



**2020
RESERVE STUDY
SNOHOMISH CASCADE HOMEOWNER'S ASSOCIATION**

Snohomish, WA 98296
Financial Year 01.2020–12.2020
Level 1 | Full Reserve Study
02/13/20



A New Strategy for Reserve Funding.

Our reserve study approach is simple. We provide you with the insight needed to make fast, accurate and informed decisions. We focus on understanding your situation and providing funding solutions that are designed with your goals in mind. By focusing on the detail and the big picture we provide the information you need to best manage your reserve fund and annual contributions.

As a long-term capital budget plan, the reserve study identifies the current status of the reserve fund and whether contributions to the fund are adequate to address future needs. The report helps the Association make necessary decisions regarding the development of their reserve fund and establish expectations in relation to the timing and cost of significant repair and replacement projects.

The reserve study recommends funding through smaller monthly contributions rather than risking large, unanticipated special assessments. Regular and ongoing reserve contributions are favored over special assessment as they help distribute expenses equally between current and future owners, and establish a stable contribution rate.

The reserve study contains 'forward looking' concepts which reflect expectations with respect to certain future events and potential financial performance. Although we believe at this time that the expectations reflected within the reserve study are reasonable, no assurances can be given that such expectations will prove correct. We recommend that the reserve study be updated annually to address changing circumstances and conditions.



6 CONTRIBUTION RANGE

Funding programs and strategies that are available to the Association.



15 PERCENT FUNDED

How well funded is the Association's reserve fund.

- 4 EXECUTIVE SUMMARY**
Summary of reserve study outcomes and property related data.
- 5 KEY INSIGHTS**
Snapshot of key data points, highlighting the strength of current funding strategies.
- 9 CURRENT FUNDING SUMMARY**
Summary of current funding strategies and projected outcomes.
- 10 METHODOLOGY**
The what, when, when and how of the reserve study process.
- 15 FINANCIAL ANALYSIS**
Percent funded and the strength of the reserve account.
- 17 RESERVE COMPONENT LIST**
List of reserve components, anticipated cost, remaining, and useful life estimates.
- 18 RESERVE EXPENSES**
Projected expenses over the coming 30 years.
- 21 FULL FUNDING PLAN**
Recommended funding plan and cash flow projection.
- 24 PHYSICAL ANALYSIS**
Specific information regarding the physical condition of the property.

RESERVE STUDY GROUP This work is copyright and has been supplied under contract to the Association and/or its representatives. Apart from the client's right to reproduce and distribute copies of the report as required by its governing documents or state law, no part of this work may be reproduced by any process without the written permission from Reserve Study Group, LLC. Requests and inquiries concerning reproduction and rights should be addressed to the Reserve Study Group, 701 Fifth Ave, Suite 4200, Seattle WA 98104. PUBLISHED BY Reserve Study Group, Seattle WASHINGTON.



EXECUTIVE SUMMARY

PROPERTY SUMMARY

ASSOCIATION NAME	Snohomish Cascade Homeowner's Association
LOCATION	Snohomish, WA 98296
NUMBER OF UNITS	310
FINANCIAL YEAR	2020 (January 1, 2020 - December 31, 2020)
REPORT LEVEL	Level 1 Full Study with Site Visit

RESERVE FUND

PROJECTED STARTING BALANCE ¹	\$51,955
FULL FUNDED BALANCE, IDEAL	\$134,835
CURRENT PER UNIT DEFICIENCY/(SURPLUS) IN RESERVES	\$267
PERCENT FUNDED ²	39%
INTEREST EARNED	1.00%
INFLATION RATE ³	3.00%

RESERVE CONTRIBUTIONS

CURRENT RESERVE FUND CONTRIBUTION	\$24,000
FULL FUNDING, MAXIMUM CONTRIBUTION	\$31,640
BASELINE FUNDING, MINIMUM CONTRIBUTION	\$27,278
SPECIAL ASSESSMENT	\$0

¹ Information in relation to the Association's finances were supplied by the Association's representative and is not audited.

² The ratio, at a particular point of time (the beginning of the Fiscal Year), of the actual (or projected) Reserve Balance to the Fully Funded Balance, expressed as a percentage (www.caionline.org). Used to highlight the strength of the Association's reserve fund.

³ Inflation rate is based upon the average annual increase of the Consumer Price Index (CPI) over the last 30-years, as published by the US Bureau of Labor Statistics (www.labor.gov).



KEY INSIGHTS

\$51,955

RESERVE ACCOUNT
BALANCE

\$24,000

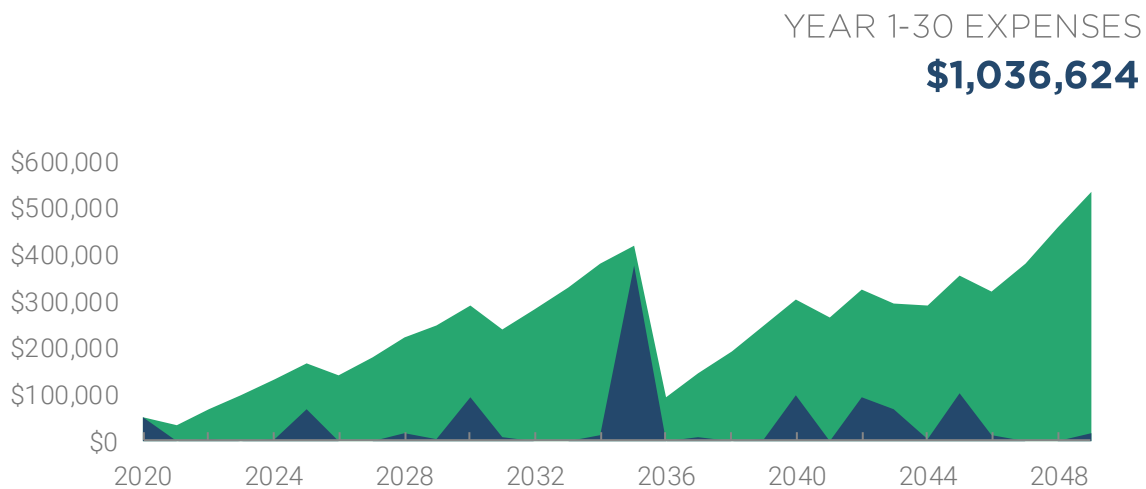
ANNUAL RESERVE
CONTRIBUTION

\$1,036,624

PROJECTED EXPENSES
OVER 30 YEARS

FULL FUNDING STRATEGY

Annual member contributions to the reserve fund are used to address those expenses too large or infrequent to be addressed through annual operating funds. The chart below highlights the outcome of the Full Funding strategy over the mid-to-long term.



STARTING BALANCE

\$51,955

ENDING BALANCE

\$597,829

Note: Figures based upon the expectation that the Association will continue to increase member contributions by an inflationary rate of 3.00% annually. Year-over-year change the result of projected expenses on the Association's reserve account.



CONTRIBUTION RANGE

We recommend that reserve contributions be evenly distributed between members over the life of a community. To achieve this goal, we establish an ideal contribution range within which the Association should establish ongoing payments.

\$27,278

MINIMUM
BASELINE FUNDING

\$31,640

MAXIMUM
FULL FUNDING

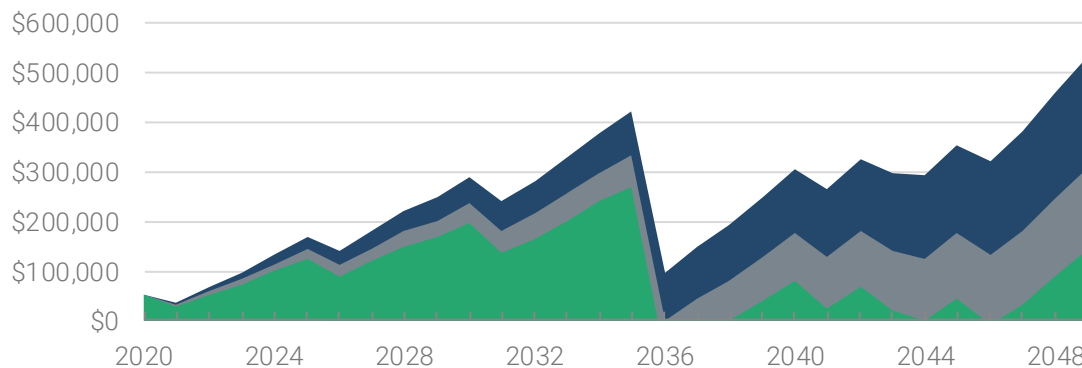


\$24,000

CURRENT FUNDING

FUNDING STRATEGIES

The funding strategy chosen will have a direct impact on the growth of the Association's reserve fund. The chart below highlights the outcomes of the various funding strategies.



