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"Full" Reserve Study



Sun Country Maintenance Association Cle Elum, WA

Report #: 27561-0 For Period Beginning: January 1, 2016 Expires: December 31, 2016

Date Prepared: September 24, 2015



Hello, and welcome to your Reserve Study!

- W e don't want you to be surprised. This Report is designed to help you anticipate, and prepare for, the major common area expenses your association will face. Inside you will find:
- 1) <u>The Reserve Component List</u> (the "Scope and Schedule" of your Reserve projects) – telling you what your association is Reserving for, what condition they are in now, and what they'll cost to replace.
- 2) <u>An Evaluation of your current Reserve Fund</u> <u>Size and Strength</u> (Percent Funded). This tells you your financial starting point, revealing your risk of deferred maintenance and special assessments.
- 3) <u>A Recommended Multi-Year Reserve Funding</u> <u>Plan</u>, answering the question... "What do we do now?"

More Questions?

Visit our website at <u>www.ReserveStudy.com</u> or call us at:

253/661-5437 <u>Relax</u>, it's from <u>Est. 1986</u> Reserve Studies for Community Associations

Association Reserves WA. LLC.

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3- Minute Executive Summary

Association:	Sun Country Maintenance	#: 27561-0
	Association	
Location:	Cle Elum, WA	# of Units: 300
Report Period:	January 1, 2016 through December	r 31, 2016

Findings/Recommendations as-of 1/1/2016:

Projected Starting Reserve Balance:	\$226,289
Current Fully Funded Reserve Balance:	\$382,328
Average Reserve Deficit (Surplus) Per Unit:	\$520
100% 2016 Monthly "Full Funding" Contributions:	\$6,000
70% 2016 Monthly "Threshold Funding" Contributions:	\$4,800
Baseline contributions (min to keep Reserves above \$0):	\$2,300
Recommended 2016 Special Assessment for Reserves:	\$0
Most Recent Budgeted Reserve Contribution Rate:	\$1,250



Economic Assumptions:

- This is a "Full" Reserve Study, based on our site inspection on May 22, 2015 and meets or exceeds all requirements of the RCW. This study was prepared by a credentialed Reserve Specialist (RS[™]).
- Your Reserve Fund is currently 59% Funded. This means the association's special assessment & deferred maintenance risk is currently in the mid-level range. The objective of your multi-year Funding Plan is to fund your Reserves to a level where you will enjoy a low risk of such Reserve cash flow problems.
- Based on this starting point and your anticipated future expenses, our recommendation is to increase your Reserve contributions to within the 70% to 100% level as noted above (with annual increases as noted in Table 5 of this report). 100% "Full" and 70% contribution rates are designed to achieve these funding objectives by the end of our 30-year report scope. No assets appropriate for Reserve designation were excluded. See photo appendix for component details; the basis of our assumptions.

Table '	1: Executive Summary			27561-0
		Useful	Rem.	Current
		Life	Useful	Cost
#	Component	(yrs)	Life (yrs)	Estimate
	Site / Grounds			
<u>, </u>				
120	Asphalt - Chipseal	10	5	\$210,000
140	Post and Rail Fence - Replace	20	19	\$2,400
200	Entry Signs - Replace	20	13	\$3,000
201	Road Signs (metal) - Replace	20	10	\$8,000
205	Mailboxes - Replace	20	15	\$11,200
	Water System			
805	Pump Station Roof - Replace	40	35	\$13,200
820	System Controls - Replace	30	25	\$92,500
830	Pumps - Replace	15	10	\$18,000
835	Booster Pumps - Replace	25	20	\$70,000
840	Chlorine Pump/Analyzer - Replace	10	5	\$3,000
902	Well Pumps/Motors - Replace	15	5	\$70,000
910	Concrete Storage Tanks - Replace	60	55	\$330,000
911	Concrete Storage Tanks - Clean	10	5	\$5,000
930	Water Main Lines (Iron) - Replace	75	70	\$40,000
931	Water Main Lines (PVC) - Replace	60	55	\$1,500,000
940	Pressure Reducing Station - Replace	20	15	\$37,500
950	Fire Hydrants - Replace	60	55	\$130,000
960	Gas Generator - Replace	40	35	\$50,000
18	Total Funded Components			

Note 1: a Useful Life of "N/A" means a one-time expense, not expected to repeat.

Note 2: Yellow highlighted line items are expected to require attention in the initial year, green highlighted items are expected to occur within the first five years.

Cross reference component numbers with photographic inventory appendix. A reserve-funding threshold of \$2,000 is suggested for your association (expenses below this level expected to be factored within operating budget).

Introduction



A Reserve Study is the art and science of anticipating, and preparing for, an association's major common area repair and replacement expenses. Partially art, because in this field we are making projections about the future. Partially science, because our work is a combination of research and welldefined computations, following consistent National Reserve Study Standard principles.

The foundation of this and every Reserve Study is your Reserve Component List (<u>what</u> you are reserving for). This is because the Reserve Component List defines the *scope and schedule* of all your anticipated upcoming Reserve projects. Based on that List and your starting balance, we calculate the association's Reserve Fund Strength (reported in terms of "Percent Funded"). Then we compute a Reserve Funding Plan to provide for the Reserve needs of the association. These form the three results of your Reserve Study.



RESERVE STUDY RESULTS

Reserve contributions are not "for the future". Reserve contributions are designed to offset the ongoing, daily deterioration of your Reserve assets. Done well, a <u>stable, budgeted</u> Reserve Funding Plan will collect sufficient funds from the owners who enjoyed the use of those assets, so the association is financially prepared for the irregular expenditures scattered through future years when those projects eventually require replacement.

Methodology





For this <u>Full Reserve Study</u>, we started with a review of your Governing Documents, recent Reserve expenditures, an evaluation of how expenditures are handled (ongoing maintenance vs Reserves), and research into any well-established association precedents.

We performed an on-site inspection to quantify and evaluate your common areas, creating your Reserve Component List *from scratch*.

Which Physical Assets are Funded by Reserves?

There is a national-standard four-part test to determine which expenses should appear in your Reserve Component List. First, it must be a common area maintenance responsibility. Second, the component must have a limited life. Third, the remaining life must be predictable (or it by definition is a *surprise* which cannot be accurately anticipated). Fourth, the component must be above a minimum threshold cost (often between .5% and 1% of an association's total budget). This limits Reserve



RESERVE COMPONENT "FOUR-PART TEST"

Components to major, predictable expenses. Within this framework, it is inappropriate to include *lifetime* components, unpredictable expenses (such as damage due to fire, flood, or earthquake), and expenses more appropriately handled from the Operational Budget or as an insured loss.

How do we establish Useful Life and Remaining Useful Life estimates?

- 1) Visual Inspection (observed wear and age)
- 2) Association Reserves database of experience
- 3) Client History (install dates & previous life cycle information)
- 4) Vendor Evaluation and Recommendation

How do we establish Current Repair/Replacement Cost Estimates? In this order...

- 1) Actual client cost history, or current proposals
- 2) Comparison to Association Reserves database of work done at similar associations
- 3) Vendor Recommendations
- 4) Reliable National Industry cost estimating guidebooks

How much Reserves are enough?

Reserve adequacy is not measured in cash terms. Reserve adequacy is found when the *amount* of current Reserve cash is compared to Reserve component deterioration (the *needs of the association*). Having *enough* means the association can execute its projects in a timely manner with existing Reserve funds. Not having *enough* typically creates deferred maintenance or special assessments.

Adequacy is measured in a two-step process:

- 1) Calculate the *value of deterioration* at the association (called Fully Funded Balance, or FFB).
- Compare that to the Reserve Fund Balance, and express as a percentage.



SPECIAL ASSESSMENT RISK

Each year, the *value of deterioration* at the association changes. When there is more deterioration (as components approach the time they need to be replaced), there should be more cash to offset that deterioration and prepare for the expenditure. Conversely, the *value of deterioration* shrinks after projects are accomplished. The *value of deterioration* (the FFB) changes each year, and is a moving but predictable target.

There is a high risk of special assessments and deferred maintenance when the Percent Funded is *weak*, below 30%. Approximately 30% of all associations are in this high risk range. While the 100% point is Ideal (indicating Reserve cash is equal to the *value of deterioration*), a Reserve Fund in the 70% -130% range is considered strong (low risk of special assessment).

Measuring your Reserves by Percent Funded tells how well prepared your association is for upcoming Reserve expenses. New buyers should be very aware of this important disclosure!

How much should we contribute?



According to National Reserve Study Standards, there are four Funding Principles to balance in developing your Reserve Funding Plan. Our first objective is to design a plan that provides you with <u>sufficient cash</u> to perform your Reserve projects on time. Second, a <u>stable contribution</u> is desirable because it keeps these naturally irregular expenses from unsettling the budget.

RESERVE FUNDING PRINCIPLES

Reserve contributions that are <u>evenly distributed</u> over current and future owners enable each owner to pay their fair share of the association's Reserve expenses over the years. And finally, we develop a plan that is <u>fiscally responsible</u> and safe for Boardmembers to recommend to their association. Remember, it is the Board's job to provide for the ongoing care of the common areas. Boardmembers invite liability exposure when Reserve contributions are inadequate to offset ongoing common area deterioration.

What is our Recommended Funding Goal?

