COLONIAL GREEN TOWNHOMES MASTER

ROANOKE, VA

INTERACTIVE RESERVE ANALYSIS



DRAFT ISSUED: 5/14/2018 MANAGER REVIEW: FINAL REPORT ISSUED: REVISION/UPDATE ISSUED:



2302 E. Cary Street Richmond, Va. 23223 804-644-6404 DMAreserves.com Copyright © 2017 DMA Reserves, Inc.

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.



TABLE OF CONTENTSCOLONIAL GREEN TOWNHOMES MASTER

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	3
Contains Community Associations Institute (CAI) National Standards, limitations and legal restrictions on the use of information in this document and legal disclosures.	
EXECUTIVE SUMMARY	5
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.	
SCHEDULE OF COMPONENTS	7
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.	
EXPENDITURE SUMMARY	9
This multi-page chart shows the reserve replacement projects budgeted for completion in each year of the 30-year study. Note: all costs in this chart are shown in current dollars.	
RESERVE FUNDING NAVIGATOR	24
This graph illustrates the reserve funding plan over the next 30 years. It shows the inflation rate used in the analysis as well as the contribution escalation rate required to fully fund the plan.	
CASH FLOW SPREADSHEETS	25
A spreadsheet divided into 6 pages showing the cash flow funding plan over 30 years. The total budgeted expenditures for each year, from the Expenditure Summary chart, are converted to future dollars on this sheet when an inflation rate has been introduced.	
ASSESSMENT ALLOCATION	31
The projected reserve account contributions for the next five years are broken down to an average cost per unit owner. An optional calculation is provided to show the operating fund allocation and total assessment allocation as well.	
ESCALATION CALCULATIONS	32
A list of historic indices based on R.S. Means	
APPENDIX	33
Includes several articles that explain how DMA's analyses work, how we estimate costs and useful life, and how we project the inflation rates. Also includes CAI National Reserve Study Standards and an explanation of maintenance and updating of this analysis.	



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

Ownership of Reports, Electronic Files, Data, Media, Software Programs and Other Related Materials: Reports, electronic files, data, media, software programs and other related materials are instruments of professional service. Therefore, the aforementioned are considered the intellectual property of DMA and shall remain the exclusive property of DMA and, where appropriate, shall be protected and copyrighted under the laws of the United States with all rights reserved. The Client and the Property Manager (Client's authorized representative or agent) are the only entities entitled to use these documents and only in connection with this project. Distribution of these documents and any electronic files, data, media, software programs, written and electronic communications, and other related materials produced by DMA relative to this project, and in accordance with the provisions of the Agreement, to ANY THIRD PARTIES is strictly prohibited without the express written consent of DMA.

Use of Electronic Files, Media, Software and Programs: DMA may transmit these documents as electronic files. DMA shall not be responsible for any viruses that may be transmitted with the electronic files, media, software or programs furnished to the Client. DMA shall not be responsible for any data erosion, erasure, alteration or failure of electronic files, media, software or programs that may occur at the time of transmission or over time. DMA makes no warranty as to the compatibility of the electronic files, media, software or programs with any operating system or programs.

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

COLONIAL GREEN TOWNHOMES MASTER

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 TOWNHOMES MASTER

Study Level:	II
Association Name:	Colonial Green Neighborhood Association
Community Location / Address:	Roanoke, Virginia
Community Size (Number of Units):	10
Unit Type(s):	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:	2012
Scope of Reserves:	

FINANCIAL SUMMARY

Current Reserve Account Balance Information:

Average annual income rate on reserve deposit accounts:	0.10%			
Balance on account:	<u>\$9,449</u>	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:	\$9,449	as of	1/1/2018	
Reserve Account Contribution in Study Year:				
Current budgeted contribution for study year:	\$3,170	for	2018	
Recommended contribution for study year from Reserve Funding Navigator worksheet:	\$3,170			
Remaining contribution to be made for study year:	\$3,170			