FULL FUNDING
\$31,640

BASELINE FUNDING
\$27,278

CURRENT FUNDING
\$24,000

Note: Figures based upon the expectation that the Association will continue to increase the contributions highlighted by an inflationary rate of 3.00% annually.



FULL FUNDING PLAN | SUMMARY

Year	Fully Funded Balance	Percentage Funded	Beginning Balance	Reserve Contribution	Special Assessment	Interest Earned	Reserve Expenditures	Ending Balance
2020	\$134,835	39%	\$51,955	\$31,640	\$0	\$431	\$49,350	\$34,676
2021	\$114,485	30%	\$34,676	\$32,589	\$0	\$510	\$0	\$67,774
2022	\$145,148	47%	\$67,774	\$33,566	\$0	\$819	\$5,305	\$96,855
2023	\$172,084	56%	\$96,855	\$34,573	\$0	\$1,141	\$0	\$132,570
2024	\$206,134	64%	\$132,570	\$35,611	\$0	\$1,492	\$2,251	\$167,422
2025	\$239,752	70%	\$167,422	\$36,679	\$0	\$1,528	\$65,993	\$139,635
2026	\$209,618	67%	\$139,635	\$37,779	\$0	\$1,585	\$0	\$179,000
2027	\$247,472	72%	\$179,000	\$38,913	\$0	\$1,985	\$0	\$219,897
2028	\$287,408	77%	\$219,897	\$40,080	\$0	\$2,326	\$14,631	\$247,672
2029	\$314,448	79%	\$247,672	\$41,282	\$0	\$2,670	\$2,610	\$289,015
2030	\$355,686	81%	\$289,015	\$42,521	\$0	\$2,637	\$93,201	\$240,972
2031	\$305,887	79%	\$240,972	\$43,796	\$0	\$2,594	\$6,921	\$280,441
2032	\$344,528	81%	\$280,441	\$45,110	\$0	\$3,030	\$0	\$328,582
2033	\$392,554	84%	\$328,582	\$46,464	\$0	\$3,518	\$0	\$378,564
2034	\$443,152	85%	\$378,564	\$47,858	\$0	\$3,972	\$10,588	\$419,805
2035	\$485,527	86%	\$419,805	\$49,293	\$0	\$2,560	\$376,950	\$94,708
2036	\$153,019	62%	\$94,708	\$50,772	\$0	\$1,201	\$0	\$146,681
2037	\$200,031	73%	\$146,681	\$52,295	\$0	\$1,687	\$8,264	\$192,399
2038	\$241,213	80%	\$192,399	\$53,864	\$0	\$2,193	\$0	\$248,456
2039	\$293,454	85%	\$248,456	\$55,480	\$0	\$2,744	\$3,507	\$303,174
2040	\$345,000	88%	\$303,174	\$57,144	\$0	\$2,827	\$98,162	\$264,983
2041	\$301,989	88%	\$264,983	\$58,859	\$0	\$2,944	\$0	\$326,786
2042	\$360,226	91%	\$326,786	\$60,625	\$0	\$3,097	\$94,847	\$295,660
2043	\$323,993	91%	\$295,660	\$62,443	\$0	\$2,922	\$69,372	\$291,654
2044	\$314,433	93%	\$291,654	\$64,317	\$0	\$3,218	\$4,066	\$355,123
2045	\$373,416	95%	\$355,123	\$66,246	\$0	\$3,366	\$103,328	\$321,407
2046	\$333,541	96%	\$321,407	\$68,234	\$0	\$3,501	\$10,783	\$382,358
2047	\$389,451	98%	\$382,358	\$70,281	\$0	\$4,175	\$0	\$456,814
2048	\$459,855	99%	\$456,814	\$72,389	\$0	\$4,930	\$0	\$534,133
2049	\$534,133	100%	\$534,133	\$74,561	\$0	\$5,632	\$16,496	\$597,829



BASELINE FUNDING PLAN | SUMMARY

Year	Fully Funded Balance	Percentage Funded	Beginning Balance	Reserve Contribution	Special Assessment	Interest Earned	Reserve Expenditures	Ending Balance
2020	\$134,835	39%	\$51,955	\$27,278	\$0	\$409	\$49,350	\$30,292
2021	\$114,485	26%	\$30,292	\$28,096	\$0	\$443	\$0	\$58,832
2022	\$145,148	41%	\$58,832	\$28,939	\$0	\$706	\$5,305	\$83,173
2023	\$172,084	48%	\$83,173	\$29,807	\$0	\$981	\$0	\$113,961
2024	\$206,134	55%	\$113,961	\$30,702	\$0	\$1,282	\$2,251	\$143,694
2025	\$239,752	60%	\$143,694	\$31,623	\$0	\$1,265	\$65,993	\$110,589
2026	\$209,618	53%	\$110,589	\$32,571	\$0	\$1,269	\$0	\$144,429
2027	\$247,472	58%	\$144,429	\$33,548	\$0	\$1,612	\$0	\$179,589
2028	\$287,408	62%	\$179,589	\$34,555	\$0	\$1,896	\$14,631	\$201,409
2029	\$314,448	64%	\$201,409	\$35,592	\$0	\$2,179	\$2,610	\$236,570
2030	\$355,686	67%	\$236,570	\$36,659	\$0	\$2,083	\$93,201	\$182,111
2031	\$305,887	60%	\$182,111	\$37,759	\$0	\$1,975	\$6,921	\$214,925
2032	\$344,528	62%	\$214,925	\$38,892	\$0	\$2,344	\$0	\$256,160
2033	\$392,554	65%	\$256,160	\$40,059	\$0	\$2,762	\$0	\$298,981
2034	\$443,152	67%	\$298,981	\$41,260	\$0	\$3,143	\$10,588	\$332,796
2035	\$485,527	69%	\$332,796	\$42,498	\$0	\$1,656	\$376,950	\$0
2036	\$153,019	0%	\$0	\$43,773	\$0	\$219	\$0	\$43,992
2037	\$200,031	22%	\$43,992	\$45,086	\$0	\$624	\$8,264	\$81,438
2038	\$241,213	34%	\$81,438	\$46,439	\$0	\$1,047	\$0	\$128,924
2039	\$293,454	44%	\$128,924	\$47,832	\$0	\$1,511	\$3,507	\$174,760
2040	\$345,000	51%	\$174,760	\$49,267	\$0	\$1,503	\$98,162	\$127,368
2041	\$301,989	42%	\$127,368	\$50,745	\$0	\$1,527	\$0	\$179,640
2042	\$360,226	50%	\$179,640	\$52,267	\$0	\$1,584	\$94,847	\$138,644
2043	\$323,993	43%	\$138,644	\$53,835	\$0	\$1,309	\$69,372	\$124,417
2044	\$314,433	40%	\$124,417	\$55,451	\$0	\$1,501	\$4,066	\$177,303
2045	\$373,416	47%	\$177,303	\$57,114	\$0	\$1,542	\$103,328	\$132,631
2046	\$333,541	40%	\$132,631	\$58,827	\$0	\$1,567	\$10,783	\$182,242
2047	\$389,451	47%	\$182,242	\$60,592	\$0	\$2,125	\$0	\$244,960
2048	\$459,855	53%	\$244,960	\$62,410	\$0	\$2,762	\$0	\$310,131
2049	\$534,133	58%	\$310,131	\$64,282	\$0	\$3,340	\$16,496	\$361,258



