18,540 26,520 34,850 28,500 35,830 44,840 50,920 60,640 66,000 74,990 68,780 68,710 61,670 70,830 82,350 94,360 74,960 80,490 91,240	272,990 277,790 282,680 287,660 292,720 303,110 308,440 313,870 319,390 325,010 336,550 342,470 348,500 354,630 360,870 367,220 373,680 380,260 386,950 393,760	2,425,030 2,389,670 657,270 940,250 1,235,860 1,010,770 1,270,720 1,590,090 1,805,820 2,150,350 2,340,540 2,659,090 2,127,490 2,439,120 2,436,420 2,187,010 2,511,750 2,920,160 3,346,020 2,626,100 2,854,400 3,235,560	54,620 59,740 62,170 21,680 26,520 32,480 26,150 30,020 35,570 39,020 45,820 49,640 57,530 44,960 51,500 51,130 44,080 49,700 57,980 68,270 50,690 53,440	320,230 407,740 584,640 172,950 208,790 182,510 191,840 229,660 285,050 308,470 277,780 355,350 371,780 252,870 273,490 337,110 279,400 260,420	2,118,560 2,204,500 768,840 940,250 1,151,930 927,390 1,064,390 1,261,350 1,383,600 1,624,890 1,760,300 2,040,230 1,594,320 1,826,220 1,813,090 1,563,250 1,762,400 2,055,950 2,420,870 1,797,610 1,894,990 2,115,760	6,000,000 5,000,000 4,000,000 3,000,000 1,000,000 0	Reserve Balance 018 2023 2028 2033 2038 2043 2048 2053
2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065	193,100 381,540 2,082,470 23,220 23,630 557,810 71,660 24,900 142,980 25,780 195,460 78,180 943,140 90,840 419,980 672,750 97,800 29,640 30,170 1,194,540 232,710 93,090 32,350 32,910	4,938,590 5,320,130 7,402,600 7,425,820 7,449,450 8,007,260 8,078,920 8,103,820 8,246,800 8,272,580 8,468,040 8,546,220 9,580,200 10,000,180 10,672,930 10,770,730 10,800,370 10,830,540 12,025,080 12,257,790 12,350,880 12,383,230 12,416,140	79,290 84,290 84,270 36,420 45,450 54,870 49,640 68,360 75,690 93,420 103,800 107,410 120,650 102,010 96,590 107,410 120,650 134,440 115,990 124,340 137,060 152,070	291,190 296,310 301,530 306,840 312,240 317,740 323,330 329,020 334,810 340,700 352,800 371,760 378,300 384,960 391,740 391,740 391,740 420,060 427,450 434,970	2,989,150 2,988,210 1,291,540 1,611,580 1,945,640 1,760,440 2,061,750 2,424,010 2,684,200 3,074,810 3,312,760 3,680,800 3,200,470 3,565,210 3,617,530 3,425,090 3,808,840 4,278,350 4,767,460 4,113,010 4,409,080 4,860,390 5,392,550	64,320 68,390 67,390 18,540 26,520 34,850 28,500 35,830 44,840 50,920 60,640 66,000 74,990 60,000 68,780 68,710 61,670 70,830 82,350 74,060 80,490 91,240 104,200	272,990 277,790 282,680 287,660 292,720 303,110 308,440 313,870 319,390 325,010 330,730 342,470 348,500 354,630 360,870 367,220 373,680 380,260 380,260 380,950 393,760 400,690 407,740	2,425,030 2,389,670 657,270 940,250 1,235,860 1,010,770 1,270,720 1,590,090 1,805,820 2,150,350 2,340,540 2,659,090 2,127,490 2,439,120 2,436,420 2,187,010 2,511,750 2,920,160 3,346,020 2,626,100 2,854,400 3,235,560 3,695,140	54,620 59,740 62,170 21,680 26,520 32,480 26,150 30,020 35,570 39,020 45,820 49,640 57,530 44,960 51,500 51,130 44,080 49,700 57,980 50,690 53,440 59,660 68,220	320,230 407,740 584,640 172,950 208,790 300,790 182,510 191,840 229,660 285,050 308,470 277,780 355,350 371,780 252,870 273,490 337,110 279,400 260,420 276,250 317,220	2,118,560 2,204,500 768,840 940,250 1,151,930 927,390 1,064,390 1,261,350 1,383,600 1,624,890 1,760,300 2,040,230 1,594,320 1,826,220 1,813,090 1,563,250 1,762,400 2,055,950 2,420,870 1,797,610 1,894,990 2,115,760 2,419,320	6,000,000 5,000,000 4,000,000 3,000,000 1,000,000 0	
2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2060 2061 2062 2063 2064 2065 2066 2067	193,100 381,540 2,082,470 23,220 23,630 557,810 71,660 24,900 142,980 25,780 195,460 78,180 943,140 419,980 672,750 97,800 29,640 30,170 1,194,540 232,710 93,090 32,350 32,910	4,938,590 5,320,130 7,402,600 7,449,450 8,007,260 8,078,920 8,103,820 8,246,800 8,272,580 8,468,040 8,546,220 9,489,360 9,580,200 10,000,180 10,672,930 10,770,730 10,800,370 10,830,540 12,025,080 12,257,790 12,350,880 12,383,230 12,416,140 SUMMARY Year Income =	79,290 84,290 84,270 36,420 45,450 54,870 49,640 68,360 75,690 86,710 93,420 103,800 90,250 100,540 120,010 96,590 120,650 134,440 137,060 124,340 