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:	2.00%	
Reserve Funding Projections for next Four Years (from Reserve Funding Navigator):	<u>Amount</u>	Year
	\$3,233.56	2019
	\$3,298.23	2020
	\$3,364.20	2021
	\$3,431.48	2022



B	BASIC COMPONENT INFORMATION		IT INF	ORMATION	4
LINE NUMBER	COMPONENT NAME	FIELD MEASURED QUANTITY OR COUNT	UNITS	% QUANTITY TO BE REPLACED EACH OCCURRENCE	L S
1.00	TOWNHOMES				
1.01	Retaining Wall	210	SF	100%	
1.02	Water laterals from townhome to meter	350	LF	10%	
1.03	Sewer laterals to main	300	LF	5%	
1.04	Roofs - 2A1 - A, B, C, D	42	SQ	100%	
1.05	Roofs - 2A2 - E, F, G, H, J, K	56	SQ	100%	
1.06	Soffits, Fascia, Trim -2A1 - A, B, C, D	2,009	LF	100%	
1.07	Soffits, Fascia, Trim -2A2 - E, F, G, H, J, K	1,690	LF	100%	
1.08	Gutters and Downspouts - 2A1 - A, B, C, D	660	LF	100%	
1.09	Gutters and Downspouts - 2A2 - E, F, G, H, J, K	760	LF	100%	
1.10	Vinyl Siding - 2A1 - A, B, C, D	7,000	SF	100%	
1.11	Vinyl Siding - 2A2 - E, F, G, H, J, K	8,500	SF	100%	
1.12	Pergola	180	SF	100%	
1.12	Grills	2	EA	100%	
1.13	Sidewalk and Concrete pad for Pergola	3,725	LF	5%	

AGE
LAST IN- SERVICE DATE
2012
2012
2012
2012
2012
2013
2012
2013
2012
2013
2012
2013
2013
2013
2012



COMPONENT LIFECYCLE AND COSTING COLONIAL GREEN TOWNHOMES MASTER

BASIC COMPONENT INFORMATION					REPLACEMENT COST					
D	BASIC COMPONENT INFORMATION					LOCATION CCI 86.1 BASE CCI 87.3			87.3	
LINE NUMBER	COMPONENT NAME	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	TOWNHOMES									
1.01	Retaining Wall	50	50	44	2062	100%	SF	210	\$92.45	\$19,414.50
1.02	Water laterals from townhome to meter	30	10	24	2042	10%	LF	350	\$88.08	\$3,082.80
1.03	Sewer laterals to main	50	10	44	2062	5%	LF	300	\$53.05	\$795.75
1.04	Roofs - 2A1 - A, B, C, D	25	25	19	2037	100%	SQ	42	\$372.20	\$15,632.40
1.05	Roofs - 2A2 - E, F, G, H, J, K	25	25	20	2038	100%	SQ	56	\$372.20	\$20,843.20
1.06	Soffits, Fascia, Trim -2A1 - A, B, C, D	40	40	34	2052	100%	LF	2,009	\$5.42	\$10,888.78
1.07	Soffits, Fascia, Trim -2A2 - E, F, G, H, J, K	40	40	35	2053	100%	LF	1,690	\$5.42	\$9,159.80
1.08	Gutters and Downspouts - 2A1 - A, B, C, D	25	25	19	2037	100%	LF	660	\$9.58	\$6,322.80
1.09	Gutters and Downspouts - 2A2 - E, F, G, H, J, K	25	25	20	2038	100%	LF	760	\$9.58	\$7,280.80
1.10	Vinyl Siding - 2A1 - A, B, C, D	40	40	34	2052	100%	SF	7,000	\$6.30	\$44,100.00
1.11	Vinyl Siding - 2A2 - E, F, G, H, J, K	40	40	35	2053	100%	SF	8,500	\$6.30	\$53,550.00
1.12	Pergola	35	35	30	2048	100%	SF	180	\$17.62	\$3,171.60
1.12	Grills	10	10	5	2023	100%	EA	2	\$73.97	\$147.94
1.13	Sidewalk and Concrete pad for Pergola	25	5	19	2037	5%	LF	3,725	\$9.58	\$1,784.28