Maintaining the Reserve Fund at a level equal to the *value* of deterioration is called "<u>Full Funding</u>" (100% Funded). As each asset ages and becomes "used up", the Reserve Fund grows proportionally. <u>This is simple, responsible, and</u> <u>our recommendation</u>. Evidence shows that associations in the 70-130% range *enjoy a low risk of special assessments or deferred maintenance*.



FUNDING OBJECTIVES

Allowing the Reserves to fall close to zero, but not below zero, is called <u>Baseline Funding</u>. Doing so allows the Reserve Fund to drop into the 0-30% range, where there is a high risk of special assessments & deferred maintenance. Since Baseline Funding still provides for the timely execution of all Reserve projects, and only the "margin of safety" is different, Baseline Funding contributions average only 10% - 15% less than Full Funding contributions. <u>Threshold Funding</u> is the title of all other Cash or Percent Funded objectives *between* Baseline Funding and Full Funding.

Site Inspection Notes

During our site visit on May 22, 2015, we started with a meeting with Sun Country Maintenance Association Board members Dianne D'Alessandro and Wayne Tyrrell, and then started the site inspection. We visually inspected all visible common area while compiling a photographic inventory, noting: current condition, make & model information where appropriate, apparent levels of care and maintenance, exposure to weather elements and other factors that may affect the components useful life.

The current water system at Sun Country was reportedly placed in service in 2011. Although these systems typically have an extended useful life, the eventual large scale replacement costs of these components will be significant and need to be planned for.

Early planning for future maintenance projects, efficient execution and tracking within reserve study updates is key to avoiding future special assessments and cash flow problems. Inspecting and proactively maintaining the roadway, water and sewer systems should be viewed as your top priority.

Projected Expenses

While this Reserve Study looks forward 30 years, we have no expectation that all these expenses will all take place as anticipated. This Reserve Study needs to be updated annually because we expect the timing of these expenses to shift and the size of these expenses to change. We do feel more certain of the timing and cost of near-term expenses than expenses many years away. Your *first five years* of projected Reserve expenses total \$0. Adding the next five years, your *first ten years* of projected Reserve expenses, which we are able to project more accurately than the more distant projections.

The figure below summarizes the projected future expenses at your association as defined by your Reserve Component List. A summary of these expenses are shown in Table 5, while details of the projects that make up these expenses are shown in Table 6.



Annual Reserve Expenses

Figure 1

Reserve Fund Status

The starting point for our financial analysis is your Reserve Fund balance, projected to be \$226,289 as-of the start of your Fiscal Year on January 1, 2016. As of January 1, 2016, your Fully Funded Balance is computed to be \$382,328 (see Table 3). This figure represents the deteriorated value of your common area components. Comparing your Reserve Balance to your Fully Funded Balance indicates your Reserves are 59% Funded. Across the country, approx 6% of associations in this range experience special assessments or deferred maintenance.

Recommended Funding Plan

Based on your current Percent Funded and your near-term and long-term Reserve needs, we are recommending budgeted contributions of \$6,000/month this Fiscal Year. The overall 30-yr plan, in perspective, is shown below. This same information is shown numerically in both Table 5 and Table 6.





The following chart shows your Reserve balance under our recommended Full Funding Plan, an alternate Baseline Funding Plan, and at your current budgeted contribution rate, compared to your always-changing Fully Funded Balance target.



Figure 3

This figure shows this same information, plotted on a <u>Percent Funded</u> scale.



Figure 4

Table Descriptions

The tabular information in this Report is broken down into six tables.

<u>Table 1</u> is a summary of your Reserve Components (your Reserve Component List), the information found in Table 2.

<u>Table 2</u> is your Reserve Component List, which forms the foundation of this Reserve Study. This table represents the information from which all other tables are derived.

<u>Table 3</u> shows the calculation of your Fully Funded Balance, the measure of your current Reserve component deterioration. For each component, the Fully Funded Balance is the fraction of life used up multiplied by its estimated Current Replacement Cost.

<u>Table 4</u> shows the significance of each component to Reserve needs of the association, helping you see which components have more (or less) influence than others on your total Reserve contribution rate. The deterioration cost/yr of each component is calculated by dividing Current Replacement Cost by Useful Life, then that component's percentage of the total is displayed.

<u>Table 5</u>: This table provides a one-page 30-year summary of the cash flowing into and out of the Reserve Fund, with a display of the Fully Funded Balance, Percent Funded, and special assessment risk for each year.

<u>Table 6</u>: This table shows the cash flow detail for the next 30 years. This table makes it possible to see which components are projected to require repair or replacement each year, and the size of those individual expenses.

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Table 2: Reserve Component List Detail

27561-0

				Rem.		
			Useful	Useful	[Current Co	st Estimate]
#	Component	Quantity	Life	Life	Best Case	Worst Case
	Site / Grounds					
120	Asphalt - Chipseal	~ 386,000 Sq Ft	10	5	\$200,000	\$220,000
140	Post and Rail Fence - Replace	~ 150 Lin Ft	20	19	\$2,100	\$2,700
200	Entry Signs - Replace	(3) wood signs	20	13	\$2,400	\$3,600
201	Road Signs (metal) - Replace	~ (80) metal signs	20	10	\$6,400	\$9,600
205	Mailboxes - Replace	(8) cluster stands	20	15	\$9,600	\$12,800
	Water System					
805	Pump Station Roof - Replace	~ 1,200 Sq Ft	40	35	\$12,000	\$14,400
820	System Controls - Replace	(1) control system	30	25	\$85,000	\$100,000
830	Pumps - Replace	(3) 5hp Grundfos pumps	15	10	\$15,000	\$21,000
835	Booster Pumps - Replace	(4) 25hp Grundfos pumps	25	20	\$60,000	\$80,000
840	Chlorine Pump/Analyzer - Replace	Pump, sensor, monitors	10	5	\$2,500	\$3,500
902	Well Pumps/Motors - Replace	(4) well pumps	15	5	\$60,000	\$80,000
910	Concrete Storage Tanks - Replace	(1) 158k gal (1) 100k gal	60	55	\$300,000	\$360,000
911	Concrete Storage Tanks - Clean	(1) 158k gal (1) 100k gal	10	5	\$4,000	\$6,000
930	Water Main Lines (Iron) - Replace	~ 402 Lin Ft	75	70	\$32,000	\$48,000
931	Water Main Lines (PVC) - Replace	~ 14,542 Lin Ft	60	55	\$1,200,000	\$1,800,000
940	Pressure Reducing Station - Replace	(1) station	20	15	\$35,000	\$40,000
950	Fire Hydrants - Replace	~ (26) hydrants	60	55	\$104,000	\$156,000
960	Gas Generator - Replace	(1) Kohler Power Systems	40	35	\$40,000	\$60,000

18 Total Funded Components

Table 3: Fully Funded Balance

27561-0

		Current						Fully
		Cost		Effective		Useful		Funded
#	Component	Estimate	Х	Age	/	Life	=	Balance
	Site / Grounds							
120	Asphalt - Chipseal	\$210,000	Х	5	/	10	=	\$105,000
140	Post and Rail Fence - Replace	\$2,400	Х	1	/	20	=	\$120
200	Entry Signs - Replace	\$3,000	Х	7	/	20	=	\$1,050
201	Road Signs (metal) - Replace	\$8,000	Х	10	/	20	=	\$4,000
205	Mailboxes - Replace	\$11,200	Х	5	/	20	=	\$2,800
	Water System							
805	Pump Station Roof - Replace	\$13,200	Х	5	/	40	=	\$1,650
820	System Controls - Replace	\$92,500	Х	5	/	30	=	\$15,417
830	Pumps - Replace	\$18,000	Х	5	/	15	=	\$6,000
835	Booster Pumps - Replace	\$70,000	Х	5	/	25	=	\$14,000
840	Chlorine Pump/Analyzer - Replace	\$3,000	Х	5	/	10	=	\$1,500
902	Well Pumps/Motors - Replace	\$70,000	Х	10	/	15	=	\$46,667
910	Concrete Storage Tanks - Replace	\$330,000	Х	5	/	60	=	\$27,500
911	Concrete Storage Tanks - Clean	\$5,000	Х	5	/	10	=	\$2,500
930	Water Main Lines (Iron) - Replace	\$40,000	Х	5	/	75	=	\$2,667
931	Water Main Lines (PVC) - Replace	\$1,500,000	Х	5	/	60	=	\$125,000
940	Pressure Reducing Station - Replace	\$37,500	Х	5	/	20	=	\$9,375
950	Fire Hydrants - Replace	\$130,000	Х	5	/	60	=	\$10,833
960	Gas Generator - Replace	\$50,000	Х	5	/	40	=	\$6,250
								\$382,328

