MEMORANDUM

То:	Howard Tipton, Town Manager
From:	Charles Mopps, Interim Public Works Director
Report date:	November 1, 2024
Meeting date:	November 12, 2024
Subject:	Canal Navigation Maintenance Program Update

Recommended Action

Provide direction to Town Manager.

Background

Prior briefings:

At the October 21, 2024, Regular Workshop, the project team provided an update regarding the Canal Navigation Maintenance Program to include the following:

- Update on project planning efforts
- Initial presentation of apportionment methodology
- Beneficial Use of Dredge Material (BUDM) from the canal program for use on the force main project.

The Town has continued to engage engineering consultant, First Line Coastal (First Line), to assist staff in completing the directed work. Town staff and the consultants will provide clarification and further discussion on project planning efforts including the BUDM. Additionally, specific detail will be provided for the apportionment methodology including strategy and initial costs for residents.

Next Steps

The following is the staff's assessment of the next step actions for continued program development:

- Continue assessment program development
- Continue project design, including BUDM efforts
- Prepare a draft ordinance for the Dec 2nd meeting
- Begin (or delay) public outreach
- Meet legal requirements for the establishment of Districts.

In order to meet the County's deadlines for the implementation of a dedicated mill rate for the FY2026 tax bills, we are preparing an Ordinance to establish an Ad Valorem District coterminous with the Town's boundaries, to the December 2nd Regular Meeting and December 12th Special Meeting for first and second reading.

In addition, a Resolution providing our Notice of Intent to Use the Uniform Method of Collection will need to be adopted by December 2024 and requires advertising on four (4) Friday's prior/up to the Public Hearing (Nov 8, 15, 22, 29).

Failure to meet these deadlines could result in the postponement of the non-ad valorem assessments until FY2027 tax bills.

Staff Recommendation

Staff will be requesting direction from the Commission regarding:

- \circ Preparation of an ordinance for the Dec 2nd meeting
- Initiation of public outreach efforts
- Continuation of BUDM design concurrent with the subaqueous force main effort.

Attachments

PowerPoint Presentation



Canal Navigation Maintenance Program Update

Town Commission Workshop

November 12, 2024



Advancements Toward Implementation

Have included:

- Data collection and initial conditions assessment (presented June 2024)
- Initial Opinion of Probable Construction Cost (presented June 2024)
- Development and presentation of funding strategies (Oct 2024 & Today)

Seeking guidance today:

- Resolution of Intent and Tax District Ordinance preparation for December 2nd meeting
- Begin public outreach
- Continue with BUDM design concurrent with the subaqueous force main effort

Path to Canal District Discussion

TOWN OF LONGBOAT KEY

Town Vision & Mission

- "Longboat Key is a beautiful place to live, work, and visit, where the natural assets of a barrier island combine with cultural and recreational amenities, visionary planning, and proactive leadership to enhance your way of life."
- "To vigorously maintain and preserve Longboat Key's status as a premier residential and visitor destination that supports the historic balance between residential, recreational, tourism, and commercial attributes, through a commitment to long-term and short-term planning excellence and measurable results."

Town Core Expectations

6. The town will maintain Longboat Key as a **premier vacation destination** and enhance year round **tourism** through continued **revitalization**, **development**, **and maintenance** of tourism-oriented businesses and amenities such as; lodging, cultural attractions, restaurants, golf courses, tennis facilities and beaches.

7. The town will maintain and improve the quality and variety of island-based **recreational** and educational **opportunities**, including a high-quality **community center**, and will support and promote off-island recreational, cultural and urban attractions.

11. The town recognizes the need to provide suitable amenities for visitors and residents of all ages.

Path to Canal District Discussion Cont.