EXPENDITURE SUMMARY COLONIAL GREEN TOWNHOMES MASTER

2018		
Sum of 2018		
LINE NUMBER	COMPONENT NAM LOCATION	Total

2019 Sum of 2019 LINE NUMBER COMPONENT NAME LOCATION Total

2020				2021		
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

2023		
Sum of 2023		
LINE NUMBER COMPONENT NAME	LOCATION	Total
1.12 Grills	(blank)	\$148
Grand Total		\$148

2024		
Sum of 2024		
LINE NUMBER	COMPONENT NAME LOCATION	Total

2025 Sum of 2025 LINE NUMBER COMPONENT NAME LOCATION Total

2026			
Sum of 2026			
LINE NUMBER	COMPONENT NAME	LOCATION	Total

2027			
Sum of 2027			
LINE NUMBER	COMPONENT NAME	LOCATION	Total

2028			
Sum of 2028			
LINE NUMBER	COMPONENT NAME	LOCATION	Total

2029 Sum of 2029 LINE NUMBER COMPONENT NAME LOCATION Total

2030			
Sum of 2030			
LINE NUMBER	COMPONENT NAME	LOCATION	Total

2031			
Sum of 2031			
LINE NUMBER	COMPONENT NAME	LOCATION	Total

2032			
Sum of 2032			
LINE NUMBER	COMPONENT NAME	LOCATION	Total

2033			
Sum of 2033			
LINE NUMBER	COMPONENT NAME	LOCATION	Total
1.1	2 Grills	(blank)	\$148
Grand Total			\$148

2034			
Sum of 2034			
LINE NUMBER	COMPONENT NAME	LOCATION	Total

2035			
Sum of 2035			
LINE NUMBER	COMPONENT NAME	LOCATION	Total

2036 Sum of 2036 LINE NUMBER COMPONENT NAME LOCATION Total

2027

2037		
Sum of 2037		
LINE NUMBER COMPONENT NAME	LOCATION	Total
1.04 Roofs - 2A1 - A, B, C, D	(blank)	\$15,632
1.08 Gutters and Downspouts - 2A1 - A, B, C, D	(blank)	\$6,323
1.13 Sidewalk and Concrete pad for Pergola	(blank)	\$1,784
Grand Total		\$23,739

2038			2039			
Sum of 2038			Sum of 2039			
LINE NUMBER COMPONENT NAME	LOCATION	Total	LINE NUMBER	COMPONENT NAME	LOCATION	Total
1.05 Roofs - 2A2 - E, F, G, H, J, K	(blank)	\$20,843				
1.09 Gutters and Downspouts - 2A2 - E, F, G, H,	J, K (blank)	\$7,281				
Grand Total		\$28,124				

2040				2041			
Sum of 2040				Sum of 2041			
LINE NUMBER	COMPONENT NAME	LOCATION	Total	LINE NUMBER	COMPONENT NAME	LOCATION	Total

2042		
Sum of 2042		
LINE NUMBER COMPONENT NAME	LOCATION	Total
1.02 Water laterals from townhome to meter	· (blank)	\$3,083
1.13 Sidewalk and Concrete pad for Pergola	ı (blank)	\$1,784
Grand Total		\$4,867

2043			
Sum of 2043			
LINE NUMBER	COMPONENT NAME	LOCATION	Total
1.12	2 Grills	(blank)	\$148
Grand Total			\$148

2044				2045			
Sum of 2044				Sum of 2045			
LINE NUMBER	COMPONENT NAME	LOCATION	Total	LINE NUMBER	COMPONENT NAME	LOCATION	Total

2046			
Sum of 2046			
LINE NUMBER	COMPONENT NAME	LOCATION	Total

2047		
Sum of 2047		
LINE NUMBER COMPONENT NAME	LOCATION	Total
1.13 Sidewalk and Concrete pad for Pergola	(blank)	\$1,784
Grand Total		\$1,784



