

### **REED'S LANDING: ROAD RESERVES**

MIDLOTHIAN, VIRGINIA

### INTERACTIVE RESERVE ANALYSIS



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DMA does not support the validity of this report until a <u>*Working Session*</u> has been conducted with the Board of Directors and the final report issued.



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This is a printout of a dynamic reserve analysis that will change over time. The analysis is made up of information sheets and spreadsheets, whose contents may change each time the analysis is updated. If comparing this report to other copies, verify the latest issue date on the front cover. Summary descriptions of the spreadsheets are provided below. Some spreadsheets, which are continuous in Excel, are divided up into several pages in this report for legibility.

STANDARDS, LIMITATIONS AND LEGAL INFORMATION  Contains Community Associations Institute (CAI) National Standards, limitations and legal restrictions on the use of information in this document and legal disclosures.	1
<b>EXECUTIVE SUMMARY</b> Contains information on DMA personnel responsible for this analysis, community information and a summary of current financial information and funding plan information as of this issue date.	3
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# STANDARDS, LIMITATIONS AND CONDITIONS DISCLOSURE AND LEGAL RESTRICTIONS

#### STUDY STANDARDS

This study was conducted in accordance with the Community Associations Institute National Reserve Study Standards. A summary of the standards is contained in our information article entitled "National Standards" which is included in the Appendix.

The data and analysis information that forms a part of this report was formatted in Microsoft Excel but contains proprietary programming and program coding that is not available for distribution to outside parties. Copies of the data and analysis information have been made available in Adobe's Portable Document Format and included as part of this report. Limited program versions can also be provided, upon request, in Excel format for easier viewing and navigating through the data.

#### STUDY LIMITATIONS AND CONDITIONS

- 1. No destructive testing, lab analysis or other investigative methods were used to determine the condition of the components. Due to these limitations, as set forth in the reserve study guidelines that we subscribe to, the limited visual observations that were made are not sufficient to be considered a qualified architectural or engineering assessment of the state or condition of the components.
- 2. All common areas on the property were observed unless access was limited or not made available to us at the time of the inspection. The observations and opinions expressed herein with regard to the useful life of the components are based on our general professional knowledge of construction and our knowledge of the typical replacement experience of many communities and other entities with the same component types.
- 3. The inventory included taking field measurements, measurements from aerial and satellite imagery, digitized measurement over photo imagery and takeoffs and measurements from design and as-built drawings as there were deemed to be reliable. In the case of a Level II Update the quantities provided by the Client from previous studies was utilized when it was deemed to be reliable and accurate. In the case of a Level III Update all inventory data from previous studies provided by the Client was deemed accurate and reliable.
- 4. Our projections of remaining useful life are not architectural or engineering recommendations for executing specific projects. As the end of the remaining useful life approaches, as set forth in this study, the association should seek professional architectural, engineering, contractor, service providers or qualified product manufacturer or supplier assistance, as appropriate, and as to the need for and the scheduling of each specific replacement project. Particularly those of any significant magnitude.
- 5. An asset can be made up of several components that need to be maintained, repaired and replaced. Other elements of the asset may be considered permanent with respect to the asset. The schedule of components provided herein, is based upon information received from the client regarding the common elements and/or assets that the client is responsible for. It is the client's responsibility to verify that the schedule of components is complete.
- 6. Financial information including the present fund balance, interest from funds on deposit, and recent capital expenditures, were provided by the Association and are deemed reliable and complete by Design/Management Associates, Inc.

- 7. Information provided by the Association about prior reserve replacement projects is considered to be reliable and complete. No inspection by Design/Management Associates, Inc. should be interpreted as a project audit or quality inspection.
- 8. Industry Life Expectancy is based on printed product literature, product or material warranties, industry standards literature, and on the opinions of manufacturers, installers, or maintenance contractors based on their experience with these products and materials.
- 9. Unit prices are based on published unit price standards such as R. S. Means "Residential Cost Data", Facilities Maintenance and Repair Cost Data, and "Facilities Construction Cost Data", latest editions, and on pricing obtained from contractors, installers, or manufacturers. All prices are given in present dollars unless noted otherwise. Prices listed are not guaranteed as exact quotes for work included.
- 10. This analysis incorporates assumptions about the future rate of inflation, and the future interest income on your account deposits. If significant changes occur in either of these rates, this calculation should be re-run with current information.
- 11. The results of this analysis are predicated on your contributing the recommended amount in each previous year and on expenses occurring generally as predicted. The Reserve Study should be updated at least every 3 to 5 years, which may depend on statutory requirements, to correct for normal variations. However if significant changes occur in your present funding or in major expenses, in a shorter period of time, the account should be re-run.
- 12. DMA's Capital Replacement Reserve Studies are designed to be used as planning tools. They are a reflection of information provided by the Association and our analytical inputs, and are assembled for the Association's use. This reserve study should not be used for the purpose of performing an audit, quality/forensic analysis, or for background checks of historical records.

#### **DISCLOSURE**

DMA does not have any financial interest in this community, its management company or any vendor mentioned or used in this study beyond this work. This study represents all facts know to DMA at the time of it's preparation that if purposefully omitted would cause a distortion of the Association's situation regarding it's capital reserve plan.

#### LEGAL RESTRICTIONS ON USE OF THIS INFORMATION

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**Acceptance and Agreement:** By accepting these documents I hereby acknowledge that I have read and understood the Legal Restrictions On Use of This Information set forth above and that as a duly authorized representative or agent of the Client, represent that the Client agrees to accept and abide by the same.



#### **EXECUTIVE SUMMARY**

**REED'S LANDING: ROAD RESERVES** 

#### RESERVE SPECIALIST AND STAFF RESPONSIBLE FOR THIS ANALYSIS

This study was prepared under the direct supervision of:

David Herring, a Reserve Specialist certified by the Community Association Institute. Mr. Herring is a residential construction manager and Licensed Realtor and Broker in the State of Virginia with a BA in Interior Design.

The field survey, inventory, and condition assessment was conducted by:

David Herring, a Reserve Specialist certified by the Community Association Institute. Mr. Herring is a residential construction manager and Licensed Realtor and Broker in the State of Virginia with a BA in Interior Design.

#### COMMUNITY INFORMATION REED'S LANDING: ROAD RESERVES

Study Level:	Level II
Association Name:	Reed's Landing
Community Location / Address:	3980 Reed's Landing Circle, Midlothian Virginia 23113
Community Size (Number of Units):	229
Unit Type(s):	Single Family Homes
Management:	Community Partners
Represented by:	William Swift
Telephone and E-mail:	804-378-5000 / wswift@communityparntersva.com
Year(s) constructed:	1981
Year converted:	N/A
Scope of Reserves:	Reed's Landing Road & Lansdowne section: 1981 / Buckhead & Dunleith: 1984 / Stanford Court: 1985 / Stoneleigh: 1986 / Aberdeen: 1988 - 1990 / Solebury: 1990 / Drainage components including Roadside Swales and Piped Crossings under the roads.

#### FINANCIAL SUMMARY

THAITOIAE COMMANT					
Current Reserve Account Balance Information:					
Average annual income rate on reserve deposit accounts	3:	0.15%			
Balance on account:	NOTE: from 2015 Anticipated Balance	\$298,413	as of	12/31/2019	
Less contributions already made this year:				· <del></del>	
Plus expenditures already made and/or scheduled:					
Money held in investment accounts:		\$0			
Total balance:		\$298,413	as of	1/1/2020	
Reserve Account Contribution in Study Year:					
Current budgeted contribution for study year:	NOTE: from 2020 Income / Expense	\$120,000	for	2020	
Recommended contribution for study year from Reserve	\$120,000				
Remaining contribution to be made for study year:		\$120,000			

#### **INTERACTIVE ANALYSIS - WORKING DRAFT**

DMA conducted a site visit at the property on August 7, 2020. Specific observations about components are included in the Schedule of Components. Photographs were taken at the site and a digital folder can be provided upon request.

The current financial information listed in the Financial Summary above, was obtained from 2019 Balance Sheet, the 2019 & 2020 Income/Expense as well as the 2015 Reserve Study Cash Flow Report.

Our Historic Funding Analysis indicates that the community reserve account is 29.33% funded as of the beginning of this study year, based on the component method of funding. Under the same method, the present calculated "full funding" annual contribution is lower than your current budgeted contribution. Please review our comments on this methodology on the Historic Funding Analysis page and in the Appendix.

Using the Cash Flow funding method and relying on the information that we have obtained in the Schedule of Components, and our projections in our Component Lifecycle and Costing analysis, we have developed a preliminary 30-year funding plan for initial review. It includes an assumption about future inflation and also makes assumptions about future escalation or reduction of the annual contribution. The assumptions and decisions preliminarily made need to be discussed and corrections, revisions and adjustments made prior to the final determination of the reserve plan for this community. The next step is to conduct the working session with you, as described in the proposal and contract. During the working session, all aspects of the analysis will be reviewed and alternate funding and/or expenditure scenarios can be explored, in order to develop the plan that works for you. Contact DMA to set up this session.

<b>CASH FLOW FUNDING MODEL</b> (current as of the latest date on the cover of this report):		
Projected Inflation and Escalation Rates (from Reserve Funding Navigator):		
The projected inflation rate used in this printout is:	2.50%	
The projected annual contribution escalation rate in this printout is:	3.50%	
The projected difficult of the printed for	0.0070	
Reserve Funding Projections for next Four Years (from Reserve Funding Navigator):	<b>Amount</b>	Year
Reserve Funding Projections for next Four Years (from Reserve Funding Navigator):	Amount	Year
Reserve Funding Projections for next Four Years (from Reserve Funding Navigator):	\$124,200.00	2021
Reserve Funding Projections for next Four Years (from Reserve Funding Navigator):		
Reserve Funding Projections for next Four Years (from Reserve Funding Navigator):	\$124,200.00	2021
Reserve Funding Projections for next Four Years (from Reserve Funding Navigator):	\$124,200.00 \$128,547.00	2021 2022



### SCHEDULE OF COMPONENTS REED'S LANDING: ROAD RESERVES

	BASIC COMPONENT INFORM	ATION	SITE VISIT INFORMATION AG						
LINE NUMBER	COMPONENT NAME	LOCATION	FIELD MEASURED QUANTITY OR COUNT	UNITS	% TO BE REPLACED EACH OCCURRENCE	COMMENTS AND DESCRIPTION OF SPECIAL CONDITIONS	LAST IN- SERVICE DATE		
	ROADS AND DRAINAGE								
1.00	REED'S LANDING ROAD								
1.01	2" asphalt mill & overlay	Reed's Landing Road	6240	SY	100%		2010		
1.02	Edge milling of pavement at curb and gutter	Reed's Landing Road	930	LF	100%	Good overall condition. Minor cracking noted	2010		
1.03	Asphalt seal coating	Reed's Landing Road	6240	SY	100%	Last completed in 2018, client's cost included here and occurs on a 5-year cycle next scheduled for 2023. Adjustments to this can be made in the Working Session.	2018		
1.04	Asphalt patching	Reed's Landing Road	6240	SY	2%	Last patching completed in 2018 by Findley Asphalt - client's cost included here.	2018		
1.05	Asphalt crack filling	Reed's Landing Road	6000	LF	100%	Crack filling completed in 2018 by Findley Asphalt - client's cost included here.	2018		
1.06	24"w concrete curb and gutter	Reed's Landing Road	930	LF	2%	Allowance for periodic minor replacement.	2014		
1.07	Brick Roadway Pavement	Reed's Landing Road	1200	SF	100%	Brick pavement appears to be in the same condition as noted in the previous study - cracked and crumbling in place. We have extended the replacement of these road paving bricks to occur in 2026.	1981		
1.08	Brick Curb	Reed's Landing Road	400	SF	5%	Good overall condition with some minor cracking noted along with previous repairs.	1981		
1.09	Brick Walks	Reed's Landing Road	210	SF	100%	Good overall condition with some millor clacking noted along with previous repairs.	1981		
1.10	Granite Pavers	Reed's Landing Road	160	SF	100%	Good condition	2014		
1.11	Twin 48" RCP Pipes under Roadway	Reed's Landing Rd. @ Stanford Ct.	180	LF	10%	Future repair allowance included for 2031.	1981		
2.00	REED'S LANDING CIRCLE								
2.01	2" asphalt mill & overlay	Reed's Landing Circle	19910	SY	100%	Since approximately 15% of the road area was either full or partial patched in 2018, we have	1999		
2.02	Edge milling of pavement at curb and gutter	Reed's Landing Circle	4880	LF	100%	extended the full mill and overlay for Reed's Landing Circle to 2028. Based on community input, the need to mill and overlay of the entire road area can be evaluated in the Working Session.	1999		
2.03	Asphalt seal coating	Reed's Landing Circle	19910	SY	100%	Last completed in 2018, client's cost included here and occurs on a 5-year cycle next scheduled for 2023. Adjustments to this can be made in the Working Session.	2018		
2.04	Asphalt patching	Reed's Landing Circle	19910	SY	1%	Last patching completed in 2018 by Findley Asphalt - client's cost included here. Note: the total quantity of road area patched (either full or partial) was 2931 SY. This represents approximately 15% of the total road area for Reed's Landing Circle.	2018		
2.05	Asphalt crack filling	Reed's Landing Circle	10000	LF	100%	Crack filling completed in 2018 by Findley Asphalt - client's cost included here.	2018		
2.06	24"w concrete curb and gutter	Reed's Landing Circle	4880	LF	10%		2016		
2.07	48" RCP Pipe under Roadway	Reed's Landing Circle	72	LF	10%		1981		
2.08	Twin 48" RCP Pipes under Roadway	Reed's Landing Circle	130	LF	10%	Drainage components assumed to be working properly with future repair / replacement costs	2016		
2.09	18" RCP Pipe under Roadway	Reed's Landing Circle	96	LF	10%	included based on the typical life cycle of each component.	1981		
2.10	Curb Inlet	Reed's Landing Circle	1	EA	100%		1981		
2.11	18" RCP Pipe parallel to Roadway	Reed's Landing Circle	210	LF	10%		1981		
3.00	STANFORD COURT								
3.01	2" asphalt mill & overlay	Stanford Court	3765	SY	100%	Alligator cracking noted along the section of roadway directly off Reed's Landing Circle.	2006		
3.02	Asphalt seal coating	Stanford Court	3765	SY	100%	Previous patching also noted. Patching and sealcoating next scheduled for 2021 followed by full mill and overlay in 2031.	2014		
3.03	Asphalt patching	Stanford Court	3765	SY LF	1%				
_	24" RCP under roadway	Stanford Court	36 45	LF	10% 10%	Drainage components assumed to be working properly with future repair / replacement costs included based on the typical life cycle of each component.	1985 1985		
3.05 <b>4.00</b>	18" RCP Pipe under Roadway  LANSDOWNE ROAD	Stanford Court	40	LF	10%	included based on the typical line cycle of each component.	1985		
4.00	2" asphalt mill & overlay	Lansdowne Road	4300	SY	100%		2001		
4.01	Edge milling of pavement at curb and gutter	Lansdowne Road	153	LF	100%	Milling and overlay scheduled for 2026, future sealcoating has been scheduled for 2030 after the	2001		
4.02	Asphalt seal coating	Lansdowne Road	4300	SY	100%	road has been milled and overlaid.	2015		
4.04	Asphalt patching	Lansdowne Road	4300	SY	1%	Toda Nao 2001 Hilliou and 070 haid.	2015		
4.05	24"w concrete curb and gutter	Lansdowne Road	153	LF	5%		2010		
4.06	Catch Basin	Lansdowne Road	1	EA	100%		1981		
4.07	18" RCP Pipe under Roadway	Lansdowne Road	45	LF	10%	Drainage components assumed to be working properly with future repair / replacement costs	1981		
	36" RCP under roadway	Lansdowne Road	72	LF	10%	included based on the typical life cycle of each component.	1981		
4.09	36" RCP under roadway	Lansdowne Road	80	LF	10%	·	1981		
4.10	36" RCP under roadway	Lansdowne Road	90	LF	10%		1981		
4.11	Bank Restoration with rip-rap along Roadway	Lansdowne Road	60	SY	100%	Assuming this work was completed in 2016, next funding occurrence scheduled for 2046	2016		