Table 4: Component Significance

27561-0

			Current		
		Useful	Cost	Deterioration	Deterioration
#	Component	Life	Estimate	Cost/yr	Significance
	Site / Grounds				
120	Asphalt - Chipseal	10	\$210,000	\$21,000	29.4%
140	Post and Rail Fence - Replace	20	\$2,400	\$120	0.2%
200	Entry Signs - Replace	20	\$3,000	\$150	0.2%
201	Road Signs (metal) - Replace	20	\$8,000	\$400	0.6%
205	Mailboxes - Replace	20	\$11,200	\$560	0.8%
	Water System				
805	Pump Station Roof - Replace	40	\$13,200	\$330	0.5%
820	System Controls - Replace	30	\$92,500	\$3,083	4.3%
830	Pumps - Replace	15	\$18,000	\$1,200	1.7%
835	Booster Pumps - Replace	25	\$70,000	\$2,800	3.9%
840	Chlorine Pump/Analyzer - Replace	10	\$3,000	\$300	0.4%
902	Well Pumps/Motors - Replace	15	\$70,000	\$4,667	6.5%
910	Concrete Storage Tanks - Replace	60	\$330,000	\$5,500	7.7%
911	Concrete Storage Tanks - Clean	10	\$5,000	\$500	0.7%
930	Water Main Lines (Iron) - Replace	75	\$40,000	\$533	0.7%
931	Water Main Lines (PVC) - Replace	60	\$1,500,000	\$25,000	35.0%
940	Pressure Reducing Station - Replace	20	\$37,500	\$1,875	2.6%
950	Fire Hydrants - Replace	60	\$130,000	\$2,167	3.0%
960	Gas Generator - Replace	40	\$50,000	\$1,250	1.7%
18	Total Funded Components			\$71,435	100.0%

Table 5: 30-Year Reserve Plan Summary

Fisca	al Year Start:		01/01/16				Interest: 1.0% Inflation:			3.0%
Re	serve Fund St	rength Calcul	ations				Projected	l Reserve E Changes	Balance	
(All	values as of F	iscal Year Sta	rt Date)					en angee		
	Starting	Fully			Special			Loops or		
	Besorvo	Fully	Dorcont	`	Acomt		Posorvo	Special	Interest	Posorvo
Voar	Balance	Balance	Funded		Dick		Contribe	Asemte	Income	Expanses
0040					Mad	=	¢70.000	A33IIII3	111COITIE	
2016	\$226,289	\$382,328	59.2%		IVIED		\$72,000	\$ ሀ ድር	\$2,635	\$U \$0
2017	\$300,924	\$467,376 \$557,400	64.4%		IVIED		\$78,898	\$U \$0	\$3,419	\$U \$0
2018	\$383,241	\$557,183	68.8%		Ivied		\$86,456 ¢04,720	\$U \$0	\$4,284 ¢5,227	\$U \$0
2019	\$473,981	\$651,957	12.1% 70.00/		LOW		\$94,738	\$U \$0	\$5,237 \$6,297	\$U \$0
2020	\$573,957	\$751,917	76.3%		LOW		\$103,814	\$0	\$6,287	\$0
2021	\$684,059	\$857,287	79.8%		Low		\$113,760	\$0	\$5,766	\$333,871
2022	\$469,714	\$624,416	75.2%		Low		\$117,173	\$0	\$5,307	\$0
2023	\$592,194	\$731,004	81.0%		Low		\$120,688	\$0	\$6,555	\$0
2024	\$719,437	\$843,426	85.3%		Low		\$124,308	\$0	\$7,852	\$0
2025	\$851,597	\$961,935	88.5%		Low		\$128,038	\$0	\$9,198	\$0
2026	\$988,833	\$1,086,796	91.0%		Low		\$131,879	\$0	\$10,421	\$34,942
2027	\$1,096,191	\$1,182,293	92.7%		Low		\$135,835	\$0	\$11,695	\$0
2028	\$1,243,721	\$1,319,611	94.2%		Low		\$139,910	\$0	\$13,197	\$0
2029	\$1,396,828	\$1,464,104	95.4%		Low		\$144,108	\$0	\$14,734	\$4,406
2030	\$1,551,264	\$1,611,541	96.3%		Low		\$148,431	\$0	\$16,330	\$0
2031	\$1,716,025	\$1,771,180	96.9%		Low		\$152,884	\$0	\$15,920	\$415,510
2032	\$1,469,318	\$1,510,973	97.2%		Low		\$157,470	\$0	\$15,552	\$0
2033	\$1,642,340	\$1,674,373	98.1%		Low		\$162,194	\$0	\$17,314	\$0
2034	\$1,821,848	\$1,846,218	98.7%		Low		\$167,060	\$0	\$19,141	\$0
2035	\$2,008,050	\$2,026,866	99.1%		Low		\$172,072	\$0	\$21,016	\$4,208
2036	\$2,196,929	\$2,212,357	99.3%		Low		\$177,234	\$0	\$21,690	\$252,856
2037	\$2,142,998	\$2,151,176	99.6%		Low		\$182,551	\$0	\$22,445	\$0
2038	\$2,347,995	\$2,352,589	99.8%		Low		\$188,028	\$0	\$24,532	\$0
2039	\$2,560,555	\$2,564,149	99.9%		Low		\$193,669	\$0	\$26,696	\$0
2040	\$2,780,919	\$2,786,287	99.8%		Low		\$199,479	\$0	\$28,939	\$0
2041	\$3.009.337	\$3.019.444	99.7%		Low		\$205,463	\$0	\$27.809	\$687,806
2042	\$2,554,803	\$2.555.643	100.0%		Low		\$211.627	\$0	\$26.728	\$0
2043	\$2,793,158	\$2,790,990	100.1%		Low		\$217 976	\$0 \$0	\$29 155	\$0 \$0
2044	\$3,040,288	\$3.038 158	100.1%		Low		\$224 515	\$0 \$0	\$31 670	\$0 \$0
2045	\$3,296.474	\$3,297.644	100.0%		Low		\$231.250	\$0	\$34.278	\$0

Tabl	e 6: 30-Year Income/Expense D)etail (yrs 0	through 4			27561-0
	Fiscal Year	2016	2017	2018	2019	2020
	Starting Reserve Balance	\$226,289	\$300,924	\$383,241	\$473,981	\$573,957
	Annual Reserve Contribution	\$72.000	\$78.898	\$86.456	\$94.738	\$103.814
	Recommended Special Assessments	\$0	\$0	\$0	\$0	\$0
	Interest Earnings	\$2,635	\$3,419	\$4,284	\$5,237	\$6,287
	Total Income	\$300,924	\$383,241	\$473,981	\$573,957	\$684,059
щ	Company					
#	Component					
	Site / Grounds					
						•
120	Asphalt - Chipseal	\$0	\$0	\$0	\$0	\$0
140	Post and Rail Fence - Replace	\$0	\$0	\$0 \$0	\$0	\$0
200	Entry Signs - Replace	\$0	\$0	\$0	\$0	\$0
201	Road Signs (metal) - Replace	\$0	\$0	\$0	\$0	\$0
205	Mailboxes - Replace	\$0	\$0	\$0	\$0	\$0
	Water System					
805	Pump Station Roof - Replace	\$0	\$0	\$0	\$0	\$0
820	System Controls - Replace	\$0	\$0	\$0	\$0	\$0
830	Pumps - Replace	\$0	\$0	\$0	\$0	\$0
835	Booster Pumps - Replace	\$0	\$0	\$0	\$0	\$0
840	Chlorine Pump/Analyzer - Replace	\$0	\$0	\$0	\$0	\$0
902	Well Pumps/Motors - Replace	\$0	\$0	\$0	\$0	\$0
910	Concrete Storage Tanks - Replace	\$0	\$0	\$0	\$0	\$0
911	Concrete Storage Tanks - Clean	\$0	\$0	\$0	\$0	\$0
930	Water Main Lines (Iron) - Replace	\$0	\$0	\$0	\$0	\$0
931	Water Main Lines (PVC) - Replace	\$0	\$0	\$0	\$0	\$0
940	Pressure Reducing Station - Replace	\$0	\$0	\$0	\$0	\$0
950	Fire Hydrants - Replace	\$0	\$0	\$0	\$0	\$0
960	Gas Generator - Replace	\$0	\$0	\$0	\$0	\$0
	Total Expenses	\$0	\$0	\$0	\$0	\$0
	Ending Reserve Balance:	\$300,924	\$383,241	\$473,981	\$573,957	\$684,059

Tabl	e 6: 30-Year Income/Expense	e Detail (yrs 5	through 9			27561-0
		0004	0000	0000	0004	0005
	Fiscal Year	2021	2022	2023	2024	2025
	Starting Reserve Balance	\$684,059	\$469,714	\$592,194	\$719,437	\$851,597
	Annual Reserve Contribution	\$113,760	\$117,173	\$120,688	\$124,308	\$128,038
	Recommended Special Assessments	\$0	\$0	\$0	\$0	\$0
	Interest Earnings	\$5,766	\$5,307	\$6,555	\$7,852	\$9,198
	Total Income	\$803,585	\$592,194	\$719,437	\$851,597	\$988,833
#	Component					
	Site / Grounds					
120	Apphalt Chipagal	\$242 449	¢0,	0.9	¢0,	02
120	Asphalt - Chipseal	¢۵ ¢۵	Φ0 Φ0	\$0 \$0	φ0 Φ0	\$U \$0
200	Fost and Kail Fence - Replace	መ መ	0¢ 02	0¢ 02	0¢ 02	\$0
200	Pood Signs (motal) Poplace	መ መ	0¢ 02	0¢ 02	0¢ 02	\$0
201	Mailbayas Baplaca	መ መ	0¢ 02	0¢ 02	0¢ 02	ΦΦ ΦΦ
205	Maibuxes - Replace	φυ	φυ	φυ	φυ	φυ
	Water System					
805	Pump Station Roof - Replace	\$0	\$0	\$0	\$0	\$0
820	System Controls - Replace	\$0	\$0	\$0	\$0	\$0
830	Pumps - Replace	\$0	\$0	\$0	\$0	\$0
835	Booster Pumps - Replace	\$0	\$0	\$0	\$0	\$0
840	Chlorine Pump/Analyzer - Replace	\$3,478	\$0	\$0	\$0	\$0
902	Well Pumps/Motors - Replace	\$81,149	\$0	\$0	\$0	\$0
910	Concrete Storage Tanks - Replace	\$0	\$0	\$0	\$0	\$0
911	Concrete Storage Tanks - Clean	\$5,796	\$0	\$0	\$0	\$0
930	Water Main Lines (Iron) - Replace	\$0	\$0	\$0	\$0	\$0
931	Water Main Lines (PVC) - Replace	\$0	\$0	\$0	\$0	\$0
940	Pressure Reducing Station - Replace	\$0	\$0	\$0	\$0	\$0
950	Fire Hydrants - Replace	\$0	\$0	\$0	\$0	\$0
960	Gas Generator - Replace	\$0	\$0	\$0	\$0	\$0
	Total Expenses	\$333,871	\$0	\$0	\$0	\$0
	Ending Reserve Balance:	\$469,714	\$592,194	\$719,437	\$851,597	\$988,833