CURRENT FUNDING PLAN | SUMMARY

Year	Fully Funded Balance	Percentage Funded	Beginning Balance	Reserve Contribution	Special Assessment	Interest Earned	Reserve Expenditures	Ending Balance
2020	\$134,835	39%	\$51,955	\$24,000	\$0	\$393	\$49,350	\$26,998
2021	\$114,485	24%	\$26,998	\$24,720	\$0	\$394	\$0	\$52,111
2022	\$145,148	36%	\$52,111	\$25,462	\$0	\$622	\$5,305	\$72,890
2023	\$172,084	42%	\$72,890	\$26,225	\$0	\$860	\$0	\$99,976
2024	\$206,134	49%	\$99,976	\$27,012	\$0	\$1,124	\$2,251	\$125,861
2025	\$239,752	52%	\$125,861	\$27,823	\$0	\$1,068	\$65,993	\$88,758
2026	\$209,618	42%	\$88,758	\$28,657	\$0	\$1,031	\$0	\$118,446
2027	\$247,472	48%	\$118,446	\$29,517	\$0	\$1,332	\$0	\$149,295
2028	\$287,408	52%	\$149,295	\$30,402	\$0	\$1,572	\$14,631	\$166,638
2029	\$314,448	53%	\$166,638	\$31,315	\$0	\$1,810	\$2,610	\$197,153
2030	\$355,686	55%	\$197,153	\$32,254	\$0	\$1,667	\$93,201	\$137,873
2031	\$305,887	45%	\$137,873	\$33,222	\$0	\$1,510	\$6,921	\$165,684
2032	\$344,528	48%	\$165,684	\$34,218	\$0	\$1,828	\$0	\$201,730
2033	\$392,554	51%	\$201,730	\$35,245	\$0	\$2,194	\$0	\$239,169
2034	\$443,152	54%	\$239,169	\$36,302	\$0	\$2,520	\$10,588	\$267,403
2035	\$485,527	55%	\$267,403	\$37,391	\$0	\$976	\$376,950	-\$71,180
2036	\$153,019	0%	-\$71,180	\$38,513	\$0	\$0	\$0	-\$32,667
2037	\$200,031	0%	-\$32,667	\$39,668	\$0	\$0	\$8,264	-\$1,263
2038	\$241,213	0%	-\$1,263	\$40,858	\$0	\$192	\$0	\$39,787
2039	\$293,454	14%	\$39,787	\$42,084	\$0	\$591	\$3,507	\$78,955
2040	\$345,000	23%	\$78,955	\$43,347	\$0	\$515	\$98,162	\$24,655
2041	\$301,989	8%	\$24,655	\$44,647	\$0	\$470	\$0	\$69,772
2042	\$360,226	19%	\$69,772	\$45,986	\$0	\$453	\$94,847	\$21,365
2043	\$323,993	7%	\$21,365	\$47,366	\$0	\$104	\$69,372	-\$537
2044	\$314,433	0%	-\$537	\$48,787	\$0	\$218	\$4,066	\$44,403
2045	\$373,416	12%	\$44,403	\$50,251	\$0	\$179	\$103,328	-\$8,496
2046	\$333,541	0%	-\$8,496	\$51,758	\$0	\$120	\$10,783	\$32,599
2047	\$389,451	8%	\$32,599	\$53,311	\$0	\$593	\$0	\$86,503
2048	\$459,855	19%	\$86,503	\$54,910	\$0	\$1,140	\$0	\$142,553
2049	\$534,133	27%	\$142,553	\$56,558	\$0	\$1,626	\$16,496	\$184,240



METHODOLOGY

An important aspect of living in a common area development such as a cooperative, condominium, or homeowner Association is the community's ownership and commitment to maintain its common areas.

Association members have a vested interest in maintaining and preserving their investment. To meet these obligations, the Association should prudently prepare for the future and contribute funds into a reserve account. Periodic contributions provide the freedom to gradually accumulate funds for anticipated expenditures while limiting the need to raise large sums of money through alternative means, such as special assessments.

When implementing a policy to fund major repair or replacement, the Board must educate owners about the benefits of accumulating reserve funds in advance through periodic contributions. Benefits of a systematic accumulation of funds include:

- having assurance that funds for major repairs and replacements will be available when needed;
- development of an equitable method of charging both current and future owners for ongoing use of assets;
- preservation of the market value of individual units; and
- compliance with the governing documents, statutes, mortgages, and other similar requirements.

A reserve study recommends the preferable mode of funding through smaller monthly contributions rather than facing large, unanticipated special assessments. The reserve study provides an Association with access to information and materials that will assist them in making timely and informed decisions about their reserve fund and contributions.

A reserve study is the sum of two parts: the physical and financial analysis. The physical analysis is a result of the on-site collection and review of data specific to the property's reserve components, common areas, and limited common areas. Through an onsite inspection and the use of source materials, the Reserve Specialist quantifies and establishes the reserve component inventory and assesses the physical condition of the Association's reserve components. Data from the physical analysis is used to define the scope and timing of future anticipated expenses.

The financial analysis evaluates the condition of the Association's reserve fund in relation to its income and anticipated expenses. It appraises the adequacy of the reserve fund, and associated



member contributions, against the current and future expenditures of the Association. To adequately forecast these expenditures over the 30-year projection period, current costs, projected inflation, and interest rates must be established. Recommendations are then provided to establish a reserve fund that addresses anticipated expenses, without having to resort to special assessments.

Due to the long-term nature of a reserve study, certain assumptions must be made. Every effort has been made to ensure that the recommendations are based upon reliable and experienced sources in the building industry. However, there can be no guarantee that events will occur at the predicted specific intervals, or that they will occur at all. Any reserve study must be viewed in the light of circumstances existing at the actual time of the study.

PHYSICAL ANALYSIS

As part of this reserve study a comprehensive list of reserve components (major common and limited common elements) has been compiled. Estimates for the useful life, remaining life, plus current repair and replacement costs for each of these reserve components have been calculated. This list is not intended to be exhaustive. However, an inaccurate or incomplete list of components can have an adverse impact upon the Association's long-term funding plan.

Site Inspection

A site inspection is conducted to assess the general condition of the property and its common areas. The on-site inspection is visual in nature, and no destructive or invasive testing is conducted. Observations are recorded using a representative sampling of the Association's common areas and reserve components. The component inventory and associated field measurements are also substantiated as part of the inspection.

Reserve Components

Determination of what constitutes a reserve component is dependent on a number of factors. A four-part test is generally used to distinguish a reserve item from an operational or maintenance expense. A component is included as a reserve item only if it satisfies ALL criteria outlined below:

- It is part of the Association's common and limited common area responsibilities.
- It has a predictable useful service life.
- Its useful life fits within the projection period. This means that components with a life of 30 years or more may not be included as part of the report if it is determined that they will last beyond the projection period.
- Its cost for repair or replacement is too high to include as part of the operating budget.



The components of common property that an Association includes in its reserve funding plan are also dependent on the type of project, the construction properties and the Association's applicable governing documents and state statutes.

Component Useful Life

The useful life of a reserve component relates to the number of years it is expected to last, given reasonable care and maintenance. The prediction of reserve and building component life can be no more than an informed estimate based upon information made available at the time of the report's development. Consideration is given to vendor recommendations, material warranty information provided at the time of the report's development, along with other published sources. The data and service life estimates in this report are based on information gathered from various groups and industry sources as outlined below:

- Historical data and feedback from the Association;
- Management groups and maintenance managers;
- Manufacturer recommendations and industry standards;
- Published sources of service life data;
- Manufacturers' and suppliers' data.

Component Remaining Useful Life

The remaining life of a reserve component refers to the number of years left before an item's expected repair or replacement. A component's remaining life is contingent upon the following factors:

- Age/years in service;
- Physical condition;
- Frequency and quality of inspections and maintenance;
- General use;
- Environment, impact of weather and building location;
- Installation methods that meets or exceed industry standards;
- Design and quality of materials used.

In addition to deterioration or anticipated failure of a component, the longevity may be impacted by obsolescence. The accuracy of the estimate is contingent upon reliable information made available at the time of the report's development. It is important to note that even with the highest degree of diligence and experience, outcomes will vary, and no guarantee can be given as to the timing or service life of the reserve components. All service life assessments in this report are based on the assumption that installation is carried out in accordance with manufacturer's recommendations and installation instructions, together with industry standards of workmanship.



FINANCIAL ANALYSIS

An Association, like any business entity, must prepare financially for the replacement and repair of its assets. Reserve study funding analysis is an important part of the annual budget process. Reserve funding should be reviewed at least once annually to help determine the annual assessment to be charged to members. The following elements are used in the financial analysis.

Recommended Funding Rate

We advocate a program of regular reserve fund contributions and promote a gradual means of reserving for future repair and replacement expenses. Recommended contributions are set at a level where they require only minor annual increases. The rate is designed to distribute the anticipated cost of common property ownership equitably between all members over the entire projection period.

Fully Funded Balance

The Fully Funded balance is equal to the total depreciable cost of all the Association's reserve components. It is determined by dividing each reserve component's cost by its useful life, and multiplying that by the number of years the component has been in service (effectively its age). In essence, the depreciated or 'used up' value of a component is utilized to establish an amount that the Association should have saved by a particular time. The recommendations in this report are based upon a Full Funding plan, which sets the goal of achieving one hundred percent fully funded reserves by the end of the 30-year projection period. We advocate full funding as we feel that this approach provides a solid platform to address future needs, thus dramatically reducing the need for special assessment.