### SCHEDULE OF COMPONENTS REED'S LANDING: ROAD RESERVES

	BASIC COMPONENT INFORM	IATION				SITE VISIT INFORMATION	AGE
LINE NUMBER	COMPONENT NAME	LOCATION	FIELD MEASURED QUANTITY OR COUNT	UNITS	% TO BE REPLACED EACH OCCURRENCE	COMMENTS AND DESCRIPTION OF SPECIAL CONDITIONS	LAST IN- SERVICE DATE
5.00	LANSDOWNE COURT						
5.01	2" asphalt mill & overlay	Lansdowne Court	1400	SY	100%		2001
5.02	Asphalt seal coating	Lansdowne Court	1400	SY	100%	Appeared to be in overall good condition. Full mill and overlay scheduled for 2027.	2017
5.03	Asphalt patching	Lansdowne Court	1400	SY	1%		2017
6.00	LANSDOWNE TERRACE						
6.01	2" asphalt mill & overlay	Lansdowne Terrace	2680	SY	100%		2001
6.02	Edge milling of pavement at curb and gutter	Lansdowne Terrace	120	LF	100%	Appeared to be in overall good condition. Last patching completed in 2018 by Findley Asphalt -	2001
6.03	Asphalt seal coating	Lansdowne Terrace	2680	SY	100%	client's cost included here and adjusted to account for inflation. Full mill and overlay moved forward to 2031.	2015
6.04	Asphalt patching	Lansdowne Terrace	2680	SY	1%	norwald to 2031.	2018
6.05	24"w concrete curb and gutter	Lansdowne Terrace	120	LF	10%		2010
6.06	24" RCP under roadway	Lansdowne Terrace	45	LF	10%	Drainage components assumed to be working properly with future repair / replacement costs	1981
6.07	Concrete swale	Lansdowne Terrace	50	LF	100%	included based on the typical life cycle of each component.	1981
7.00	TURNLEY LANE				100,0		
7.01	2" asphalt mill & overlay	Turnley Lane	1700	SY	100%	The road appears to be in overall good condition with one section observed cracking - this	2007
7.02	Asphalt seal coating	Turnley Lane	1700	SY	100%	section has been marked for replacement. We assume this section will be patched in 2020 and	2018
7.03	Asphalt patching	Turnley Lane	1700	SY	1%	have "reset" the in-service date for patching to 2020, occurring on a 5-year cycle.	2020
7.04	18" RCP under roadway	Turnley Lane	40	LF	10%	Drainage components assumed to be working properly with future repair / replacement costs included based on the typical life cycle of each component.	2015
8.00	DUNLEITH COURT					The date of the typical me cycle of each compension.	
8.01	2" asphalt mill & overlay	Dunleith Court	1420	SY	100%		2007
8.02	Edge milling of pavement at curb and gutter	Dunleith Court	290	LF	100%	A large area marked for patching, which we assume will occur this year. The rest of the road	2007
8.03	Asphalt seal coating	Dunleith Court	1420	SY	100%	appeared to be in good overall condition.	2018
8.04	Asphalt patching	Dunleith Court	1420	SY	1%		2020
8.05	24"w concrete curb and gutter	Dunleith Court	290	LF	5%	Drainage components assumed to be working properly with future repair / replacement costs included based on the typical life cycle of each component.	2007
9.00	DUNLEITH TERRACE						
9.01	2" asphalt mill & overlay	Dunleith Terrace	1640	SY	100%		2007
9.02	Asphalt seal coating	Dunleith Terrace	1640	SY	100%	Some cracking observed at the beginning of the road with the remaining road area in good	2018
9.03	Asphalt patching	Dunleith Terrace	1640	SY	1%	condition. Funds for patching are scheduled for 2023 with a full mill and overlay in 2032.	2013
10.00	SOLEBURY TERRACE						
10.01	2" asphalt mill & overlay	Solebury Terrace	2860	SY	100%		2015
10.02	Edge milling of pavement at curb and gutter	Solebury Terrace	650	LF	100%		2015
		•		0)/		Sealcoating appears to be recent. Based on the previous study, sealcoating was scheduled on a 5-year cycle beginning in 2020. Full mill and overlay anticipated in 2040.	
10.03	Asphalt seal coating	Solebury Terrace	2860	SY	100%	o-year cycle beginning in 2020. Tuli mili and overlay anticipated in 2040.	2020
10.04	Asphalt patching	Solebury Terrace	2860	SY	1%		2020
10.05	24"w concrete curb and gutter	Solebury Terrace	650	LF	5%		2015
10.06	Catch Basin	Solebury Terrace	1	EA	100%	Assuming as a province would up a required fitting funds for a priodic real consent of ducinose	2015
10.07	18" RCP Pipe under Roadway	Solebury Terrace	50	LF	10%	Assuming no previous work was required, future funds for periodic replacement of drainage components included for 2040.	1990
10.08	Curb Inlet	Solebury Terrace	1	EA	100%	Sompone in Clause of Euro	2015
10.09	18" RCP Pipe under Roadway	Solebury Terrace	50	LF	10%		1990
11.00	SOLEBURY PLACE						
11.01	2" asphalt mill & overlay	Solebury Place	3640	SY	100%	Per the previous study the road was scheduled for milling and overlay in 2015, which is the in-	2015
11.02	Edge milling of pavement at curb and gutter	Solebury Place	900	LF	100%	service date noted here. Based on this, the next milling and overlay will occur again in 2040.	2015
11.03	Asphalt seal coating	Solebury Place	3640	SY	100%	As with Solebury Terrance, sealcoating appears to be recent. Some alligatoring was noted at the	2020
11.04	Asphalt patching	Solebury Place	3640	SY	1%	road entrance with a small chunk missing.	2015
11.05	24"w concrete curb and gutter	Solebury Place	900	LF	10%		2015
11.06	24" RCP under roadway	Solebury Place	75	LF	10%		1990
11.07	Curb Inlet	Solebury Place	1	EA	100%	Drainage components assumed to be working properly with future repair / replacement costs	1990
11.08	18" RCP Pipe under Roadway	Solebury Place	100	LF	10%	included based on the life cycle of each component.	1990
11.09	Curb Inlet	Solebury Place	1	EA	100%		1990
11.10	18" RCP Pipe under Roadway	Solebury Place	100	LF	10%		1990
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### SCHEDULE OF COMPONENTS REED'S LANDING: ROAD RESERVES

Comment of Comment of Machine   Comment of Machine   Comment of Comment of Comment of Machine   Comment of Comment		BASIC COMPONENT INFORI	MATION	SITE VISIT INFORMATION						
1.200   2.5 egipt mill a Soverlay	INE NUMBER	COMPONENT NAME	LOCATION	MEASURED QUANTITY OR	UNITS	REPLACED EACH	COMMENTS AND DESCRIPTION OF SPECIAL CONDITIONS	LAST IN- SERVICE DATE		
2.22   General Processes and and quater   Aberdeen Landing Terrace   1150   LF   100%	12.00	ABERDEEN LANDING TERRACE								
Control   Cont	12.01	2" asphalt mill & overlay	Aberdeen Landing Terrace	4185	SY	100%		2008		
Abordence Landing Terrace 4865 to 100% 4864 path protecting 4865 per landing processes and protection and path protection and	12.02	Edge milling of pavement at curb and gutter	Aberdeen Landing Terrace	1150	LF	100%		2008		
Abortion Landing Variable  Abortion Landing Transpo  Abortion Landing Transpo  Abortion Landing Transpo  Abortion Landing Transpo  1100  Abortion Landing Land  1100  Abortion Landing Lan	12.03	Asphalt seal coating	Aberdeen Landing Terrace	4185	SY	100%		2014		
Appelled and processes of the second processes of the	12.04	Asphalt patching	Aberdeen Landing Terrace	4185	SY	1%	Penodic patching allowance last scheduled for 2016 included in that year using clients 2016	2018		
RCP   Pipe under Roadway   Aberdeen Landing Terrace   70   F   10%   Aberdeen Landing Lane   2485   57   100%   Ab	12.05	Asphalt demo / restoration	Aberdeen Landing Terrace	4185	SY	5%		2018		
Aberdeen Landing Terrace 1909 LF 197% Installed in 2018 to assist in drawing water from the readway.    Period Nation   Period	12.06	24"w concrete curb and gutter	Aberdeen Landing Terrace	1150	LF	10%	Drainage components assumed to be working properly with future repair / replacement costs	2014		
Aberdeen Landing Lane   2485 SY   100%	12.07	18" RCP Pipe under Roadway	Aberdeen Landing Terrace	70	LF	10%	included based on the life cycle of each component.	1988		
Appendent and only appendent at cuts and gutter   Aberdeent Landing Lane   2485   87   100%	12.08	French drain	Aberdeen Landing Terrace	100	LF	10%	Installed in 2018 to assist in draining water from the roadway.	2018		
Separating of powerment across and guster   Abectident Landring Lane   950   LF   100%	13.00	ABERDEEN LANDING LANE								
Aberdeen Landing Lane	13.01	2" asphalt mill & overlay	Aberdeen Landing Lane	2485	SY	100%		2008		
Apprint seal coating	13.02	Edge milling of pavement at curb and gutter	Aberdeen Landing Lane	950	LF	100%	Cond condition	2008		
Aberdeen Landing Lane   950   LF   10%   Good condition	13.03	Asphalt seal coating	Aberdeen Landing Lane	2485	SY	100%	Good condition.	2014		
Martic CROFT PLACE	13.04	Asphalt patching	Aberdeen Landing Lane	2485	SY	1%		2018		
14.01   22 syshell mill 8 overlay	13.05	24"w concrete curb and gutter	Aberdeen Landing Lane	950	LF	10%	Good condition	1990		
14.02 Egg milling of pavement at curb and gutter  Little Croft Place 1415 SY 100% 14.03 Asphalt seal coating Little Croft Place 1415 SY 100% 14.04 Asphalt patching Little Croft Place 1415 SY 100% 14.05 SY 100% 14.06 Self-MeAR ORAD  Little Croft Place 1415 SY 100% 14.06 Self-MeaR ORAD  Little Croft Place 1415 SY 100% 14.07 Self-MeaR ORAD  Little Croft Place 1415 SY 100% 15.08 UKHEAR ORAD  Little Croft Place 1415 SY 100% 15.09 UKHEAR ORAD  Little Croft Place 1415 SY 100% 15.00 UKHEAR ORAD  Little Croft Place 1415	14.00	LITTLE CROFT PLACE								
Asphalt seal coasing Uittle Croft Place 1415 SY 100% Good condition, some manor cracking noted that has been previously filled.  48 Asphalt patching Uittle Croft Place 1415 SY 1% Good condition  48 Buckhead Road 145 LF 5% Good condition  48 Buckhead Road 3288 SY 100% Good condition  48 Asphalt seal coasing Buckhead Road 3288 SY 100% Good condition  48 Asphalt seal coasing Buckhead Road 3288 SY 100% Good condition  48 Asphalt seal coasing Buckhead Road 3288 SY 100% Good condition with previously patched section noted.  48 Asphalt seal coasing Buckhead Road 3288 SY 100% Good condition with previously patched section noted.  48 Asphalt seal coasing Buckhead Road 3288 SY 100% Good condition with previously patched section noted.  48 Asphalt seal coasing Buckhead Road 3288 SY 100% Good condition with previously patched section noted.  48 Asphalt seal coasing Buckhead Road 11 EA 100% Good condition with previously patched section noted.  48 Asphalt seal coasing Buckhead Road 11 EA 100% Good condition with previously patched section noted.  48 Buckhead Court 100% GY 100% Good condition with previously patched section noted.  48 Buckhead Court 100% GY 100% Good condition. Section of cul-de-sac that had degraded has been patched. Per the previous study, this work was to be completed in 2020, which is the in-service date used here.  48 Buckhead Court 100% GY 100% Good condition.  48 Pack Buckhead Court 100% GY 100% Good condition.  48 Pack Buckhead Court 100% GY 100% Good condition.  48 Pack Buckhead Court 100% GY 100% Good condition.  49 Pack Buckhead Court 100% GY 100% Good condition.  40 Pack Buckhead Court 100% GY 100% Good condition.  40 Pack Buckhead Court 100% GY 100% Good condition.  40 Pack Buckhead Court 100% GY 100% Good condition.  40 Pack Buckhead Court 100% GY 100% Good condition.  40 Pack Buckhead Court 100% GY 100% Good condition.  40 Pack Buckhead Court 100% GY 100% Good condition.  40 Pack Buckhead Court 100% GY 100% Good condition.  40 Pack Buckhead Court 100% Good condition.  40 Pack Buckhead Court 10	14.01	2" asphalt mill & overlay	Little Croft Place	1415	SY	100%		2006		
Apphalt seal coating Little Croft Place 1415 SY 100% Little Croft Place 1415 SY 10% Little Croft Place 1415 SY 100% Little Croft Pla	14.02	Edge milling of pavement at curb and gutter	Little Croft Place	490	LF	100%	Good condition, some minor cracking noted that has been proviously filled	2006		
24'w concrete curb and gutter   Little Croft Place   490   LF   5%   Good condition	14.03	Asphalt seal coating	Little Croft Place	1415	SY	100%	Sound Condition, Some minor cracking noted that has been previously lined.	2015		
Section   Buckhead Road   3285   SY   100%   500   5	14.04	Asphalt patching	Little Croft Place	1415	SY	1%		2006		
15.01   2" asphalt mill & overlay	14.05	24"w concrete curb and gutter	Little Croft Place	490	LF	5%	Good condition	1988		
15.02   Edge milling of pavement at curb and gutter   Buckhead Road   245   LF   100%	15.00	BUCKHEAD ROAD								
Buckhead Road   3285   SY   100%   Asphalt seal coating   Buckhead Road   3285   SY   100%   Asphalt patching   Buckhead Road   245   LF   10%   15.06   Catch Basin   Buckhead Road   245   LF   10%   10	15.01	2" asphalt mill & overlay	Buckhead Road	3285	SY	100%		2012		
Asphalt seal coating   Buckhead Road   3285   SY   100%	15.02	Edge milling of pavement at curb and gutter	Buckhead Road	245	LF	100%	Good overall condition with proviously patched section noted	2012		
15.05   24"w concrete curb and gutter   Buckhead Road   245   LF   10%	15.03	Asphalt seal coating	Buckhead Road	3285	SY	100%	Sood overall condition with previously pateried section noted.	2017		
Buckhead Road   1	15.04	Asphalt patching	Buckhead Road	3285	SY	1%		2017		
Sucknead Road   1	15.05	24"w concrete curb and gutter	Buckhead Road	245	LF	10%	Decisions assessment continued to be used in a supplier with figure and it / soulcontent conte	2019		
15.07 18* RCP Pipe under Roadway Buckhead Road 40 LF 10% Buckhead COURT  16.08 Buckhead COURT  16.09 Edge milling of pavement at curb and gutter Buckhead Court Buckhead Terrace	15.06	Catch Basin	Buckhead Road	1		100%		1984		
Buckhead Court 1080 SY 100%  Edge milling of pavement at curb and gutter Buckhead Court 130 LF 100%  Asphalt seal coating Buckhead Court 1080 SY 100%  Asphalt patching Buckhead Court 1080 SY 100%  Buckhead Court 1080 SY 100%  Asphalt patching Buckhead Court 1080 SY 100%  Buckhead Terrace 1010 SY 100%  Edge milling of pavement at curb and gutter Buckhead Terrace 910 LF 100%  Asphalt seal coating Buckhead Terrace 6110 SY 100%  Asphalt patching Buckhead Terrace 6110 SY 100%  Saybalt seal coating Buckhead Terrace 910 LF 100%  Can correte curb and gutter Buckhead Terrace 6110 SY 100%  Saybalt patching Buckhead Terrace 910 LF 50%  Buckhead Terrace 910 LF 50%  Buckhead Terrace 910 LF 50%  Can correte curb and gutter Buckhead Terrace 910 LF 100%  Can correte curb and gutter Buckhead Terrace 910 LF 100%  Can correte curb and gutter Buckhead Terrace 910 LF 50%  Can correte curb and gutter Buckhead Terrace 910 LF 50%  Can correte curb and gutter Buckhead Terrace 910 LF 50%  Can correte curb and gutter Buckhead Terrace 910 LF 50%  Can correte curb and gutter Buckhead Terrace 910 LF 50%  Car correte curb and gutter Buckhead Terrace 910 LF 50%  Car correct curb and gutter Buckhead Terrace 910 LF 50%  Car correct curb and gutter Buckhead Terrace 910 LF 50%  Car correct curb and gutter Buckhead Terrace 910 LF 50%  Car correct curb and gutter Buckhead Terrace 910 LF 50%  Car correct curb and gutter Buckhead Terrace 910 LF 50%  Car correct curb and gutter Buckhead Terrace 910 LF 50%  Car correct curb and gutter Buckhead Terrace 910 LF 50%  Car correct curb and gutter Buckhead Terrace 910 LF 50%  Car correct curb and gutter 910 CP 100%  Car car graded the section of curb correct order and the section	15.07	18" RCP Pipe under Roadway	Buckhead Road	40	LF	10%	, , , , , , , , , , , , , , , , , , , ,	1984		
Edge milling of pavement at curb and gutter   Buckhead Court   130   LF   100%   Sy   100%   Study, this work was to be completed in 2020, which is the in-service date used here.	16.00	BUCKHEAD COURT								
Buckhead Court   1080   SY   100%   Study, this work was to be completed in 2020, which is the in-service date used here.	16.01	2" asphalt mill & overlay	Buckhead Court	1080		100%		2012		
Asphalt patching Buckhead Court Buckhead Terrace Buckhead	16.02	Edge milling of pavement at curb and gutter	Buckhead Court	130		100%		2012		
16.05 24"w concrete curb and gutter Buckhead Court 130 LF 5% Good condition.  17.00 BUCKHEAD TERRACE 17.01 2" asphalt mill & overlay Buckhead Terrace 6110 SY 100% 17.02 Edge milling of pavement at curb and gutter Buckhead Terrace 910 LF 100% 17.03 Asphalt seal coating Buckhead Terrace 6110 SY 100% 17.04 Asphalt patching Buckhead Terrace 6110 SY 100% 17.05 24"w concrete curb and gutter Buckhead Terrace 910 LF 5% Drainage components assumed to be working properly with future repair / replacement costs 17.06 24" RCP under roadway Buckhead Terrace 910 LF 5% Drainage components assumed to be working properly with future repair / replacement costs included based on the life cycle of each component.  18.00 REED'S LANDING PARK 18.01 2" asphalt mill & overlay Reed's Landing Park 1400 SY 100% 18.03 Asphalt seal coating Reed's Landing Park 1400 SY 100% 18.03 Asphalt patching Reed's Landing Park 1400 SY 5% for this to occur in 2029.	16.03	Asphalt seal coating	Buckhead Court	1080	SY	100%	study, this work was to be completed in 2020, which is the in-service date used here.	2017		
HT.00 BUCKHEAD TERRACE  17.01 2" asphalt mill & overlay Buckhead Terrace B	16.04			_				2020		
2" asphalt mill & overlay Buckhead Terrace Buckhead Terra	16.05	ŭ	Buckhead Court	130	LF	5%	Good condition.	2019		
However the first search and gutter and gutter buckhead Terrace buckhead T	17.00									
Asphalt seal coating Buckhead Terrace Bu	17.01	2" asphalt mill & overlay	Buckhead Terrace	6110				2007		
Asphalt seal coating   Buckhead Terrace   6110   SY   100%	17.02						Good overall with one section of degrading payement noted.	2007		
24°w concrete curb and gutter  Buckhead Terrace 910 LF 5% Drainage components assumed to be working properly with future repair / replacement costs included based on the life cycle of each component.  18.00 REED'S LANDING PARK  2" asphalt mill & overlay Reed's Landing Park 1400 SY 100% Reed's Lan	17.03	· · · · · · · · · · · · · · · · · · ·	+	-				2018		
17.06 24" RCP under roadway  Buckhead Terrace  40 LF  10% included based on the life cycle of each component.  18.00 REED'S LANDING PARK  18.01 2" asphalt mill & overlay  Reed's Landing Park  1400 SY  100%  Cracking noted in several areas with some alligator cracking toward the end nearest the split rail fence. Based on the lifecycle established in the previous study, funds for patching and sealcoating are included for 2022. We have reduced the mill and overlay for this area to allow for this to occur in 2029.  19.00 ROAD ENGINEERING	17.04			-				2020		
18.00 REED'S LANDING PARK  18.01 2" asphalt mill & overlay  Reed's Landing Park  1400 SY  100%  Cracking noted in several areas with some alligator cracking toward the end nearest the split rail  fence. Based on the lifecycle established in the previous study, funds for patching and sealcoating are included for 2022. We have reduced the mill and overlay for this area to allow for this to occur in 2029.  ROAD ENGINEERING	17.05							2019		
18.01 2" asphalt mill & overlay Reed's Landing Park 1400 SY 100% Cracking noted in several areas with some alligator cracking toward the end nearest the split rail fence. Based on the lifecycle established in the previous study, funds for patching and sealcoating are included for 2022. We have reduced the mill and overlay for this area to allow for this to occur in 2029.	17.06	j	Buckhead Terrace	40	LF	10%	included based on the life cycle of each component.	1984		
Asphalt seal coating Reed's Landing Park 1400 SY 100% fence. Based on the lifecycle established in the previous study, funds for patching and seal coating are included for 2022. We have reduced the mill and overlay for this area to allow for this to occur in 2029.  ROAD ENGINEERING	18.00									
Asphalt seal coating Asphalt seal coating are included for 2022. We have reduced the mill and overlay for this area to allow for this to occur in 2029.  Reed's Landing Park 1400 SY 5% for this to occur in 2029.	18.01	2" asphalt mill & overlay	Reed's Landing Park	1400		100%		2008		
Asphalt patching Reed's Landing Park 1400 SY 5% for this to occur in 2029.  ROAD ENGINEERING	18.02	Asphalt seal coating	Reed's Landing Park	1400	SY	100%		2015		
	18.03	Asphalt patching	Reed's Landing Park	1400	SY	5%		2015		
19.01 Consulting engineering fees Community-Wide 1 LS 100% Ongoing allowance for engineering fees based on past history.	19.00	ROAD ENGINEERING								
	19.01	Consulting engineering fees	Community-Wide	1	LS	100%	Ongoing allowance for engineering fees based on past history.	2019		