CASH FLOW METHODOLOGY

RESERVE FUNDING NAVIGATOR COLONIAL GREEN TOWNHOMES MASTER



Inflation rate historical period; <u>select year</u> : Anticipated annual construction inflation rate:	<u>10</u> 2.49%	years per year	Annual escalation to the contribution per year, if
Threshold Balance to be Maintained in Account:			Annual Contribution in Year:
A selected minimum balance of:	<u>\$0</u>	OR	2018
Total of the next 30 years of expenditures, times:	<u>5.0%</u>	50	2019
			2020
			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.

if any:

<u>2.0%</u>

r:

<u>\$3</u>	,170
\$3 .	<mark>,234</mark>
\$3	,298
\$3	,364
\$3	,431



CASH FLOW SPREADSHEET COLONIAL GREEN TOWNHOMES MASTER

YEAR	1	2	3	4	5
CALENDAR YEAR	2018	2019	2020	2021	2022
PROGRAMMED EXPENDITURES, PRESENT WORTH VALUES					
SCHEDULE OF REPAIRS AND REPLACEMENTS	\$0	\$0	\$0	\$0	\$0
CAPITAL IMPROVEMENT PROJECTS	\$0	\$0	\$0	\$0	\$0
BEGINNING YEAR BALANCE	\$9,449	\$12,619	\$15,865	\$19,179	\$22,562
FINANCIAL ANALYSIS SUMMARY					
NCOME					
CONTRIBUTION TO RESERVES	\$3,170	\$3,234	\$3,298	\$3,364	\$3,431
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	\$13	\$16	\$19	\$23
NVESTMENT 1	\$0	\$0	\$0	\$0	\$0
NVESTMENT 2	\$0	\$0	\$0	\$0	\$0
TOTAL INCOME	\$3,170	\$3,246	\$3,314	\$3,383	\$3,454
			_		-
EXPENDITURES, FUTURE VALUES					
SCHEDULE OF REPAIRS AND REPLACEMENTS	\$0	\$0	\$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	\$0	\$0	\$0	\$0
END OF YEAR BALANCE	\$12,619	\$15,865	\$19,179	\$22,562	\$26,016
MINIMUM ACCOUNT THRESHOLD					
CALCULATED THRESHOLD AS A % OF TOTAL 30 YEAR COSTS	\$2,948	\$3,021	\$3,097	\$3,174	\$3,253
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	2.00%	2.00%	2.00%	2.00%
ANNUAL CONSTRUCTION COST ESCALATION:	N/A	2.49%	2.49%	2.49%	2.49%
ANNUAL RESERVE ACCOUNT INCOME RATE	0.10%	0.10%	0.10%	0.10%	0.10%



YEAR	6	7	8	9	10
CALENDAR YEAR	2023	2024	2025	2026	2027

PROGRAMMED EXPENDITURES, PRESENT WORTH VALUES					
SCHEDULE OF REPAIRS AND REPLACEMENTS	\$148	\$0	\$0	\$0	\$0
CAPITAL IMPROVEMENT PROJECTS	\$0	\$0	\$0	\$0	\$0

BEGINNING YEAR BALANCE	\$26,016	\$29,375	\$32,975	\$36,649	\$40,400
FINANCIAL ANALYSIS SUMMARY					
INCOME					
CONTRIBUTION TO RESERVES	\$3,500	\$3,570	\$3,642	\$3,714	\$3,789
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	\$26	\$29	\$33	\$37	\$40
INVESTMENT 1	\$0	\$0	\$0	\$0	\$0
INVESTMENT 2	\$0	\$0	\$0	\$0	\$0
TOTAL INCOME	\$3,526	\$3,599	\$3,674	\$3,751	\$3,829
TOTAL INCOME	\$3,526	\$3,599	\$3,674	\$3,751	\$3,82

EXPENDITURES, FUTURE VALUES					
SCHEDULE OF REPAIRS AND REPLACEMENTS	\$167	\$0	\$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	\$167	\$ 0	\$0	\$0	\$0

