

# COLONIAL GREEN ALLEY SERVICE NEIGHBORHOOD

**ROANOKE, VA** 

### INTERACTIVE RESERVE ANALYSIS



DRAFT ISSUED:

5/14/2018

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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 Director 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.	3
EXECUTIVE SUMMARY  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.	5
SCHEDULE OF COMPONENTS  A complete listing of the community's assets included in the reserve account. This includes common area assets and may include limited common area assets. See "Scope of Reserves" in the Executive Summary for a list of inclusions or exclusions as appropriate.	7
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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 guotes 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.

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### **EXECUTIVE SUMMARY**

### **COLONIAL GREEN ALLEY SERVICE NEIGHBORHOOD**

### RESERVE SPECIALIST AND STAFF RESPONSIBLE FOR THIS ANALYSIS

This study was prepared under the direct supervision of:

Lynette Wuensch, a Reserve Specialist certified by the Community Association Institute and a registered Professional Engineer in Virginia, Florida and North Carolina. Ms. Wuensch holds a BS degree in Civil Engineering.

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

Lynette Wuensch, a Reserve Specialist certified by the Community Association Institute and a registered Professional Engineer in Virginia, Florida and North Carolina. Ms. Wuensch holds a BS degree in Civil Engineering.

The cost estimating data was prepared by:

Tim R. Gebott, who has over 40 years construction contract estimating and programming experience. Mr. Gebott holds a BS degree in Civil Engineering.

### **COMMUNITY INFORMATION**

### COLONIAL GREEN ALLEY SERVICE NEIGHBORHOOD

Study Level:	II .
Association Name:	Colonial Green Neighborhood Association
Community Location / Address:	Roanoke, Virginia
Community Size (Number of Units):	31 Townhomes and 5 Single Family homes
Unit Type(s):	Cottage homes, Cresent homes, Row houses and Townhomes
Management:	Hall Associates, Inc.
Represented by:	Christina L. Greene, CMCA, AMS, PCAM
Telephone and E-mail:	540-982-0011, ext. 155; Chrissy Greene <cgreene@hallassociatesinc.com></cgreene@hallassociatesinc.com>
Year(s) constructed:	2006
Scope of Reserves:	

#### FINANCIAL SUMMARY

Current Reserve Account Balance Information:				
Average annual income rate on reserve deposit accounts:	3.00%			
Balance on account:	\$14,130	as of	12/31/2017	
Less contributions already made this year:				
Plus expenditures already made and/or scheduled:				
Money held in investment accounts:	\$0			
Total balance:	\$14,130	as of	1/1/2018	
Reserve Account Contribution in Study Year:				
Current budgeted contribution for study year:	\$2,376	for	2018	
Recommended contribution for study year from Reserve Funding Navigator worksheet:	\$2,376			
Remaining contribution to be made for study year:	\$2,376			

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

This document is a draft print-out of the spreadsheet analysis for your community's capital reserve account. It illustrates your current fund balance, current funding level, investment income and projected annual expenditures - all in current dollars. **NOTE: THIS DRAFT REPORT DOES NOT CONTAIN A FUNDING SOLUTION!** The next step in the completion of this analysis is a **working session** conducted with representatives of the community. The working session will review all input information and assumptions made in the analysis. We will then look together at alternate funding plans, from which the community can select a model to become the recommended working in the report. For the session to be most successful, participants should include management, association board members and/or budget committee members. The working session can be conducted online via an internet link or in person. A complete explanation of the working session is available in our information article entitled "DMA's Working Session" included in the Appendix. Upon completion of the interactive working session(s) the primary results of the analysis will be shown below.