### COMPONENT LIFECYCLE AND COSTING REED'S LANDING: ROAD RESERVES

BASIC COMPONENT INFORMATION		MATION	LIFE CYCLE				REPLACEMENT COST				
	BASIC COMPONENT INFOR	MATION		LIFE			LOCATION CCI	88.9		BASE CCI	88.9
LINE NUMBER	COMPONENT NAME	LOCATION	CURRENT ESTIMATED USEFUL LIFE (EUL)	REPLACEMENT INTERVAL AFTER FIRST REPLACEMENT	REMAINING USEFUL LIFE OR YEARS PAST DUE	NEXT REPLACEMENT YEAR	% OF TOTAL QUANTITY TO BE REPLACED	UNITS	QUANTITY OR COUNT	UNIT COST	REPLACEMENT COST, PER OCCURRENCE
	ROADS AND DRAINAGE										
1.00	REED'S LANDING ROAD										
1.01	2" asphalt mill & overlay	Reed's Landing Road	25	25	15	2035	100%	SY	6,240	\$19.68	\$122,803.20
1.02	Edge milling of pavement at curb and gutter	Reed's Landing Road	25	25	15	2035	100%	LF	930	\$4.84	\$4,501.20
1.03	Asphalt seal coating	Reed's Landing Road	5	5	3	2023	100%	SY	5,800	\$1.33	\$7,714.00
1.04	Asphalt patching	Reed's Landing Road	5	5	3	2023	100%	SY	107	\$15.59	\$1,668.13
1.05	Asphalt crack filling	Reed's Landing Road	5	5	3	2023	100%	LF	6,000	\$0.69	\$4,140.00
1.06	24"w concrete curb and gutter	Reed's Landing Road	30	5	24	2044	2%	LF	930	\$77.54	\$1,442.24
1.07	Brick Roadway Pavement	Reed's Landing Road	45	25	6	2026	100%	SF	1,200	\$20.73	\$24,876.00
1.08	Brick Curb	Reed's Landing Road	50	5	11	2031	5%	SF	400	\$25.80	\$516.00
1.09	Brick Walks	Reed's Landing Road	50	50	11	2031	100%	SF	210	\$25.80	\$5,418.00
1.10	Granite Pavers	Reed's Landing Road	50	50	44	2064	100%	SF	160	\$86.65	\$13,864.00
1.11	Twin 48" RCP Pipes under Roadway	Reed's Landing Rd. @ Stanford Ct.	50	10	11	2031	10%	LF	180	\$750.23	\$13,504.14
2.00	REED'S LANDING CIRCLE										
2.01	2" asphalt mill & overlay	Reed's Landing Circle	29	25	8	2028	100%	SY	19,910	\$19.68	\$391,828.80
2.02	Edge milling of pavement at curb and gutter	Reed's Landing Circle	29	25	8	2028	100%	LF	4,880	\$4.84	\$23,619.20
2.03	Asphalt seal coating	Reed's Landing Circle	5	5	3	2023	100%	SY	14,000	\$1.33	\$18,620.00
2.04	Asphalt patching	Reed's Landing Circle	5	5	3	2023	100%	SY	2,931	\$15.59	\$45,694.29
2.05	Asphalt crack filling	Reed's Landing Circle	5	5	3	2023	100%	LF	10,000	\$0.69	\$6,900.00
2.06	24"w concrete curb and gutter	Reed's Landing Circle	5	5	1	2021	10%	LF	4,880	\$77.54	\$37,839.52
2.07	48" RCP Pipe under Roadway	Reed's Landing Circle	50	10	11	2031	10%	LF	72	\$750.23	\$5,401.66
2.08	Twin 48" RCP Pipes under Roadway	Reed's Landing Circle	10	10	6	2026	10%	LF	130	\$750.23	\$9,752.99
2.09	18" RCP Pipe under Roadway	Reed's Landing Circle	50	10	11	2031	10%	LF	96	\$214.18	\$2,056.13
2.10	Curb Inlet	Reed's Landing Circle	75	75	36	2056	100%	EA	1	\$9,875.81	\$9,875.81
2.11	18" RCP Pipe parallel to Roadway	Reed's Landing Circle	50	10	11	2031	10%	LF	210	\$214.18	\$4,497.78
3.00	STANFORD COURT										
3.01	2" asphalt mill & overlay	Stanford Court	25	25	11	2031	100%	SY	3,765	\$19.68	\$74,095.20
3.02	Asphalt seal coating	Stanford Court	7	5	1	2021	100%	SY	3,765	\$1.04	\$3,915.60
3.03	Asphalt patching	Stanford Court	15	5	1	2021	1%	SY	3,765	\$50.31	\$1,894.17
3.04	24" RCP under roadway	Stanford Court	50	5	15	2035	10%	LF	36	\$230.49	\$829.76
3.05	18" RCP Pipe under Roadway	Stanford Court	50	5	15	2035	10%	LF	45	\$214.18	\$963.81
4.00	LANSDOWNE ROAD		_								
4.01	2" asphalt mill & overlay	Lansdowne Road	25	25	6	2026	100%	SY	4,300	\$19.68	\$84,624.00
4.02	Edge milling of pavement at curb and gutter	Lansdowne Road	25 15	25	6	2026	100%	LF SY	153	\$4.84	\$740.52
4.03	Asphalt seal coating	Lansdowne Road	15 5	5 5	10 0	2030 2020	100% 1%	SY	4,300 4,300	\$1.04 \$50.31	\$4,472.00 \$2,163.33
4.04	Asphalt patching 24"w concrete curb and gutter	Lansdowne Road  Lansdowne Road	10	10	0	2020	5%	LF	4,300 153	\$50.31 \$77.54	\$2,163.33 \$593.18
4.05	Catch Basin	Lansdowne Road  Lansdowne Road	75	25	36	2020	100%	EA	1	\$6,459.26	\$6,459.26
4.07	18" RCP Pipe under Roadway	Lansdowne Road	50	5	11	2030	100%	LF	45	\$214.18	\$963.81
4.08	36" RCP under roadway	Lansdowne Road	50	5	11	2031	10%	LF	72	\$750.23	\$5,401.66
4.09	36" RCP under roadway	Lansdowne Road	50	5	11	2031	10%	LF	80	\$750.23	\$6,001.84
4.10	36" RCP under roadway	Lansdowne Road  Lansdowne Road	50	30	11	2031	10%	LF	90	\$750.23	\$6,752.07
4.11	Bank Restoration with rip-rap along Roadway	Lansdowne Road	30	30	26	2046	10%	SY	60	\$141.34	\$8,480.40



### COMPONENT LIFECYCLE AND COSTING REED'S LANDING: ROAD RESERVES

PASIC COMPONENT INCOPMATION		LIFE CYCLE				REPLACEMENT COST					
	BASIC COMPONENT INFORM	IATION		LIFE	YCLE		LOCATION CCI	88.9		BASE CCI	88.9
LINE NUMBER	COMPONENT NAME	LOCATION	CURRENT ESTIMATED USEFUL LIFE (EUL)	REPLACEMENT INTERVAL AFTER FIRST REPLACEMENT	REMAINING USEFUL LIFE OR YEARS PAST DUE	NEXT REPLACEMENT YEAR	% OF TOTAL QUANTITY TO BE REPLACED	UNITS	QUANTITY OR COUNT	UNIT COST	REPLACEMENT COST, PER OCCURRENCE
5.00	LANSDOWNE COURT										
5.01	2" asphalt mill & everlay	Lansdowne Court	26	25	7	2027	100%	SY	1,400	\$19.68	\$27,552.00
5.02	Asphalt seal coating	Lansdowne Court	7	7	4	2024	100%	SY	1,400	\$1.04	\$1,456.00
5.03	Asphalt patching	Lansdowne Court	5	5	2	2022	1%	SY	1,400	\$50.31	\$704.34
6.00	LANSDOWNE TERRACE										
6.01	2" asphalt mill & overlay	Lansdowne Terrace	30	25	11	2031	100%	SY	2,680	\$19.68	\$52,742.40
6.02	Edge milling of pavement at curb and gutter	Lansdowne Terrace	30	25	11	2031	100%	LF	120	\$4.84	\$580.80
6.03	Asphalt seal coating	Lansdowne Terrace	8	5	3	2023	100%	SY	2,680	\$1.04	\$2,787.20
6.04	Asphalt patching	Lansdowne Terrace	5	5	3	2023	100%	SY	139	\$15.59	\$2,167.01
6.05	24"w concrete curb and gutter	Lansdowne Terrace	25	5	15	2035	10%	LF	120	\$77.54	\$930.48
6.06	24" RCP under roadway	Lansdowne Terrace	50	10	11	2031	10%	LF	45	\$230.49	\$1,037.21
6.07	Concrete swale	Lansdowne Terrace	40	25	1	2021	100%	LF	50	\$77.54	\$3,877.00
7.00	TURNLEY LANE										
7.01	2" asphalt mill & overlay	Turnley Lane	25	25	12	2032	100%	SY	1,700	\$19.68	\$33,456.00
7.02	Asphalt seal coating	Turnley Lane	5	5	3	2023	100%	SY	1,700	\$1.04	\$1,768.00
7.03	Asphalt patching	Turnley Lane	5	5	5	2025	1%	SY	1,700	\$50.31	\$855.27
7.04	18" RCP under roadway	Turnley Lane	10	10	5	2025	10%	LF	40	\$214.18	\$856.72
8.00	DUNLEITH COURT										
8.01	2" asphalt mill & overlay	Dunleith Court	25	25	12	2032	100%	SY	1,420	\$19.68	\$27,945.60
8.02	Edge milling of pavement at curb and gutter	Dunleith Court	25	25	12	2032	100%	LF	290	\$4.84	\$1,403.60
8.03	Asphalt seal coating	Dunleith Court	7	5	5	2025	100%	SY	1,420	\$1.04	\$1,476.80
8.04	Asphalt patching	Dunleith Court	5	5	5	2025	1%	SY	1,420	\$50.31	\$714.40
8.05	24"w concrete curb and gutter	Dunleith Court	25	5	12	2032	5%	LF	290	\$77.54	\$1,124.33
9.00	DUNLEITH TERRACE										
9.01	2" asphalt mill & overlay	Dunleith Terrace	25	25	12	2032	100%	SY	1,640	\$19.68	\$32,275.20
9.02	Asphalt seal coating	Dunleith Terrace	5	5	3	2023	100%	SY	1,640	\$1.04	\$1,705.60
9.03	Asphalt patching	Dunleith Terrace	10	5	3	2023	1%	SY	1,640	\$50.31	\$825.08
10.00	SOLEBURY TERRACE										
10.01	2" asphalt mill & overlay	Solebury Terrace	25	25	20	2040	100%	SY	2,860	\$19.68	\$56,284.80
10.02	Edge milling of pavement at curb and gutter	Solebury Terrace	25	25	20	2040	100%	LF	650	\$4.84	\$3,146.00
10.03	Asphalt seal coating	Solebury Terrace	5	5	5	2025	100%	SY	2,860	\$1.04	\$2,974.40
10.04		·	5	5	5	2025	1%	SY	2,860	\$50.31	\$1,438.87
10.04	Asphalt patching	Solebury Terrace Solebury Terrace	25	5	20	2025	5%	LF	650	\$77.54	\$1,438.87
10.05	24"w concrete curb and gutter	Solebury Terrace	25	25	20	2040	100%	EA	1	\$6,459.26	\$2,520.05
10.06	Catch Basin		50	5	20	2040	100%	LF	50		\$1,070.90
10.07	18" RCP Pipe under Roadway  Curb Inlet	Solebury Terrace	25	25	20	2040	10%	EA	1	\$214.18 \$9,875.81	\$1,070.90
10.08	18" RCP Pipe under Roadway	Solebury Terrace Solebury Terrace	50	5	20	2040	100%	LF	50	\$214.18	\$9,875.81
11.00	SOLEBURY PLACE	Solebuly Terrace	30	5	20	2040	10%	LF	50	φ214.10	\$1,070.90
11.00	2" asphalt mill & overlay	Solebury Place	25	25	20	2040	100%	SY	3,640	\$19.68	\$71,635.20
11.02	Edge milling of pavement at curb and gutter	Solebury Place	25	25	20	2040	100%	LF	900	\$4.84	\$4,356.00
11.02	Asphalt seal coating	Solebury Place	11	11	11	2040	100%	SY	3,640	\$1.04	\$3,785.60
11.03	Asphalt patching	Solebury Place	6	5	1	2021	1%	SY	3,640	\$50.31	\$1,831.28
11.05	24"w concrete curb and gutter	Solebury Place	25	5	20	2040	10%	LF	900	\$77.54	\$6,978.60
11.06	24" RCP under roadway	Solebury Place	50	10	20	2040	10%	LF	75	\$230.49	\$1,728.68
11.07	Curb Inlet	Solebury Place	75	75	45	2065	100%	EA	1	\$9,875.81	\$9,875.81
11.08	18" RCP Pipe under Roadway	Solebury Place	50	10	20	2040	100%	LF	100	\$214.18	\$2,141.80
11.09	Curb Inlet	Solebury Place	75	75	45	2065	100%	EA	1	\$9,875.81	\$9,875.81
11.10	18" RCP Pipe under Roadway	Solebury Place	50	10	20	2040	100%	LF	100	\$214.18	\$2,141.80
11.10	i ipo diladi Madaway	Colobaly I lace	50	10	-0	2070	1070		100	Ψ217.10	Ψ2,171.00

### COMPONENT LIFECYCLE AND COSTING REED'S LANDING: ROAD RESERVES

	BASIC COMPONENT INFOR	PMATION	LIFE CYCLE				REPLACEMENT COST				
	BASIC COMPONENT INFOR	RMATION		LIFE	YCLE		LOCATION CCI	CCI 88.9 BASE CCI		88.9	
INE NUMBER	COMPONENT NAME	LOCATION	CURRENT ESTIMATED USEFUL LIFE (EUL)	REPLACEMENT INTERVAL AFTER FIRST REPLACEMENT	REMAINING USEFUL LIFE OR YEARS PAST DUE	NEXT REPLACEMENT YEAR	% OF TOTAL QUANTITY TO BE REPLACED	UNITS	QUANTITY OR COUNT	UNIT COST	REPLACEMENT COST, PER OCCURRENCE
12.00	ABERDEEN LANDING TERRACE										
12.01	2" asphalt mill & overlay	Aberdeen Landing Terrace	25	25	13	2033	100%	SY	4,185	\$19.68	\$82,360.80
12.02	Edge milling of pavement at curb and gutter	Aberdeen Landing Terrace	25	25	13	2033	100%	LF	1,150	\$4.84	\$5,566.00
12.03	Asphalt seal coating	Aberdeen Landing Terrace	7	5	1	2021	100%	SY	4,185	\$1.04	\$4,352.40
12.04	Asphalt patching	Aberdeen Landing Terrace	5	5	3	2023	100%	SY	42	\$15.59	\$652.44
12.05	Asphalt demo / restoration	Aberdeen Landing Terrace	25	25	23	2043	100%	LS	1	\$20,333.64	\$20,333.64
12.06	24"w concrete curb and gutter	Aberdeen Landing Terrace	10	5	4	2024	10%	LF	1,150	\$77.54	\$8,917.10
12.07	18" RCP Pipe under Roadway	Aberdeen Landing Terrace	50	25	18	2038	10%	LF	70	\$214.18	\$1,499.26
12.08	French drain	Aberdeen Landing Terrace	10	5	8	2028	100%	LF	50	\$53.17	\$2,649.46
13.00	ABERDEEN LANDING LANE										
13.01	2" asphalt mill & overlay	Aberdeen Landing Lane	25	25	13	2033	100%	SY	2,485	\$19.68	\$48,904.80
13.02	Edge milling of pavement at curb and gutter	Aberdeen Landing Lane	25	25	13	2033	100%	LF	950	\$4.84	\$4,598.00
13.03	Asphalt seal coating	Aberdeen Landing Lane	7	5	1	2021	100%	SY	2,485	\$1.04	\$2,584.40
13.04	Asphalt patching	Aberdeen Landing Lane	10	5	8	2028	1%	SY	2,485	\$50.31	\$1,250.20
13.05	24"w concrete curb and gutter	Aberdeen Landing Lane	30	5	0	2020	10%	LF	950	\$77.54	\$7,366.30
14.00	LITTLE CROFT PLACE										
14.01	2" asphalt mill & overlay	Little Croft Place	25	25	11	2031	100%	SY	1,415	\$19.68	\$27,847.20
14.02	Edge milling of pavement at curb and gutter	Little Croft Place	25	25	11	2031	100%	LF	490	\$4.84	\$2,371.60
14.03	Asphalt seal coating	Little Croft Place	9	9	4	2024	100%	SY	1,415	\$1.04	\$1,471.60
14.04	Asphalt patching	Little Croft Place	15	5	1	2021	1%	SY	1,415	\$50.31	\$711.89
14.05	24"w concrete curb and gutter	Little Croft Place	35	10	3	2023	5%	LF	490	\$77.54	\$1,899.73
15.00	BUCKHEAD ROAD										
15.01	2" asphalt mill & overlay	Buckhead Road	25	25	17	2037	100%	SY	3,285	\$19.68	\$64,648.80
15.02	Edge milling of pavement at curb and gutter	Buckhead Road	25	25	17	2037	100%	LF	245	\$4.84	\$1,185.80
15.03	Asphalt seal coating	Buckhead Road	5	5	2	2022	100%	SY	3,285	\$1.04	\$3,416.40
15.04	Asphalt patching	Buckhead Road	5	5	2	2022	1%	SY	3,285	\$50.31	\$1,652.68
15.05	24"w concrete curb and gutter	Buckhead Road	10	10	9	2029	10%	LF	245	\$77.54	\$1,899.73
15.06	Catch Basin	Buckhead Road	75	75	39	2059	100%	EA	1	\$6,459.26	\$6,459.26
15.07	18" RCP Pipe under Roadway	Buckhead Road	50	10	14	2034	10%	LF	40	\$214.18	\$856.72
16.00	BUCKHEAD COURT										
16.01	2" asphalt mill & overlay	Buckhead Court	25	25	17	2037	100%	SY	1,080	\$19.68	\$21,254.40
16.02	Edge milling of pavement at curb and gutter	Buckhead Court	25	25	17	2037	100%	LF	130	\$4.84	\$629.20
16.03	Asphalt seal coating	Buckhead Court	5	5	2	2022	100%	SY	1,080	\$1.04	\$1,123.20
16.04	Asphalt patching	Buckhead Court	5	5	5	2025	1%	SY	1,080	\$50.31	\$543.35
16.05	24"w concrete curb and gutter	Buckhead Court	10	10	9	2029	5%	LF	130	\$77.54	\$504.01
17.00	BUCKHEAD TERRACE										
17.01	2" asphalt mill & overlay	Buckhead Terrace	25	25	12	2032	100%	SY	6,110	\$19.68	\$120,244.80
17.02	Edge milling of pavement at curb and gutter	Buckhead Terrace	25	25	12	2032	100%	LF	910	\$4.84	\$4,404.40
17.03	Asphalt seal coating	Buckhead Terrace	5	5	3	2023	100%	SY	6,110	\$1.04	\$6,354.40
17.04	Asphalt patching	Buckhead Terrace	5	5	5	2025	1%	SY	6,110	\$50.31	\$3,073.94
17.05	24"w concrete curb and gutter	Buckhead Terrace	10	10	9	2029	5%	LF	910	\$77.54	\$3,528.07
17.06	24" RCP under roadway	Buckhead Terrace	50	10	14	2034	10%	LF	40	\$230.49	\$921.96
18.00	REED'S LANDING PARK										
18.01	2" asphalt mill & overlay	Reed's Landing Park	21	25	9	2029	100%	SY	1,400	\$19.68	\$27,552.00
18.02	Asphalt seal coating	Reed's Landing Park	7	7	2	2022	100%	SY	1,400	\$1.04	\$1,456.00
18.03	Asphalt patching	Reed's Landing Park	7	7	2	2022	5%	SY	1,400	\$50.31	\$3,521.70
19.00	ROAD ENGINEERING				_		- 7.5		.,	<b>4</b> 22121	72,223
19.01	Consulting engineering fees	Community-Wide	1	1	0	2020	100%	LS	1	\$12,450.00	\$12,450.00
. 0.0 1	Constantly originooning 1000	Community Wide		'		2020	10070		'	ψ12,π00.00	\$1,875,333.9