END OF YEAR BALANCE\$29,375\$36,649\$40,400\$44,229

MINIMUM ACCOUNT THRESHOLD					
CALCULATED THRESHOLD AS A % OF TOTAL 30 YEAR COSTS	\$3,334	\$3,417	\$3,502	\$3,589	\$3,679
FUNDING OBJECTIVE MET?	YES	YES	YES	YES	YES
MINIMUM REQUIRED CASH TRANSFER	\$0	\$0	\$0	\$0	\$0

ESCALATION, INFLATION, EARNINGS RATES					
ANNUAL CONTRIBUTION ESCALATION:	2.00%	2.00%	2.00%	2.00%	2.00%
ANNUAL CONSTRUCTION COST ESCALATION:	2.49%	2.49%	2.49%	2.49%	2.49%
ANNUAL RESERVE ACCOUNT INCOME RATE	0.10%	0.10%	0.10%	0.10%	0.10%



YEAR	11	12	13	14	15
CALENDAR YEAR	2028	2029	2030	2031	2032

PROGRAMMED EXPENDITURES, PRESENT WORTH VALUES					
SCHEDULE OF REPAIRS AND REPLACEMENTS	\$0	\$0	\$0	\$0	\$0
CAPITAL IMPROVEMENT PROJECTS	\$0	\$0	\$0	\$0	\$0

BEGINNING YEAR BALANCE	\$44,229	\$48,138	\$52,128	\$56,200	\$60,357
FINANCIAL ANALYSIS SUMMARY					
INCOME					
CONTRIBUTION TO RESERVES	\$3,864	\$3,942	\$4,021	\$4,101	\$4,183
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	\$44	\$48	\$52	\$56	\$60
INVESTMENT 1	\$0	\$0	\$0	\$0	\$0
INVESTMENT 2	\$0	\$0	\$0	\$0	\$0
TOTAL INCOME	\$3,909	\$3,990	\$4,073	\$4,157	\$4,243
EXPENDITURES, FUTURE VALUES					

EXPENDITORES, FOTORE VALUES					
SCHEDULE OF REPAIRS AND REPLACEMENTS	\$0	\$0	\$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	\$0	\$0	\$0	\$0

END OF YEAR BALANCE \$48,138 \$52,128 \$56,200 \$60,357 \$64,601

MINIMUM ACCOUNT THRESHOLD					
CALCULATED THRESHOLD AS A % OF TOTAL 30 YEAR COSTS	\$3,770	\$3,864	\$3,961	\$4,059	\$4,160
FUNDING OBJECTIVE MET?	YES	YES	YES	YES	YES
MINIMUM REQUIRED CASH TRANSFER	\$0	\$0	\$0	\$0	\$0

ESCALATION, INFLATION, EARNINGS RATES					
ANNUAL CONTRIBUTION ESCALATION:	2.00%	2.00%	2.00%	2.00%	2.00%
ANNUAL CONSTRUCTION COST ESCALATION:	2.49%	2.49%	2.49%	2.49%	2.49%
ANNUAL RESERVE ACCOUNT INCOME RATE	0.10%	0.10%	0.10%	0.10%	0.10%



YEAR	16	17	18	19	20
CALENDAR YEAR	2033	2034	2035	2036	2037

PROGRAMMED EXPENDITURES, PRESENT WORTH VALUES					
SCHEDULE OF REPAIRS AND REPLACEMENTS	\$148	\$0	\$0	\$0	\$23,739
CAPITAL IMPROVEMENT PROJECTS	\$0	\$0	\$0	\$0	\$0

BEGINNING YEAR BALANCE	\$64,601	\$68,718	\$73,139	\$77,651	\$82,256
FINANCIAL ANALYSIS SUMMARY					
INCOME					
CONTRIBUTION TO RESERVES	\$4,267	\$4,352	\$4,439	\$4,528	\$4,618
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	\$65	\$69	\$73	\$78	\$82
INVESTMENT 1	\$0	\$0	\$0	\$0	\$0
INVESTMENT 2	\$0	\$0	\$0	\$0	\$0
TOTAL INCOME	\$4,331	\$4,421	\$4,512	\$4,605	\$4,701