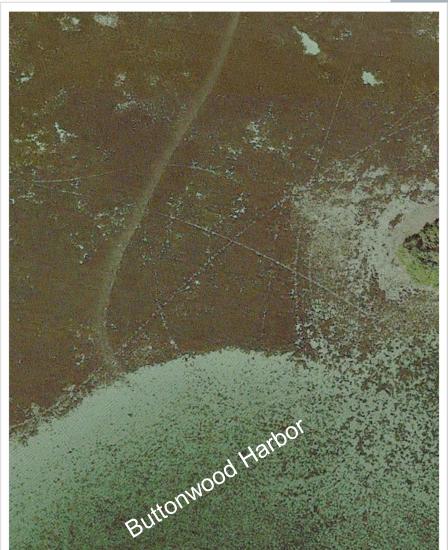
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Conservation and Coastal Management (CCM) Element of the 2022 Comprehensive Plan (adopted June 6, 2022, Ordinance 2022-03) contains objectives and policies relating to Canal Navigability. Specifically, it:

<u>Objective 1.5</u>: Preserve the navigability of canals.

<u>Policy 1.5.1</u>: Create and implement a Town Canal Navigation Maintenance Program

Also Supports Vision, Mission, Community Expectation 9: Boat Usage Within Canal System Protects Environmental/Benthic Resources (Seagrasses & Oyster Beds) and Boater Safety.





Background

Island Amenity and Ambiance

As an island, (def. "...land surrounded by water..."), waterway and bay access for navigation and recreation is an important element to the overall quality of island life as an **amenity enhancing the ambiance** on Longboat Key.





Wholistic Benefit

Portions of the Channel / Canal system can be considered as providing an overall benefit to the residents of the Town, as a recreational amenity to the island.

Some canals may have an overall Town-wide benefit and some have a more private benefit (canal fronting properties)

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Established Premise

Every property is unique, and benefits vary based on accessible canals

Three Utilization Types

Local Canal	Communal Access	Mixed Use
direct access to residents via their property or community	accessible and commonly used by all boaters	both direct access to residents via their property or community and are commonly used by all boaters
Direct Benefit	General Benefit	Shared Benefit

District Creation Critical Milestones

Option 1

TOWN OF LONGBOAT KEY

Maintain ability to collect funds in Nov. 2025

• Create Special Districts by March 2025

Option 2

Delay assessments 1 yr until Nov. 2026

• Create Special Districts in 2026

Creation of a District provides the ability to progress but does not require funding.

Event	Date
Workshop of assessment with Commission	10/21/2024
Workshop of assessment with Commission	11/12/2024
Ordinance Establishing Ad Valorem District (First Reading)	11/12/2024 <mark>(SPC MTG)</mark>
Ad: Public Notice of Intent to Use Uniform Method of Collection (Assessments) in Newspaper	Ad to be Run 4 Fridays prior/up to Public hearing: Nov 8, 15, 22, 29
Resolution: Electing To Use Uniform Method of Collection	12/02/2024
Ordinance Establishing Ad Valorem District (Second Reading/Public Hearing)	12/02/2024
Public Meetings	January 2025 – March 2025



Community Outreach & Engagement Opportunities

Objectives

- Present and inform on the program need, benefits, and costs
- Garner public feedback
- Opportunity for public engagement in the process
- Specific address searches to inform on direct costs for properties

Forums & Venues

- General Benefit & Canal Group focus sessions
- Virtual, Town Hall, Condo Federation, North End Coalition, etc.
- Per District Specific Meetings focus on specifics within district
- Program website, handouts, mailers

Robust Public Outreach Campaign: VancoreJones



Feedback from October 21st Meeting

Storm recovery is the top priority for the Town currently and should remain so.

Canal program feedback:

- Requested more detail:
 - Waterway specifics & categorization
 - Assessment methodology
 - Cost allocation
- Additional detail for shared benefit canals
- Appropriate cost-share models & examples