CASH FLOW FUNDING MODEL (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:	2.49%	
The projected annual contribution escalation rate in this printout is:	3.50%	
Because Four House Book of the control of the Contr	A	V
Reserve Funding Projections for next Four Years (from Reserve Funding Navigator):	<u>Amount</u>	<u>Year</u>
	\$2,459.16	2019
	\$2,545.23	2020
	\$2,634.31	2021
	\$2,726.51	2022



	BASIC COMPONENT INFO	SITE VIS	E VISIT INFORMATION			
LINE NUMBER COMPONENT NAME		LOCATION	FIELD MEASURED QUANTITY OR COUNT	UNITS	% QUANTITY TO BE REPLACED EACH OCCURRENCE	LAST IN- SERVICE DATE
						2006
1.00	ROW HOUSE ALLEY					
1.01	Asphalt overlay Row House Alley	Row House Alley	692	SY	100%	2006
1.02	Asphalt milling	Row House Alley	692	SY	100%	2006
1.03	Asphalt patching	Row House Alley	692	SY	5%	2014
2.00	PLUM ALLEY					
2.01	Asphalt overlay Plum Alley	Plum Alley	1,016	SY	100%	2014
2.02	Asphalt milling	Plum Alley	1,016	SY	100%	2014
2.03	Asphalt patching	Plum Alley	1,016	SY	5%	2014
2.04	French Drain	Plum Alley	45	LF	100%	2012
2.05	Concrete apron around French drain	Plum Alley	154	SF	100%	2012
3.00	TOWNHOME PARKING LOT & ACCESS					
3.01	Asphalt overlay of parking lot and access drives	Townhome Parking Lot & Access	525	SY	100%	2012
	Asphalt milling	Townhome Parking Lot & Access	525	SY	100%	2012
3.03	Asphalt patching	Townhome Parking Lot & Access	525	SY	5%	2012



## COMPONENT LIFECYCLE AND COSTING COLONIAL GREEN ALLET SERVICE NEIGHBORHOOD

BASIC COMPONENT INFORMATION			LIFE C	YCI E		REPLACEMENT COST					
	BASIC COMIT ONEN I INI ORMATION				, I OLL		LOCATION CCI	86.1		BASE CCI	87.3
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
			DEFAULT	DEFAULT	2018	AUTO CALC	NO EDITING	NO EDITING	NO EDITING	NO EDITING	NO EDITING
1.00	ROW HOUSE ALLEY										
1.01	Asphalt overlay Row House Alley	Row House Alley	25	25	13	2031	100%	SY	692	\$7.98	\$5,522.16
1.02	Asphalt milling	Row House Alley	25	25	13	2031	100%	SY	692	\$4.41	\$3,051.72
1.03	Asphalt patching	Row House Alley	5	5	1	2019	5%	SY	692	\$90.45	\$3,129.57
2.00	PLUM ALLEY										
2.01	Asphalt overlay Plum Alley	Plum Alley	25	25	21	2039	100%	SY	1,016	\$7.98	\$8,107.68
2.02	Asphalt milling	Plum Alley	25	25	21	2039	100%	SY	1,016	\$4.41	\$4,480.56
2.03	Asphalt patching	Plum Alley	10	5	6	2024	5%	SY	1,016	\$90.45	\$4,594.86
2.04	French Drain	Plum Alley	25	25	19	2037	100%	LF	45	\$73.97	\$3,328.65
2.05	Concrete apron around French drain	Plum Alley	25	25	19	2037	100%	SF	154	\$22.51	\$3,466.54
3.00	TOWNHOME PARKING LOT & ACCESS										
3.01	Asphalt overlay of parking lot and access drives	Townhome Parking Lot & Access	25	25	19	2037	100%	SY	525	\$7.98	\$4,189.50
3.02	Asphalt milling	Townhome Parking Lot & Access	25	25	19	2037	100%	SY	525	\$4.41	\$2,315.25
3.03	Asphalt patching	Townhome Parking Lot & Access	5	5	1	2019	5%	SY	525	\$90.45	\$2,374.31



# EXPENDITURE SUMMARY COLONIAL GREEN ALLEY SERVICE NEIGHBORHOOD

### 2018

Sum of 2018
LINE NUMBER COMPONENT NAM LOCATION Total

2019			
Sum of 2019			
LINE NUMBER	COMPONENT NAME	LOCATION	Total
1.03	Asphalt patching	Row House Alley	\$3,130
3.03	Asphalt patching	Townhome Parking Lot & Access	\$2,374