EXPENDITURES, FUTURE VALUES					
SCHEDULE OF REPAIRS AND REPLACEMENTS	\$214	\$0	\$0	\$0	\$37,891
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	\$214	\$0	\$0	\$0	\$37,891

END OF YEAR BALANCE \$68,718 \$73,139 \$77,651 \$82,256 \$49,066

MINIMUM ACCOUNT THRESHOLD					
CALCULATED THRESHOLD AS A % OF TOTAL 30 YEAR COSTS	\$4,264	\$4,370	\$4,479	\$4,591	\$4,705
FUNDING OBJECTIVE MET?	YES	YES	YES	YES	YES
MINIMUM REQUIRED CASH TRANSFER	\$0	\$0	\$0	\$0	\$0

ESCALATION, INFLATION, EARNINGS RATES					
ANNUAL CONTRIBUTION ESCALATION:	2.00%	2.00%	2.00%	2.00%	2.00%
ANNUAL CONSTRUCTION COST ESCALATION:	2.49%	2.49%	2.49%	2.49%	2.49%
ANNUAL RESERVE ACCOUNT INCOME RATE	0.10%	0.10%	0.10%	0.10%	0.10%



YEAR	21	22	23	24	25
CALENDAR YEAR	2038	2039	2040	2041	2042

PROGRAMMED EXPENDITURES, PRESENT WORTH VALUES					
SCHEDULE OF REPAIRS AND REPLACEMENTS	\$28,124	\$0	\$0	\$0	\$4,867
CAPITAL IMPROVEMENT PROJECTS	\$0	\$0	\$0	\$0	\$0

BEGINNING YEAR BALANCE	\$49,066	\$7,819	\$12,631	\$17,545	\$22,561
FINANCIAL ANALYSIS SUMMARY					
INCOME					
CONTRIBUTION TO RESERVES	\$4,711	\$4,805	\$4,901	\$4,999	\$5,099
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	\$49	\$8	\$13	\$18	\$23
INVESTMENT 1	\$0	\$0	\$0	\$0	\$0
INVESTMENT 2	\$0	\$0	\$0	\$0	\$0
TOTAL INCOME	\$4,760	\$4,813	\$4,914	\$5,017	\$5,122

EXPENDITURES, FUTURE VALUES					
SCHEDULE OF REPAIRS AND REPLACEMENTS	\$46,007	\$0	\$0	\$0	\$8,786
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	\$46,007	\$0	\$0	\$0	\$8,786

END OF YEAR BALANCE \$7,819 \$12,631 \$17,545 \$22,561 \$18,898

MINIMUM ACCOUNT THRESHOLD					
CALCULATED THRESHOLD AS A % OF TOTAL 30 YEAR COSTS	\$4,822	\$4,943	\$5,066	\$5,192	\$5,321
FUNDING OBJECTIVE MET?	YES	YES	YES	YES	YES
MINIMUM REQUIRED CASH TRANSFER	\$0	\$0	\$0	\$0	\$0

ESCALATION, INFLATION, EARNINGS RATES					
ANNUAL CONTRIBUTION ESCALATION:	2.00%	2.00%	2.00%	2.00%	2.00%
ANNUAL CONSTRUCTION COST ESCALATION:	2.49%	2.49%	2.49%	2.49%	2.49%
ANNUAL RESERVE ACCOUNT INCOME RATE	0.10%	0.10%	0.10%	0.10%	0.10%



YEAR	26	27	28	29	30
CALENDAR YEAR	2043	2044	2045	2046	2047

PROGRAMMED EXPENDITURES, PRESENT WORTH VALUES					
SCHEDULE OF REPAIRS AND REPLACEMENTS	\$148	\$0	\$0	\$0	\$1,784
CAPITAL IMPROVEMENT PROJECTS	\$0	\$0	\$0	\$0	\$0