#### 2020

Sum of 2020			
LINE NUMBER	COMPONENT NAME	LOCATION	Total
4.04	Asphalt patching	Lansdowne Road	\$2,163
4.05	24"w concrete curb and gutter	Lansdowne Road	\$593
7.03	Asphalt patching	Turnley Lane	\$855
8.04	Asphalt patching	Dunleith Court	\$714
10.03	Asphalt seal coating	Solebury Terrace	\$2,974
10.04	Asphalt patching	Solebury Terrace	\$1,439
11.03	Asphalt seal coating	Solebury Place	\$3,786
13.05	24"w concrete curb and gutter	Aberdeen Landing Lane	\$7,366
16.04	Asphalt patching	Buckhead Court	\$543
17.04	Asphalt patching	Buckhead Terrace	\$3,074
19.01	Consulting engineering fees	Community-Wide	\$12,450
Grand Total			\$35,959

# **EXPENDITURE SUMMARY** REED'S LANDING: ROAD RESERVES

Values in the tables below include an inflation factor of 2.50%

Sum of 2021			
LINE NUMBER	COMPONENT NAME	LOCATION	Total
2.0	6 24"w concrete curb and gutter	Reed's Landing Circle	\$38,786
3.0	2 Asphalt seal coating	Stanford Court	\$4,013
3.0	3 Asphalt patching	Stanford Court	\$1,942
6.0	7 Concrete swale	Lansdowne Terrace	\$3,974
11.0	4 Asphalt patching	Solebury Place	\$1,877
12.0	3 Asphalt seal coating	Aberdeen Landing Terrace	\$4,461
13.0	3 Asphalt seal coating	Aberdeen Landing Lane	\$2,649
14.0	4 Asphalt patching	Little Croft Place	\$730
19.0	1 Consulting engineering fees	Community-Wide	\$12,761
Grand Total			\$71,193

Values in the tables below include an inflation factor of 2.50%

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Sum of 2022				
LINE NUMBER		COMPONENT NAME	LOCATION	l Total
	5.03	Asphalt patching	Lansdowne	Court \$740
15	5.03	Asphalt seal coating	Buckhead F	Road \$3,589
15	5.04	Asphalt patching	Buckhead F	Road \$1,736
10	6.03	Asphalt seal coating	Buckhead (	Court \$1,180
18	8.02	Asphalt seal coating	Reed's Lan	ding Park \$1,530
18	8.03	Asphalt patching	Reed's Lan	ding Park \$3,700
19	9.01	Consulting engineering fees	Community	-Wide \$13,080
Grand Total				\$25.556

1.04 Asphalt patching Reed's Landing Road \$1,796 1.05 Asphalt crack filling Reed's Landing Road \$4,458 2.03 Asphalt seal coating Reed's Landing Circle \$20,052 2.04 Asphalt patching Reed's Landing Circle \$49,208 2.05 Asphalt crack filling Reed's Landing Circle \$7,431 6.03 Asphalt seal coating Lansdowne Terrace \$3,002 6.04 Asphalt patching Lansdowne Terrace \$2,334 7.02 Asphalt seal coating Turnley Lane \$1,904 9.02 Asphalt seal coating Dunleith Terrace \$1,837 9.03 Asphalt patching Dunleith Terrace \$889 12.04 Asphalt patching Aberdeen Landing Terrace \$703 14.05 24"w concrete curb and gutter Little Croft Place \$2,046 17.03 Asphalt seal coating Buckhead Terrace \$6,843 19.01 Consulting engineering fees Community-Wide \$13,407	2023		values in the table	es below include an inhation factor o	2.50%
1.03 Asphalt seal coating Reed's Landing Road \$8,307 1.04 Asphalt patching Reed's Landing Road \$1,796 1.05 Asphalt crack filling Reed's Landing Road \$4,458 2.03 Asphalt seal coating Reed's Landing Circle \$20,052 2.04 Asphalt patching Reed's Landing Circle \$49,208 2.05 Asphalt crack filling Reed's Landing Circle \$7,431 6.03 Asphalt seal coating Lansdowne Terrace \$3,002 6.04 Asphalt patching Lansdowne Terrace \$2,334 7.02 Asphalt seal coating Turnley Lane \$1,904 9.02 Asphalt seal coating Dunleith Terrace \$1,837 9.03 Asphalt patching Dunleith Terrace \$889 12.04 Asphalt patching Aberdeen Landing Terrace \$703 14.05 24"w concrete curb and gutter Little Croft Place \$2,046 17.03 Asphalt seal coating Buckhead Terrace \$6,843 19.01 Consulting engineering fees Community-Wide \$13,407	Sum of 2023				
1.04 Asphalt patching Reed's Landing Road \$1,796 1.05 Asphalt crack filling Reed's Landing Road \$4,458 2.03 Asphalt seal coating Reed's Landing Circle \$20,052 2.04 Asphalt patching Reed's Landing Circle \$49,208 2.05 Asphalt crack filling Reed's Landing Circle \$7,431 6.03 Asphalt seal coating Lansdowne Terrace \$3,002 6.04 Asphalt patching Lansdowne Terrace \$2,334 7.02 Asphalt seal coating Turnley Lane \$1,904 9.02 Asphalt seal coating Dunleith Terrace \$1,837 9.03 Asphalt patching Dunleith Terrace \$889 12.04 Asphalt patching Aberdeen Landing Terrace \$703 14.05 24"w concrete curb and gutter Little Croft Place \$2,046 17.03 Asphalt seal coating Buckhead Terrace \$6,843 19.01 Consulting engineering fees Community-Wide \$13,407	LINE NUMBER	<b>COMPONENT NAME</b>		LOCATION	Total
1.05         Asphalt crack filling         Reed's Landing Road         \$4,458           2.03         Asphalt seal coating         Reed's Landing Circle         \$20,052           2.04         Asphalt patching         Reed's Landing Circle         \$49,208           2.05         Asphalt crack filling         Reed's Landing Circle         \$7,431           6.03         Asphalt seal coating         Lansdowne Terrace         \$3,002           6.04         Asphalt patching         Lansdowne Terrace         \$2,334           7.02         Asphalt seal coating         Turnley Lane         \$1,904           9.02         Asphalt seal coating         Dunleith Terrace         \$1,837           9.03         Asphalt patching         Dunleith Terrace         \$889           12.04         Asphalt patching         Aberdeen Landing Terrace         \$703           14.05         24"w concrete curb and gutter         Little Croft Place         \$2,046           17.03         Asphalt seal coating         Buckhead Terrace         \$6,843           19.01         Consulting engineering fees         Community-Wide         \$13,407	1.03	Asphalt seal coating		Reed's Landing Road	\$8,307
2.03         Asphalt seal coating         Reed's Landing Circle         \$20,052           2.04         Asphalt patching         Reed's Landing Circle         \$49,208           2.05         Asphalt crack filling         Reed's Landing Circle         \$7,431           6.03         Asphalt seal coating         Lansdowne Terrace         \$3,002           6.04         Asphalt patching         Lansdowne Terrace         \$2,334           7.02         Asphalt seal coating         Turnley Lane         \$1,904           9.02         Asphalt seal coating         Dunleith Terrace         \$1,837           9.03         Asphalt patching         Dunleith Terrace         \$889           12.04         Asphalt patching         Aberdeen Landing Terrace         \$703           14.05         24"w concrete curb and gutter         Little Croft Place         \$2,046           17.03         Asphalt seal coating         Buckhead Terrace         \$6,843           19.01         Consulting engineering fees         Community-Wide         \$13,407	1.04	Asphalt patching		Reed's Landing Road	\$1,796
2.04         Asphalt patching         Reed's Landing Circle         \$49,208           2.05         Asphalt crack filling         Reed's Landing Circle         \$7,431           6.03         Asphalt seal coating         Lansdowne Terrace         \$3,002           6.04         Asphalt patching         Lansdowne Terrace         \$2,334           7.02         Asphalt seal coating         Turnley Lane         \$1,904           9.02         Asphalt seal coating         Dunleith Terrace         \$1,837           9.03         Asphalt patching         Dunleith Terrace         \$889           12.04         Asphalt patching         Aberdeen Landing Terrace         \$703           14.05         24"w concrete curb and gutter         Little Croft Place         \$2,046           17.03         Asphalt seal coating         Buckhead Terrace         \$6,843           19.01         Consulting engineering fees         Community-Wide         \$13,407	1.05	Asphalt crack filling		Reed's Landing Road	\$4,458
2.05         Asphalt crack filling         Reed's Landing Circle         \$7,431           6.03         Asphalt seal coating         Lansdowne Terrace         \$3,002           6.04         Asphalt patching         Lansdowne Terrace         \$2,334           7.02         Asphalt seal coating         Turnley Lane         \$1,904           9.02         Asphalt seal coating         Dunleith Terrace         \$1,837           9.03         Asphalt patching         Dunleith Terrace         \$889           12.04         Asphalt patching         Aberdeen Landing Terrace         \$703           14.05         24"w concrete curb and gutter         Little Croft Place         \$2,046           17.03         Asphalt seal coating         Buckhead Terrace         \$6,843           19.01         Consulting engineering fees         Community-Wide         \$13,407	2.03	Asphalt seal coating		Reed's Landing Circle	\$20,052
6.03 Asphalt seal coating Lansdowne Terrace \$3,002 6.04 Asphalt patching Lansdowne Terrace \$2,334 7.02 Asphalt seal coating Turnley Lane \$1,904 9.02 Asphalt seal coating Dunleith Terrace \$1,837 9.03 Asphalt patching Dunleith Terrace \$889 12.04 Asphalt patching Aberdeen Landing Terrace \$703 14.05 24"w concrete curb and gutter Little Croft Place \$2,046 17.03 Asphalt seal coating Buckhead Terrace \$6,843 19.01 Consulting engineering fees Community-Wide \$13,407	2.04	Asphalt patching		Reed's Landing Circle	\$49,208
6.04 Asphalt patching         Lansdowne Terrace         \$2,334           7.02 Asphalt seal coating         Turnley Lane         \$1,904           9.02 Asphalt seal coating         Dunleith Terrace         \$1,837           9.03 Asphalt patching         Dunleith Terrace         \$889           12.04 Asphalt patching         Aberdeen Landing Terrace         \$703           14.05 24"w concrete curb and gutter         Little Croft Place         \$2,046           17.03 Asphalt seal coating         Buckhead Terrace         \$6,843           19.01 Consulting engineering fees         Community-Wide         \$13,407	2.05	Asphalt crack filling		Reed's Landing Circle	\$7,431
7.02 Asphalt seal coating         Turnley Lane         \$1,904           9.02 Asphalt seal coating         Dunleith Terrace         \$1,837           9.03 Asphalt patching         Dunleith Terrace         \$889           12.04 Asphalt patching         Aberdeen Landing Terrace         \$703           14.05 24"w concrete curb and gutter         Little Croft Place         \$2,046           17.03 Asphalt seal coating         Buckhead Terrace         \$6,843           19.01 Consulting engineering fees         Community-Wide         \$13,407	6.03	Asphalt seal coating		Lansdowne Terrace	\$3,002
9.02 Asphalt seal coating         Dunleith Terrace         \$1,837           9.03 Asphalt patching         Dunleith Terrace         \$889           12.04 Asphalt patching         Aberdeen Landing Terrace         \$703           14.05 24"w concrete curb and gutter         Little Croft Place         \$2,046           17.03 Asphalt seal coating         Buckhead Terrace         \$6,843           19.01 Consulting engineering fees         Community-Wide         \$13,407	6.04	Asphalt patching		Lansdowne Terrace	\$2,334
9.03 Asphalt patching Dunleith Terrace \$889 12.04 Asphalt patching Aberdeen Landing Terrace \$703 14.05 24"w concrete curb and gutter Little Croft Place \$2,046 17.03 Asphalt seal coating Buckhead Terrace \$6,843 19.01 Consulting engineering fees Community-Wide \$13,407	7.02	Asphalt seal coating		Turnley Lane	\$1,904
12.04 Asphalt patching 14.05 24"w concrete curb and gutter 17.03 Asphalt seal coating 19.01 Consulting engineering fees  Aberdeen Landing Terrace \$7.03 \$2,046 \$2,046 Buckhead Terrace \$6,843 Community-Wide \$13,407	9.02	Asphalt seal coating		Dunleith Terrace	\$1,837
14.05     24"w concrete curb and gutter     Little Croft Place     \$2,046       17.03     Asphalt seal coating     Buckhead Terrace     \$6,843       19.01     Consulting engineering fees     Community-Wide     \$13,407	9.03	Asphalt patching		Dunleith Terrace	\$889
17.03 Asphalt seal coating     Buckhead Terrace     \$6,843       19.01 Consulting engineering fees     Community-Wide     \$13,407	12.04	Asphalt patching		Aberdeen Landing Terrace	\$703
19.01 Consulting engineering fees Community-Wide \$13,407	14.05	24"w concrete curb a	and gutter	Little Croft Place	\$2,046
, , ,	17.03	Asphalt seal coating		Buckhead Terrace	\$6,843
Grand Total \$124,215	19.01	Consulting engineer	ing fees	Community-Wide	\$13,407
	Grand Total				\$124,215

Values in the tables below include an inflation factor of 2.50%

Sum of 2024			
LINE NUMBER	COMPONENT NAME	LOCATION	Total
5.02	Asphalt seal coating	Lansdowne Court	\$1,607
12.06	24"w concrete curb and gutter	Aberdeen Landing Terrace	\$9,843
14.03	Asphalt seal coating	Little Croft Place	\$1,624
19.01	Consulting engineering fees	Community-Wide	\$13,742
Grand Total			\$26.817

2025				
Sum of 2025				
LINE NUMBE	R	COMPONENT NAME	LOCATION	Total
	4.04	Asphalt patching	Lansdowne Road	\$2,448
	7.03	Asphalt patching	Turnley Lane	\$968
	7.04	18" RCP under roadway	Turnley Lane	\$969
	8.03	Asphalt seal coating	Dunleith Court	\$1,671
	8.04	Asphalt patching	Dunleith Court	\$808
	10.03	Asphalt seal coating	Solebury Terrace	\$3,365
	10.04	Asphalt patching	Solebury Terrace	\$1,628
	13.05	24"w concrete curb and gutter	Aberdeen Landing Lane	\$8,334
	16.04	Asphalt patching	Buckhead Court	\$615
	17.04	Asphalt patching	Buckhead Terrace	\$3,478
	19.01	Consulting engineering fees	Community-Wide	\$14,086
Grand Total				\$38,370

Values in the tables below include an inflation factor of 2.50%

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Sum of 2026			
LINE NUMBER	COMPONENT NAME	LOCATION	Total
1.0	7 Brick Roadway Pavement	Reed's Landing Road	\$28,849
2.00	3 24"w concrete curb and gutter	Reed's Landing Circle	\$43,882
2.08	3 Twin 48" RCP Pipes under Roadwa	Reed's Landing Circle	\$11,310
3.02	2 Asphalt seal coating	Stanford Court	\$4,541
3.03	3 Asphalt patching	Stanford Court	\$2,197
4.0	2" asphalt mill & overlay	Lansdowne Road	\$98,138
4.02	2 Edge milling of pavement at curb a	Lansdowne Road	\$859
11.04	Asphalt patching	Solebury Place	\$2,124
12.03	3 Asphalt seal coating	Aberdeen Landing Terrace	\$5,047
13.0	3 Asphalt seal coating	Aberdeen Landing Lane	\$2,997
14.04	Asphalt patching	Little Croft Place	\$826
19.0°	Consulting engineering fees	Community-Wide	\$14,438
Grand Total			\$215.208

2027			
Sum of 2027			
LINE NUMBER	COMPONENT NAME	LOCATION	Total
5.01	2" asphalt mill & overlay	Lansdowne Court	\$32,751
15.03	Asphalt seal coating	Buckhead Road	\$4,061
15.04	Asphalt patching	Buckhead Road	\$1,965
16.03	Asphalt seal coating	Buckhead Court	\$1,335
19.01	Consulting engineering fees	Community-Wide	\$14,799
Grand Total			\$54,910

Values in the tables below include an inflation factor of 2.50%

Sum of 2028			
LINE NUMBER	COMPONENT NAME	LOCATION	Total
1.03	Asphalt seal coating	Reed's Landing Road	\$9,399
1.04	Asphalt patching	Reed's Landing Road	\$2,032
1.05	Asphalt crack filling	Reed's Landing Road	\$5,044
2.01	2" asphalt mill & overlay	Reed's Landing Circle	\$477,405
2.02	Edge milling of pavement at curb a	Reed's Landing Circle	\$28,778
2.05	Asphalt crack filling	Reed's Landing Circle	\$8,407
6.03	Asphalt seal coating	Lansdowne Terrace	\$3,396
6.04	Asphalt patching	Lansdowne Terrace	\$2,640
7.02	Asphalt seal coating	Turnley Lane	\$2,154
9.02	Asphalt seal coating	Dunleith Terrace	\$2,078
9.03	Asphalt patching	Dunleith Terrace	\$1,005
12.04	Asphalt patching	Aberdeen Landing Terrace	\$795
12.08	French drain	Aberdeen Landing Terrace	\$3,228
13.04	Asphalt patching	Aberdeen Landing Lane	\$1,523
17.03	Asphalt seal coating	Buckhead Terrace	\$7,742
19.01	Consulting engineering fees	Community-Wide	\$15,169
Grand Total			\$570,797

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12.06 24"w concrete curb and gutter 15.05 24"w concrete curb and gutter Buckhead Road \$	ıtal
15.05 24"w concrete curb and gutter Buckhead Road \$	, cai
	11,136
16.05 24"w concrete curb and gutter Buckhead Court	\$2,373
	\$629
17.05 24"w concrete curb and gutter Buckhead Terrace \$	\$4,406
18.01 2" asphalt mill & overlay Reed's Landing Park \$3	34,409
19.01 Consulting engineering fees Community-Wide \$1	15,548
Grand Total \$6	8,501