Table 6: 30-Year Income/Expense Detail (vrs 10 through 14)	
rable of our real moone/Expense betan (gro ro through 14)	

27561-0

	Fiscal Year	2026	2027	2028	2029	2030
	Starting Reserve Balance	\$988,833	\$1,096,191	\$1,243,721	\$1,396,828	\$1,551,264
	Annual Reserve Contribution	\$131,879	\$135,835	\$139,910	\$144,108	\$148,431
	Recommended Special Assessments	\$0	\$0	\$0	\$0	\$0
	Interest Earnings	\$10,421	\$11,695	\$13,197	\$14,734	\$16,330
	Total Income	\$1,131,133	\$1,243,721	\$1,396,828	\$1,555,670	\$1,716,025
#	Component					
	Site / Grounds					
120	Asphalt - Chipseal	\$0	\$0	\$0	\$0	\$0
140	Post and Rail Fence - Replace	\$0	\$0	\$0	\$0	\$0
200	Entry Signs - Replace	\$0	\$0	\$0	\$4,406	\$0
201	Road Signs (metal) - Replace	\$10,751	\$0	\$0	\$0	\$0
205	Mailboxes - Replace	\$0	\$0	\$0	\$0	\$0
	Water System					
905	Dump Station Boof Bonloop	¢0,	¢0.	0.1	0.2	0.2
800	Fullip Station Rool - Replace	\$U	\$U \$0	φ0 Φ0	\$U \$0	φ0 Φ0
620 820	System Controls - Replace	\$U \$24,400	\$U	\$U	\$U \$0	\$U
030	Pumps - Replace	¢24,190	\$U	\$U	\$U \$0	\$U
030	Chloring Pumps - Replace	\$U \$0	\$U \$0	\$U ©	\$U \$0	\$U ©
840	Chiorine Pump/Analyzer - Replace	\$U \$0	\$U	\$U ©	\$U \$0	\$U ©
902	Concrete Starses Tarks, Deplace	\$U \$0	\$U	\$U ©	\$U \$0	\$U ©
910	Concrete Storage Tanks - Replace	\$U \$0	\$U \$0	\$U ©	\$U \$0	\$U \$0
911	Weter Mein Lines (Iren) - Denlage	\$U	\$U	\$U	\$U \$0	\$U \$0
930	Water Main Lines (Iron) - Replace	\$U \$0	\$U	\$U ©	\$U \$0	\$U \$0
931	Water Main Lines (PVC) - Replace	\$U	\$U	\$U	\$U	\$U
940	Pressure Reducing Station - Replace	\$0	\$0	\$0	\$0 \$0	\$0
950	Fire Hydrants - Replace	\$0	\$0	\$0	\$0	\$0 \$0
960	Gas Generator - Replace	\$0	\$0	\$0	\$0	\$0
	Total Expenses	\$34,942	\$0	\$0	\$4,406	\$0
	Ending Reserve Balance:	\$1,096,191	\$1,243,721	\$1,396,828	\$1,551,264	\$1,716,025

Tabl	e 6: 30-Year Income/Expens	e Detail (yrs 1	5 through	19)		27561-0
	Fiscal Year	2031	2032	2033	2034	2035
	Starting Reserve Balance	\$1,716,025	\$1,469,318	\$1,642,340	\$1.821.848	\$2,008,050
	Annual Reserve Contribution	\$152.884	\$157.470	\$162.194	\$167.060	\$172.072
	Recommended Special Assessments	\$0	\$0	\$0	\$0	\$0
	Interest Farnings	\$15,920	\$15.552	\$17,314	\$19,141	\$21,016
		\$1 884 828	\$1 642 340	\$1 821 848	\$2,008,050	\$2 201 138
		ψ1,004,020	ψ1,042,040	ψ1,021,040	φ2,000,000	ψ2,201,100
#	Component					
	Site / Grounds					
120	Asphalt - Chipseal	\$327,173	\$0	\$0	\$0	\$0
140	Post and Rail Fence - Replace	\$0	\$0	\$0	\$0	\$4,208
200	Entry Signs - Replace	\$0	\$0	\$0	\$0	\$0
201	Road Signs (metal) - Replace	\$0	\$0	\$0	\$0	\$0
205	Mailboxes - Replace	\$17,449	\$0	\$0	\$0	\$0
	Water System					
805	Pump Station Roof - Replace	\$0	\$0	\$0	\$0	\$0
820	System Controls - Replace	\$0	\$0	\$0	\$0	\$0
830	Pumps - Replace	\$0	\$0	\$0	\$0	\$0
835	Booster Pumps - Replace	\$0	\$0	\$0	\$0	\$0
840	Chlorine Pump/Analyzer - Replace	\$4,674	\$0	\$0	\$0	\$0
902	Well Pumps/Motors - Replace	\$0	\$0	\$0	\$0	\$0
910	Concrete Storage Tanks - Replace	\$0	\$0	\$0	\$0	\$0
911	Concrete Storage Tanks - Clean	\$7,790	\$0	\$0	\$0	\$0
930	Water Main Lines (Iron) - Replace	\$0	\$0	\$0	\$0	\$0
931	Water Main Lines (PVC) - Replace	\$0	\$0	\$0	\$0	\$0
940	Pressure Reducing Station - Replace	\$58,424	\$0	\$0	\$0	\$0
950	Fire Hydrants - Replace	\$0	\$0	\$0	\$0	\$0
960	Gas Generator - Replace	\$0	\$0	\$0	\$0	\$0
	Total Expenses	\$415,510	\$0	\$0	\$0	\$4,208
	Ending Reserve Balance:	\$1,469,318	\$1,642,340	\$1,821,848	\$2,008,050	\$2,196,929

Table 6: 30-Year Income/Expense Detail	(yrs 20 through 24)
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27561-0

	Fiscal Year	2037	2038	2039	2040	
	Starting Reserve Balance	\$2,196,929	\$2,142,998	\$2,347,995	\$2,560,555	\$2,780,919
	Annual Reserve Contribution	\$177,234	\$182,551	\$188,028	\$193,669	\$199,479
	Recommended Special Assessments	\$0	\$0	\$0	\$0	\$0
	Interest Earnings	\$21,690	\$22,445	\$24,532	\$26,696	\$28,939
	Total Income	\$2,395,854	\$2,347,995	\$2,560,555	\$2,780,919	\$3,009,337
#	Component					
	Site / Grounds					
120	Asphalt - Chipseal	\$0	\$0	\$0	\$0	\$0
140	Post and Rail Fence - Replace	\$0	\$0	\$0	\$0	\$0
200	Entry Signs - Replace	\$0	\$0	\$0	\$0	\$0
201	Road Signs (metal) - Replace	\$0	\$0	\$0	\$0	\$0
205	Mailboxes - Replace	\$0	\$0	\$0	\$0	\$0
(r						
	Water System					
805	Pump Station Pool	¢0	¢0	¢0	¢0	¢0
800	Sustem Controls - Replace	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
020	Bumpa Banlaga	Φ 0	\$U \$0	\$U \$0	φ0 Φ0	Φ 0
030	Pointps - Replace	⊕ 406 409	\$U \$0	\$U \$0	φ0 Φ0	Φ 0
030	Chloring Rump/Anglyzor Replace	φ120,420 ¢0	\$U \$0	\$U \$0	φ0 Φ0	Φ 0
040	Well Rumps/Meters Replace	⊕ 406 409	\$U \$0	\$U \$0	φ0 Φ0	Φ 0
902	Concrete Storage Tanka, Bonloop	φ120,420 ¢0	\$U \$0	\$U \$0	φ0 Φ0	\$U \$0
910	Concrete Storage Tanks - Replace	\$U \$0	\$U \$0	\$U \$0	\$U \$0	\$U \$0
030	Water Main Lines (Iron) Poplace	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
930	Water Main Lines (IIVC) – Replace	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
040	Pressure Reducing Station - Replace	0¢ 02	0¢ \$0	\$0 \$0	0¢ 02	\$0 \$0
940	Fire Hydrante - Poplace	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
950	Cas Concreter Replace	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
900		Φ <u></u> Φ <u></u> <u></u> Φ <u></u> <u></u> Φ <u></u> <u></u> Φ <u></u> <u></u> Φ <u></u> <u></u> <u></u> Φ <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u>	φ <u>0</u>	\$U	Φ 0	\$U
	I Utal Expenses	¢∠0∠,656	\$0	\$0	\$0	\$0
	Ending Reserve Balance:	\$2,142,998	\$2,347,995	\$2,560,555	\$2,780,919	\$3,009,337