33	- A C	1	-
Canal Group: 5 Subdivision: BAY ISLES U	JNIT 01 / COUNTRY CL	UB SHORES UNIT	5 SEC 4
Funding Category: Cross Streets: Harbor C Green/Red	ove Cir / Putter Ln		
 Existing Conditions: 			
Primary Usage: Mooring/Dockage, Transit		Avg Vessel Bear	n: 7 - 10 ft
Density of Water Access: 60%		Avg Vessel Draf	t: 2 - 4 ft
Noted Damage to Structures: No		Mapped Seagr	ass: None
Notable Exposures: Waves, Wind		Mapped	
Impediments: None			
Design Parameters			
Existing Permit Info	Permit	led Channel Dir	mensions
Permit Depth: -5 MLW	- 5	TT	
Permit Width: 40 FT		, dh	V
Placement Area:	NDUN NOUN	\downarrow Ψ	21
Existing Permits: 58-01637883-001	E E		
Permit Expiration: 3/30/2005		20 0 DISTANCE FROM BAS	20 40 ELINE (FT)
Length of Canal: 1282 ft			
	Last	Maintained: xx-	0X-300XX
Navigation Score			
Canal Nav Score Max with Current Design Current Score		Survey Inf	0
A B-	Survey Date	Volume	Survey Type
	Mar 2024	136 cy	SB Profile
Transiting: C - local knowledge	2019	су	Est. from OPCC (Taylor)
Meeting/Overtaking: B - As expected	"Volume presented repre permitted design exists. vi	sents total volume to p	ermitted design. If no
Maneuvering/docking: B - As expected			
Marker Density: Dense	umiting Depth at I	ast survey: -2.21	1 MLW at STA 4+40
Notes: split 33 at 33P and make west end 33-5. Seagn	ass observed on the r	orth toe	

Order of Brief

Waterway Maintenance Program

- Work allocation review
- Subaqueous pipeline install

Pause for discussion

Assessment Program Methodology

- Assessment program framework
- Example Scenarios

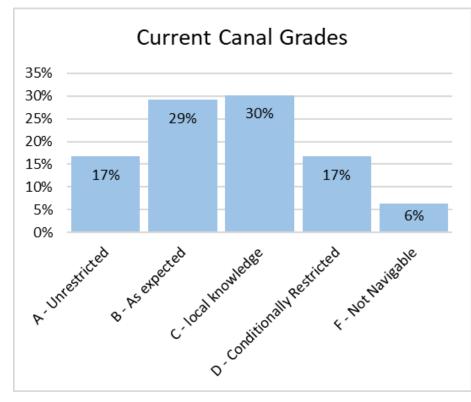




Waterway Maintenance Program

Program Statistics

Existing island wide conditions



Max available volume (before cost saving measures)	62,000 CY	\bigcirc
Target Volume (current maintenance plan)	40,000 CY	

Category	Advanced Update
Dredging Cost	\$ 3,680,000
Permit, Design, Management	\$ 900,000
2025 Dredging Cost	\$ 4,580,000
Mitigation Cost	\$ 3,600,000
Adjustment for 2028	\$ 1,070,000
Initial Construction Estimated Cost (2028)	\$ 9,250,000
Annual Operations and Maintenance	\$ 450,000

Canal and Funding Types – General Benefit

Communal Access Waterways - General Benefit

Number of Waterways	8
Volume to Dredge	5,600 CY
Funding Strategy	Ad Valorem
Funding Group	All Residents



Similar to WCIND millage found on all tax bills

Canal and Funding Types – Direct Benefit

Local Canal – Direct Benefit

Number of Waterways	70
Volume to Dredge	17,000 CY
Funding Strategy	Non Ad Valorem
Funding Group	Water Abutting properties inside given group (1-6)



Canal and Funding Types – Shared Benefit

Canal 32P – Bay Isles perimeter canal



Canal and Funding Types – Shared Benefit

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Mixed Use – Shared Benefit

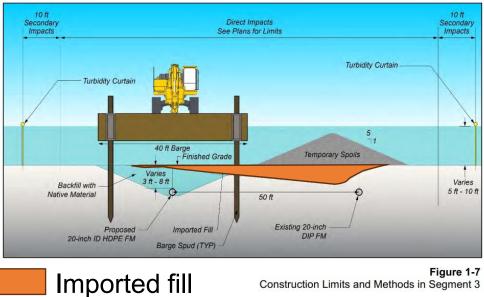
Number of Waterways	7
Volume to Dredge	15,000 CY
Funding Strategy	Shared Assessment: Ad Valorem & Non
Funding Group	Ad Valorem – All Residents / Non Ad Valorem – Groups 1-6