Percent Funded

An Association's reserve fund status is assessed by comparing the ratio of actual or projected funds available verses how much they 'should have saved'. The result is presented as a percentage and is commonly known as "percent funded". In other words, percent funded is calculated by dividing the Association's current reserve fund balance by the fully funded balance. This equation is an industry measure of how well prepared an Association is to meet its current and future repair and replacement obligations. Percent funded highlights the strength of the Association's reserve account in relation to the anticipated costs of repair and replacement.

Reserve Component Cost

Current cost estimates for reserve components are derived from a variety of sources but typically are based on cost data sourced from national construction estimators (R.S. Means) and vendor pricing acquired from regional contractors and suppliers. All cost estimates formulated from national estimators are based upon the latest specific geographical information for the area. Future cost estimates are determined by applying the assumed annual inflation rate to the current cost of each component.



Individual cost estimates are for budgeting purposes only. Actual construction costs can vary significantly due to economies of scale, material availability, labor, seasonal considerations, and other factors beyond our control. We recommend that project costs be substantiated well in advance of the anticipated date of repair and replacement. A detailed evaluation by a qualified professional should also be undertaken to establish the scope and budget of each project.

Cost estimates do not account for permits, architectural, or project management fees that may be required. Allowances and contingencies must also be added to the total as the scope of work is defined.

Inflation Rate

The effect of inflation on the cost of reserve components is a key factor in the financial projections. Historically, the cost of construction materials and labor rise at a higher rate than that experienced by the general economy. RSG has chosen to use an inflationary multiplier that is somewhat higher than the current general consumer index for inflation. The rate used is based upon the historical average of inflation over the last 30 years. This rate reflects a realistic appreciation of future costs for reserve components and assists the Association in adequately budgeting for increasing cost.

Interest Rate

The interest rate used in this report is formulated on a conservative rate of return. Unless otherwise advised by the Association, an assumed net interest rate of 1.00% is used. RSG offers no guarantee or opinion in relation to investment decisions made by the Association or the rate of return achieved.

Current Reserve Fund Balance

The analysis, recommendations, and financial projections made within this report are heavily reliant on information provided by the Association and its representatives. The starting reserve fund balance (current or projected) and member contribution totals are supplied by these sources. This information has not been audited nor have the financial projections or recommendations.

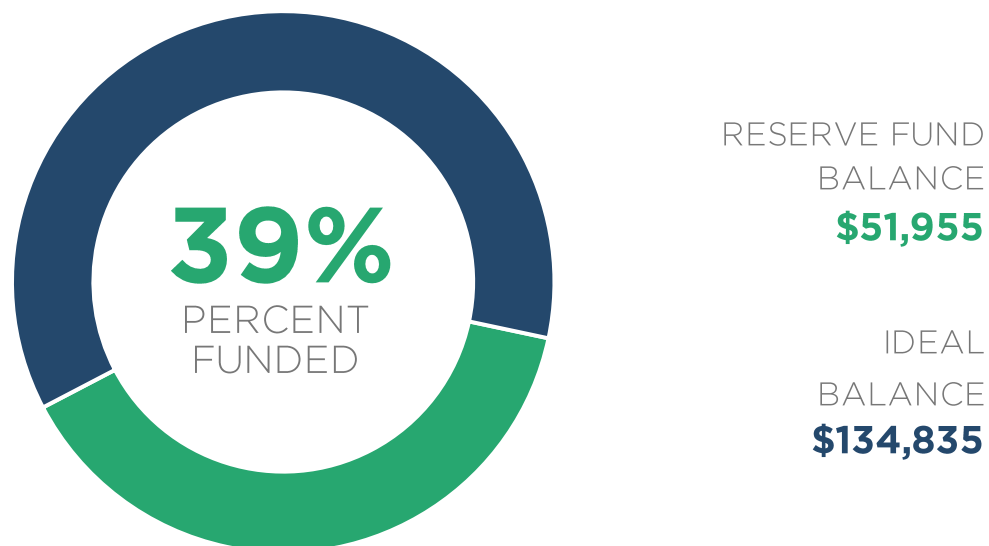


FINANCIAL ANALYSIS

This section of the report is intended to provide the association with the awareness to adequately plan for the ongoing major maintenance, repair and replacement of their common property components. The recommendations included within this report represent one scenario, and are not intended to represent the only means of achieving the association's goals. We recommend that the Board of Directors use the following information as a guide in planning for their future objectives.

Percent Funded

The Percent Funded equation is the industry measure of how well prepared an association is to meet its current and future repair and replacement obligations. Percent funded highlights the strength of the association's reserve account in relation to its anticipated costs of repair and replacement. The higher the funded level, the less exposed an association is to market conditions, unanticipated expenses or events, and fluctuations in the general economy.



An Association at or below a funding level of 30% has an increased risk of requiring special assessments to meet their ongoing obligations, as compared to Associations with higher funding levels. A level of funding at and above 60% is categorized as good or well funded. We recommend that associations look to achieve and maintain funding levels at and above 60%, with a preference to being 100% funded.



Funding Goals

There is a range of funding alternatives available to the association. In our opinion the strategy chosen should not only meet the immediate needs and risk tolerance of current members, but also the longer term needs of the association.

The association needs to establish a reserve contribution rate which, at a minimum, meets their anticipated financial needs without having to resort to special assessment or deferred maintenance. In addition, the funding goal needs to be prudent enough to meet the expectations of current members while not unfairly burdening future owners.

The minimum funding goal needed to meet planned expenditure is Baseline Funding. Baseline Funding maintains the reserve account at or above zero dollars, but leaves the association with no contingency to address unanticipated outcomes. Threshold funding is a strategy designed to provide for this contingency by keeping cash reserves above a specific dollar amount or percent funded level.

FULL FUNDING

Establishes a goal of achieving one hundred percent fully funded reserves by the end of the projection period.

THRESHOLD FUNDING

Sets out to keep the cash reserves above a specified dollar or percent funded amount for the duration of the projection period.

BASELINE FUNDING

Establishes a goal of maintaining a reserve account balance above zero dollars throughout the study period.

The reserve fund plan highlighted in this report is based upon the Full Funding program of reserve contributions. The Full Funding plan highlights an ideal level of contributions which will enable an association to be 100% funded by the end of the projection period. As stated previously, we recommend that the association implement a program that moves them toward and maintains a funding level of 60-100%.



RESERVE COMPONENT LIST

Component	Useful Life	Remaining Useful Life	Quantity	Unit of Measure	Unit Cost	Current Cost	Current Fully Funded Balance
General Site - Fence, Wood, 6' Picture Frame **	20	15	7,200	LF	\$26.75	\$192,600	\$48,150
General Site - Fence, Wood 6' Stain	5	0	7,200	LF	\$5.50	\$39,600	\$39,600
General Site - Asphalt Walkways & B'Ball Court, Replace	40	23	6,700	SF	\$4.50	\$30,150	\$12,814
General Site - Landscape, Irrigation General	3	2	1	Allowance	\$5,000.00	\$5,000	\$1,667
General Site - Fence, Chain Link	25	5	92	LF	\$28.00	\$2,576	\$2,061
Site Fixtures - Mailboxes, Cluster Box Units [x 22]	5	0	5	Each	\$1,950.00	\$9,750	\$9,750
Site Fixtures - Pedestrian Bridge **	25	22	3	Each	\$16,500.00	\$49,500	\$5,940
Site Fixtures - Seating, Bench	25	8	2	Each	\$1,050.00	\$2,100	\$1,428
Site Fixtures - Seating, Picnic Table	25	8	2	Each	\$800.00	\$1,600	\$1,088
Site Fixtures - Sports Court, B'ball Pole & Hoop	25	8	1	Each	\$2,850.00	\$2,850	\$1,938
Site Fixtures - Signage, Monument [Nth Entry]	20	10	1	Allowance	\$10,000.00	\$10,000	\$5,000
Site Fixtures - Signage, Monument [Sth Entry]	20	10	1	Allowance	\$10,000.00	\$10,000	\$5,000
Site Fixtures - Lighting, Monuments	5	4	1	Allowance	\$2,000.00	\$2,000	\$400
TOTALS						\$357,726	\$134,835

- Readers should be aware that certain property elements are considered 'long life' elements and are not accounted for within the reserve study in conjunction with elements that are or can be managed as part of the Association's operating budget.

Cost estimates do not account for permits, architectural, or project management fees that may be required. Allowances and contingencies must also be added to the total as the scope of work is defined.