Tabl	e 6: 30-Year Income/Expens	e Detail (yrs 2	5 through	29)		27561-0
	Fiscal Year	2041	2042	2043	2044	2045
	Starting Reserve Balance	\$3,009,337	\$2,554,803	\$2,793,158	\$3,040,288	\$3,296,474
	Annual Reserve Contribution	\$205,463	\$211,627	\$217,976	\$224,515	\$231,250
	Recommended Special Assessments	\$0	\$0	\$0	\$0	\$0
	Interest Earnings	\$27,809	\$26,728	\$29,155	\$31,670	\$34,278
	Total Income	\$3,242,609	\$2,793,158	\$3,040,288	\$3,296,474	\$3,562,002
#	Component					
	Site / Grounds					
120	Asphalt - Chinseal	\$439 693	\$0	\$0	\$0	\$0
140	Post and Bail Fence - Replace	¢-00,000 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0
200	Entry Signs - Replace	\$0	\$0 \$0	\$0	\$0	\$0
201	Road Signs (metal) - Replace	\$0	\$0	\$0	\$0	\$0
205	Mailboxes - Replace	\$0	\$0	\$0	\$0	\$0
r						
	Water System					
005	During Olation Dest(Destant	^	# 0	* 0	¢0	* ~
805	Pump Station Roof - Replace	\$U	\$U \$0	\$U	\$U ©	\$U \$0
020	System Controls - Replace	\$193,074	\$U \$0	\$U	\$U \$0	\$U \$0
835	Rooster Pumps - Replace	φ37,000 Φ2	0€ 02	\$0 \$0	\$0 \$0	\$0 \$0
840	Chlorine Pump/Analyzer - Replace	ΨC \$6 281	0¢ 02	0¢ 02	0¢ \$0	\$0 \$0
902	Well Pumps/Motors - Replace	\$0,201 \$0	\$0 \$0	\$0 \$0	\$0 \$0	ΦΦ \$0
910	Concrete Storage Tanks - Replace	\$0 \$0	\$0 \$0	\$0	\$0	\$0
911	Concrete Storage Tanks - Clean	\$10.469	\$0 \$0	\$0 \$0	\$0	\$0
930	Water Main Lines (Iron) - Replace	\$0	\$0	\$0	\$0	\$0
931	Water Main Lines (PVC) - Replace	\$0	\$0	\$0	\$0	\$0
940	Pressure Reducing Station - Replace	\$0	\$0	\$0	\$0	\$0
950	Fire Hydrants - Replace	\$0	\$0	\$0	\$0	\$0
960	Gas Generator - Replace	\$0	\$0	\$0	\$0	\$0
	Total Expenses	\$687,806	\$0	\$0	\$0	\$0
	Ending Reserve Balance:	\$2,554,803	\$2,793,158	\$3,040,288	\$3,296,474	\$3,562,002

Accuracy, Limitations, and Disclosures

Washington disclosure, per RCW:

The 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 you to pay on demand as a special assessment your share of common expenses for the cost of major maintenance, repair or replacement of a reserve component.

Because we have no control over future events, we do not expect that all the events we anticipate will occur as planned. We expect that inflationary trends will continue, and we expect Reserve funds to continue to earn interest, so we believe that reasonable estimates for these figures are much more accurate than ignoring these economic realities. We <u>can</u> control measurements, which we attempt to establish within 5% accuracy through a combination of on-site measurements, drawings, and satellite imagery. The starting Reserve Balance and interest rate earned on deposited Reserve funds that you provided to us were considered reliable and were not confirmed independently. We have considered the association's representation of current and historical Reserve projects reliable, and we have considered the representations made by its vendors and suppliers to also be accurate and reliable. Component Useful Life, Remaining Useful Life, and Current Cost estimates assume a stable economic environment and lack of natural disasters.

Because the physical condition of your components, the association's Reserve balance, the economic environment, and legislative environment change each year, this Reserve Study is by nature a "one-year" document. Because a long-term perspective improves the accuracy of near-term planning, this Report projects expenses for the next 30 years. It is our recommendation and that of the Financial Accounting Standards Board (FASB) that your Reserve Study be updated each year as part of the annual budget process.

Association Reserves WA, LLC and its employees have no ownership, management, or other business relationships with the client other than this Reserve Study engagement. James D. Talaga R.S., company president, is a credentialed Reserve Specialist (#66). All work done by Association Reserves WA, LLC is performed under his Responsible Charge. There are no material issues to our knowledge that have not been disclosed to the client that would cause a distortion of the association's situation.

Component quantities indicated in this Report were developed by Association Reserves unless otherwise noted in our "Site Inspection Notes" comments. No destructive or intrusive testing was performed. This Report and this site inspection were accomplished <u>only</u> for Reserve budget purposes (to help identify and address the normal deterioration of properly built and installed components with predictable life expectancies). The Funding Plan in this Report was developed using the cash-flow methodology to achieve the specified Funding Objective.

Association Reserves' liability in any matter involving this Reserve Study is limited to our Fee for services rendered.

Terms and Definitions

- **BTU** British Thermal Unit (a standard unit of energy)
- DIA Diameter

GSF Gross Square Feet (area). Equivalent to Square Feet

- **GSY** Gross Square Yards (area). Equivalent to Square Yards
- HP Horsepower
- LF Linear Feet (length)
- **Effective Age**: The difference between Useful Life and Remaining Useful Life. Note that this is not necessarily equivalent to the chronological age of the component.
- **Fully Funded Balance (FFB)**: The value of the deterioration of the Reserve Components. This is the fraction of life "used up" of each component multiplied by its estimated Current Replacement. While calculated for each component, it is summed together for an association total.

FFB = (Current Cost X Effective Age) / Useful Life

- Inflation: Cost factors are adjusted for inflation at the rate defined in the Executive Summary and compounded annually. These increasing costs can be seen as you follow the recurring cycles of a component on Table 6.
- Interest: Interest earnings on Reserve Funds are calculated using the average balance for the year (taking into account income and expenses through the year) and compounded monthly using the rate defined in the Executive Summary. Annual interest earning assumption appears in the Executive Summary.
- **Percent Funded**: The ratio, at a particular point in time (the first day of the Fiscal Year), of the actual (or projected) Reserve Balance to the Fully Funded Balance, expressed as a percentage.
- **Remaining Useful Life (RUL)**: The estimated time, in years, that a common area component can be expected to continue to serve its intended function.
- **Useful Life (UL)**: The estimated time, in years, that a common area component can be expected to serve its intended function.

Component Details

The primary purpose of the photographic appendix is to provide the reader with the basis of our funding assumptions resulting from our physical analysis and subsequent research. The photographs herein represent a wide range of elements that were observed and measured against National Reserve Study Standards to determine if they meet the criteria for reserve funding.

- 1) Common area maintenance repair & replacement responsibility
- 2) Components must have a limited life
- 3) Life limit must be predictable
- 4) Above a minimum threshold cost (board's discretion typically 1/2 to 1% of annual operating expenses).

Some components are recommended for reserve funding, while others are not. The components that meet these criteria in our judgment are shown with corresponding maintenance, repair or replacement cycles to the left of the photo (UL = Useful Life or how often the project is expected to occur, RUL = Remaining Useful Life or how many years from our reporting period) and a representative market cost range termed "Best Cost" and "Worst Cost" below the photo. There are many factors that can result in a wide variety of potential costs, we are attempting to represent a market average for budget purposes. Where there is no UL, the component is expected to be a one-time expense. Where no pricing, the component deemed inappropriate for Reserve Funding.

Client: 27561A Sun Country Maintenance Association

Comp # :	: 106 Gravel Areas - Refurbish	Quantity: ~ 9,000 Sq Ft
Location :	: Adjacent to pump house, Volunteer Park and roads to wat	er towers
Funded? :	No Annual costs, best handled in operational budget	
History :	: No history reported	
Evaluation :	: Fair coverage observed with no significant depressions or	drainage issues apparent.
	This component represents gravel adjacent to pump static our understanding that gravel roadway off Hermitage Drive	on, Volunteer Park and roads to water towers only. It is a adjacent to golf course is maintained by the developer.
	Review these areas each year and replenish as necessar expectation for large scale projects meeting the criteria for	y with general maintenance funds. No predictable r reserve funding.
Use	eful Life:	
Remaini	ning Life:	
Best C	Case:	Worst Case:

Best Case:

Cost Source: Does not meet NRSS criteria for reserve funding

Client: 27561A Sun Country Maintenance Association

Comp # : 120	Asphalt - Chipseal

Quantity: ~ 386,000 Sq Ft

Location : Roadways throughout association

Useful Life: 10 years

5 years

Remaining Life:

Funded? : Yes

History : Asphalt was reportedly chipsealed in 2011 at a cost of \$180,000

Evaluation : Overall fair condition noted with random areas of cracking, but no significant deterioration observed. We were informed that when the chipseal was completed in November of 2011, there were areas where the rocks did not set properly. At this time, there are no reported problems; if issues arise at these areas before the next chipseal cycle, repair funding can be added to reserve study update.