Subaqueous Pipeline Install

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Theoretical Cos	st to Obtain Fill
Material Cost	\$ 20 / CY
Trucking	\$ 40 / CY
Barge & Place	\$ 35 / CY
Total Unit Cost	\$ 95 / CY



Construction Limits and Methods in Segment 3

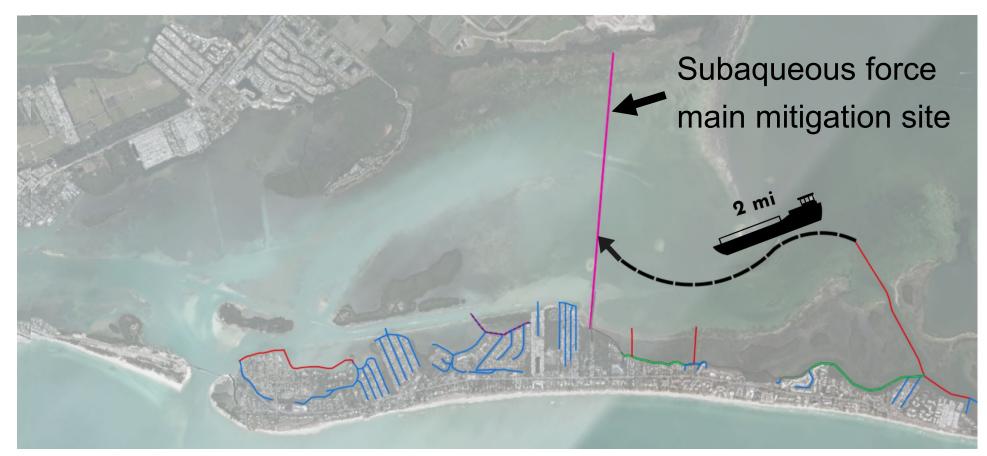
Habitats (acres) (acres) Freshwater Wetlands 0.17 Restoration 0.17/1:1 Mangroves and Tidal Flats 0.79 Restoration/Establishment 1.18/1.5:1 Seagrasses 4.32 Restoration/Establishment 0.22/2:1 Oysters 0.11 Restoration/Establishment 0.22/2:1	Image: Construction in the second in the	FEET Z	Wetlands and Submerged	Total Impact Area	Compensation Method(s)	Compensation Area / Ratio		4000 WEIST CYTRI STE: 450 T/AMPA, FL 3080P OFFICE - 813 207 WWW ESASSOC
Margroves and Tidal Flats 0.79 Restoration/Enhancement 1.18/1.5.1 Seagrasses 4.32 Restoration/Establishment 8.64/2:1 Oysters 0.11 Restoration/Establishment 0.22/2:1	Margroves and Tidal Flats 0.79 Restoration/Enhancement 1.10/1.5.1 Seagrasses 4.32 Restoration/Establishment 8.64/2.1 Oysters 0.11 Restoration/Establishment 0.22/2.1	Bill Marthand Par	Habitats	(acres)	2 1.30	(acres)		-
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			Oysters	0.11	Restoration/Establishment	0.22 / 2:1	-	CONSULTANT
						Co.		>3

Ready for Fill: May – Aug 2025

Completion Target: Jan – Aug 2026

Canal BUDM

- TOWN OF LONGBOAT KEY
- Estimated Available ~ TBD
 - Potential for seagrass transplants