**Grand Total** 

\$5,504

2020
Sum of 2020
Sum of 2021
LINE NUMBER COMPONENT NAME LOCATION Total LINE NUMBER COMPONENT NAME LOCATION Total

2022
Sum of 2022
LINE NUMBER COMPONENT NAME
LOCATION Total
LINE NUMBER COMPONENT NAME
LOCATION Total

Sum of 2024			
LINE NUMBE	R COMPONENT NAME	LOCATION	Total
	1.03 Asphalt patching	Row House Alley	\$3,130
	2.03 Asphalt patching	Plum Alley	\$4,595
	3.03 Asphalt patching	Townhome Parking Lot & Access	\$2,374
<b>Grand Total</b>			\$10,099

Sum of 2025			
LINE NUMBER	COMPONENT NAME	LOCATION	Total

2026
Sum of 2026
Sum of 2027
LINE NUMBER COMPONENT NAME LOCATION Total
LINE NUMBER COMPONENT NAME LOCATION Total

Sum of 2028
LINE NUMBER COMPONENT NAME LOCATION Total

Sum of 2029				
LINE NUMBE	R	COMPONENT NAME	LOCATION	Total
	1.03	Asphalt patching	Row House Alley	\$3,130
	2.03	Asphalt patching	Plum Alley	\$4,595
	3.03	Asphalt patching	Townhome Parking Lot & Access	\$2,374
Grand Total				\$10,099

Sum of 2030
LINE NUMBER COMPONENT NAME LOCATION Total

Sum of 2031			
LINE NUMBER	<b>COMPONENT NAME</b>	LOCATION	Total
1.0	1 Asphalt overlay Row	House Alley Row House Alley	\$5,522
1.02	2 Asphalt milling	Row House Alley	\$3,052
<b>Grand Total</b>			\$8,574

2032
Sum of 2032
LINE NUMBER COMPONENT NAME LOCATION Total
LINE NUMBER COMPONENT NAME LOCATION Total

Sum of 2034		
LINE NUMBER COMPONENT NAME	LOCATION	Total
1.03 Asphalt patching	Row House Alley	\$3,130
2.03 Asphalt patching	Plum Alley	\$4,595
3.03 Asphalt patching	Townhome Parking Lot & Access	\$2,374
Grand Total		\$10,099

Sum of 2035			
LINE NUMBER	COMPONENT NAME	LOCATION	Total

Sum of 2036
LINE NUMBEI COMPONENT NAME LOCATION Total

Sum of 2037			
<b>LINE NUMBER</b>	COMPONENT NAME	LOCATION	Total
2.04	French Drain	Plum Alley	\$3,329
2.05	Concrete apron around French drain	Plum Alley	\$3,467
3.01	Asphalt overlay of parking lot and access	Townhome Parking Lot & Access	\$4,190
3.02	Asphalt milling	Townhome Parking Lot & Access	\$2,315
<b>Grand Total</b>			\$13,300

Sum of 2038
LINE NUMBER COMPONENT NAME LOCATION Total

Sum of 2039			
LINE NUMBER	COMPONENT NAME	LOCATION	Total
1.03	Asphalt patching	Row House Alley	\$3,130
2.01	Asphalt overlay Plum Alley	Plum Alley	\$8,108
2.02	Asphalt milling	Plum Alley	\$4,481
<b>Grand Total</b>			\$15,718

2040
Sum of 2040
Sum of 2040
LINE NUMBER COMPONENT NAME LOCATION Total
LINE NUMBER COMPONENT NAME LOCATION Total

2042
Sum of 2042
LINE NUMBER COMPONENT NAME LOCATION Total
LINE NUMBER COMPONENT NAME LOCATION Total

Sum of 2044			
LINE NUMBER C	COMPONENT NAME	LOCATION	Total
1.03 A	Asphalt patching	Row House Alley	\$3,130
2.03 A	Asphalt patching	Plum Alley	\$4,595
3.03 A	Asphalt patching	Townhome Parking Lot & Access	\$2,374
Grand Total			\$10,099

Sum of 2045			
LINE NUMBER	COMPONENT NAME	LOCATION	Total

2046
Sum of 2046
Sum of 2047
LINE NUMBER COMPONENT NAME LOCATION Total
LINE NUMBER COMPONENT NAME LOCATION Total

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### RESERVE FUNDING NAVIGATOR