Asphalt chipseal is an application of asphalt binder on existing pavement followed by a layer of aggregate chips. The treatment is then rolled to embed the aggregate into the binder to create new non-structural wearing course. If not maintained proactively, at some point repaying may be necessary.

Best to plan for regular cycles of chipseal at roughly the time frame indicated below. As timing draws nearer, consult with asphalt vendor/consultant for recommendations and complete scope.

As routine maintenance, keep roadway clean, free of debris and well drained; fill/seal cracks (hot rubberized crack fill) to prevent water from penetrating into the sub-base and accelerating damage.



Best Case: \$200,000 Lower allowance to chipseal Worst Case: \$220,000 Higher allowance to chipseal Cost Source: Client Cost History, Adjusted for Inflation

Client: 27561A Sun Country Maintenance Association

Comp #: 140Post and Rail Fence - ReplaceQuantity: ~ 150 Lin FtLocation : Volunteer Park and River Front ParkFunded? : Yes

History : Reportedly installed in 2015

Evaluation : Post and rail fencing appeared in good, stable condition. This component represents fencing at Volunteer Park and River Front Park only. It is our understanding that fencing adjacent to gravel roadway off Hermitage Drive is maintained by the developer.

Plan for eventual replacement at roughly the time frame indicated below.

Assumed that this will not be sealed and left to weather/age naturally. Avoid contact with surrounding vegetation if possible. Repair in between replacement cycles as needed from operating budget.



Best Case: \$2,100 Worst Case: \$2,700 \$14/Lin Ft, Lower allowance to replace \$18/Lin Ft, Higher allowance to replace Cost Source: ARI Cost Database: Similar Project Cost History

Useful Life: 20 years

Remaining Life: 19 years

Client: 27561A Sun Country Maintenance Association

Comp # :	157	Retention Walls - Repair/Replace
Location :	Adjacent ⁻	to St. Andrews Drive and the pump station

Quantity: ~ 260 Lin Ft

Funded? : No Useful life not predictable, repair/replace as needed out of operating budget

- History : No history reported
- Evaluation : Our limited observation revealed no signs of the concrete retaining walls being out of plumb or having large scale cracking and spalling. Analysis of a retaining wall is beyond the scope of a reserve study. If problems, including shifting, leaning, or cracking are observed or suspected, consult with an engineer (structural, civil, and/or geotechnical) for evaluation and repair recommendations. No reported problems at this time.

At this time, no large scale repairs or replacements are predictable. Funding can be added to future reserve studies if conditions dictate.

No information was provided to us concerning how the retaining wall was designed or constructed. Observation of drainage was not possible. Proper drainage on the uphill side prevents a backlog of water (water, if present, can add substantial weight and pressure to the wall). A backlog of water, if left unchecked, could damage or break the wall. Interior of drainage lines (or pipes) can be viewed by video using a remote miniature camera. Clean out the drain lines as often as needed to prevent decreased drainage. See component #182 Drainage/Stormwater Sys for additional information. Utilize mobile evacuator service if needed. Inspect regularly and repair as needed using operating budget.

Useful Life:

Remaining Life:



Best Case:

Worst Case:

Cost Source: Does not meet NRSS criteria for reserve funding

Client: 27561A Sun Country Maintenance Association

•								
Comp # : Location : Funded? :	: 170Landscape - RefurbishQuantity:: Common area open spaces throughout community: No Annual costs, best handled in operational budget	Common area landscaping						
History :	listory: Regular maintenance reported							
Evaluation :	: Currently, landscaping is funded out of operational budget. The As included for future refurbish projects.	ssociation did not request an allowance be						
	This component can be used to supplement the operation landsca frequently and are not included within the maintenance contract. T major replanting, bark or mulch replacements, turf renovations, etc	pe budget for larger projects that occur less hese types of projects can include: tree trimming, c						
	Walk area each year with landscape contractor and perhaps lands and future needs of maintenance/refurbishment to determine if sup for.	scape architect to assess overall health, function pplemental reserve funding should be planned						
Use	seful Life:							
Remaini	ning Life:							
Best C	Case: Wo	orst Case:						
	Cost Source: Does not meet NRSS criteria for	reserve funding						

Client: 27561A Sun Country Maintenance Association

Comp # :	175 Irrigation System - Repair/Replace	
Location :	Throughout common area landscaping	
Funded? :	No Annual costs, best handled in operational budget	t

Quantity: Common irrigation

History : No history reported

Evaluation : Our visual observation of the irrigation system was limited as the majority of system components are below grade. No reports of repairs or problems. At the time of this study, no information (plans and/or specifications) was provided to us regarding the extent of the irrigation system.

No predictable large scale costs at this time. The Association did not request an allowance be included for future reserve projects.

As routine maintenance, inspect, test, and repair system as needed from operating budget. Follow proper winterization and spring startup procedures. If properly installed and bedded without defect, the lines could last for many years. Controls for the system can vary greatly in number, cost, and life expectancy. Without additional information, these costs are not predictable. Other elements (i.e. sprinkler heads, valves) within this system are generally lower cost and have a failure rate that is difficult to predict. These elements are better suited to be handled through the maintenance and operating budget, not reserves.



Best Case:

Useful Life:

Remaining Life:

Cost Source: Does not meet NRSS criteria for reserve funding

Client: 27561A Sun Country Maintenance Association

Comp #: 182 Drainage/Stormwater Sys - Maintain

Quantity: Common drainage

Location : Common areas, hidden

Funded? : No Useful life not predictable, repair/replace as needed out of operating budget

- History : No history reported
- Evaluation : Analysis of the drainage system is beyond the scope of a reserve study as the vast majority of the drainage systems are located below ground. Observations were very limited to catch basin areas. No problems were reported to us.

No predictable large scale repairs/replacement at this time. Local repairs should be performed as part of general maintenance. If problems become known from professional evaluation, funding can be included in future reserve studies.

As routine maintenance, inspect regularly and keep drains/grates free of debris to ensure water drains as intended. Maintenance schedules on stormwater systems depend on the condition of the system itself and the amount of sediment and debris moving around on site. Stormwater inspections usually consist of inspecting the catch basins and manholes, ensuring vaults and control structures are properly functioning. Evaluation of drainage can include the visual review of interior drain lines by use of miniature remote camera. Clean out drain lines and basins as often as needed in order to prevent decreased drainage capacity. Repair as needed.



Remaining Life:



Best Case:

Worst Case:

Cost Source: Does not meet NRSS criteria for reserve funding

Client: 27561A Sun Country Maintenance Association

Comp # : 190 Trees - Trim/Remove

Quantity: Numerous, assorted

Location : Throughout common areas Funded? : No Annual costs, best handled in operational budget

History : Recent hillside tree maintenance reported

Evaluation : Ongoing maintenance and consultation with arborist reported.

This component may be utilized for larger tree trimming/removal projects which do not occur on an annual basis. We were informed by Board contact that the Association is currently funding for tree maintenance out of the operational budget. Tree trimming/removal expenses can be incorporated into future reserve study updates at the discretion of the Board.



Remaining Life:



Best Case:

Worst Case:

Cost Source: Does not meet NRSS criteria for reserve funding

Comp # : 200 Entry Signs - Replace

Quantity: (3) wood signs

Location : Entry locations Funded? : Yes

History : Reportedly installed around 2009

Evaluation : Entry signs appeared in generally fair condition, with some minor deterioration of the wood structure (base of posts), but no significant damage observed.

Best to plan for regular cycles of replacement due to typical deterioration that will result from constant exposure to the elements.

Inspect regularly, clean, stain wood and touch-up signs as needed for appearance and extended useful life.



 Best Case: \$2,400
 Worst Case: \$3,600

 \$800/each (x3), Lower allowance to replace
 \$1,200/each (x3), Higher allowance to replace

 Cost Source: ARI Cost Database: Similar Project Cost History

Useful Life: 20 years

Remaining Life: 13 years

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Associa	tion Res	erves Washington,	LLC	Component Details
Client:	27561A	Sun Country Mainte	nance Associatio	n
Comp # : Location : Funded? : History : Evaluation	201 Re Adjacent to r Yes No history re The majority	oad Signs (metal) - Replace oadways/intersections throughou ported of signage appears to be in fair o	Quantity: ~ (8 t community condition.	0) metal signs
	Individual re merit reserve	placement of these types of signs e funding. Plan for eventual replace	are a smaller cost item, b cement at roughly the time	ut collectively will be a significant cost and frame indicated below.
	Inspect regu	larly, clean for appearance and re	epair as needed.	
Use 2 Remain	eful Life: 20 years ning Life: 10 years	SPEED 15		
Best (Case: \$6,400		Worst Ca	ase: \$9,600
\$80/e	each (x80), Lov	ver allowance to replace Cost Source: ARI Cost Da	\$120/ead atabase: Similar Project Co	ch (x80), Higher allowance to replace ost History
Comp # : Location : Funded? : History : Evaluation	202 Re Scattered the No Cost pro No history re The majority	bad Signs (wood) - Replace roughout community jected to be too small for reserve eported of wood signage/posts appeared	Quantity: ~ (1 funding to be in fair condition.	6) wood signs
	Small total q reserve fund	uantity and replacement costs typing. Anticipate repairs/replaceme	bically not at reserve fundin nts as needed as part of a	ng threshold therefore not suitable for nnual operating budget.
	Inspect, clea	n for appearance and stain/paint	as needed.	