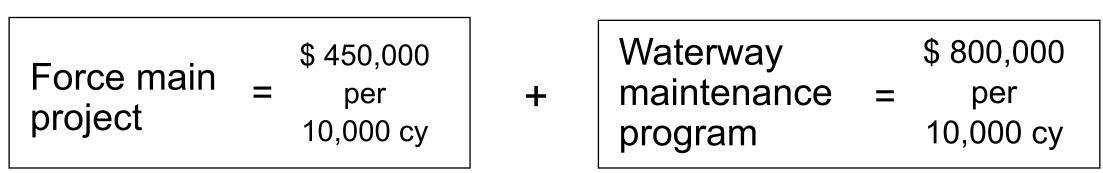
Canal BUDM

Estimated volume available from canal program = TBD

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Theoretical Cost t	Theoretical Cost to Obtain Fill		edging Costs	
Material Cost	\$ 20 / CY	Dredge & Transport	\$ 4	
Trucking	\$ 40 / CY	Trucking	\$ 3 5	
M Dredge & Place	\$ 50 / CY	Misc. & Add.	\$ 5 ,	
tal Unit Cost	\$ 50 / CY	Total Unit Cost	\$ 80	

ROM Potential Savings





Discussion break



Assessment Program Methodology

TOWN OF LONGBOAT KEY

Apportionment Methodology General Benefit

General Benefit Canals (Red) – Town wide Ad Valorem Millage

- Costs Include:
 - Dredging mobilization, dredging and transport, truck hauling, etc.
 - Mitigation Costs
 - Annual Assessment Program Costs (legal, study and implementation)
- Approximately 81.32% of Ad Valorem Funds for General Benefit and Mitigation Costs



Apportionment Methodology Direct Benefit

Direct Benefit Canals (Blue) – Non-Ad Valorem Assessment for Water Abutting Properties

- Parcels are equated using Equivalent Benefit Units (EBUs)
- Water Access Unit (WAU) Dock, slip, boat lift, or similar that offers mooring and water access for vessels
- 1 WAU = 1 EBU
 Cost for Direct Benefit Canals Inside Group
 Cost per EBU
 # of EBUs Per Group

Apportionment Methodology Direct Benefit

Single Family Homes = 1 EBU

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Condominium, COA and HOA facilities: Total # of WAUs divided by total # of condo's/units with access to the facilities



Property has 133 Units and 15 WAUs Each resident would pay for 0.11 EBUs



Apportionment Methodology Shared Benefit

Shared Benefit Canal – (Green) Cost Breakdown Example

Cost to Dredge Canal 33 (approx) = \$16,000

Cost paid through island wide Ad Valorem Millage = \$8,000 Cost paid by direct benefit parcels inside Group 4 direct Non-Ad Valorem Assessment = \$8,000

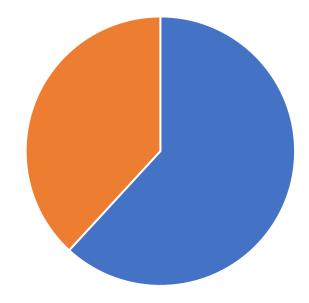


Cost Breakdown by Funding Source

TOWN OF LONGBOAT KEY

	Total Annual	
Assessment Type	Assessment	Percent
Ad Valorem	\$ 1,141,641.63	61.84%
Non-Ad Valorem	\$ 704,389.05	38.16%
Total	\$ 1,846,030.68	100.00%

Funding Source



Ad Valorem (General & 50% Shared)

Non-Ad Valorem (Direct & 50% Shared)

Note: Preliminary Costs subject to change. Costs reflect Pre-BUDM Potential Savings