** Estimate based upon inflated client cost history.



RESERVE EXPENSES 1-10 YEARS

Component	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
General Site - Fence, Wood, 6' Picture Frame	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
General Site - Fence, Wood 6' Stain	\$39,600	\$0	\$0	\$0	\$0	\$45,907	\$0	\$0	\$0	\$0
General Site - Asphalt Walkways & B'Ball Court, Replace	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
General Site - Landscape, Irrigation General	\$0	\$0	\$5,305	\$0	\$0	\$5,796	\$0	\$0	\$6,334	\$0
General Site - Fence, Chain Link	\$0	\$0	\$0	\$0	\$0	\$2,986	\$0	\$0	\$0	\$0
Site Fixtures - Mailboxes, Cluster Box Units [x 22]	\$9,750	\$0	\$0	\$0	\$0	\$11,303	\$0	\$0	\$0	\$0
Site Fixtures - Pedestrian Bridge	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Site Fixtures - Seating, Bench	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,660	\$0
Site Fixtures - Seating, Picnic Table	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,027	\$0
Site Fixtures - Sports Court, B'ball Pole & Hoop	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,610	\$0
Site Fixtures - Signage, Monument [Nth Entry]	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Site Fixtures - Signage, Monument [Sth Entry]	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Site Fixtures - Lighting, Monuments	\$0	\$0	\$0	\$0	\$2,251	\$0	\$0	\$0	\$0	\$2,610
Annual Expenditure	\$49,350	\$0	\$5,305	\$0	\$2,251	\$65,993	\$0	\$0	\$14,631	\$2,610

YEARS 1 THROUGH 10



RESERVE EXPENSES 11-20 YEARS

Component	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
General Site - Fence, Wood, 6' Picture Frame	\$0	\$0	\$0	\$0	\$0	\$300,065	\$0	\$0	\$0	\$0
General Site - Fence, Wood 6' Stain	\$53,219	\$0	\$0	\$0	\$0	\$61,696	\$0	\$0	\$0	\$0
General Site - Asphalt Walkways & B'Ball Court, Replace	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
General Site - Landscape, Irrigation General	\$0	\$6,921	\$0	\$0	\$7,563	\$0	\$0	\$8,264	\$0	\$0
General Site - Fence, Chain Link	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Site Fixtures - Mailboxes, Cluster Box Units [x 22]	\$13,103	\$0	\$0	\$0	\$0	\$15,190	\$0	\$0	\$0	\$0
Site Fixtures - Pedestrian Bridge	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Site Fixtures - Seating, Bench	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Site Fixtures - Seating, Picnic Table	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Site Fixtures - Sports Court, B'ball Pole & Hoop	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Site Fixtures - Signage, Monument [Nth Entry]	\$13,439	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Site Fixtures - Signage, Monument [Sth Entry]	\$13,439	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Site Fixtures - Lighting, Monuments	\$0	\$0	\$0	\$0	\$3,025	\$0	\$0	\$0	\$0	\$3,507
Annual Expenditure	\$93,201	\$6,921	\$0	\$0	\$10,588	\$376,950	\$0	\$8,264	\$0	\$3,507

YEARS 11 THROUGH 20



RESERVE EXPENSES 21-30 YEARS

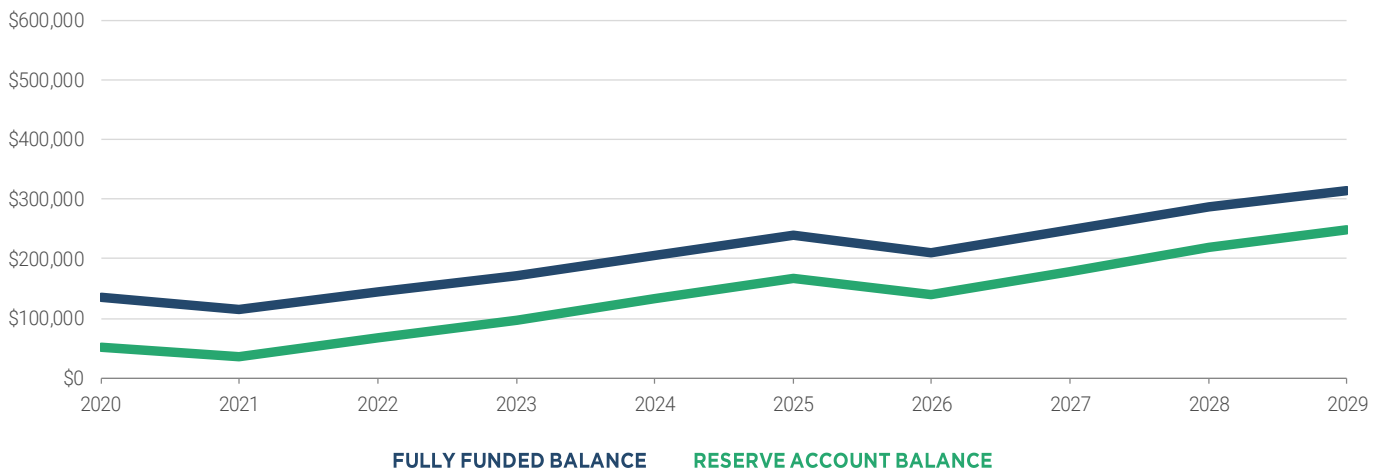
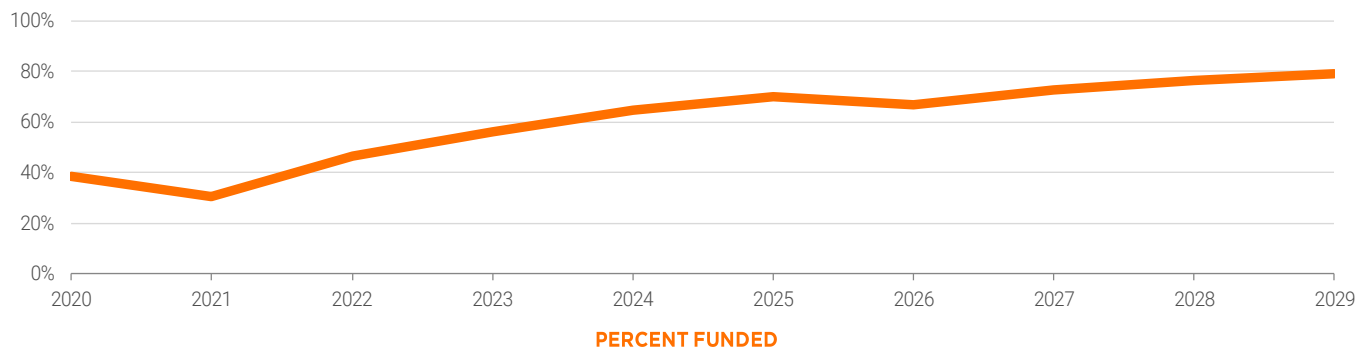
Component	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049
General Site - Fence, Wood, 6' Picture Frame	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
General Site - Fence, Wood 6' Stain	\$71,522	\$0	\$0	\$0	\$0	\$82,914	\$0	\$0	\$0	\$0
General Site - Asphalt Walkways & B'Ball Court, Replace	\$0	\$0	\$0	\$59,504	\$0	\$0	\$0	\$0	\$0	\$0
General Site - Landscape, Irrigation General	\$9,031	\$0	\$0	\$9,868	\$0	\$0	\$10,783	\$0	\$0	\$11,783
General Site - Fence, Chain Link	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Site Fixtures - Mailboxes, Cluster Box Units [x 22]	\$17,610	\$0	\$0	\$0	\$0	\$20,414	\$0	\$0	\$0	\$0
Site Fixtures - Pedestrian Bridge	\$0	\$0	\$94,847	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Site Fixtures - Seating, Bench	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Site Fixtures - Seating, Picnic Table	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Site Fixtures - Sports Court, B'ball Pole & Hoop	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Site Fixtures - Signage, Monument [Nth Entry]	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Site Fixtures - Signage, Monument [Sth Entry]	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Site Fixtures - Lighting, Monuments	\$0	\$0	\$0	\$0	\$4,066	\$0	\$0	\$0	\$0	\$4,713
Annual Expenditure	\$98,162	\$0	\$94,847	\$69,372	\$4,066	\$103,328	\$10,783	\$0	\$0	\$16,496