CASH FLOW METHODOLOGY

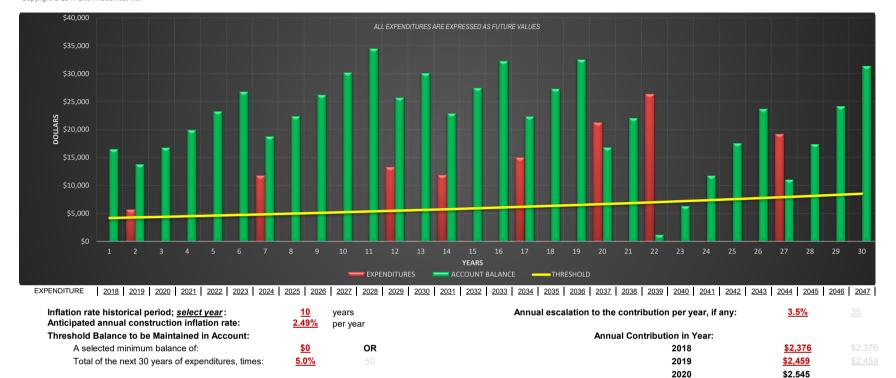
\$2,634

\$2.727

#### COLONIAL GREEN ALLEY SERVICE NEIGHBORHOOD

2021

2022



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 COLONIAL GREEN ALLEY SERVICE NEIGHBORHOOD

YEAR	1	2	3	4	5
CALENDAR YEAR	2018	2019	2020	2021	2022
PROGRAMMED EXPENDITURES, PRESENT WORTH VALUES					
SCHEDULE OF REPAIRS AND REPLACEMENTS	\$0	\$5,504	\$0	\$0	\$0
CAPITAL IMPROVEMENT PROJECTS	\$0	\$0	\$0	\$0	\$0
		•	•	•	
BEGINNING YEAR BALANCE	\$14,130	\$16,506	\$13,819	\$16,779	\$19,917
FINANCIAL ANALYSIS SUMMARY					
INCOME					
CONTRIBUTION TO RESERVES	\$2,376	\$2,459	\$2,545	\$2,634	\$2,727
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	\$0	\$495	\$415	\$503	\$598
INVESTMENT 1	\$0	\$0	\$0	\$0	\$0
INVESTMENT 2	\$0	\$0	\$0	\$0	\$0
TOTAL INCOME	\$2,376	\$2,954	\$2,960	\$3,138	\$3,324
EXPENDITURES, FUTURE VALUES					
SCHEDULE OF REPAIRS AND REPLACEMENTS	\$0	\$5,641	\$0	\$0	\$0
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	\$0	\$5,641	\$0	\$0	\$0
END OF YEAR BALANCE	\$16,506	\$13,819	\$16,779	\$19,917	\$23,241
				ı	
MINIMUM ACCOUNT THRESHOLD					
CALCULATED THRESHOLD AS A % OF TOTAL 30 YEAR COSTS	\$4,175	\$4,279	\$4,385	\$4,494	\$4,606
FUNDING OBJECTIVE MET?	YES	YES	YES	YES	YES
MINIMUM REQUIRED CASH TRANSFER	\$0	\$0	\$0	\$0	\$0
ESCALATION, INFLATION, EARNINGS RATES					
ANNUAL CONTRIBUTION ESCALATION:	N/A	3.50%	3.50%	3.50%	3.50%
ANNUAL CONSTRUCTION COST ESCALATION:	N/A	2.49%	2.49%	2.49%	2.49%
ANNUAL RESERVE ACCOUNT INCOME RATE	3.00%	3.00%	3.00%	3.00%	3.00%