Ad Valorem Millage Calculation

TOWN OF LONGBOAT KEY

	Ye	ar 1 Total	Year 1 Total						
	Dred	ging Costs -	Dredging Costs -	Y	/ear 1 Total	Y	ear 5 Total		Five-Year
Description	Gene	eral Benefit	Shared Benefit	Dr	edging Costs	Dre	edging Costs	Ave	rage Annual
Insurance/Bonding	\$	-	\$-	\$	-	\$	-	\$	-
Mob/Demob (LS)		54,329	49,512		103,841		129,405		25,881
Dredging & Placement (CY)		213,489	407,197		620,686		773,487		154,697
Mitigation Costs		3,000,000	-		3,000,000		3,738,546		747,709
Truck Hauling		164,439	302,177		466,616		581,489		116,298
Miscellaneous		17,437	33,497		50,934		63,473		12,695
Total Dredging OPC	\$	3,449,695	\$ 792,383	\$	4,242,077	\$	5,286,400	\$	1,057,280
		81.32%	18.68%						
Annual O&M									
Operation Costs (Surveying,General Engineering, I	Etc.)								-
Maintenance Costs (Begin in Year 6)									-
Total O&M Expenditures				1				\$	-
Misc. Assessment Expenditures									
Study & Implementation								\$	26,432
Legal Fees									10,573
Total Misc. Assessment Expenditures								\$	37,005
Estimated Amount Certified to Tax Collector								\$	1,094,285
								.	
Units (Taxable Value) Adjusted for Statutory Disco	unt							\$8,	714,435,622
Annual Millage Rate								\$	0.1256

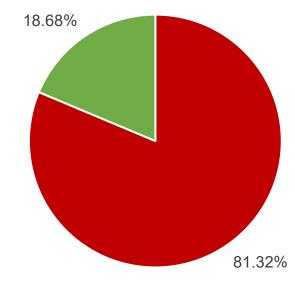
Note: Preliminary Costs subject to change. Costs reflect Pre-BUDM Potential Savings

Example – General & 50% Shared Benefits

TOWN OF LONGBOAT KEY

		Annual	Annual Ad Valorem
T	axable Value	Millage Rate	Assessment
\$	500,000	0.1256	\$ 62.80
\$	750,000	0.1256	\$ 94.20
\$	1,000,000	0.1256	\$ 125.60
\$	2,000,000	0.1256	\$ 251.20
\$	3,500,000	0.1256	\$ 439.60
\$	5,000,000	0.1256	\$ 628.00





General Benefit
 Shared Benefit

Note: Preliminary Costs subject to change. Costs reflect Pre-BUDM Potential Savings

Example – Direct Benefit

TOWN OF LONGBOAT KEY

Group 1

		ear 1 Total	Y	ear 5 Total	-	-ive-Year
Description	Dre	dging Costs	Dre	edging Costs	Ave	rage Annual
Insurance/Bonding	\$	-	\$	-	\$	-
Mob/Demob (LS)		91,827		114,433		22,887
Dredging & Placement (CY)		404,185		503,688		100,738
Seagrass Transplanting & Monitoring (CY)		-		-		-
Truck Hauling		276,433		344,485		68,897
Miscellaneous		31,716		39,524		7,905
Total Dredging OPC	\$	804,160	\$	1,002,130	\$	200,426
Annual O&M						
Operation Costs (Surveying,General Engineering, B	-tc.)					2,080
Maintenance Costs (Begin in Year 6)						-
Total O&M Expenditures					\$	2,080
Misc. Assessment Expenditures						
Study & Implementation					\$	5,011
Legal Fees						2,004
Collection Costs (Property Appraiser @1.5%)						4,197
Collection Costs (Tax Collector @1.5%)						4,197
First Class Notice Costs (\$2.00 per)						333
Statutory Discount (@4%)						10,912
Total Misc. Assessment Expenditures					\$	26,654
Estimated Amount Certified to Tax Collector					\$	229,160
Equivalent Benefit Units						617.46
	_					
Annual Rate Per Equivalent Benefit Unit					\$	372.00

Note: Preliminary Costs subject to change. Costs reflect Pre-BUDM Potential Savings

Example – Benefit Groups

		То	tal Estimated			
		Annı	ual Cost – Initial	EBUs		
Group	Benefit Type	Dre	dging Program	(Rounded)	Ra	te per EBU
1	Direct	\$	229,160.27	617.46	\$	372.00
2	Direct and Shared	\$	120,208.72	193.25	\$	623.00
3	Direct	\$	79,419.81	232.44	\$	342.00
4	Direct and Shared	\$	197,673.38	531.28	\$	373.00
5	Direct	\$	70,004.63	575.87	\$	122.00
6	Direct and Shared	\$	6,374.95	31.28	\$	204.00
Total		\$	702,841.76	2,181.58		