Values in the tables below include an inflation factor of 2.50%

#### 2030

2000			
Sum of 2030			
LINE NUMBER	COMPONENT NAME	LOCATION	Total
4.03	Asphalt seal coating	Lansdowne Road	\$5,725
4.04	Asphalt patching	Lansdowne Road	\$2,769
4.05	24"w concrete curb and gutter	Lansdowne Road	\$759
7.03	Asphalt patching	Turnley Lane	\$1,095
10.03	Asphalt seal coating	Solebury Terrace	\$3,807
10.04	Asphalt patching	Solebury Terrace	\$1,842
13.05	24"w concrete curb and gutter	Aberdeen Landing Lane	\$9,429
16.04	Asphalt patching	Buckhead Court	\$696
17.04	Asphalt patching	Buckhead Terrace	\$3,935
19.01	Consulting engineering fees	Community-Wide	\$15,937
Grand Total			\$45,994

Sum of 2031				
LINE NUMBER	R	COMPONENT NAME	LOCATION	Total
	1.08	Brick Curb	Reed's Landing Road	\$677
	1.09	Brick Walks	Reed's Landing Road	\$7,109
	1.11	Twin 48" RCP Pipes under Roadwa	Reed's Landing Rd. @ Stanford Ct.	\$17,719
	2.06	24"w concrete curb and gutter	Reed's Landing Circle	\$49,649
	2.07	48" RCP Pipe under Roadway	Reed's Landing Circle	\$7,087
	2.09	18" RCP Pipe under Roadway	Reed's Landing Circle	\$2,698
	2.11	18" RCP Pipe parallel to Roadway	Reed's Landing Circle	\$5,901
	3.01	2" asphalt mill & overlay	Stanford Court	\$97,219
	4.07	18" RCP Pipe under Roadway	Lansdowne Road	\$1,265
	4.08	36" RCP under roadway	Lansdowne Road	\$7,087
	4.09	36" RCP under roadway	Lansdowne Road	\$7,875
	4.10	36" RCP under roadway	Lansdowne Road	\$8,859
	5.02	Asphalt seal coating	Lansdowne Court	\$1,910
	6.01	2" asphalt mill & overlay	Lansdowne Terrace	\$69,203
	6.02	Edge milling of pavement at curb a	Lansdowne Terrace	\$762
	6.06	24" RCP under roadway	Lansdowne Terrace	\$1,361
	11.03	Asphalt seal coating	Solebury Place	\$4,967
	11.04	Asphalt patching	Solebury Place	\$2,403
	12.03	Asphalt seal coating	Aberdeen Landing Terrace	\$5,711
	13.03	Asphalt seal coating	Aberdeen Landing Lane	\$3,391
	14.01	2" asphalt mill & overlay	Little Croft Place	\$36,538
	14.02	Edge milling of pavement at curb a	Little Croft Place	\$3,112
	14.04	Asphalt patching	Little Croft Place	\$934
	19.01	Consulting engineering fees	Community-Wide	\$16,335
Grand Total				\$359,772

Values in the tables below include an inflation factor of 2.50%

Sum of 2032				
LINE NUMBE	R	COMPONENT NAME	LOCATION	Total
	5.03	Asphalt patching	Lansdowne Court	\$947
	7.01	2" asphalt mill & overlay	Turnley Lane	\$44,995
	8.01	2" asphalt mill & overlay	Dunleith Court	\$37,584
	8.02	Edge milling of pavement at curb a	Dunleith Court	\$1,888
	8.05	24"w concrete curb and gutter	Dunleith Court	\$1,512
	9.01	2" asphalt mill & overlay	Dunleith Terrace	\$43,407
	15.03	Asphalt seal coating	Buckhead Road	\$4,595
	15.04	Asphalt patching	Buckhead Road	\$2,223
	16.03	Asphalt seal coating	Buckhead Court	\$1,511
	17.01	2" asphalt mill & overlay	Buckhead Terrace	\$161,716
	17.02	Edge milling of pavement at curb a	Buckhead Terrace	\$5,923
	19.01	Consulting engineering fees	Community-Wide	\$16,744
<b>Grand Total</b>				\$323,043

		values in the table	o below include an initiation lactor of	2.0070
2033				
Sum of 2033				
LINE NUMBER	COMPONENT NAME		LOCATION	Total
2.03	Asphalt seal coating		Reed's Landing Circle	\$25,668
2.04	Asphalt patching		Reed's Landing Circle	\$62,990
2.05	Asphalt crack filling		Reed's Landing Circle	\$9,512
6.03	Asphalt seal coating		Lansdowne Terrace	\$3,842
6.04	Asphalt patching		Lansdowne Terrace	\$2,987
9.02	2 Asphalt seal coating		Dunleith Terrace	\$2,351
9.03	8 Asphalt patching		Dunleith Terrace	\$1,137
12.01	2" asphalt mill & over	rlay	Aberdeen Landing Terrace	\$113,535
12.02	2 Edge milling of paver	ment at curb a	Aberdeen Landing Terrace	\$7,673
12.04	Asphalt patching		Aberdeen Landing Terrace	\$899
12.08	French drain		Aberdeen Landing Terrace	\$3,652
13.01	2" asphalt mill & ove	rlay	Aberdeen Landing Lane	\$67,416
13.02	Edge milling of paver	ment at curb a	Aberdeen Landing Lane	\$6,338
13.04	Asphalt patching		Aberdeen Landing Lane	\$1,723
14.03	Asphalt seal coating		Little Croft Place	\$2,029
14.05	24"w concrete curb a	and gutter	Little Croft Place	\$2,619
17.03	Asphalt seal coating		Buckhead Terrace	\$8,760
19.01	Consulting engineeri	ng fees	Community-Wide	\$17,162
<b>Grand Total</b>				\$340,295

Values in the tables below include an inflation factor of 2.50%

Sum of 2034			
LINE NUMBER	COMPONENT NAME	LOCATION	Total
12.06	24"w concrete curb and gutter	Aberdeen Landing Terrace	\$12,600
15.07	18" RCP Pipe under Roadway	Buckhead Road	\$1,211
17.06	24" RCP under roadway	Buckhead Terrace	\$1,303
19.01	Consulting engineering fees	Community-Wide	\$17,592
Grand Total			\$32,704

2035	values in the tables i	below include an initiation factor o	1 2.50 /6
Sum of 2035			
LINE NUMBER	COMPONENT NAME	LOCATION	Total
1.0	1 2" asphalt mill & overlay	Reed's Landing Road	\$177,856
1.0	Edge milling of pavement at curb	a Reed's Landing Road	\$6,519
3.0	1 24" RCP under roadway	Stanford Court	\$1,202
3.0	18" RCP Pipe under Roadway	Stanford Court	\$1,396
4.0	Asphalt seal coating	Lansdowne Road	\$6,477
4.0	Asphalt patching	Lansdowne Road	\$3,133
6.0	24"w concrete curb and gutter	Lansdowne Terrace	\$1,348
7.0	Asphalt patching	Turnley Lane	\$1,239
7.0	1 18" RCP under roadway	Turnley Lane	\$1,241
8.0	Asphalt seal coating	Dunleith Court	\$2,139
8.0	Asphalt patching	Dunleith Court	\$1,035
10.0	Asphalt seal coating	Solebury Terrace	\$4,308
10.0	Asphalt patching	Solebury Terrace	\$2,084
13.0	24"w concrete curb and gutter	Aberdeen Landing Lane	\$10,669
16.0	Asphalt patching	Buckhead Court	\$787
17.0	Asphalt patching	Buckhead Terrace	\$4,452
19.0	Consulting engineering fees	Community-Wide	\$18,031
Grand Total			\$243,913

Values in the tables below include an inflation factor of 2.50%

Sum of 2036			
LINE NUMBER	COMPONENT NAME	LOCATION	Total
1.08	Brick Curb	Reed's Landing Road	\$766
2.06	24"w concrete curb and gutter	Reed's Landing Circle	\$56,173
2.08	Twin 48" RCP Pipes under Roadwa	Reed's Landing Circle	\$14,478
3.02	Asphalt seal coating	Stanford Court	\$5,813
3.03	Asphalt patching	Stanford Court	\$2,812
4.07	18" RCP Pipe under Roadway	Lansdowne Road	\$1,431
4.08	36" RCP under roadway	Lansdowne Road	\$8,019
4.09	36" RCP under roadway	Lansdowne Road	\$8,910
11.04	Asphalt patching	Solebury Place	\$2,719
12.03	Asphalt seal coating	Aberdeen Landing Terrace	\$6,461
13.03	Asphalt seal coating	Aberdeen Landing Lane	\$3,837
14.04	Asphalt patching	Little Croft Place	\$1,057
18.02	Asphalt seal coating	Reed's Landing Park	\$2,161
18.03	Asphalt patching	Reed's Landing Park	\$5,228
19.01	Consulting engineering fees	Community-Wide	\$18,482
Grand Total			\$138,346

2037			
Sum of 2037			
LINE NUMBER	COMPONENT NAME	LOCATION	Total
5.0	Asphalt patching	Lansdowne Court	\$1,072
8.0	24"w concrete curb and gutter	Dunleith Court	\$1,711
15.0	2" asphalt mill & overlay	Buckhead Road	\$98,371
15.0	2 Edge milling of pavement at curb a	Buckhead Road	\$1,804
15.0	3 Asphalt seal coating	Buckhead Road	\$5,198
15.0	Asphalt patching	Buckhead Road	\$2,515
16.0	2" asphalt mill & overlay	<b>Buckhead Court</b>	\$32,341
16.0	Edge milling of pavement at curb a	Buckhead Court	\$957
16.0	3 Asphalt seal coating	<b>Buckhead Court</b>	\$1,709
19.0	Consulting engineering fees	Community-Wide	\$18,944
<b>Grand Total</b>			\$164,623

Values in the tables below include an inflation factor of 2.50%

Sum of 2038		
LINE NUMBER COMPONENT NAME	E LOCATION	Total
1.03 Asphalt seal coating	g Reed's Landing Road	\$12,031
1.04 Asphalt patching	Reed's Landing Road	\$2,602
1.05 Asphalt crack filling	Reed's Landing Road	\$6,457
2.03 Asphalt seal coating	g Reed's Landing Circle	\$29,041
2.04 Asphalt patching	Reed's Landing Circle	\$71,267
2.05 Asphalt crack filling	Reed's Landing Circle	\$10,762
5.02 Asphalt seal coating	g Lansdowne Court	\$2,271
6.03 Asphalt seal coating	g Lansdowne Terrace	\$4,347
6.04 Asphalt patching	Lansdowne Terrace	\$3,380
7.02 Asphalt seal coating	g Turnley Lane	\$2,757
9.02 Asphalt seal coating	g Dunleith Terrace	\$2,660
9.03 Asphalt patching	Dunleith Terrace	\$1,287
12.04 Asphalt patching	Aberdeen Landing Terrace	\$1,018
12.07 18" RCP Pipe under	r Roadway Aberdeen Landing Terrace	\$2,338
12.08 French drain	Aberdeen Landing Terrace	\$4,132
13.04 Asphalt patching	Aberdeen Landing Lane	\$1,950
17.03 Asphalt seal coating	g Buckhead Terrace	\$9,911
19.01 Consulting enginee	ring fees Community-Wide	\$19,418
Grand Total		\$187,629

2039	values in the te		. 2.0070
Sum of 2039			
LINE NUMBER	COMPONENT NAME	LOCATION	Total
12.06	24"w concrete curb and gutter	Aberdeen Landing Terrace	\$14,255
15.05	24"w concrete curb and gutter	Buckhead Road	\$3,037
16.05	24"w concrete curb and gutter	Buckhead Court	\$806
17.05	24"w concrete curb and gutter	Buckhead Terrace	\$5,640
19.01	Consulting engineering fees	Community-Wide	\$19,903
<b>Grand Total</b>			\$43,641

Values in the tables below include an inflation factor of 2.50%

LINE NUMBER COMPONENT NAME LOCATION  3.04 24" RCP under roadway Stanford Court  3.05 18" RCP Pipe under Roadway Stanford Court	<b>Total</b> \$1,360
3.05 18" RCP Pipe under Roadway Stanford Court	\$1.360
	. ,
	\$1,579
4.03 Asphalt seal coating Lansdowne Road	\$7,328
4.04 Asphalt patching Lansdowne Road	\$3,545
4.05 24"w concrete curb and gutter Lansdowne Road	\$972
6.05 24"w concrete curb and gutter Lansdowne Terrace	\$1,525
7.03 Asphalt patching Turnley Lane	\$1,401
8.03 Asphalt seal coating Dunleith Court	\$2,420
8.04 Asphalt patching Dunleith Court	\$1,171
10.01 2" asphalt mill & overlay Solebury Terrace	\$92,229
10.02 Edge milling of pavement at curb a Solebury Terrace	\$5,155
10.03 Asphalt seal coating Solebury Terrace	\$4,874
10.04 Asphalt patching Solebury Terrace	\$2,358
10.05 24"w concrete curb and gutter Solebury Terrace	\$4,129
10.06 Catch Basin Solebury Terrace	\$10,584
10.07 18" RCP Pipe under Roadway Solebury Terrace	\$1,755
10.08 Curb Inlet Solebury Terrace	\$16,183
10.09 18" RCP Pipe under Roadway Solebury Terrace	\$1,755
11.01 2" asphalt mill & overlay Solebury Place	\$117,383
11.02 Edge milling of pavement at curb a Solebury Place	\$7,138
11.05 24"w concrete curb and gutter Solebury Place	\$11,435
11.06 24" RCP under roadway Solebury Place	\$2,833
11.08 18" RCP Pipe under Roadway Solebury Place	\$3,510
11.10 18" RCP Pipe under Roadway Solebury Place	\$3,510
13.05 24"w concrete curb and gutter Aberdeen Landing Lane	
16.04 Asphalt patching Buckhead Court	\$890
17.04 Asphalt patching Buckhead Terrace	\$5,037
19.01 Consulting engineering fees Community-Wide Grand Total	\$20,401
	\$344,528

	Values	in the tables below include an initiation lactor o	1 2.0070
2041			
Sum of 2041			
LINE NUMBER	COMPONENT NAME	LOCATION	Total
1.08	Brick Curb	Reed's Landing Road	\$867
1.11	Twin 48" RCP Pipes under Roadwa	Reed's Landing Rd. @ Stanford Ct.	\$22,681
2.06	24"w concrete curb and gutter	Reed's Landing Circle	\$63,555
2.07	48" RCP Pipe under Roadway	Reed's Landing Circle	\$9,073
2.09	18" RCP Pipe under Roadway	Reed's Landing Circle	\$3,453
2.11	18" RCP Pipe parallel to Roadway	Reed's Landing Circle	\$7,554
3.02	Asphalt seal coating	Stanford Court	\$6,577
3.03	Asphalt patching	Stanford Court	\$3,181
4.07	18" RCP Pipe under Roadway	Lansdowne Road	\$1,619
4.08	36" RCP under roadway	Lansdowne Road	\$9,073
4.09	36" RCP under roadway	Lansdowne Road	\$10,081
6.06	24" RCP under roadway	Lansdowne Terrace	\$1,742
11.04	Asphalt patching	Solebury Place	\$3,076
12.03	Asphalt seal coating	Aberdeen Landing Terrace	\$7,310
13.03	Asphalt seal coating	Aberdeen Landing Lane	\$4,341
14.04	Asphalt patching	Little Croft Place	\$1,196
19.01	Consulting engineering fees	Community-Wide	\$20,911
<b>Grand Total</b>			\$176,288

Values in the tables below include an inflation factor of 2.50%

2042			
Sum of 2042			
LINE NUMBER	COMPONENT NAME	LOCATION	Total
5.03	Asphalt patching	Lansdowne Court	\$1,213
8.05	24"w concrete curb and gutter	Dunleith Court	\$1,936
11.03	Asphalt seal coating	Solebury Place	\$6,517
14.03	Asphalt seal coating	Little Croft Place	\$2,533
15.03	Asphalt seal coating	Buckhead Road	\$5,882
15.04	Asphalt patching	Buckhead Road	\$2,845
16.03	Asphalt seal coating	Buckhead Court	\$1,934
19.01	Consulting engineering fees	Community-Wide	\$21,434
Grand Total			\$44,293

2043		values in the table	s below include an initation factor o	2.50%
Sum of 2043				
LINE NUMBER COM	MPONENT NAME		LOCATION	Total
1.03 Asp	halt seal coating		Reed's Landing Road	\$13,612
1.04 Asp	halt patching		Reed's Landing Road	\$2,944
1.05 Asp	halt crack filling		Reed's Landing Road	\$7,305
2.03 Asp	halt seal coating		Reed's Landing Circle	\$32,857
2.04 Asp	halt patching		Reed's Landing Circle	\$80,633
2.05 Asp	halt crack filling		Reed's Landing Circle	\$12,176
6.03 Asp	halt seal coating		Lansdowne Terrace	\$4,918
6.04 Asp	halt patching		Lansdowne Terrace	\$3,824
7.02 Asp	halt seal coating		Turnley Lane	\$3,120
9.02 Asp	halt seal coating		Dunleith Terrace	\$3,010
	halt patching		Dunleith Terrace	\$1,456
	halt patching		Aberdeen Landing Terrace	\$1,151
	halt demo / restor	ation	Aberdeen Landing Terrace	\$35,881
12.08 Fren			Aberdeen Landing Terrace	\$4,675
	halt patching		Aberdeen Landing Lane	\$2,206
	w concrete curb a	nd gutter	Little Croft Place	\$3,352
	halt seal coating		Buckhead Terrace	\$11,213
	halt seal coating		Reed's Landing Park	\$2,569
	halt patching		Reed's Landing Park	\$6,214
	sulting engineerii	ng fees	Community-Wide	\$21,969
Grand Total				\$255,087

Values in the tables below include an inflation factor of 2.50%

20	A	A
ZU	4	4

Sum of 2044			
LINE NUMBER	COMPONENT NAME	LOCATION	Total
1.06	24"w concrete curb and gutter	Reed's Landing Road	\$2,609
12.06	24"w concrete curb and gutter	Aberdeen Landing Terrace	\$16,129
15.07	18" RCP Pipe under Roadway	Buckhead Road	\$1,550
17.06	24" RCP under roadway	Buckhead Terrace	\$1,668
19.01	Consulting engineering fees	Community-Wide	\$22,519
Grand Total			\$44,473