Useful Life:

Remaining Life:

ROAD DEADEND SPEEDISMP Worst Case:

Best Case:

Cost Source: Does not meet NRSS criteria for reserve funding

Client: 27561A Sun Country Maintenance Association

Comp # : 205	Mailboxes - Replace	Quantity: (8) cluster stands
Location : Inte	rsections of Augusta Blvd/Pebble Beach D	Dr and Hermitage Dr/Golf Course Rd
Funded? : Yes		

History : Reportedly installed around 2011

Evaluation : Generally fair condition of cluster stands/boxes with no functional problems reported.

Best to plan for eventual replacement at roughly the time frame indicated below due to constant exposure, usage and wear over time. Note: USPS has a limited budget for replacement and should not be relied upon for purposes of long term planning.

Inspect regularly, clean by wiping down for appearance, change lock cylinders, lubricate hinges and repair as needed from operating budget.

Useful Life: 20 years

Remaining Life: 15 years



Best Case: \$9,600 \$1,200/cluster stand (x8), Lower allowance to replace Worst Case: \$12,800 \$1,600/cluster stand (x8), Higher allowance to replace

Cost Source: ARI Cost Database: Similar Project Cost History

Client: 27561A Sun Country Maintenance Association

Comp #: 210 Guardrail - Repair/Replace Location : Adjacent to St. Andrews Drive Quantity: ~ 1,060 Lin Ft

Funded? : No Useful life not predictable, repair/replace as needed out of operating budget

History : No history reported

Evaluation : Generally good, stable condition, no significant rust or corrosion evident.

Long lasting materials, no predictable timeframe for replacement at this time, therefore, no reserve funding suggested.

Inspect regularly, clean and repair as needed from operating budget.

Useful Life:

Remaining Life:



Best Case:

Worst Case:

Cost Source: Does not meet NRSS criteria for reserve funding

Comp #: 346 Benches/Tables - Replace Quantity: ~ (6) assorted pieces

Location : Volunteer Park and Riverfront Park

Funded? : No Cost projected to be too small for reserves; replace as needed out of operating budget

History : No history reported

Evaluation : Various types of tables and benches noted (wood/concrete). Although some wood surfaces are weathered, we observed no significant damage or instability.

Smaller cost item that can be replaced on an as needed basis, funded through the operating budget. No reserve funding required.

Inspect regularly, clean for appearance, apply wood sealer where appropriate and repair as needed.

Useful Life:

Remaining Life:



Best Case:

Worst Case: Cost Source: Does not meet NRSS criteria for reserve funding

Client: 27561A Sun Country Maintenance Association

	210011	Cour Courtary	Maintonanoo	10000141011			
Comp # : Location :	800 Exterior pu	Pump Station Siding - ump station walls: concr	• Replace ete block	Quantity: ~ 1,300 Sq Ft			
Funded? :	No Useful	l life not predictable, rep	air/replace as needed	out of operating budget			
History :	Reportedly	y built in 2011					
Evaluation :	Majority of below gab	Majority of pump station siding is CMU (Concrete Masonry Unit) block wall with a small amount of metal siding below gable ends, no significant damage or deterioration noted.					
	This type of there is no need beco	of siding (concrete and o predictable basis for la omes apparent, funding	metal) can last for an e rge scale repair or con can be incorporated in	xtended period and with ordin oplete replacement expenses to future reserve study updat	hary care and maintenance, that would impact reserves. If es.		
	As part of of deterior	general maintenance/o ation emerge, consult w	perating funding, inspe vith appropriate profess	ct regularly, clean as needed ional for repair scope.	. Monitor closely and if areas		
		1000	A CONTRACTOR OF				



Useful Life:

Remaining Life:

Best Case:

Worst Case: Cost Source: Does not meet NRSS criteria for reserve funding

Client: 27561A Sun Country Maintenance Association

Comp #: 805Pump Station Roof - ReplaceQuantity: ~ 1,200 Sq FtLocation : Rooftop of pump stationFunded? : Yes

History : Reportedly installed in 2011

Evaluation : Metal standing seam roofing appeared to be functioning properly, no problems reported.

Although these metal panels can last for an extended period of time, the system will eventual wear out and require replacement. A 40-year useful life is factored below for financial planning purposes.

As routine maintenance, we recommend professional inspections at least twice annually and after windstorms. Promptly replace any damaged panels or any other repair needed to ensure waterproof integrity of roof.



 Best Case: \$12,000
 Worst Case: \$14,400

 \$10.00/Sq Ft, Lower allowance to replace
 \$12.00/Sq Ft, Higher allowance to replace

 Cost Source: ARI Cost Database: Similar Project Cost History

40 years

Useful Life:

Remaining Life: 35 years

Client: 27561A Sun Country Maintenance Association

 Comp #: 810
 Pump Station Doors - Replace
 Quantity: (4) metal doors

 Location : Pump station exterior walls
 Description
 Description

Funded? : No Useful life not predictable, repair/replace as needed out of operating budget

History : Reportedly installed in 2011

Evaluation : Exterior doors appeared in good condition, no significant damage observed.

There is no predictable expectation of large scale repair or replacement of exterior doors, therefore, reserve funding is not required at this time.

Inspect periodically and repair as needed to maintain appearance, security and operation. Paint as needed from operating/maintenance, no need for separate funding.



Best Case:

Useful Life:

Remaining Life:

Worst Case:

Cost Source: Does not meet NRSS criteria for reserve funding

Comp #: 820 System Controls - Replace Location : Pump station interior Quantity: (1) control system

Funded? : Yes

History : Installed in 2011

Evaluation : Master control panel is reportedly functioning as designed, no problems reported.

Although designed for extended use, eventual replacement is deemed necessary due to system upgrades and technological advances. This component factors in future cycles of replacement based on rough estimated cost provided by system designer Pump Tech, Inc.

Useful Life: 30 years

Remaining Life: 25 years



Best Case: \$85,000 Lower allowance to replace

Worst Case: \$100,000 Higher allowance to replace Cost Source: Research with Pump Tech, Inc. (425) 644-8501

Client: 27561A Sun Country Maintenance Association

Comp # : 825 Transformers - Replace

Quantity: (2) 480 Volt

Location : Pump station interior

Funded? : No Useful life not predictable, repair/replace as needed out of operating budget

History : Installed in 2011

Evaluation : Assumed to be performing as designed, no problems reported.

These types of transformers, especially when not exposed to outside elements, have an extended life expectancy. Based on expected long life and lower cost (~ \$2,000/each), reserve funding is not recommended for this component.

Useful Life:

Remaining Life:



Best Case:

Worst Case:

Quantity: (3) 5hp Grundfos pumps

Cost Source: Does not meet NRSS criteria for reserve funding

Comp #: 830 Pumps - Replace

Location : Pump station interior Funded? : Yes

History : Installed in 2011

Evaluation : Main pressure pumps are reportedly functioning as designed.

These pumps will eventually wear out and require regular cycles of replacement at roughly the time frame indicated below. Monitor closely and adjust as needed in future reserve study updates.

Useful Life: 15 years

Remaining Life: 10 years



 Best Case: \$15,000
 Worst Case: \$21,000

 \$5,000/each (x3), Lower allowance to replace
 \$7,000/each (x3), Higher allowance to replace

 Cost Source: Research with Pump Tech, Inc. (425) 644-8501

Client: 27561A Sun Country Maintenance Association

Comp #: 835 Booster Pumps - Replace

Quantity: (4) 25hp Grundfos pumps

Location : Pump station interior Funded? : Yes

History : Installed in 2011

Evaluation : Booster pumps are reportedly functioning as designed.

These heavy demand pumps are seldom in use and are reportedly only needed under high demand situations. Useful life shown below is based on lower expected usage.

Useful Life: 25 years

Remaining Life: 20 years



Best Case: \$60,000

\$15,000/each (x4), Lower allowance to replace \$20,000/each (x4), Cost Source: Research with Pump Tech, Inc. (425) 644-8501

Worst Case: \$80,000

Quantity: Pump, sensor, monitors

\$20,000/each (x4), Higher allowance to replace

 Comp #:
 840
 Chlorine Pump/Analyzer - Replace

 Location :
 Pump station interior

Funded? : Yes

History : Installed in 2011

Evaluation : Chlorine system is reportedly in good operating condition.

This component factors in cyclical funding for replacement of the chemical injection analyzer and dosing pump.

Useful Life: 10 years

Remaining Life: 5 years



 Best Case: \$2,500
 Worst Case: \$3,500

 Lower allowance to replace
 Higher allowance to replace

 Cost Source: ARI Cost Database: Similar Project Cost History

Client: 27561A Sun Country Maintenance Association

Comp #:850Water System Components - ReplaceLocation :Pump station interior

Quantity: Assorted system parts

Funded? : No Useful life not predictable, repair/replace as needed out of operating budget

- History : Installed in 2011
- Evaluation : Although there was some condensation and corrosion on metal pipes, we were informed that condensation is common in this type of environment, inside a temperature controlled building with cold water running through the system.