YEARS 21 THROUGH 30



FULL FUNDING PLAN 1-10 YEARS

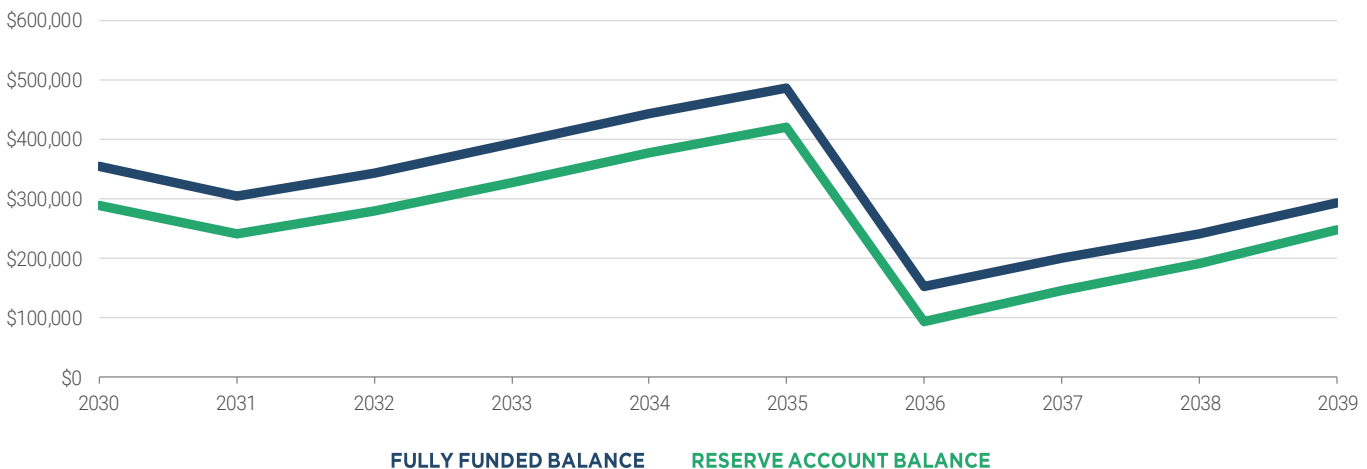
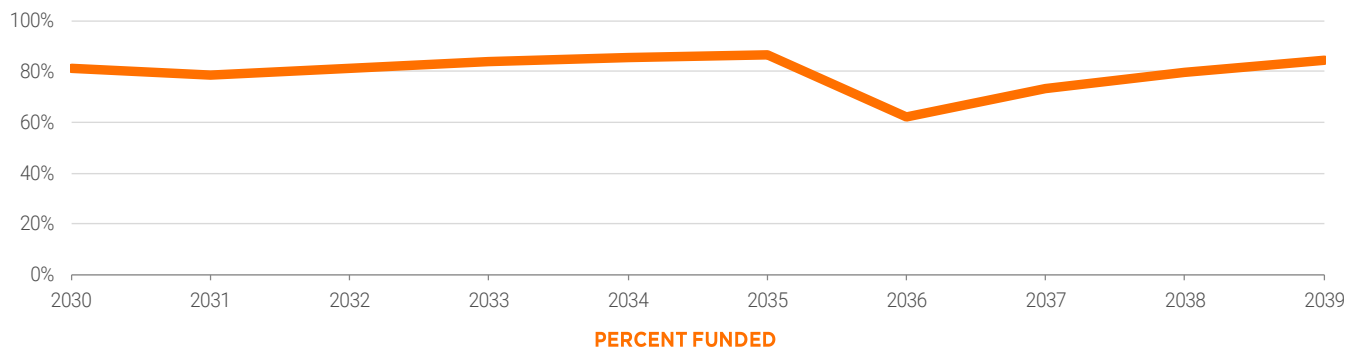
YEAR 1 - 10	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Fully Funded Balance	\$134,835	\$114,485	\$145,148	\$172,084	\$206,134	\$239,752	\$209,618	\$247,472	\$287,408	\$314,448
Percentage Funded (%)	39%	30%	47%	56%	64%	70%	67%	72%	77%	79%
Beginning Balance	\$51,955	\$34,676	\$67,774	\$96,855	\$132,570	\$167,422	\$139,635	\$179,000	\$219,897	\$247,672
Reserve Contribution	\$31,640	\$32,589	\$33,566	\$34,573	\$35,611	\$36,679	\$37,779	\$38,913	\$40,080	\$41,282
Avg Unit Contribution (mth)	\$8.51	\$8.76	\$9.02	\$9.29	\$9.57	\$9.86	\$10.16	\$10.46	\$10.77	\$11.10
Contribution Increase (%)		3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
Special Assessment										
Interest Earned	\$431	\$510	\$819	\$1,141	\$1,492	\$1,528	\$1,585	\$1,985	\$2,326	\$2,670
Reserve Expenditures	\$49,350	\$0	\$5,305	\$0	\$2,251	\$65,993	\$0	\$0	\$14,631	\$2,610
ENDING BALANCE	\$34,676	\$67,774	\$96,855	\$132,570	\$167,422	\$139,635	\$179,000	\$219,897	\$247,672	\$289,015





FULL FUNDING PLAN 11-20 YEARS

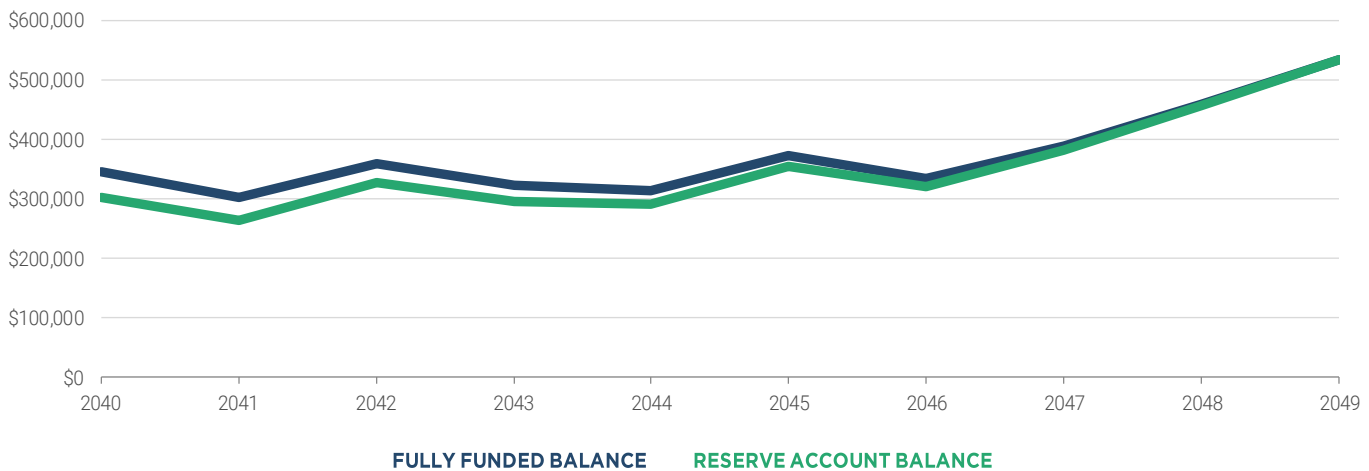
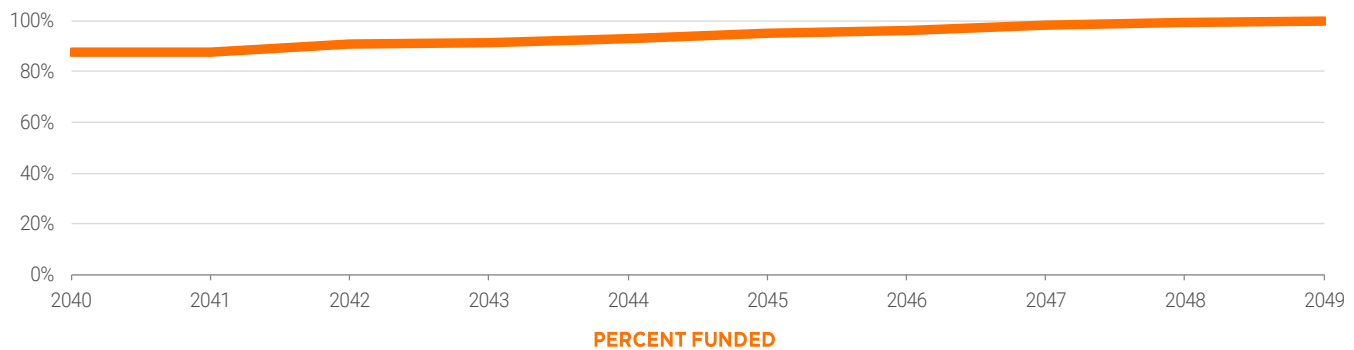
YEAR 11 - 20	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
Fully Funded Balance	\$355,686	\$305,887	\$344,528	\$392,554	\$443,152	\$485,527	\$153,019	\$200,031	\$241,213	\$293,454
Percentage Funded (%)	81%	79%	81%	84%	85%	86%	62%	73%	80%	85%
Beginning Balance	\$289,015	\$240,972	\$280,441	\$328,582	\$378,564	\$419,805	\$94,708	\$146,681	\$192,399	\$248,456
Reserve Contribution	\$42,521	\$43,796	\$45,110	\$46,464	\$47,858	\$49,293	\$50,772	\$52,295	\$53,864	\$55,480
Avg Unit Contribution (mth)	\$11.43	\$11.77	\$12.13	\$12.49	\$12.86	\$13.25	\$13.65	\$14.06	\$14.48	\$14.91
Contribution Increase (%)	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
Special Assessment										
Interest Earned	\$2,637	\$2,594	\$3,030	\$3,518	\$3,972	\$2,560	\$1,201	\$1,687	\$2,193	\$2,744
Reserve Expenditures	\$93,201	\$6,921	\$0	\$0	\$10,588	\$376,950	\$0	\$8,264	\$0	\$3,507
ENDING BALANCE	\$240,972	\$280,441	\$328,582	\$378,564	\$419,805	\$94,708	\$146,681	\$192,399	\$248,456	\$303,174