2045	values in the tuble	3 Delow include art iffiliation factor of	2.0070
Sum of 2045			
LINE NUMBER	COMPONENT NAME	LOCATION	Total
3.04	24" RCP under roadway	Stanford Court	\$1,538
3.05	18" RCP Pipe under Roadway	Stanford Court	\$1,787
4.03	Asphalt seal coating	Lansdowne Road	\$8,291
4.04	Asphalt patching	Lansdowne Road	\$4,011
5.02	Asphalt seal coating	Lansdowne Court	\$2,699
6.05	24"w concrete curb and gutter	Lansdowne Terrace	\$1,725
7.03	Asphalt patching	Turnley Lane	\$1,586
7.04	18" RCP under roadway	Turnley Lane	\$1,588
8.03	Asphalt seal coating	Dunleith Court	\$2,738
8.04	Asphalt patching	Dunleith Court	\$1,324
10.03	Asphalt seal coating	Solebury Terrace	\$5,514
	Asphalt patching	Solebury Terrace	\$2,668
10.05	24"w concrete curb and gutter	Solebury Terrace	\$4,672
	18" RCP Pipe under Roadway	Solebury Terrace	\$1,985
	18" RCP Pipe under Roadway	Solebury Terrace	\$1,985
11.05	24"w concrete curb and gutter	Solebury Place	\$12,938
13.05	24"w concrete curb and gutter	Aberdeen Landing Lane	\$13,657
	Asphalt patching	Buckhead Court	\$1,007
	Asphalt patching	Buckhead Terrace	\$5,699
	Consulting engineering fees	Community-Wide	\$23,082
Grand Total			\$100,495

Values in the tables below include an inflation factor of 2.50%

2	0	4	6

Sum of 2046			
LINE NUMBER	COMPONENT NAME	LOCATION	Total
1.0	8 Brick Curb	Reed's Landing Road	\$981
2.0	6 24"w concrete curb and gutter	Reed's Landing Circle	\$71,906
2.0	8 Twin 48" RCP Pipes under Roadwa	Reed's Landing Circle	\$18,534
3.0	2 Asphalt seal coating	Stanford Court	\$7,441
3.0	3 Asphalt patching	Stanford Court	\$3,599
4.0	7 18" RCP Pipe under Roadway	Lansdowne Road	\$1,832
4.0	8 36" RCP under roadway	Lansdowne Road	\$10,265
4.0	9 36" RCP under roadway	Lansdowne Road	\$11,405
4.1	1 Bank Restoration with rip-rap alon	Lansdowne Road	\$16,115
6.0	7 Concrete swale	Lansdowne Terrace	\$7,367
11.0	4 Asphalt patching	Solebury Place	\$3,480
12.0	3 Asphalt seal coating	Aberdeen Landing Terrace	\$8,271
13.0	3 Asphalt seal coating	Aberdeen Landing Lane	\$4,911
	4 Asphalt patching	Little Croft Place	\$1,353
19.0	1 Consulting engineering fees	Community-Wide	\$23,659
Grand Total			\$191,118

2047			
Sum of 2047			
LINE NUMBER	COMPONENT NAME	LOCATION	Total
5.03	3 Asphalt patching	Lansdowne Court	\$1,372
8.05	24"w concrete curb and gutter	Dunleith Court	\$2,190
15.03	Asphalt seal coating	Buckhead Road	\$6,654
15.04	Asphalt patching	Buckhead Road	\$3,219
16.03	Asphalt seal coating	Buckhead Court	\$2,188
19.01	Consulting engineering fees	Community-Wide	\$24,250
Grand Total			\$39,873

Values in the tables below include an inflation factor of 2.50%

Sum of 2048			
LINE NUMBER	COMPONENT NAME	LOCATION	Total
1.	03 Asphalt seal coating	Reed's Landing Road	\$15,401
1.	04 Asphalt patching	Reed's Landing Road	\$3,330
1.	05 Asphalt crack filling	Reed's Landing Road	\$8,265
2.	03 Asphalt seal coating	Reed's Landing Circle	\$37,175
2.	04 Asphalt patching	Reed's Landing Circle	\$91,228
2.	05 Asphalt crack filling	Reed's Landing Circle	\$13,776
6.	03 Asphalt seal coating	Lansdowne Terrace	\$5,565
6.	04 Asphalt patching	Lansdowne Terrace	\$4,326
7.	02 Asphalt seal coating	Turnley Lane	\$3,530
9.	02 Asphalt seal coating	Dunleith Terrace	\$3,405
9.	03 Asphalt patching	Dunleith Terrace	\$1,647
12.	04 Asphalt patching	Aberdeen Landing Terrace	\$1,303
12.	08 French drain	Aberdeen Landing Terrace	\$5,290
13.	04 Asphalt patching	Aberdeen Landing Lane	\$2,496
17.	03 Asphalt seal coating	Buckhead Terrace	\$12,687
19.	01 Consulting engineering fees	Community-Wide	\$24,856
Grand Total			\$234,280

2049			
Sum of 2049			
LINE NUMBER	COMPONENT NAME	LOCATION	Total
1.06	24"w concrete curb and gutter	Reed's Landing Road	\$2,951
12.06	24"w concrete curb and gutter	Aberdeen Landing Terrace	\$18,248
15.05	24"w concrete curb and gutter	Buckhead Road	\$3,888
16.05	24"w concrete curb and gutter	Buckhead Court	\$1,031
17.05	24"w concrete curb and gutter	Buckhead Terrace	\$7,220
Grand Total			\$33,338



# HISTORIC FUNDING ANALYSIS REED'S LANDING: ROAD RESERVES

#### Historic Funding Analysis (a.k.a. Component Methodology or Full Funding Method)

The Historic Funding Analysis is a simple way to assess the adequacy of the Reserve Account to fund all of the scheduled components at this point in time.

It uses the Component Funding Method, which is simple straight line depreciation based on the current replacement value of the each component divided by the component's estimated useful life. This yields an annualized fund cost for each component. The sum of all of these costs yields the <u>Total Annual Component Cost</u> or the sum that should have been contributed in each year to fund all of these components.

The annualized component cost for each component multiplied by its age in years yields the expected reserve fund balance for each component if it were being funded separately. The sum of all of these amounts produces the <a href="Expected Reserve Account Balance"><u>Expected Reserve Account Balance in the Study Year.</u></a>

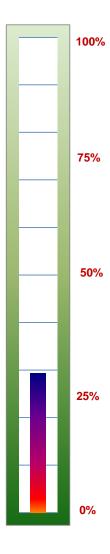
We then take your <u>Actual Reserve Fund Account Balance</u> and divide it by the <u>Expected Reserve Account Fund Balance</u> to determine the <u>Adequacy of the Reserve Account</u> at this point in time.

The <u>Required Contribution in the Study Year</u> is computed by summing up the deficient amounts for each component. To do this, the actual fund balance is distributed to each component in proportion to the component's annualized cost and then that amount is subtracted from the expected reserve account balance for each component. This results in the deficiency in funding for each component.

Total Annual Component Cost (Fully Funded First Year Contribution):\$110,493.41Expected Reserve Fund Account Balance In the Study Year:\$1,017,486.15Actual Reserve Fund Account Balance:\$298,413.00Adequacy of the Reserve Account (% of Full Funding):29.33%

Component Method funding is used by some reserve analysts, and is also the method used in retail reserve software programs because of its simplicity, however it is not a realistic method for projecting future funding needs unless each line item is reserved in its own account. We use this method only to provide a "snapshot" of the reserve account at a point in time.

In real life, communities combine or "pool" their reserve funds into one account or a few group accounts. This allows for the flexibility to respond to the needs of any component when they vary from the exact projections for that component (the typical situation). The Cash Flow Method of reserve funding accommodates these inevitable variations in reserve expenditures and also allows us to introduce inflation rates, earnings rates, and graduated or variable rate funding plans, to produce a more useful, realistic and fair way to fund your reserve account. The Cash Flow funding analysis for this account is provided on the following pages.





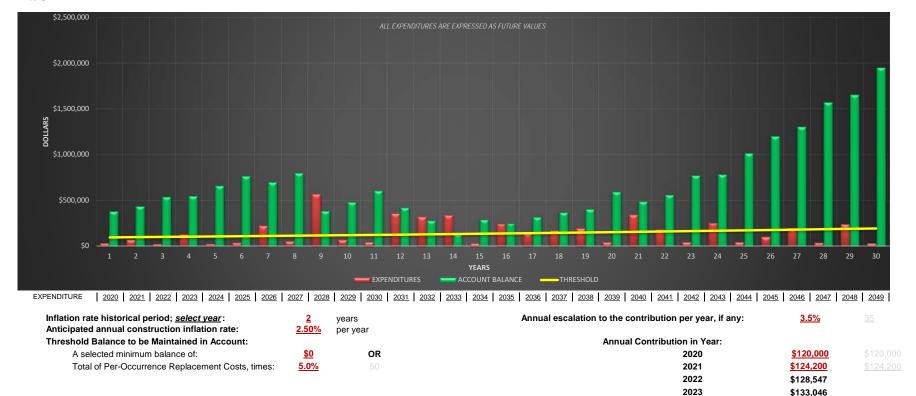
2024

DMA
Interactive Reserve Analysis
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**CASH FLOW METHODOLOGY** 

\$137,703

REED'S LANDING: ROAD RESERVES



The graph above is a pictorial representation of the cash flow funding model used for this analysis. It illustrates the projected reserve account balance in each of the next 30 years (green bars) as it is impacted by the projected reserve expenditures over the same period (red bars). The yellow line is a designated threshold or "floor" of the reserve account - a line that allows the plan to keep the account balance equal to or greater than in the lowest balance year(s). It essentially represents a contingency balance that the account will always be available over and above the amounts required to fund all of the components when the funding model projects them to be replaced. This threshold value is not prescribed by law or standards, and can be adjusted to a level desired by the community.

The graph is called a "navigator" because the funding model can be adjusted from this sheet to react to varying inflation rates, interest rates, actual adjusted account balances, and variations in reserve expenditures and project schedules based on your community's actual experience, and in response to changes in priorities. These adjustments are typically performed in real time during a live working session, where the participants can see the impact of any and all changes on the account, and determine how to respond to them.

If this navigator shows an inflation rate of 0.0% and an annual escalation to the contribution of 0.0% then all numbers in the analysis shown are in current dollars only. These rates will be adjusted in the live working session.



# CASH FLOW SPREADSHEET REED'S LANDING: ROAD RESERVES

YEAR	1	2	3	4	5
CALENDAR YEAR	2020	2021	2022	2023	2024
BEGINNING YEAR BALANCE	\$298,413	\$382,902	\$436,484	\$540,130	\$549,771
FINANCIAL ANALYSIS SUMMARY					
INCOME					
CONTRIBUTION TO RESERVES	\$120,000	\$124,200	\$128,547	\$133,046	\$137,703
LOAN DEPOSITS	\$0	\$0	\$0	\$0	\$0
PLUS SPECIAL ASSESSMENTS	\$0	\$0	\$0	\$0	\$0
PLUS OTHER FUNDS COMING DUE	\$0	\$0	\$0	\$0	\$0
PLUS INVESTMENT INCOME ON PRIOR YEAR'S ENDING BALANCE	\$448	\$574	\$655	\$810	\$825
TOTAL INCOME	\$120,448	\$124,774	\$129,202	\$133,856	\$138,527
EXPENDITURES, FUTURE VALUES					
EXPENDITURES, FUTURE VALUES	\$35,959	\$71,193	\$25,556	\$124,215	\$26,817
CAPITAL IMPROVEMENT PROJECTS	\$0	\$0	\$0	\$0	\$0
FINANCIAL LOAN PAYMENT	\$0	\$0	\$0	\$0	\$0
OTHER DISBURSEMENTS	\$0	\$0	\$0	\$0	\$0
TOTAL EXPENDITURES	\$35,959	\$71,193	\$25,556	\$124,215	\$26,817
END OF YEAR BALANCE	\$382,902	\$436,484	\$540,130	\$549,771	\$661,482
					I
MINIMUM ACCOUNT THRESHOLD					
THRESHOLD = % OF TOTAL PER-OCCURRENCE COSTS	\$93,767	\$96,111	\$98,514	\$100,976	\$103,501
FUNDING OBJECTIVE MET?	YES	YES	YES	YES	YES
MINIMUM REQUIRED CASH TRANSFER	\$0	\$0	\$0	\$0	\$0
TOOM ATION INTO ATION TARNINGS RATES					
ESCALATION, INFLATION, EARNINGS RATES	21/2	0.700/	2 = 22/	0.700/	0.700/
ANNUAL CONTRIBUTION ESCALATION:	N/A	3.50%	3.50%	3.50%	3.50%
ANNUAL CONSTRUCTION COST ESCALATION:	N/A	2.50%	2.50%	2.50%	2.50%
ANNUAL RESERVE ACCOUNT INCOME RATE	0.15%	0.15%	0.15%	0.15%	0.15%



YEAR	6	7	8	9	10
CALENDAR YEAR	2025	2026	2027	2028	2029
BEGINNING YEAR BALANCE	\$661,482	\$766,626	\$700,079	\$798,893	\$387,311
FINANCIAL ANALYSIS SUMMARY					
INCOME					
CONTRIBUTION TO RESERVES	\$142,522	\$147,511	\$152,674	\$158,017	\$163,548
LOAN DEPOSITS	\$0	\$0	\$0	\$0	\$0
PLUS SPECIAL ASSESSMENTS	\$0	\$0	\$0	\$0	\$0
PLUS OTHER FUNDS COMING DUE	\$0	\$0	\$0	\$0	\$0
PLUS INVESTMENT INCOME ON PRIOR YEAR'S ENDING BALANCE	\$992	\$1,150	\$1,050	\$1,198	\$581
TOTAL INCOME	\$143,515	\$148,661	\$153,724	\$159,215	\$164,129
		1		<b>.</b>	
EXPENDITURES, FUTURE VALUES					
EXPENDITURES, FUTURE VALUES	\$38,370	\$215,208	\$54,910	\$570,797	\$68,501
CAPITAL IMPROVEMENT PROJECTS	\$0	\$0	\$0	\$0	\$0
FINANCIAL LOAN PAYMENT	\$0	\$0	\$0	\$0	\$0
OTHER DISBURSEMENTS	\$0	\$0	\$0	\$0	\$0
TOTAL EXPENDITURES	\$38,370	\$215,208	\$54,910	\$570,797	\$68,501
		1			
END OF YEAR BALANCE	\$766,626	\$700,079	\$798,893	\$387,311	\$482,939
		1			1
MINIMUM ACCOUNT THRESHOLD					
THRESHOLD = % OF TOTAL PER-OCCURRENCE COSTS	\$106,088	\$108,741	\$111,459	\$114,246	\$117,102
FUNDING OBJECTIVE MET?	YES	YES	YES	YES	YES
MINIMUM REQUIRED CASH TRANSFER	\$0	\$0	\$0	\$0	\$0
ESCALATION, INFLATION, EARNINGS RATES					
ANNUAL CONTRIBUTION ESCALATION:	3.50%	3.50%	3.50%	3.50%	3.50%
ANNUAL CONSTRUCTION COST ESCALATION:	2.50%	2.50%	2.50%	2.50%	2.50%
ANNUAL RESERVE ACCOUNT INCOME RATE	0.15%	0.15%	0.15%	0.15%	0.15%



YEAR	11	12	13	14	15
CALENDAR YEAR	2030	2031	2032	2033	2034
BEGINNING YEAR BALANCE	\$482,939	\$606,941	\$423,275	\$282,195	\$129,999
FINANCIAL ANALYSIS SUMMARY					
INCOME					
CONTRIBUTION TO RESERVES	\$169,272	\$175,196	\$181,328	\$187,675	\$194,243
LOAN DEPOSITS	\$0	\$0	\$0	\$0	\$0
PLUS SPECIAL ASSESSMENTS	\$0	\$0	\$0	\$0	\$0
PLUS OTHER FUNDS COMING DUE	\$0	\$0	\$0	\$0	\$0
PLUS INVESTMENT INCOME ON PRIOR YEAR'S ENDING BALANCE	\$724	\$910	\$635	\$423	\$195
TOTAL INCOME	\$169,996	\$176,107	\$181,963	\$188,098	\$194,438
					1
EXPENDITURES, FUTURE VALUES					
EXPENDITURES, FUTURE VALUES	\$45,994	\$359,772	\$323,043	\$340,295	\$32,704
CAPITAL IMPROVEMENT PROJECTS	\$0	\$0	\$0	\$0	\$0
FINANCIAL LOAN PAYMENT	\$0	\$0	\$0	\$0	\$0
OTHER DISBURSEMENTS	\$0	\$0	\$0	\$0	\$0
TOTAL EXPENDITURES	\$45,994	\$359,772	\$323,043	\$340,295	\$32,704
END OF YEAR BALANCE	\$606,941	\$423,275	\$282,195	\$129,999	\$291,733
		I	I		ı
MINIMUM ACCOUNT THRESHOLD					
THRESHOLD = % OF TOTAL PER-OCCURRENCE COSTS	\$120,029	\$123,030	\$126,106	\$129,258	\$132,490
FUNDING OBJECTIVE MET?	YES	YES	YES	YES	YES
MINIMUM REQUIRED CASH TRANSFER	\$0	\$0	\$0	\$0	\$0
		T	T		
ESCALATION, INFLATION, EARNINGS RATES					
ANNUAL CONTRIBUTION ESCALATION:	3.50%	3.50%	3.50%	3.50%	3.50%
ANNUAL CONSTRUCTION COST ESCALATION:	2.50%	2.50%	2.50%	2.50%	2.50%
ANNUAL RESERVE ACCOUNT INCOME RATE	0.15%	0.15%	0.15%	0.15%	0.15%



YEAR	16	17	18	19	20		
CALENDAR YEAR	2035	2036	2037	2038	2039		
BEGINNING YEAR BALANCE	\$291,733	\$249,299	\$319,405	\$370,623	\$406,449		
FINANCIAL ANALYSIS SUMMARY							
INCOME							
CONTRIBUTION TO RESERVES	\$201,042	\$208,078	\$215,361	\$222,899	\$230,700		
LOAN DEPOSITS	\$0	\$0	\$0	\$0	\$0		
PLUS SPECIAL ASSESSMENTS	\$0	\$0	\$0	\$0	\$0		
PLUS OTHER FUNDS COMING DUE	\$0	\$0	\$0	\$0	\$0		
PLUS INVESTMENT INCOME ON PRIOR YEAR'S ENDING BALANCE	\$438	\$374	\$479	\$556	\$610		
TOTAL INCOME	\$201,479	\$208,452	\$215,840	\$223,455	\$231,310		
		1	•		1		
EXPENDITURES, FUTURE VALUES							
EXPENDITURES, FUTURE VALUES	\$243,913	\$138,346	\$164,623	\$187,629	\$43,641		
CAPITAL IMPROVEMENT PROJECTS	\$0	\$0	\$0	\$0	\$0		
FINANCIAL LOAN PAYMENT	\$0	\$0	\$0	\$0	\$0		
OTHER DISBURSEMENTS	\$0	\$0	\$0	\$0	\$0		
TOTAL EXPENDITURES	\$243,913	\$138,346	\$164,623	\$187,629	\$43,641		
END OF YEAR BALANCE	\$249,299	\$319,405	\$370,623	\$406,449	\$594,117		
MINIMUM ACCOUNT THRESHOLD							
THRESHOLD = % OF TOTAL PER-OCCURRENCE COSTS	\$135,802	\$139,197	\$142,677	\$146,244	\$149,900		
FUNDING OBJECTIVE MET?	YES	YES	YES	YES	YES		
MINIMUM REQUIRED CASH TRANSFER	\$0	\$0	\$0	\$0	\$0		
ESCALATION, INFLATION, EARNINGS RATES							
ANNUAL CONTRIBUTION ESCALATION:	3.50%	3.50%	3.50%	3.50%	3.50%		
ANNUAL CONSTRUCTION COST ESCALATION:	2.50%	2.50%	2.50%	2.50%	2.50%		
ANNUAL RESERVE ACCOUNT INCOME RATE	0.15%	0.15%	0.15%	0.15%	0.15%		