Note: Preliminary Costs subject to change. Costs reflect Pre-BUDM Potential Savings

Example – Annual Assessments

TOWN OF LONGBOAT KEY

					Assessment					
Parcel Type	Group	EBU	Ta	Taxable Value		on-Ad Valorem	Ad	Valorem		Total
CONDO	6	0.28	\$	732,183	\$	57.12	\$	91.96	\$	149.08
SFR	6	1.00	\$	4,025,343	\$	204.00	\$	505.58	\$	709.58
MARINA	5	1.00	\$	76,500	\$	122.00	\$	9.61	\$	131.61
SFR	0	-	\$	673,644	\$	-	\$	84.61	\$	84.61
CONDO	0	-	\$	1,062,500	\$	-	\$	133.45	\$	133.45
COMMERCIAL	3	8.00	\$	1,565,551	\$	2,736.00	\$	196.63	\$	2,932.63
CONDO	3	0.02	\$	603,500	\$	6.84	\$	75.80	\$	82.64
CONDO	0	-	\$	586,519	\$	-	\$	73.67	\$	73.67
CONDO	0	-	\$	694,649	\$	-	\$	87.25	\$	87.25
SFR	5	1.00	\$	680,550	\$	122.00	\$	85.48	\$	207.48
SFR	1	1.00	\$	824,519	\$	372.00	\$	103.56	\$	475.56
SFR	2	1.00	\$	927,115	\$	623.00	\$	116.45	\$	739.45
SFR	4	1.00	\$	1,197,536	\$	373.00	\$	150.41	\$	523.41
COMMERCIAL	0	-	\$	471,263	\$	-	\$	59.19	\$	59.19

Note: Preliminary Costs subject to change. Costs reflect Pre-BUDM Potential Savings



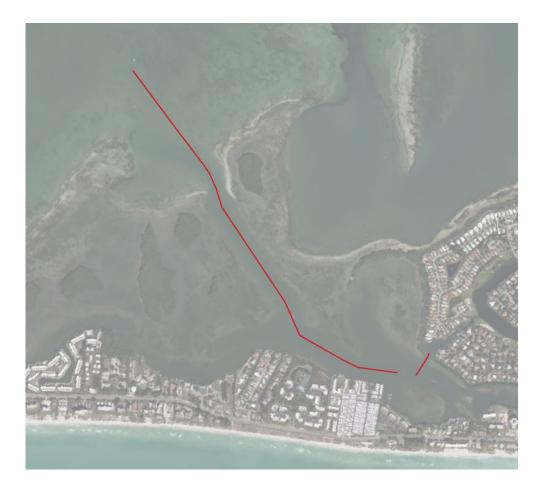
Questions?



Extra Slides

Canal and Funding Types – General Benefit

Canal 31A – Access to Buttonwood Harbor and other back waters





Canal and Funding Types – Direct Benefit

Country Clubs Shores Canals

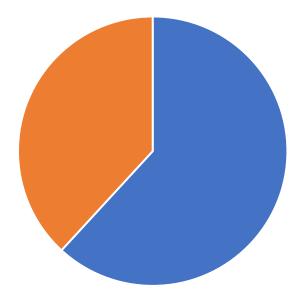


Cost Breakdown by Location and Funding Source

TOWN OF LONGBOAT KEY

Assessment		Bayside		Gulfside	Total	Percent		
Ad Valorem	\$	500,711.30	\$	640,930.33	\$ 1,141,641.63	61.84%		
Non-Ad Valorem	\$	697,446.33	\$	6,942.72	\$ 704,389.05	38.16%		
Total	\$	1,198,157.63	\$	647,873.05	\$ 1,846,030.68	100.00%		
Percent	65%		35%		35%		100%	

Funding Source



Ad Valorem (General & 50% Shared)

Non-Ad Valorem (Direct & 50% Shared)

Note: Preliminary Costs subject to change.

End of Agenda Item