FULL FUNDING PLAN 21-30 YEARS

YEAR 21 - 30	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049
Fully Funded Balance	\$345,000	\$301,989	\$360,226	\$323,993	\$314,433	\$373,416	\$333,541	\$389,451	\$459,855	\$534,133
Percentage Funded (%)	88%	88%	91%	91%	93%	95%	96%	98%	99%	100%
Beginning Balance	\$303,174	\$264,983	\$326,786	\$295,660	\$291,654	\$355,123	\$321,407	\$382,358	\$456,814	\$534,133
Reserve Contribution	\$57,144	\$58,859	\$60,625	\$62,443	\$64,317	\$66,246	\$68,234	\$70,281	\$72,389	\$74,561
Avg Unit Contribution (mth)	\$15.36	\$15.82	\$16.30	\$16.79	\$17.29	\$17.81	\$18.34	\$18.89	\$19.46	\$20.04
Contribution Increase (%)	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
Special Assessment										
Interest Earned	\$2,827	\$2,944	\$3,097	\$2,922	\$3,218	\$3,366	\$3,501	\$4,175	\$4,930	\$5,632
Reserve Expenditures	\$98,162	\$0	\$94,847	\$69,372	\$4,066	\$103,328	\$10,783	\$0	\$0	\$16,496
ENDING BALANCE	\$264,983	\$326,786	\$295,660	\$291,654	\$355,123	\$321,407	\$382,358	\$456,814	\$534,133	\$597,829





PHYSICAL ANALYSIS

This section of the report provides specific information regarding the physical condition of the property and common area assets. The data that follows is a result of the visual [non-intrusive] site review.

SITE INSPECTION

An on-site field survey was conducted to assess the general condition of the property and its reserve components. The survey was visual in nature, and no destructive or invasive testing was conducted. Observations were recorded using a representative sampling of the Association's common areas and reserve components. The component inventory and associated field measurements were also substantiated as part of the inspection. Due to the general and non-invasive nature of the site inspection, RSG cannot comment on components and conditions not visible to the naked eye.

COMPONENT INVENTORY

The component inventory summarizes associated costs of each reserve component, and additionally highlights those components which require further review. The inventory provides a visual reference point for understanding the Association's common area responsibilities.




COMPONENT INVENTORY

The following inventory summarizes the key data points of each reserve component funded through the Association’s reserves. The list of components is unique to the Association and may serve as a general guide in determining the current condition and level of care needed to adequately maintain each component.

Understanding the Component Inventory

The information is intended to visually simplify and summarize the key points of information on a component by component basis.

Site Fixtures - Sports Court, B’ball Pole & Hoop



Current Cost	Estimated Quantity	Work Required	Action Required
\$2,850	1 Each	Replace	2028



The orange badge highlights reserve components that are significant in nature, accounting for more than 5% of the Association’s total reserve funding budget. The Association should give greater consideration to the maintenance and ongoing review of these particular items.



General Site - Fence, Wood, 6' Picture Frame

Current Cost	Estimated Quantity	Work Required	Action Required
\$192,600	7,200 LF	Replace	2035

General Site - Fence, Wood 6' Stain

Current Cost	Estimated Quantity	Work Required	Action Required
\$39,600	7,200 LF	Stain	2020

General Site - Asphalt Walkways & B'Ball Court, Replace


Current Cost	Estimated Quantity	Work Required	Action Required
\$30,150	6,700 SF	Repair	2043

General Site - Landscape, Irrigation General

Current Cost	Estimated Quantity	Work Required	Action Required
\$5,000	1 Allowance	Replace	2022



General Site - Fence, Chain Link



Current Cost	Estimated Quantity	Work Required	Action Required
\$2,576	92 LF	Replace	2025

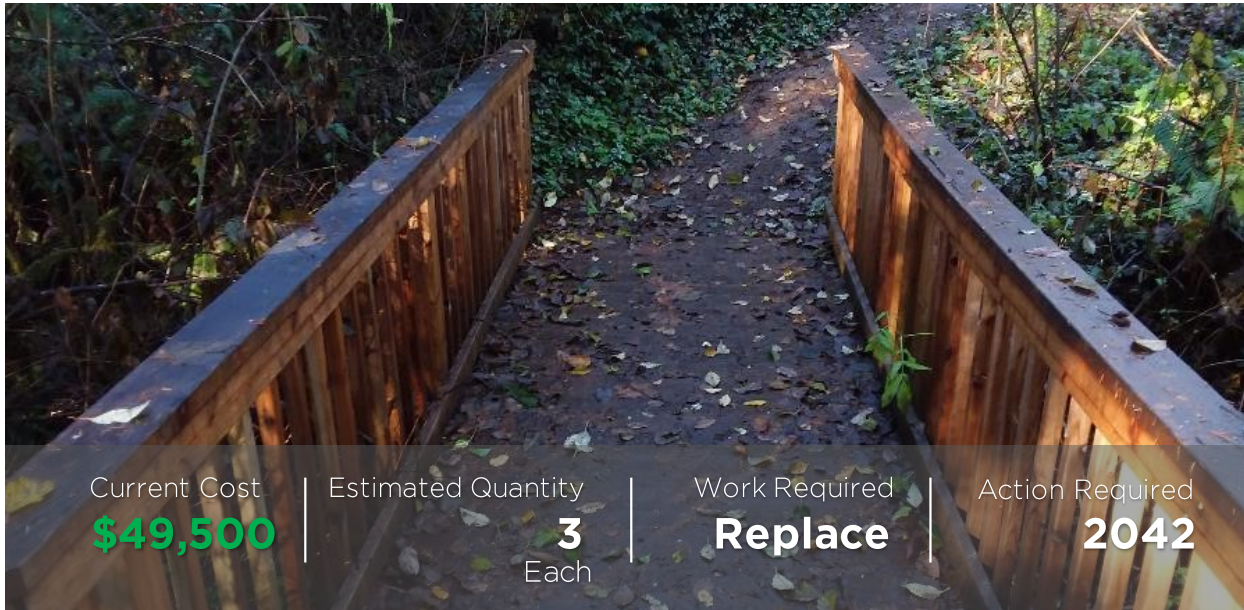
Site Fixtures - Mailboxes, Cluster Box Units [x 22]