YEAR	21	22	23	24	25			
CALENDAR YEAR	2040	2041	2042	2043	2044			
BEGINNING YEAR BALANCE	\$594,117	\$489,254	\$560,832	\$773,162	\$783,969			
FINANCIAL ANALYSIS SUMMARY	INANCIAL ANALYSIS SUMMARY							
INCOME								
CONTRIBUTION TO RESERVES	\$238,775	\$247,132	\$255,781	\$264,734	\$273,999			
LOAN DEPOSITS	\$0	\$0	\$0	\$0	\$0			
PLUS SPECIAL ASSESSMENTS	\$0	\$0	\$0	\$0	\$0			
PLUS OTHER FUNDS COMING DUE	\$0	\$0	\$0	\$0	\$0			
PLUS INVESTMENT INCOME ON PRIOR YEAR'S ENDING BALANCE	\$891	\$734	\$841	\$1,160	\$1,176			
TOTAL INCOME	\$239,666	\$247,866	\$256,623	\$265,893	\$275,175			
EXPENDITURES, FUTURE VALUES								
EXPENDITURES, FUTURE VALUES	\$344,528	\$176,288	\$44,293	\$255,087	\$44,473			
CAPITAL IMPROVEMENT PROJECTS	\$0	\$0	\$0	\$0	\$0			
FINANCIAL LOAN PAYMENT	\$0	\$0	\$0	\$0	\$0			
OTHER DISBURSEMENTS	\$0	\$0	\$0	\$0	\$0			
TOTAL EXPENDITURES	\$344,528	\$176,288	\$44,293	\$255,087	\$44,473			
END OF YEAR BALANCE	\$489,254	\$560,832	\$773,162	\$783,969	\$1,014,671			
		T						
MINIMUM ACCOUNT THRESHOLD								
THRESHOLD = % OF TOTAL PER-OCCURRENCE COSTS	\$153,648	\$157,489	\$161,426	\$165,462	\$169,598			
FUNDING OBJECTIVE MET?	YES	YES	YES	YES	YES			
MINIMUM REQUIRED CASH TRANSFER	\$0	\$0	\$0	\$0	\$0			
ESCALATION, INFLATION, EARNINGS RATES								
ANNUAL CONTRIBUTION ESCALATION:	3.50%	3.50%	3.50%	3.50%	3.50%			
ANNUAL CONSTRUCTION COST ESCALATION:	2.50%	2.50%	2.50%	2.50%	2.50%			
ANNUAL RESERVE ACCOUNT INCOME RATE	0.15%	0.15%	0.15%	0.15%	0.15%			



YEAR	26	27	28	29	30		
CALENDAR YEAR	2045	2046	2047	2048	2049		
BEGINNING YEAR BALANCE	\$1,014,671	\$1,199,288	\$1,303,484	\$1,569,354	\$1,651,848		
FINANCIAL ANALYSIS SUMMARY	INANCIAL ANALYSIS SUMMARY						
INCOME							
CONTRIBUTION TO RESERVES	\$283,589	\$293,515	\$303,788	\$314,421	\$325,425		
LOAN DEPOSITS	\$0	\$0	\$0	\$0	\$0		
PLUS SPECIAL ASSESSMENTS	\$0	\$0	\$0	\$0	\$0		
PLUS OTHER FUNDS COMING DUE	\$0	\$0	\$0	\$0	\$0		
PLUS INVESTMENT INCOME ON PRIOR YEAR'S ENDING BALANCE	\$1,522	\$1,799	\$1,955	\$2,354	\$2,478		
TOTAL INCOME	\$285,111	\$295,314	\$305,743	\$316,775	\$327,903		
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EXPENDITURES, FUTURE VALUES							
EXPENDITURES, FUTURE VALUES	\$100,495	\$191,118	\$39,873	\$234,280	\$33,338		
CAPITAL IMPROVEMENT PROJECTS	\$0	\$0	\$0	\$0	\$0		
FINANCIAL LOAN PAYMENT	\$0	\$0	\$0	\$0	\$0		
OTHER DISBURSEMENTS	\$0	\$0	\$0	\$0	\$0		
TOTAL EXPENDITURES	\$100,495	\$191,118	\$39,873	\$234,280	\$33,338		
END OF YEAR BALANCE	\$1,199,288	\$1,303,484	\$1,569,354	\$1,651,848	\$1,946,413		
MINIMUM ACCOUNT THRESHOLD							
THRESHOLD = % OF TOTAL PER-OCCURRENCE COSTS	\$173,838	\$178,184	\$182,639	\$187,205	\$191,885		
FUNDING OBJECTIVE MET?	YES	YES	YES	YES	YES		
MINIMUM REQUIRED CASH TRANSFER	\$0	\$0	\$0	\$0	\$0		
ESCALATION, INFLATION, EARNINGS RATES							
ANNUAL CONTRIBUTION ESCALATION:	3.50%	3.50%	3.50%	3.50%	3.50%		
ANNUAL CONSTRUCTION COST ESCALATION:	2.50%	2.50%	2.50%	2.50%	2.50%		
ANNUAL RESERVE ACCOUNT INCOME RATE	0.15%	0.15%	0.15%	0.15%	0.15%		



# ASSESSMENT ALLOCATION REED'S LANDING: ROAD RESERVES

#### **TOTAL BUDGET**

Year	Reserve Assessment	Operating Budget Assessment*	Total Assessment	Reserves as a Percentage of Total Assessment	Annual Increase In Total Assessment	Special Assessments
2020	\$120,000.00		\$120,000.00	100.00%		\$0.00
2021	\$124,200.00	\$0.00	\$124,200.00	100.00%	3.50%	\$0.00
2022	\$128,547.00	\$0.00	\$128,547.00	100.00%	3.50%	\$0.00
2023	\$133,046.15	\$0.00	\$133,046.15	100.00%	3.50%	\$0.00
2024	\$137,702.76	\$0.00	\$137,702.76	100.00%	3.50%	\$0.00

<sup>\*</sup> Operating budget is increased annually at the projected inflation rate.

#### **ALLOCATION CALCULATIONS**

Total Number of Units	<u>229</u>
Unit Type	SF Homes
Percentage Allocation To Unit Type	100.00%
Number of Units of This Type	229

#### **Annual Contribution Per Unit Type**

Year	Reserve Assessment	Operating Budget Assessment	Total Assessment	Special Assessments
2020	\$524.02	\$0.00	\$524.02	\$0.00
2021	\$542.36	\$0.00	\$542.36	\$0.00
2022	\$561.34	\$0.00	\$561.34	\$0.00
2023	\$580.99	\$0.00	\$580.99	\$0.00
2024	\$601.32	\$0.00	\$601.32	\$0.00

#### **Monthly Contribution Per Unit Type**

Year	Reserve Assessment	Operating Budget Assessment	Total Assessment	Special Assessments
2020	\$43.67	\$0.00	\$43.67	\$0.00
2021	\$45.20	\$0.00	\$45.20	\$0.00
2022	\$46.78	\$0.00	\$46.78	\$0.00
2023	\$48.42	\$0.00	\$48.42	\$0.00
2024	\$50.11	\$0.00	\$50.11	\$0.00



# **APPENDIX**

HOW OUR INTERACTIVE RESERVE ANALYSIS WORKS

AN EXPLANATION OF THE PHYSICAL PROPERTY ANALYSIS

COMPONENT COST AND USEFUL LIFE ESTIMATING

HISTORIC COST INDEX AND EXPLANATION

DMA ON-GOING RESERVE STUDY MANAGEMENT SERVICES

NATIONAL RESERVE STUDY STANDARDS – COMMUNITY ASSOCIATIONS INSTITUTE

DMA Reserves, Inc. 2302 East Cary Street Richmond, VA 23223 804.644.6404 www.DMAreserves.com



## HOW OUR INTERACTIVE RESERVE ANALYSIS WORKS

#### **PURPOSE**

Your community contains infrastructure and amenities (capital assets) that are owned in common by all property or unit owners. Your owners association is responsible for replacing these assets when they wear out or become unusable. A capital reserve account is a savings account designed specifically to accumulate funds for eventual replacement of your commonly owned assets when they reach the end of their useful lives. Funds in this dedicated account can be accumulated over a period of many years without being taxed, however they can only be used for the repair or replacement of capital assets. They cannot, for example, be returned to the operating account without the Association paying a penalty. Each capital asset is referred to in this study as a component of your Capital Reserves. All components eventually need to be replaced in full or in part, although they may normally function for 10, 20, 30 vears, or longer, Regular operating and maintenance budgets do not cover the funding required for these needs. This Capital Reserve Analysis looks at various ways to adequately fund your reserves.

#### A FUNDING PLAN - NOT A MAINTENANCE SCHEDULE

This plan is a general predictor for replacement of components, however it is not a *required* maintenance or replacement schedule. Specific decisions about replacement of each component should be made by the Board of Directors based on this information *and* on a periodic assessment of the actual condition of each component.

#### ...AND NOT AN ENGINEERING STUDY

A capital reserve analysis is geared toward evaluating when a component needs to be replaced and how much it will cost to replace. It is not an in-depth engineering assessment of the component's functional operation, defects or design. Our company is staffed with engineers and architects, and works with specialized consultants who can provide such assessments; however that work is outside the scope of the reserve analysis itself.

#### **HOW MANY RESERVE ACCOUNTS?**

It is possible to maintain separate accounts for individual components or groups of components, and some communities have requirements in their Declarations for dedicated reserve accounts, such as for private roads. Many Certified Public Accountants recommend that the number of reserve accounts be kept to a minimum. We normally recommend that you keep just one combined (pooled) account. Having one account gives you the spending flexibility to respond to an unexpected expense for one component without having to transfer funds from other dedicated accounts. Unless otherwise noted in our funding recommendation, our study will develop one account with one annual deposit amount that will meet the replacement needs of all components.

#### COMPONENT INVENTORY

The Component Inventory is divided into two sections. The first section identifies each component to be included in the capital reserve account(s) and provides quantity information, component age, and expected useful life of each. We also observe the condition of each component and recommended any maintenance or other corrective action that should be taken at this time.

The second part of the Component Inventory shows the projected replacement cycle, percentage of expected replacement at each cycle, and the current replacement cost of each component.

#### FINANCIAL ANALYSIS

We perform two analyses in this study. The first is the Current Funding Summary. This assesses the relative adequacy of your reserve account to fund your reserves at this point in time. The second is called the Interactive Cash Flow Analysis, where we look together with you at alternative methods of adequately funding your reserves from this point forward.

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#### **Current Funding Summary (Component Method)**

In the report we perform a historic funding analysis that looks at both the current funding level and the current fund balance or your reserve account compared to the amount of annual funding that would have to have been set aside each year for each component to fund it at 100 percent of its replacement value. This is calculated by dividing the original cost of the component by the number of years in its estimated useful life. This is also commonly referred to as "component method funding" and represents the annual straight line depreciation value of each component.

By multiplying the annual depreciation value of each component by its present age, we arrive at the amount of money for each that should be in the capital reserve account as of the study date. The total amount for all components added together is the target "fully funded" level of the reserve account. We divide the actual reserve account balance by this amount, yielding the percentage that the account is fully funded. A 100 percent funding level means that the account is fully funded. A value less than 100 percent means that there may be a deficiency in the capital reserve account.

In our experience, many communities are not fully funded from their beginning date, and simple conversion to full funding using this method of analysis will often place the entire cost burden of a "correction" on the present owners. The full funding - component method must be recomputed every year. Gradually, the annual funding amount will be reduced over time as the Association "catches up". It must be noted that this does not necessarily mean that the current annual contribution amount is insufficient to fund the reserve account from this point forward. The Association over the course of the years may have adjusted the annual contribution amount to where it is now adequate to fund the reserve account going forward if all funds are "pooled" into a single account.

#### Interactive Cash Flow Model

This report page shows the results of our Cash Flow analysis. In this analysis, each anticipated component replacement is plotted on a schedule over time. This schedule then calculates the annual total reserve account deposits required to fund all projected component expenses and maintain a minimum account balance over the entire

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period. Using this method of analysis requires that we set several parameters first. These include:

#### Actual Reserve Balance at the End of the Prior Fiscal Year

This is the dollar amount provided on your association's year-end financial statement. The number that we enter becomes the beginning balance of the reserve account in year one (1) of our study. If you do not have a reserve account, we will enter \$0.00 for this balance.

#### Anticipated Annual Inflation Rate

This is based on historical inflation data provided by R.S. Means Company based on their recorded historical cost indices. From these, we will recommend an inflation rate, expressed as a percentage (%), to use in the study.

#### Annual Income Rate on Reserve Account

We base this on your community's current and/or anticipated returns on investments from savings accounts, Certificates of Deposit, Money Market accounts or other fund investments. If funds are deposited in several different accounts, we will take an average of the earnings rate on all of the accounts. This number, expressed as a percentage (%) is input into the study.

#### Account Threshold

The goal of the Cash Flow funding plan is to keep your account above a minimum balance over the life of the study while insuring that all components are fully funded when they are scheduled to be replaced. We can set that minimum balance at zero (\$0.00), which is called "baseline" funding. We can also set a minimum account balance, or "threshold", at some amount above zero, in order to provide a buffer for the variations in actual expenditures that will inevitably occur over the life of the study. We typically use a percentage of your total expected reserve expenditures over a 20-year period to establish this amount. The amount is input into the study as a bottom limit for the cash flow in the account. This amount will increase every year at the rate of inflation.

#### Annual Contribution Escalation

As inflation decreases the value of the dollar over time, it is necessary to introduce an escalation factor so that the contribution grows in relation to the growth in actual costs over time. If we did not do this - if we kept the contribution constant - owners today would have to contribute a much larger amount in order to offset the declining value of the same contributions made in the future. The escalation rate provides parity for present and future owners.

In communities that are significantly underfunded, it may be necessary to use an escalation factor that is greater than the inflation rate to gradually increase your contributions to an acceptable level. The annual contribution escalation is expressed as a percentage (%) and is initially input into the study to match the rate of inflation. We can adjust this rate as a constant over the entire study period, or manually adjust it from year to year, to help us design the appropriate funding plan.

#### The 30 Year Cash Flow Study

Having identified the above parameters, we conduct our cash flow study. This study can balance out contributions over the next 30 years, to distribute the responsibilities for reserve funding between present and future owners in various ways. It can also incorporate funding tools such as special assessments and bank loans into the overall calculations. Our spreadsheets are designed to allow us to conduct this analysis dynamically in a physical or online meeting format so that community leaders and management can have test alternate funding plans and decide on the plan best suited to the needs and priorities of the community.

The spreadsheets that show the mechanics of the plan are provided in the report.

In the report we provide a list of the expected reserve expenditures by component for each year of the study. Note: all costs shown in these schedules are presented in current dollars as of the report date. The total values of these annual expenditures are revised to reflect the input inflation rate, in the cash flow spreadsheets.

The results of this study are summarized in a five year funding schedule and a 30 year funding plan graph on the page titled "Interactive Cash Flow Model". These results comprise our recommended funding plan for your community as of the date of the study. The financial aspects of this plan can be updated annually (or

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any time) upon request, and we recommend an update of the full study, including the physical analysis, every 3 to 5 years.

If you have additional questions about DMA reserve studies, please contact us at our office at 804-644-6404 or by e-mail at contact@dma-va.com.

**DMA**Reserves

Design Management Associates, Inc. 2025 East Main Street, Suite 218 Richmond, Va. 23223 804-644-6404 On the web: dma-va.com



## AN EXPLANATION OF THE PHYSICAL PROPERTY ANALYSIS

#### THE COMPONENT INVENTORY

The physical analysis of the community's capital assets includes the definition of reserve components, observation of the condition of each component or component group, establishment life expectancy and replacement frequency for each component or group, projected level of replacement (expressed as a percent of the component), and projected replacement cost per replacement occurrence. All of this information is contained in the Component Inventory. In addition to a standard component inventory, DMA expands this spreadsheet in three ways:

- We add in-service dates for each component identifying the date it was originally constructed or acquired, or the most recent date that it was replaced.
- We break large components into smaller sub-components allowing for individual replacement of these smaller components to be tracked.
- We group together smaller components that may be replaced at the same time such that they may be tracked as one larger replacement project.

This inventory can be updated by the client when major repair or replacement projects occur, providing the new in-service date and the actual project cost.

#### RESERVE COMPONENTS DEFINED

Components may include all types of property improvements which are owned by the owners Association, or for which the Association is required by the Declaration to provide maintenance. Examples would include any private roads, parking lots, sidewalks, paved trails, lakes, dams, swimming pools, tennis courts, playgrounds, clubhouses, etc. that make up the common area or shared amenities of the community. Other shared assets may include clubhouse or pool furniture, maintenance equipment and vehicles, or other miscellaneous assets like pumps, motors, generators, etc. Components may also include limited common elements of individual homes or lots, such as driveways, patios, decks, siding and roofing. In large condominium buildings components will include interior common areas – lobbies, halls, elevators, party rooms, etc., and common building equipment such as boilers, chillers, water pumps, generators, trash compactor and the like.

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#### **OBSERVATIONS AND ASSESSMENT OF COMPONENT CONDITION**

We include a column in our Component Inventory and Project Log that allows comments to be added about components. These may be condition comments, special concerns, comments about how they were measured or comments about alternate replacement options. Over time, this area can be used by the client to add information about components that are replaced, deferred, accelerated or have some condition that needs to be noted.

A visual record of components is provided in a companion folder to this report. It contains photos and/or video documentation of our field observations.

The observations and opinions expressed in this report are based on our general professional knowledge of construction and our knowledge of the typical replacement experience of many communities and other entities with the same component types. Our projections are not architectural or engineering recommendations for specific projects. The Board of Directors should seek professional or industry assistance for each specific replacement project, based on the conditions in existence at the time of replacement and as the need for replacement or repair becomes imminent.

#### **COMPONENT USEFUL LIFE**

Several columns in the Schedule of Components provide a picture of the component useful life, including:

<u>COMPONENT PLACED IN SERVICE:</u> This column identifies either the factual year or our estimate of the year that each component was placed in service (built, installed, replaced, etc.).

ESTIMATED USEFUL LIFE (EUL) BEFORE FIRST REPLACEMENT: This is the expected minimum working life of the component in years, based on the actuarial or industry standard life, combined with our observation of the condition and use of the component in this setting. Our EUL for a component in one setting may be different for the same or similar component in another setting. The terminology "expected minimum" is important in that some components are subject to partial failures and replacements even though a portion or majority of the component may have a much longer service life. An example is concrete sidewalks. Concrete may last in good condition for 100 years, but outside conditions can affect sidewalks that will require

replacement of parts of them in a shorter time frame. In some cases the same portion may be replaced multiple times within the total life span. Some components may be a group of like entities such as doors. In this case some doors may be more susceptible to replacement than others based on use and exposure. The EUL sets a minimum estimated life before we expect some replacement activity even though many of the doors in the group may last much longer.