BEGINNING YEAR BALANCE	\$18,898	\$23,844	\$29,173	\$34,613	\$40,167
FINANCIAL ANALYSIS SUMMARY					
INCOME					
CONTRIBUTION TO RESERVES	\$5,201	\$5,305	\$5,411	\$5,519	\$5,630
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	\$19	\$24	\$29	\$35	\$40
INVESTMENT 1	\$0	\$0	\$0	\$ 0	\$0
INVESTMENT 2	\$0	\$0	\$0	\$0	\$0
TOTAL INCOME	\$5,220	\$5,329	\$5,440	\$5,554	\$5,670

EXPENDITURES, FUTURE VALUES					
SCHEDULE OF REPAIRS AND REPLACEMENTS	\$274	\$0	\$0	\$0	\$3,642
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	\$274	\$ 0	\$0	\$0	\$3,642

END OF YEAR BALANCE \$23,844 \$29,173 \$34,613 \$40,167 \$42,194

MINIMUM ACCOUNT THRESHOLD					
CALCULATED THRESHOLD AS A % OF TOTAL 30 YEAR COSTS	\$5,454	\$5,590	\$5,729	\$5,872	\$6,018
FUNDING OBJECTIVE MET?	YES	YES	YES	YES	YES
MINIMUM REQUIRED CASH TRANSFER	\$0	\$0	\$0	\$0	\$0

ESCALATION, INFLATION, EARNINGS RATES					
ANNUAL CONTRIBUTION ESCALATION:	2.00%	2.00%	2.00%	2.00%	2.00%
ANNUAL CONSTRUCTION COST ESCALATION:	2.49%	2.49%	2.49%	2.49%	2.49%
ANNUAL RESERVE ACCOUNT INCOME RATE	0.10%	0.10%	0.10%	0.10%	0.10%



TOTAL BUDGET

ASSESSMENT ALLOCATION COLONIAL GREEN TOWNHOMES MASTER

Year	Townhomes Reserve Assessment	Shared Reserve & Operating Budget Assessment*	Total Assessment	Reserves as a Percentage of Total Assessment	Annual Increase In Total Assessment	Special Assessments
2018	\$3,170.16	\$25,245.36	\$28,415.52	11.16%		\$0.00
2019	\$3,233.56	\$25,874.33	\$29,107.89	11.11%	2.44%	\$0.00
2020	\$3,298.23	\$26,518.96	\$29,817.20	11.06%	2.44%	\$0.00
2021	\$3,364.20	\$27,179.66	\$30,543.86	11.01%	2.44%	\$0.00
2022	\$3,431.48	\$27,856.82	\$31,288.30	10.97%	2.44%	\$0.00

* Operating budget is increased annually at the projected inflation rate.

ALLOCATION CALCULATIONS

Total Number of Units	<u>10</u>
Unit Type	Townhomes
Percentage Allocation To Unit Type	100.00%
Number of Units of This Type	10

Annual Contribution Per Unit Type

Year	Reserve Assessment	Operating Budget Assessment	Total Assessment	Special Assessments
2018	\$317.02	\$2,524.54	\$2,841.55	\$0.00
2019	\$323.36	\$2,587.43	\$2,910.79	\$0.00
2020	\$329.82	\$2,651.90	\$2,981.72	\$0.00
2021	\$336.42	\$2,717.97	\$3,054.39	\$0.00
2022	\$343.15	\$2,785.68	\$3,128.83	\$0.00

Monthly Contribution Per Unit Type

Year	Reserve Assessment	Operating Budget Assessment	Total Assessment	Special Assessments
2018	\$26.42	\$210.38	\$236.80	\$0.00
2019	\$26.95	\$215.62	\$242.57	\$0.00
2020	\$27.49	\$220.99	\$248.48	\$0.00
2021	\$28.03	\$226.50	\$254.53	\$0.00
2022	\$28.60	\$232.14	\$260.74	\$0.00



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.