YEAR	6	7	8	9	10
CALENDAR YEAR	2023	2024	2025	2026	2027
PROGRAMMED EXPENDITURES, PRESENT WORTH VALUES					
SCHEDULE OF REPAIRS AND REPLACEMENTS	\$0	\$10,099	\$0	\$0	\$0
CAPITAL IMPROVEMENT PROJECTS	\$0	\$0	\$0	\$0	\$0
BEGINNING YEAR BALANCE	\$23,241	\$26,760	\$18,778	\$22,364	\$26,164
FINANCIAL ANALYSIS SUMMARY		T	1		
INCOME					
CONTRIBUTION TO RESERVES	\$2,822	\$2,921	\$3,023	\$3,129	\$3,238
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	\$697	\$803	\$563	\$671	\$785
INVESTMENT 1	\$0	\$0	\$0	\$0	\$0
INVESTMENT 2	\$0	\$0	\$0	\$0	\$0
TOTAL INCOME	\$3,519	\$3,724	\$3,586	\$3,800	\$4,023
			1		
EXPENDITURES, FUTURE VALUES					
SCHEDULE OF REPAIRS AND REPLACEMENTS	\$0	\$11,706	\$0	\$0	\$0
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	\$0	\$11,706	\$0	\$0	\$0
END OF YEAR BALANCE	\$26,760	\$18,778	\$22,364	\$26,164	\$30,187
MINIMUM ACCOUNT THRESHOLD					
CALCULATED THRESHOLD AS A % OF TOTAL 30 YEAR COSTS	\$4,721	\$4,839	\$4,959	\$5,083	\$5,209
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:	2.49%	2.49%	2.49%	2.49%	2.49%
ANNUAL RESERVE ACCOUNT INCOME RATE	3.00%	3.00%	3.00%	3.00%	3.00%



YEAR	11	12	13	14	15
CALENDAR YEAR	2028	2029	2030	2031	2032
PROGRAMMED EXPENDITURES, PRESENT WORTH VALUES					
SCHEDULE OF REPAIRS AND REPLACEMENTS	\$0	\$10,099	\$0	\$8,574	\$0
CAPITAL IMPROVEMENT PROJECTS	\$0	\$0	\$0	\$0	\$0
,					
BEGINNING YEAR BALANCE	\$30,187	\$34,444	\$25,708	\$30,070	\$22,882
FINANCIAL ANALYSIS SUMMARY					
INCOME					
CONTRIBUTION TO RESERVES	\$3,352	\$3,469	\$3,590	\$3,716	\$3,846
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	\$906	\$1,033	\$771	\$902	\$686
INVESTMENT 1	\$0	\$0	\$0	\$0	\$0
INVESTMENT 2	\$0	\$0	\$0	\$0	\$0
TOTAL INCOME	\$4,257	\$4,502	\$4,362	\$4,618	\$4,532
EXPENDITURES, FUTURE VALUES					
SCHEDULE OF REPAIRS AND REPLACEMENTS	\$0	\$13,238	\$0	\$11,806	\$0
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	<b>\$</b> 0	\$13,238	\$0	\$11,806	\$0
END OF YEAR BALANCE	\$34,444	\$25,708	\$30,070	\$22,882	\$27,414
MINIMUM ACCOUNT THRESHOLD					
CALCULATED THRESHOLD AS A % OF TOTAL 30 YEAR COSTS	\$5,339	\$5,472	\$5,609	\$5,748	\$5,892
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:	2.49%	2.49%	2.49%	2.49%	2.49%
ANNUAL RESERVE ACCOUNT INCOME RATE	3.00%	3.00%	3.00%	3.00%	3.00%