REPLACEMENT INTERVAL (YEARS): This is the number of years after the first replacement event that we expect to have another. For a component with a predictable estimated life, such as shingle roofs, the replacement interval may be the same as the estimated useful life (EUL). If the EUL is 30 years the subsequent replacement interval will also be 30 years. For our concrete sidewalk example in the previous section, however, you may replace 5% of it after an EUL of 15 years, and then another 5% every 5 years thereafter, as the entire walkway component gradually ages. These numbers are often affected by outside forces that impact the component, and can also be affected by the manner in which the association maintains the community. One association may elect to replace portions of a component every 5 years or more often, and another association may not elect to do any work for 15 years at a time. These are all decisions that can be made in DMA's working session with the Association.

<u>NEXT REPLACEMENT YEAR:</u> This number is computed by adding the ESTIMATED USEFUL LIFE (EUL) to the COMPONENT PLACED IN SERVICE YEAR.

<u>REMAINING USEFUL LIFE:</u> This number is computed by subtracting the STUDY YEAR (the year the analysis is being conducted) from the the NEXT REPLACEMENT YEAR.

In some cases where a community is still under development many components have been little used at the time of this study and thus could be in nearly new condition in spite of the age of the component. This might include interior finishes, fixtures, furniture and some appliances. Refrigerators, ice makers, water heaters and HVAC equipment that must run continuously would not necessarily be included in this group. The useful life of most of the exterior components is affected by weather and forces of nature rather than actual use. Examples of this would be roofing, siding, etc. However, the useful life of such items as asphalt pavement is affected by weather, forces of nature and usage. These conditions can be dealt with by assigning later in-service dates for those components that have been little used, have not been in operation and have not been subjected to weather and forces of nature.

Another significant factor in the useful life of a component is the routine maintenance and care for that component. An Association's willingness to

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care for and maintain the components that can be cared for and maintained will contribute to a significant increase in the useful life of a component. Of course some components simply offer little opportunity for any special care or maintenance.

Finally, the useful life of a component is often dependent upon the aesthetic value that an Association places on a component. An Association might feel that worn or damaged components that are still functional should not be replaced. In some cases, Associations well simply decide to abandon, demolish or remove a component from use.

PERCENT OF COMPONENT TO BE REPLACED AT EACH INTERVAL: In its simplest form, this number tells the analysis to either fund for the full replacement amount or to fund for a partial replacement amount at each occasion. Again, with the sidewalk example, the analysis may be told to fund for 5% of the total component quantity replacement at each interval. For a shingle roof, it would likely be for 100% of the component at each replacement interval.

This number can also be used to assist in "what if" scenarios. If an association is trying to decide if they want to replace a component, remove it, or do something else; the percent of replacement could be set at zero (0%) in order to remove the component from the funding plan, while still recognizing its existence in the community.

#### COMPONENT QUANTITIES AND MEASUREMENT

Two columns in the Schedule of Components provide information on the quantity or measurement of each component. These are:

<u>TOTAL QUANTITY:</u> This is the amount, size, number or extent of each component based on a unit of measure.

UNIT: The units of measure used in this report are typically as follows:

cy = cubic yard sy = square yard

ea = each pr = pair

If = linear foot In-ft = length in feet, per inch in

diameter of pipe

sf = square foot sq = square (100 square feet)

Is = lump sum

All components are viewed on site, unless otherwise specified herein. The components are documented with a photo of the component or of a typical component or group of components where there are a large number of repetitive component elements. Quantities for each component are developed either by on-site measurement, measurement from scale engineering and architectural drawings when available, measurement on scaled photos or measurement by satellite mapping. In the case of on-site

measurements of building envelope components (i.e. roofs, siding, trim, doors, windows, gutters, etc.) it would take an extraordinary amount of time and money to identify and measure each and every component on each and every unit. In that case quantities were arrived at by measuring a single model or a single unit of similar character and multiplying those quantities by the number of similar units. This methodology has resulted in very accurate results as far as quantities are concerned for the reserve study budgeting analysis.

If this study is an update of a previous study performed by DMA or another consultant, the quantities used are as determined in that study, unless otherwise noted. In many cases where a recent historic estimate or bid exists the bid amount is used as a "lump sum" in lieu of a unit quantity estimate.

#### REPLACEMENT COST

Two columns in the Component Inventory and Project Log define the expected replacement cost of each component:

<u>UNIT COST:</u> This is our estimate of the replacement cost per unit of each component.

<u>REPLACEMENT COST AT EACH INTERVAL:</u> This number is derived from multiplying the estimated quantity x the unit cost x the percent replaced.

DMA uses three sources of costing for components in this study. Our standard source for computing component replacement costs is from cost data published by R. S. Means Company, a division of Reed Construction Data, including *Facility Construction*, *Facility Maintenance and Repair*, *Commercial Construction*, and *Residential Construction*. These are updated quarterly and indexed (cost weighted) by geographic area.

Our second source is actual recent replacement costs for specific components provided by the association from your General Ledger or from actual contracts or invoices.

Our third source is from local contractors and suppliers, and from manufacturers of specific products.

#### **EXCLUDED COMPONENTS**

Some improvements and assets related to the common areas are not included as capital replacement components. Components that you do not see in this report are generally related to one of the categories below or are not owned by the association:

#### Permanent Improvements

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This group includes components that if properly maintained will have a useful life equal to the property as a whole. The end of the useful life of the property would occur when it would be necessary that all of the infrastructure would need to be demolished and cleared or the area and infrastructure completely evacuated and reconditioned to return the property to a safe and useful state.

#### Masonry, Stone, Concrete

Generally, masonry, stone and concrete building cladding and flatwork would be considered to have an unlimited useful life. However, repairs such as mortar tuck pointing, patching and replacing sections of broken or damaged masonry, stone and concrete is a reality and a component line item for this is often included in the reserve funding study.

#### Unit or Home Owner Modifications

On occasion unit or home owners will modify components that are considered common elements and the responsibility of the Association. These cost of these modifications should not be included as part of the capital reserves.

#### Incidental or Maintenance Items

Some components are small enough, or may require repair or replacement on a recurring short-term basis, that the association may elect to fund these entirely from the operating account as annual maintenance items.

#### Tax Exclusions, Minor Items and Capital Improvements

The interest earned on the account balance containing savings for certain components may not qualify for tax exemption under IRS rulings for Associations filing Form 1120 or 1120H. It is incumbent upon the Association to determine the tax implications of comingling exempt capital expenditure funds from excluded or nonexempt designated funds in their bank and investment accounts.

State statutory requirements may prohibit comingling of funds set aside for some items. The Association should consult their attorney or accountant on this matter.

Some of these items include:

- Painting, wall coverings and other cosmetic work.
- Landscape Improvements and replacement of any landscaping (trees, shrubbery, etc.).
- Irrigation systems generally need continual maintenance. Broken heads and pipes, and damaged controller systems need to be replaced immediately upon failure. Replacement costs are generally below the threshold for reserve funding, and longevity of system components varies widely. We generally recommend that this system be handled within your annual operating and

maintenance budget. However, we believe that the irrigation well pump systems and irrigation controllers should be included as capital reserve components.

- Asphalt pavement seal coating, painting, wall coverings and other activities that might be considered cosmetic work.
- Cleaning and power washing activities.
- Minor or low value exclusions. The Association may wish to set a lower limit on the replacement cost of components included in the reserve account. In that instance, items of lesser value would be replaced or repaired using funds from your operating account.
- Capital improvements would include development or purchase of a new component to be placed in service for the first time. After the component has been placed in service it the money set aside for repair and replacement can then be included in the capital reserve component funding program accounts.

If you have additional questions about DMA reserve studies, please contact us at our office at 804-644-6404 or by e-mail at contact@dma-va.com.

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## COMPONENT COST AND USEFUL LIFE ESTIMATING

#### **DMA COST ESTIMATING**

DMA uses two types of costing in creating a replacement cost schedule for reserve components. If the component has been replaced in the past five (5) years or if the client has a current cost estimate or bid for a replacement, DMA will use that known cost. If the cost is 2-5 years old, DMA will adjust it for inflation to create a cost in "current dollars", and use that cost in our replacement schedule.

In most cases, however, replacement costs need to be estimated. To do this DMA uses three (3) levels of estimating:

- 1. A respected national construction cost data base,
- 2. An experienced construction cost estimator who knows how to use this data base in actual construction,
- 3. Cost assembly by the Reserve Specialist in charge of the project.

#### RESPECTED NATIONAL CONSTRUCTION COST DATA BASE

DMA uses RSMeans Cost Data, the most complete national construction cost data available today, from The Gordian Group – a company the specializes in facility construction management solutions. This data base is updated quarterly and costs are indexed to cities throughout the USA and Canada. RSMeans has been providing this service for over 70 years. In addition to tracking current costs, this data base allows RSMeans to also track construction related inflation. DMA uses this tool to help forecast projected inflation rates for our reserve analyses based on past trends.

#### **EXPERIENCED CONSTRUCTION COST ESTIMATOR**

RSMeans is a tool for estimators – not a cost estimating solution in itself. DMA's staff includes a knowledgeable cost estimator with over 40 years of design and construction estimating experience, to assemble and adjust costs from the RSMeans data base, as well as

other sources, to create and maintain DMA's own proprietary cost data base. Replacement costs include several elements - the product or material cost, the labor cost to install the product and material, and related costs to remove the old component and complete the installation of the new – which may involve other trades and other related replacement work. DMA's estimator has created a data base to address most typical reserve components, and he is continually adding to it as we come across new components. He also is able to develop custom replacement costs for unique or complex projects when they arise.

#### COST ASSEMBLY BY THE RESERVE SPECIALIST

The Reserve Specialist (RS) in charge of your project will select the most appropriate costs for the components that he sees on your property or in your facility. In some cases, the RS will need to additionally assemble costs from our data base to fully address the needs of a replacement project — such as equipment replacement that requires architectural alterations, complex roof replacement projects, or underground utility replacement projects. The RS will also determine the percentage of replacement per occurrence for each component. Replacement occurrences for long-life components or component groups may be better projected as partial replacements on a recurring basis.

#### YOUR ACTUAL COSTS WILL VARY

DMA's cost estimating meets or exceeds industry standards for this work and we use the best information available to develop our cost data base. Many factors affect the actual cost of project at a point in time, however, and you should expect your cost experience to vary somewhat from the estimates. Factors to remember include:

 Actual cost growth for a particular product or labor market vs. projected inflation rates. Most costs grow in leaps and spurts, even though they average out over time to a

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- measurable rate. Your experience at a point in time may be on one side or the other of a cost increase.
- Competition and local market factors at the time of your replacement may put temporary upward or downward pressures on the cost of a particular item or labor rate.
- Your replacement project may include other work within the scope that is not identified or anticipated in the component replacement cost.
- Component replacement estimates are made for the most similar product, material or labor cost to what we observe on your property. It may not be an exact match for your component and there may be unique aspects to your component that the analyst cannot determine in a visual inspection.

Because DMA's analyses are interactive, you can track your actual costs on our Schedule of Components and report back changes at any time and request an updated analysis based on this information.

#### **ESTIMATED USEFUL LIFE (EUL) FOR COMPONENTS**

DMA's proprietary cost data base also includes estimated useful life projections for each component cost item. Our sources for these EUL's include RSMeans cost data, Fannie Mae Property Condition Assessment tables, and American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE) Equipment Life Expectancy tables. These are industry averages based on nationwide experience in many different locations, conditions and building types. Since reserve studies are fund planning tools, these are reasonable approaches to guiding that planning, however, the RS performing your study may adjust some EUL's based on (a) what he/she observes about the component condition on site, (b) what your history has been with each component, if known, and (c) other potential impacts on the component due to location, exposure, usage, etc. Other factors will also affect the actual service life that you get from a component. Some components fail completely, i.e., they no longer work; others fail gradually through aging. For those components, the decision to replace may be guided by the amount of maintenance the component is requiring, obsolescence of the component, better technology and cost savings from new components, and relative appearance or operating condition that impacts the perception of your property or facility by owners / users.

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You should also remember that reserve studies are not prescriptive maintenance plans for your property. The final decision to replace a component rests with the Board of Directors based on its actual condition, relative priorities, and other maintenance options.

#### **ENHANCED LIFE CYCLE INFORMATION**

All reserve studies provide the estimated useful life of the components. Only DMA analyses include the component's last "inservice" date, the component age and a projection of recurring replacement intervals after the initial replacement. These tools allow us to customize replacement planning, accommodate recurring partial replacements and adapt our life cycle projections to your actual experience.

#### THE VALUE OF DMA'S INTERACTIVE ANALYSIS

DMA's reserve analyses are designed to be management tools – not simple reports. They are designed for ease of modifying, updating and re-analyzing the reserve funding model for your property or facility based on your ongoing actual experience. Good facility management is the ability to respond intelligently to change as it occurs. Traditional reserve studies cannot do this, but DMA's Interactive Reserve Studies can keep you on top of these issues through the use of our reserve analysis tools and our professional assistance – available to you at any time after your initial study has been completed.

If you have additional questions about DMA reserve studies, please contact us at our office at 804-644-6404 or by e-mail at contact@dma-va.com.

**DMA**Reserves

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## **HISTORIC COST INDICES**

Source: R.S. MEANS

#### **Interactive Reserve Analysis**

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Year	Index	Difference	0/ Incresse	Direct Cost Multiplier	Period in Years	Average Annual Escalation	Manth
		Difference	% Increase	•	rears	Escalation	Month
2015	206.7	0	0.00%	1.0000	0	n/a	As of January
2014	204.9	1.8	0.88%	1.0088	1	0.88%	July
2013	201.2	5.5	2.73%	1.0273	2	1.36%	July
2012	194.6	12.1	6.22%	1.0622	3	2.03%	July
2011	191.2	15.5	8.11%	1.0811	4	1.97%	July
2010	183.5	23.2	12.64%	1.1264	5	2.41%	July
2005	151.6	55.1	36.35%	1.3635	10	3.15%	July
2000	120.9	85.8	70.97%	1.7097	15	3.64%	July

#### Calculation of Cost from One Year to Another:

Index for Year A / Index for Year B \* Cost in Year B = Cost in Year A

R S Means Company maintains a construction cost database for North America, that is updated quarterly (4 times per year). The current company was incorporated in 1984, but has existed in other forms previously. The company claims to have maintained cost data for over 70 years. In addition to current costs for both materials and labor, R S Means maintaines a historical index of these costs, which they publish for a time period going back 20 years.

DMA uses these historical indexes as a logic base for projecting future construction cost escalation (inflation). In order to have a logical basis for the inflation rate used in this study, we offer this guide to selecting the rate that the association wants to use. Generally, the longer the look-back period (say 15 years vs. 5 years) the more conservative your future inflation projection will be.

In making a selection for future inflation, keep in mind that if your selected rate varies significanly from the current inflation rate, you should make a corresponding adustment fo the projected interest or earnings rate on your money kept in a savings or money market account, as those rates follow (but do not equal) inflation rates.



## **NATIONAL STANDARDS**

The following has been summarized from the National Reserve Study Standards as set forth by the Community Association Institute (CAI).

#### **General Information**

#### **Reserve Study**

A Reserve Study is made up of two parts, 1) the information about the physical status and repair/replacement cost of the major common area components the association is obligated to maintain (Physical Analysis), and 2) the evaluation and analysis of the association's Reserve balance, income, and expenses (Financial Analysis). The Physical Analysis is comprised of the Component Inventory, Condition Assessment, and Life and Valuation Estimates. The Component Inventory should be relatively "stable" from year to year, while the Condition Assessment and Life and Valuation Estimates will necessarily change from year to year. The Financial Analysis is made up of a finding of the client's current Reserve Fund Status (measured in cash or as Percent Funded) and a recommendation for an appropriate Reserve contribution rate (Funding Plan).

## Physical Analysis

- Component Inventory
- Condition Assessment
- Life and Valuation Estimates

## Financial Analysis

- Fund Status
- Funding Plan

#### **Levels of Service**

The following three categories describe the various types of Reserve Studies, from exhaustive to minimal.

- I. Full: A Reserve Study in which the following five Reserve Study tasks are performed:
  - Component Inventory
  - Condition Assessment (based upon on-site visual observations)
  - Life and Valuation Estimates
  - Fund Status
  - Funding Plan
- II. Update, With-Site-Visit/On-Site Review: A Reserve Study update in which the following five Reserve Study tasks are performed:
  - Component Inventory (verification only, not quantification)
  - Condition Assessment (based on on-site visual observations)
  - Life and Valuation Estimates
  - Fund Status
  - Funding Plan
- III. Update, No-Site-Visit/Off Site Review: A Reserve Study update with no on-site visual observations in which the following three Reserve Study tasks are performed:
  - Life and Valuation Estimates
  - Fund Status
  - Funding Plan

For more information go to <a href="www.caionline.org">www.caionline.org</a> or contact:

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# ON-GOING MAINTENANCE SERVICES FOR DMA CAPITAL RESERVE WORKING PLANS

DMA offers several maintenance and updating services for your Capital Reserve Working Plan.

#### **INITIAL PLAN CHANGES**

Within 90 days after delivery of the post-work session reserve study to you, we will make any requested corrections or revisions to the plan and resend the spreadsheets to you at no additional charge.

#### PERIODIC REVIEWS

At any time after delivery of your Capital Reserve Working Plan, DMA can review it to address any of the issues below:

- Major projects, unexpected expenditures
- Actual bids or contracts that vary in price from the study estimate
- Addition of new components / deletion of components from reserve account
- Deferral or advancement of replacement projects from estimated dates in the study
- Material changes in your community's financial position
- Changes or updates to the projected inflation rate or interest percentage earned on funds
- Annual review of the study by the Board or Management for next year's budget

We will make any requested revisions to the plan for an *hourly* charge of \$150.00 (One Hundred and Fifty Dollars), and resend the spreadsheets to you. We also have DMA's *file share* site where we can upload the schedule of components and you can make proposed changes to the schedule yourself and upload it back to the site. We can then update the study from that information. Typically, the time involved in these updates is

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one to two hours. On-line work sessions can be held also, at the same hourly rate. The maximum hourly cost for an annual update will not exceed the cost for a *Level III* study defined below. Our hourly fee for On-Going Working Plan Maintenance is charged in 30 minute increments.

#### LEVEL II RESERVE STUDY UPDATE (with site visit)

At any time after completion of a DMA prepared Level I or Level II capital reserve study we can perform a complete Level II Update. This includes revisiting your property and re-evaluating all components. We then reprice all reserve components, revise inflation and interest rates, update beginning year to current year, and include any changes in your reserve account status and status of components, actual replacement dates and costs, as provided by you. This service includes one on-line work session and one follow-up session. This service is priced by proposal only. Please visit our website to make a request for a proposal. We recommend that a Level II study be performed at least every 3 to 5 years.

### LEVEL III RESERVE STUDY FINANCIAL UPDATE (without site visit)

At any time up to four years after completion of a DMA prepared Level I or Level II capital reserve study, we offer a reserve study financial update which will include re-pricing all reserve components, revisions to inflation and interest rates, update beginning year to current year, and include any changes in your reserve account status and status of components, actual replacement dates and costs, as provided by you. This service includes one on-line work session and one follow-up session if necessary.

If you have additional questions about DMA reserve studies, please contact us at our office at 804-644-6404 or by e-mail at <a href="mailto:contact@dma-va.com">contact@dma-va.com</a>.