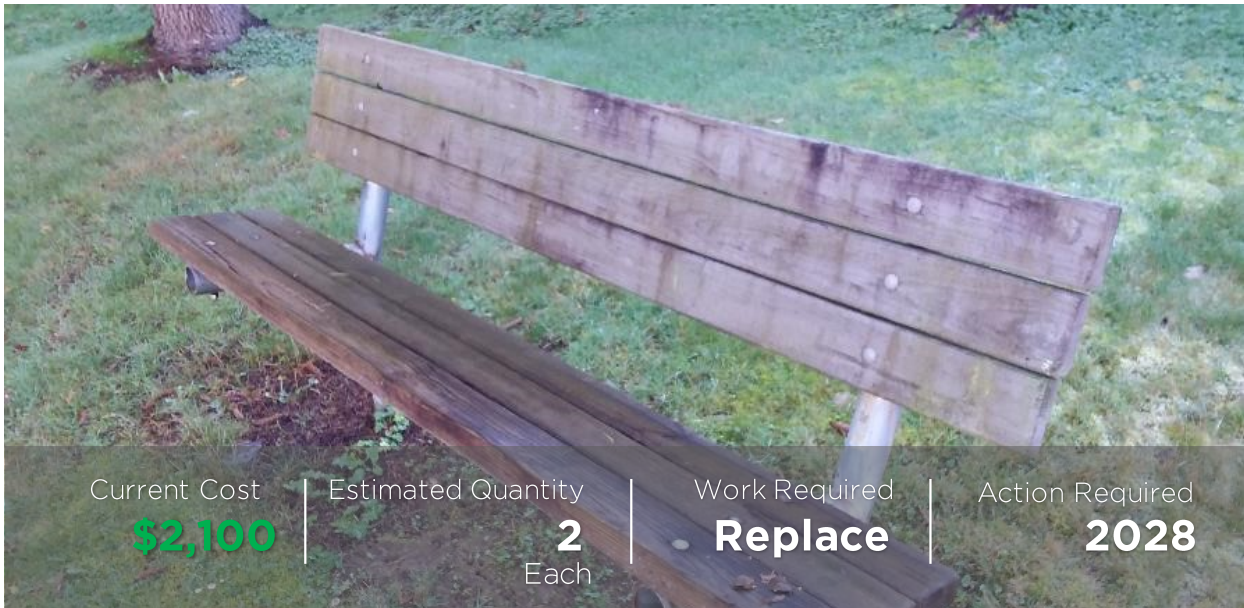
Current Cost	Estimated Quantity	Work Required	Action Required
\$9,750	5 Each	Replace	2020



Site Fixtures - Pedestrian Bridge



Site Fixtures - Seating, Bench





Site Fixtures - Seating, Picnic Table



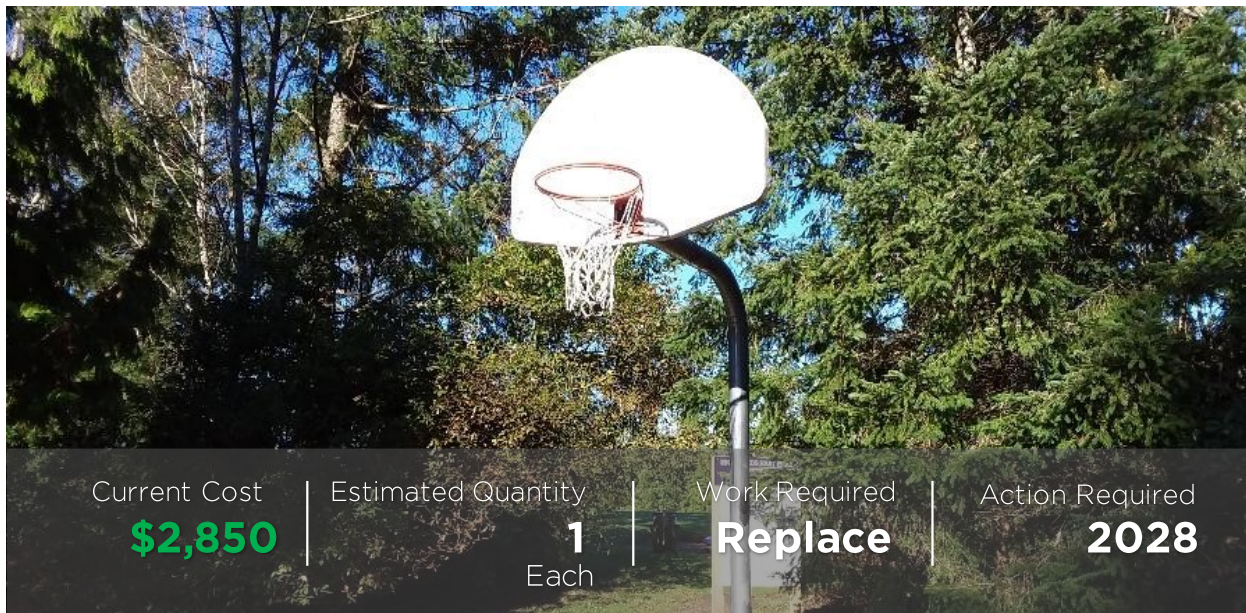
Current Cost
\$1,600

Estimated Quantity
2
Each

Work Required
Replace

Action Required
2028

Site Fixtures - Sports Court, B'ball Pole & Hoop



Current Cost
\$2,850

Estimated Quantity
1
Each

Work Required
Replace


Action Required
2028

Site Fixtures - Signage, Monument [Nth Entry]



Current Cost \$10,000	Estimated Quantity 1 Allowance	Work Required Replace	Action Required 2030
---------------------------------	---	---------------------------------	--------------------------------

Site Fixtures - Signage, Monument [Sth Entry]



Current Cost \$10,000	Estimated Quantity 1 Allowance	Work Required Replace	Action Required 2030
---------------------------------	---	---------------------------------	--------------------------------



Site Fixtures - Lighting, Monuments





DISCLOSURES

As a guideline for establishing and spending reserves, it is assumed that the reserve study will be regularly updated to address the Association's changing physical and financial circumstances. As such this report is valid at the date shown and Reserve Study Group, LLC (RSG) cannot be held responsible for subsequent changes in physical/chemical environmental conditions and/or legislation over which we have no control.

This reserve study is based on visual inspections of the physical plant's major components. No invasive or destructive testing, or testing of materials was conducted during the inspections, or at any other time during the preparation of this report. It is assumed that all building and ancillary components have been designed and constructed properly and that life cycles will approximate normal industry performance standards. RSG shall not be responsible for accurate determination of remaining life expectancies of components that may have been improperly designed and constructed. Our opinions of the remaining life expectancy of the property's components do not represent a guarantee or warranty of performance in relation to the product, materials or workmanship.

Cost estimates used represent a preliminary opinion only and are neither a quote nor a warranty of actual costs that may be incurred. These estimates are based on typical cost data that may not fully characterize the scope of the underlying property conditions. It should be anticipated that actual cost outcomes will be impacted by varying physical and economic conditions, maintenance practices, changes in technology, and future regulatory actions.

The authors of this report make no representation or warranty, expressed or implied, with respect to the contents of this publication or any part thereof and cannot accept any legal responsibility or liability for any inaccuracies, errors or omissions contained in this publication or any part thereof. Our best professional judgment has been used, however certain facts forming the basis of this report are subject to professional interpretation and differing conclusions could be reached.

RSG nor any of its representatives, agents or employees maintain management roles or vested interest in, or have other business relationships with the Association. There is no perceived or actual conflicts of interest between RSG and the Association. Our reserve studies are prepared by a reserve study professional and also comply with the requirements of the Washington Unified Common Interest Act (WUCIOA).

This reserve study should be reviewed carefully. It may not include all common and limited common element components that will require major maintenance, repair, or replacement in future years, and may not include regular contributions to a reserve account for the cost of such maintenance, repair, or replacement. The failure to include a component in a reserve study, or to provide contributions to a reserve account for a component, may, under some circumstances, require the association to (1) defer major maintenance, repair, or replacement, (2) increase future reserve contributions, (3) borrow funds to pay for major maintenance, repair, or replacement, or (4) impose special assessments for the cost of major maintenance, repair, or replacement.



GLOSSARY OF TERMS

Component

The individual line items in the Reserve Study which are included in the Physical Analysis. These elements form the building blocks for the Reserve Study.

Estimated Useful Life

The estimated time, in years, that a reserve component can be expected to serve its intended function if properly constructed in its present application or installation.

Fully Funded

When the actual (or projected) Reserve balance is equal to the Fully Funded Balance.

Fully Funded Balance (FFB)

The Reserve balance that is in direct proportion to the fraction of life “used up” of the current Repair or Replacement cost. This number is calculated for each component, then summed together for an Association total.

$$\text{FFB} = \text{Current Cost} \times \text{Effective Age} / \text{Useful Life}$$

Percent Funded

The ratio, at a particular point of time, of the actual Reserve Balance to the Fully Funded Balance (FFB), expressed as a percentage.

Remaining Useful Life

The estimated time, in years, that a Reserve Component can be expected to continue to service its intended function. Projects anticipated to occur in the initial year have a “zero” Remaining Life.

Unit Cost Estimate

The cost of replacing, repairing, or restoring a Reserve Component to its original functional condition. The Current Replacement Cost would be the cost to replace, repair, or restore the component during the current year.

Unit of Measure

Various units of measure have been used to quantify the amounts and costs in relation to each reserve component. Below are the key units used as part of this report.

SF = Square Foot
LF = Linear Foot

SY = Square Yard
SQUARE = 100 Square Feet (Roofing)

Reserve Study Group, LLC
701 Fifth Ave, Suite 4200, Seattle WA 98104
www.reservestudygroup.com