YEAR	16	17	18	19	20
CALENDAR YEAR	2033	2034	2035	2036	2037
PROGRAMMED EXPENDITURES, PRESENT WORTH VALUES					
SCHEDULE OF REPAIRS AND REPLACEMENTS	\$0	\$10,099	\$0	\$0	\$13,300
CAPITAL IMPROVEMENT PROJECTS	\$0	\$0	\$0	\$0	\$0
BEGINNING YEAR BALANCE	\$27,414	\$32,217	\$22,332	\$27,266	\$32,497
FINANCIAL ANALYSIS SUMMARY					
INCOME					
CONTRIBUTION TO RESERVES	\$3,981	\$4,120	\$4,264	\$4,413	\$4,568
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	\$822	\$967	\$670	\$818	\$975
INVESTMENT 1	\$0	\$0	\$0	\$0	\$0
INVESTMENT 2	\$0	\$0	\$0	\$0	\$0
TOTAL INCOME	\$4,803	\$5,086	\$4,934	\$5,231	\$5,543
EXPENDITURES, FUTURE VALUES					
SCHEDULE OF REPAIRS AND REPLACEMENTS	\$0	\$14,972	\$0	\$0	\$21,228
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	<b>\$</b> 0	\$14,972	\$0	\$0	\$21,228
END OF YEAR BALANCE	\$32,217	\$22,332	\$27,266	\$32,497	\$16,812
MINIMUM ACCOUNT THRESHOLD					
CALCULATED THRESHOLD AS A % OF TOTAL 30 YEAR COSTS	\$6,038	\$6,189	\$6,343	\$6,501	\$6,663
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:	2.49%	2.49%	2.49%	2.49%	2.49%
ANNUAL RESERVE ACCOUNT INCOME RATE	3.00%	3.00%	3.00%	3.00%	3.00%



YEAR	21	22	23	24	25
CALENDAR YEAR	2038	2039	2040	2041	2042
PROGRAMMED EXPENDITURES, PRESENT WORTH VALUES					
SCHEDULE OF REPAIRS AND REPLACEMENTS	\$0	\$15,718	\$0	\$0	\$0
CAPITAL IMPROVEMENT PROJECTS	\$0	\$0	\$0	\$0	\$0
,					
BEGINNING YEAR BALANCE	\$16,812	\$22,044	\$1,246	\$6,348	\$11,780
FINANCIAL ANALYSIS SUMMARY					
INCOME					
CONTRIBUTION TO RESERVES	\$4,728	\$4,893	\$5,064	\$5,242	\$5,425
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	\$504	\$661	\$37	\$190	\$353
INVESTMENT 1	\$0	\$0	\$0	\$0	\$0
INVESTMENT 2	\$0	\$0	\$0	\$0	\$0
TOTAL INCOME	\$5,232	\$5,555	\$5,102	\$5,432	\$5,779
					<u> </u>
EXPENDITURES, FUTURE VALUES					
SCHEDULE OF REPAIRS AND REPLACEMENTS	\$0	\$26,353	\$0	\$0	\$0
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	<b>\$</b> 0	\$26,353	\$0	\$0	\$0
END OF YEAR BALANCE	\$22,044	\$1,246	\$6,348	\$11,780	\$17,558
MINIMUM ACCOUNT THRESHOLD					
CALCULATED THRESHOLD AS A % OF TOTAL 30 YEAR COSTS	\$6,829	\$6,999	\$7,174	\$7,352	\$7,535
FUNDING OBJECTIVE MET?	YES	NO	NO	YES	YES
MINIMUM REQUIRED CASH TRANSFER	\$0	\$5,753	\$826	\$0	\$0
ESCALATION, INFLATION, EARNINGS RATES					
ANNUAL CONTRIBUTION ESCALATION:	3.50%	3.50%	3.50%	3.50%	3.50%
ANNUAL CONSTRUCTION COST ESCALATION:	2.49%	2.49%	2.49%	2.49%	2.49%
ANNUAL RESERVE ACCOUNT INCOME RATE	3.00%	3.00%	3.00%	3.00%	3.00%