137,060	291,190 296,310 301,530 306,840 312,240 317,740 323,330 329,020 334,810 340,700 352,800 371,760 378,300 384,960 391,740 391,740 391,740 420,060 427,450 434,970	2,989,150 2,988,210 1,291,540 1,611,580 1,945,640 1,760,440 2,061,750 2,424,010 2,684,200 3,074,810 3,312,760 3,680,800 3,200,470 3,665,210 3,617,530 3,425,090 3,808,840 4,278,350 4,767,460 4,113,010 4,409,080 4,860,390 5,392,550 5,946,680	64,320 68,390 67,390 18,540 26,520 34,850 28,500 35,830 44,840 50,920 60,640 66,000 74,990 60,000 68,780 68,710 61,670 70,830 82,350 74,060 80,490 91,240 104,200	272,990 277,790 282,680 287,660 292,720 297,870 303,110 308,440 313,870 319,390 325,010 330,730 336,550 342,470 346,500 354,630 360,870 367,220 373,680 380,260 380,260 380,260 380,260 380,260 380,260 380,260 380,260 380,260 400,690	2,425,030 2,389,670 657,270 940,250 1,235,860 1,010,770 1,270,720 1,590,090 1,805,820 2,150,350 2,340,540 2,659,090 2,127,490 2,438,120 2,436,420 2,187,010 2,511,750 2,920,160 3,346,020 2,626,100 2,854,400 3,235,560 3,695,140 4,174,170	54,620 59,740 62,170 21,680 26,520 32,480 30,020 35,570 39,020 45,820 44,960 51,500 51,130 44,080 49,700 57,980 68,270 50,690 53,440 59,660	320,230 407,740 584,640 172,950 208,790 300,790 182,510 191,840 229,660 228,050 285,050 308,470 439,700 277,780 355,350 371,780 252,870 273,490 337,110 503,011 503,011 503,011 279,400 260,420 276,250	2,118,560 2,204,500 768,840 940,250 1,151,930 927,390 1,064,390 1,261,350 1,383,600 1,624,890 1,760,300 2,040,230 1,594,320 1,826,220 1,813,090 1,563,250 1,762,400 2,055,950 2,420,870 1,797,610 1,894,990 2,115,760 2,419,320 2,771,850	6,000,000 5,000,000 4,000,000 3,000,000 1,000,000 0	018 2023 2028 2033 2038 2043 2048 2053 If Association Plan Continues If Cash Flow Method is Used
2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2060 2061 2062 2063 2064 2065 2066 2067	193,100 381,540 2,082,470 23,220 23,630 557,810 71,660 24,900 142,980 25,780 195,460 78,180 943,140 90,840 30,170 1,194,540 232,710 93,090 32,350 32,910	4,938,590 5,320,130 7,402,600 7,425,820 7,449,450 8,007,260 8,078,920 8,103,820 8,246,800 8,272,580 8,468,040 8,546,220 9,580,200 10,000,180 10,672,930 10,770,730 10,800,370 10,830,540 12,025,080 12,257,790 12,350,880 12,383,230 12,416,140	79,290 84,290 84,270 36,420 45,450 54,870 96,640 75,690 86,710 93,420 103,880 90,250 100,540 102,010 96,590 107,410 120,650 134,440 115,990 124,340 137,060 152,070	291,190 296,310 301,530 306,840 312,240 317,740 323,330 329,020 334,810 340,700 352,800 371,760 378,300 384,960 391,740 391,740 391,740 420,060 427,450 434,970	2,989,150 2,988,210 1,291,540 1,611,580 1,945,640 1,760,440 2,061,750 2,424,010 2,684,200 3,074,810 3,312,760 3,680,800 3,200,470 3,565,210 3,617,530 3,425,090 3,808,840 4,278,350 4,767,460 4,113,010 4,409,080 4,860,390 5,392,550	64,320 68,390 67,390 18,540 26,520 34,850 28,500 35,830 44,840 50,920 60,640 66,000 74,990 60,000 68,780 68,710 61,670 70,830 82,350 74,060 80,490 91,240 104,200	272,990 277,790 282,680 287,660 292,720 303,110 308,440 313,870 319,390 325,010 330,730 342,470 348,500 354,630 360,870 367,220 373,680 380,260 380,260 380,950 393,760 400,690 407,740	2,425,030 2,389,670 657,270 940,250 1,235,860 1,010,770 1,270,720 1,590,090 1,805,820 2,150,350 2,340,540 2,659,090 2,127,490 2,439,120 2,436,420 2,187,010 2,511,750 2,920,160 3,346,020 2,626,100 2,854,400 3,235,560 3,695,140	54,620 59,740 62,170 21,680 26,520 32,480 26,150 30,020 35,570 39,020 45,820 49,640 57,530 44,960 51,500 51,130 44,080 49,700 57,980 50,690 53,440 59,660 68,220	320,230 407,740 584,640 172,950 208,790 300,790 182,510 191,840 229,660 285,050 308,470 277,780 355,350 371,780 252,870 273,490 337,110 279,400 260,420 276,250 317,220	2,118,560 2,204,500 768,840 940,250 1,151,930 927,390 1,064,390 1,261,350 1,383,600 1,624,890 1,760,300 2,040,230 1,594,320 1,826,220 1,813,090 1,563,250 1,762,400 2,055,950 2,420,870 1,797,610 1,894,990 2,115,760 2,419,320	6,000,000 5,000,000 4,000,000 3,000,000 1,000,000 0	018 2023 2028 2033 2038 2043 2048 2053