Miscellaneous water system components can consist of, but are not limited to, piping, valves, gauges, meters, etc... These ancillary water system components will need replacement from time to time but are expected to individually be below the reserve funding threshold cost and therefore should be expensed as general maintenance from within the operating budget. No basis for reserve funding at this time.

Pipes can be regularly cleaned and re-coated to help prevent corrosion and extend life; funded as general operating/maintenance expense.



Best Case:

Useful Life:

Remaining Life:

Cost Source: Does not meet NRSS criteria for reserve funding

Client 27561A Sun Country Maintenance Association

-1101111111111111111111111111111111111	A Sun Country Mainte	Hance Association	
Comp # : 901 Location : Scattered	Wells - Repair/Replace throughout community	Quantity: (4) wells	
Funded? . No Usen		as needed out of operating budget	
	y reported		
Evaluation : Exact age table is c further in update.	e unknown, assumed most wells we urrently down approximately 10 feet vestigation, need becomes apparen	e placed into service in the 1990's. We were informed that the w and the main well may need to be drilled another 30 feet. If after to re-drill main well, funding may be added to future reserve stu	idy
Currently our repor there is ir funding a	there is no predictable expectation t. Continue to monitor as community idication that repair/re-drilling of exist t this time.	to replace existing wells or drill new wells within the 3-year scop ages, and incorporate funding within future reserve study updat ting wells or a new well will be necessary. No basis for reserve	e of es if
Useful Life:			
Remaining Life:			
Best Case:		Worst Case:	
	Cost Source: Does not m	eet NRSS criteria for reserve funding	
Comp #: 902	Well Pumps/Motors - Replace	Quantity: (4) submersible pumps	

Location : Interior of each well

Funded? : Yes

History : No history reported

Evaluation : Well pumps are reported to be in functional condition, actual age unknown.

Service life for these types of pumps is typically in the 10-15 year range. Plan for regular cycles of replacement at roughly the time frame indicated below.

Useful Life: 15 years

Remaining Life: 5 years



Best Case: \$60,000 \$15,000/each (x4), Lower allowance to replace Worst Case: \$80,000

\$20,000/each (x4), Higher allowance to replace

Cost Source: Research with Pump Tech, Inc. (425) 644-8501

Client: 27561A Sun Country Maintenance Association

	Comp # : 9	910	Concrete Stora	ge Tanks -	Replace	Quantit	y: (1) 158k ga	al (1) 100k g	jal
	Location : 1	Northwest	corner of proper	y					
	Funded?: `	Yes							
	History : I	Main tank	reportedly install	ed in 2011,	secondary	tank reportedly	v installed aro	und early to	mid 2000's
_									

Evaluation : Although there was some minor cracking and areas of efflorescence at above ground concrete tanks, no significant damage or leaks were observed. Tanks had visible metal ladders and overflow pipes; we had no direct access to top or interior of tanks.

Research indicates planning for a typical service life of between 50-60 years for replacement of concrete tanks. Continue to monitor closely and have qualified engineer evaluate when remaining useful life draws close to five years or if significant cracking / spalling, leaking become prevalent.

We were informed that the interior of the concrete tanks have no liners. At some point, lining of the tanks may become necessary. If need becomes apparent to line tanks, funding may be added to reserve study update.

As routine maintenance, inspect regularly and repair/replace tank accessories (ladders, hatch, piping, etc.) as needed through operating/maintenance. Water storage tanks should also have regular cycles of inspection and cleaning, see next component #915.



Best Case: \$300,000

Useful Life: 60 years

Remaining Life: 55 years

Worst Case: \$360,000

\$1.15/gallon, Lower allowance to replace both tanks Cost Source: ARI Cost Database: Mt. Baker Silo

Association R	Reserves Washington, LLC	Component Details
Client: 27561	A Sun Country Maintenan	ce Association
Comp # : 911 Location : Northwe Funded? : Yes History : No clear Evaluation : Concrete	Concrete Storage Tanks - Clean st corner of property ning history reported e water storage tanks need to be cleaned o	Quantity: (1) 158k gal (1) 100k gal n a regular basis.
Best to p below.	blan for regular cycles of tank cleaning per t	ank manufacturer recommendation at the time frame indicated
Useful Life: 10 years Remaining Life: 5 years		
Best Case: \$4,	000	Worst Case: \$6,000
Lower allowand	ce to clean	Higher allowance to clean
	Cost Source: ARI Cost Databas	e: Similar Project Cost History
Comp #: 930 Location : Partial m Funded? : Yes History : Reporter Evaluation : We were	Water Main Lines (Iron) - Replace nain lines running down slope dly installed in 2011 e informed that a portion of water mains run	Quantity: ~ 402 Lin Ft ning down the steeper slope are 8" Ductile Iron pipe.
Although replacen	n iron pipes are long lasting, they will deterion nent at roughly the time frame indicated be	orate and require replacement. Best to plan for eventual ow.
Useful Life: 75 years Remaining Life: 70 years	CLE L'ENT	

Best Case: \$32,000 Worst Case: \$48,000 \$80/Lin Ft, Lower allowance to replace \$120/Lin Ft, Higher allowance to replace Cost Source: ARI Cost Database: Similar Project Cost History

Client: 27561A Sun Country Maintenance Association

Comp # : 931 Water Main Lines (PVC)	- Replace Quantity: ~ 14,542 Lin Ft
Location : Water distribution throughout comm	unity: mains, service connections, meters, etc
Funded?: Yes	
History : Reportedly installed in 2011	
Evaluation : We were informed that the majority Lin Ft of 2" PVC. There is also 402	of the water main lines consist of 12,681 Lin Ft of 8" PVC with another 1,861 Lin Ft of 8" Ductile Iron pipe (see next component #931).
Best to plan for eventual total replace includes: professional specification	cement at roughly the time frame indicated below. Allowances shown below and oversight, road repair, service connections, water meters, etc
Useful Life: 60 years	
Remaining Life: 55 years	
Best Case: \$1,200,000	Worst Case: \$1,800,000
\$80/Lin Ft, Lower allowance to replace ma connections, meters, etc	ins, service \$120/Lin Ft, Higher allowance to replace mains, service connections, meters, etc
Cost Source: Al	RI Cost Database: Similar Project Cost History

lient: 27561A Sun Country Maintenance Association
Comp #: 940 Pressure Reducing Station - Replace Quantity: (1) station Location : Vault at bottom of hill Pressure Reducing Station - Replace Quantity: (1) station Funded?: Yes Yes Yes Yes History: Installed in 2011 Yes Yes valuation: We were informed by Chad Allen at Encompass Engineering that there was a Pressure Reducing Station installed in a vault at the bottom of the hill. Yes
We have factored in a replacement allowance and useful life based on information provided by Encompass Engineering as shown below.
Inspect regularly and repair as needed through operating/maintenance budget.
Useful Life: 20 years Remaining Life: 15 years
Best Case: \$35,000 Worst Case: \$40,000
Lower allowance to replace Higher allowance to replace
Cost Source: Research with Chad Allen at Encompass Engineering
Comp #: 950 Fire Hydrants - Replace Quantity: ~ (26) hydrants _ocation : Adjacent to roadways throughout community Print (20) Funded?: Yes Yes History: Reportedly installed in 2011 valuation: Functional condition assumed, no problems reported.
Although long lasting, eventual replacement will be needed based on typical deterioration. Cyclical replacement of hydrants is factored below, timed to coincide with main line replacement for cost efficiency.

Useful Life: 60 years

Remaining Life: 55 years



 Best Case: \$104,000
 Worst Case: \$156,000

 \$4,000/each (x26), Lower allowance to replace
 \$6,000/each (x26), Higher allowance to replace

 Cost Source: ARI Cost Database: Similar Project Cost History

Client:	27561/	A Sun Country Maint	tenance Association
Comp # : Location : Funded? :	960 Adjancet t Yes	Gas Generator - Replace o pump station	Quantity: (1) Kohler Power Systems
History :	Reported	y installed in 2011	
Evaluation :	Kohler Po	wer Systems 150 generator is rep	ported to be in functional condition.
	Best to pla	an for regular cycles of replaceme	ent at roughly the 40-year mark of life as indicated below.
	Generator should be	should be exercised regularly wi factored in operating budget.	th periodic inspections. Routine maintenance and incidental expenses
Use	eful Life: 40 years		

Remaining Life: 35 years



Best Case: \$40,000 Lower allowance to replace Worst Case: \$60,000 Higher allowance to replace

Cost Source: ARI Cost Database: Similar Project Cost History

Comp #: 999 **Reserve Study - Update**

Location : Common areas of association

Quantity: Annual update

Funded? : No Annual costs, best handled in operational budget

History : No prior reserve studies completed by Association Reserves

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Evaluation : Per Washington law (RCW), reserve studies are to be updated annually, with site inspections by an independent reserve study professional to occur no less than every three years to assess changes in condition (i.e., physical, economic, governmental, etc...) and the resulting effect on the community's long-term reserve plan. Most appropriately factored within operating budget, not as reserve component.

Useful Life:	ASSOCIATION
Remaining Life:	DESERVES
	Est. 1986
	Reserve Studies for Community Associations
Best Case:	Worst Case:
C	ost Source: Does not meet NRSS criteria for reserve funding