YEAR	26	27	28	29	30
CALENDAR YEAR	2043	2044	2045	2046	2047
PROGRAMMED EXPENDITURES, PRESENT WORTH VALUES					
SCHEDULE OF REPAIRS AND REPLACEMENTS	\$0	\$10,099	\$0	\$0	\$0
CAPITAL IMPROVEMENT PROJECTS	\$0	\$0	\$0	\$0	\$0
			1		
BEGINNING YEAR BALANCE	\$17,558	\$23,700	\$11,074	\$17,421	\$24,169
FINANCIAL ANALYSIS SUMMARY					
INCOME					
CONTRIBUTION TO RESERVES	\$5,615	\$5,812	\$6,015	\$6,226	\$6,443
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	\$527	\$711	\$332	\$523	\$725
INVESTMENT 1	\$0	\$0	\$0	\$0	\$0
INVESTMENT 2	\$0	\$0	\$0	\$0	\$0
TOTAL INCOME	\$6,142	\$6,523	\$6,347	\$6,748	\$7,169
EXPENDITURES, FUTURE VALUES					
SCHEDULE OF REPAIRS AND REPLACEMENTS	\$0	\$19,149	\$0	\$0	\$0
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	<b>\$</b> 0	\$19,149	\$0	\$0	\$0
END OF YEAR BALANCE	\$23,700	\$11,074	\$17,421	\$24,169	\$31,338
MINIMUM ACCOUNT THRESHOLD					
CALCULATED THRESHOLD AS A % OF TOTAL 30 YEAR COSTS	\$7,723	\$7,916	\$8,113	\$8,315	\$8,522
FUNDING OBJECTIVE MET?	YES	YES	YES	YES	YES
MINIMUM REQUIRED CASH TRANSFER	\$0	\$0	\$0	\$0	\$0
			1		
ESCALATION, INFLATION, EARNINGS RATES					
ANNUAL CONTRIBUTION ESCALATION:	3.50%	3.50%	3.50%	3.50%	3.50%
ANNUAL CONSTRUCTION COST ESCALATION:	2.49%	2.49%	2.49%	2.49%	2.49%
ANNUAL RESERVE ACCOUNT INCOME RATE	3.00%	3.00%	3.00%	3.00%	3.00%



# ASSESSMENT ALLOCATION COLONIAL GREEN ALLEY SERVICE NEIGHBORHOOD

### **TOTAL BUDGET**

Year	Reserve Assessment	Operating Budget Assessment*	Total Assessment	Reserves as a Percentage of Total Assessment	Annual Increase In Total Assessment	Special Assessments
2018	\$2,376.00	\$0.00	\$2,376.00	100.00%		\$0.00
2019	\$2,459.16	\$0.00	\$2,459.16	100.00%	3.50%	\$0.00
2020	\$2,545.23	\$0.00	\$2,545.23	100.00%	3.50%	\$0.00
2021	\$2,634.31	\$0.00	\$2,634.31	100.00%	3.50%	\$0.00
2022	\$2,726.51	\$0.00	\$2,726.51	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>5</u>	<u>31</u>
Unit Type	Single Family	Townhomes
Percentage Allocation To Unit Type	20.00%	80.00%
Number of Units of This Type	5	31

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

Year	Reserve Assessment	Operating Budget Assessment  Total Assessm		ent Special Assessments	
2018	\$156.36	\$0.00	\$156.36	\$0.00	
2019	\$161.83	\$0.00	\$161.83	\$0.00	
2020	\$167.49	\$0.00	\$167.49	\$0.00	
2021	\$173.35	\$0.00	\$173.35	\$0.00	
2022	\$179.42	\$0.00	\$179.42	\$0.00	

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

Year I		Reserve Assessment	Operating Budget Assessment	Total Assessment	Special Assessments	
	2018	\$13.03	\$0.00	\$13.03	\$0.00	
	2019	\$13.49	\$0.00	\$13.49	\$0.00	
	2020	\$13.96	\$0.00	\$13.96	\$0.00	
	2021	\$14.45	\$0.00	\$14.45	\$0.00	
	2022	\$14.95	\$0.00	\$14.95	\$0.00	

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### HISTORIC COST INDICES

Source: R.S. MEANS

				Direct Cost		Average Annual	
Year	Index	Difference	% Increase	Multiplier	Period in Years	Escalation	Month
2016	207.2	0	0.00%	1.0000	0	n/a	Estimated as of January
2015	206.2	1	0.48%	1.0048	1	0.48%	As of January
2014	204.9	2.3	1.12%	1.0112	2	0.56%	As of January
2013	201.2	6	2.98%	1.0298	3	0.98%	As of January
2012	194.6	12.6	6.47%	1.0647	4	1.58%	As of January
2011	191.2	16	8.37%	1.0837	5	1.62%	As of January
2006	162.0	45.2	27.90%	1.2790	10	2.49%	As of January
2001	125.1	82.1	65.63%	1.6563	15	3.42%	As of January

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 maintains 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 significantly from the current inflation rate, you should make a corresponding adjustment for 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.