Legend:

This comparison only compares the first study year to other properties.

% Funded -- Used-up life divided by Useful Life times Current Cost.

Reserve Depletion Factor -- Number of years the amount-on-hand will fund if no more is contributed to the reserves.

AOH - Reserve funds available at start of fiscal year.

Cost Per Owner - The average cost per owner to meet the reserve requirement compared to other properties.

Attention is directed to columns (1) COMPONENT, (3) AVG and (4) REM USEFUL LIFE, and (5) ESTIMATED COST IN CURRENT DOLLARS on Page A1. These entries, along with reserve savings at the start of the fiscal year and contingency built into the funding plan, determine the annual contribution needed to support the reserves. The remaining useful life approximates the time period when funding should be available for repair/replacement work. Good maintenance and repair practices prior to replacement can extend component useful life; conversely, poor or no maintenance/repair will shorten life and result in more cost to the association. Following comments are provided for components that may need further explanation.

BUILDING

FACADE/CAULK/WATERPROOFING

repairs to bricks, siding, shutters, sealing windows, doors, walls, expansion joints and other openings to keep buildings weather tight.

WINDOWS & DOORS

We assume all common area windows will be replaced when repair costs become excessive; doors replaced as needed.

DECORATING

Decorating costs can vary depending on quality of materials desired, number of coats needed to properly protect surfaces, surface preparation, ease of access and other factors. We use average costs for our estimates. Your actual cost could be higher or lower.

MECHANICAL/PLUMBING/ELECTRICAL

PLUMBING

After years of use domestic water pipes leak - we reserve for common area pipe repairs. Because cost can be significantly different than the average cost we budget, we recommend the association hire a firm that can evaluate pipe condition to more precisely predict cost and when repairs/replacement may be needed. There are two ways to make domestic piping repairs; 1) pipe replacement, 2) relining with epoxy. Relining is in the range of 50% cheaper than replacement and has the advantage of being less inconvenient to owners because walls do not need to be removed and water outages are minimal.

WATER HEATER(S)

Usually leak to signal the end of their useful life.

CORRIDOR HVAC

Timely maintenance to the air conditioning and heating equipment, consisting of filter changes, coil cleaning, leak checks, tightening electric connections and controlling corrosion could make it possible for the units to exceed the remaining useful life shown in the table. Also, when the units fail to operate properly, consider component repairs (motors, coils, and other parts) to restore the units to full operation. Avoid replacing the entire unit until the components can no longer be repaired or the unit housing is so badly corroded it no longer serves its intended purpose.

MECHANICAL/PLUMBING/ELECTRICAL

A annual expenditure to keep in good repair common area mechanical, plumbing and electric systems that are not reserved for elsewhere. Heat exchangers, coils, unit heaters, motors, pumps, gauges, valves, controls, fire, security, mechanical system, plumbing pipes, electric faults and other kinds of system deterioration will need repair as problems occur.

OTHER PROPERTY FEATURES

OVERHEAD DOORS

Frequent use of the garage doors will result in wear and tear to motors, drive mechanisms, guides and doors. Maintenance actions, such as, lubricating moving parts, checking drive mechanism for proper movement and tightening electrical connections will extend useful life.

SITE ITEMS

Repairs to entrance features, signs, sign posts, flood lights, drainage, minor landscaping, irrigation systems, mulch, fountains, hand railing, masonry columns and walls, picnic tables/benches, exercise trails, trash receptacles, dog stations, mechanical, plumbing, electrical systems and other miscellaneous items that are not reserved for elsewhere.

EXCLUSIONS

PRESSURE WASHING/PAINTING/STAINING

CATASTROPHES

Not included in the reserves. Maintenance work, properly funded from the operating account.

Are not predictable events - no reserve allowance. If one occurs funding from other sources may be needed if the contingency built into the reserves is insufficient to cover expenses.

STORM WATER FACILITIES

Considered to be a long lasting system that can provide many years of service if spot repaired and cleared of debris as needed. We budget a reasonable amount for spot repairs every five years. If major work is needed, funding from sources other than the reserves

may be needed

DRY WATER RETENTION POND

Grounds maintenance is an operating expense. Funding that may be needed for spill way repairs is provided for in the Site Items

entry.