



TAYLOR ENGINEERING, INC.

Town of Longboat Key

Canal Navigation Maintenance Funding Program



November 6, 2023

Background

- Plan for sustainable canal funded program
 - Long term solution
 - 2021 Strategic Plan Initiatives
- Important Element of Island Amenities and Ambiance
 - Waterway and bay access for navigation and recreation
 - General benefit
 - Localized benefit
- Inventory (81)
 - Collected Canal and Property Appraiser Data
 - Developed GIS database
 - Field Investigation
 - Preliminary depth
 - Sediment Characteristics
 - Maximize Historic Permitted Depths



March 2023 Direction

- **Develop Canal Navigation Maintenance Assessment Program**
 - **Goals and Objectives**
 - Long-term, sustainable funding for canal navigation maintenance
 - **Perimeter and Access Channels – General Benefit**
 - Ad Valorem Property Taxes
 - Based on taxable value of properties
 - Charter limitation of 5 mills
 - Currently at 1.9600 mills
 - Uniformly applied
 - Infrastructure Surtax – approximately \$100,000 annually (Sarasota Only)
 - Grants
 - **Localized Canals – Direct Benefit**
 - Home Rule Revenue Source
 - Non-ad Valorem Special Assessments

Revised Canal Groupings

- Seven Canal Groups developed based on:
 - Location
 - Construction Logistics
 - Homeowners Groups
 - Staff Review and Input
- Canals assigned general benefit (access channels), cost-sharing benefit (arterial channels), and local benefit.



Engineering Analysis – What was analyzed to develop cost

- Bathymetric Survey
 - Determine actual canal depth
- Natural Resource Survey
 - Seagrass, Mangroves, other
- Design
 - Identify location and volume of required dredging
 - Identify and design placement area(s)
- Permitting
 - FDEP, USACE
 - Required Mitigation
- Construction
 - Dredging and Placement
- Develop Long Term Dredging Management Program
 - Regular surveys and dredging

| CANAL GROUP 5 | | | | | | | | | | PROJECTED TOTAL CONSTRUCTION COSTS | | | | |
|---------------|---------------------------------------|-----------------------------|------------------|----------------------|--------------------------|-------------------------------------|--|------------------------|----------------------------|------------------------------------|-----------|-----------|-------------|-------------|
| CANAL NAME | Classification | Estimated Dredge Quantities | Mobil/Demob (LS) | Dredging & Placement | Environmental Protection | Seagrass Transplanting & Monitoring | Engineering Fees - Plans, Design & Specs | Constructi on Administ | Total Estimate - Current F | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| 32A | Access Channel - General Benefit | 1,459 | \$44,973 | \$63,797 | \$4,721 | \$12,174 | \$12,656 | \$6,328 | \$145,542 | \$152,237 | \$158,631 | \$164,976 | \$171,575 | \$178,781 |
| 32B | Arterial Channel - Cost Share Benefit | 390 | \$44,973 | \$17,038 | \$1,261 | \$3,085 | \$6,660 | \$3,330 | \$76,585 | \$80,108 | \$83,472 | \$86,811 | \$90,283 | \$94,075 |
| 32B | Local Canal - Direct Benefit | 755 | \$44,973 | \$33,018 | \$2,443 | \$5,378 | \$8,687 | \$4,344 | \$99,906 | \$104,502 | \$108,891 | \$113,247 | \$117,776 | \$122,723 |
| 32P | Arterial Channel - Cost Share Benefit | 3,438 | \$44,973 | \$150,283 | \$11,121 | \$20,546 | \$22,903 | \$11,451 | \$263,382 | \$275,498 | \$287,069 | \$298,552 | \$310,494 | \$323,534 |
| 32P | Local Canal - Direct Benefit | 2,033 | \$44,973 | \$88,858 | \$6,575 | \$12,148 | \$15,380 | \$7,690 | \$176,869 | \$185,005 | \$192,775 | \$200,486 | \$208,506 | \$217,263 |
| 33 | Access Channel - General Benefit | 219 | \$44,973 | \$3,558 | \$707 | \$1,690 | \$5,706 | \$2,853 | \$65,621 | \$68,640 | \$71,523 | \$74,384 | \$77,359 | \$80,608 |
| 33 | Arterial Channel - Cost Share Benefit | 513 | \$44,973 | \$22,433 | \$1,660 | \$3,966 | \$7,335 | \$3,667 | \$84,348 | \$88,228 | \$91,933 | \$95,611 | \$99,435 | \$103,611 |
| 33 | Local Canal - Direct Benefit | 468 | \$44,973 | \$20,449 | \$1,513 | \$3,616 | \$7,084 | \$3,542 | \$81,463 | \$85,210 | \$88,789 | \$92,341 | \$96,035 | \$100,068 |
| 33A | Access Channel - General Benefit | 854 | \$44,973 | \$37,350 | \$2,764 | \$6,262 | \$9,187 | \$4,594 | \$105,653 | \$110,513 | \$115,154 | \$119,760 | \$124,551 | \$129,782 |
| 33B | Arterial Channel - Cost Share Benefit | 4,301 | \$44,973 | \$188,034 | \$13,915 | \$15,579 | \$26,513 | \$13,257 | \$304,905 | \$318,330 | \$332,326 | \$345,619 | \$359,443 | \$374,540 |
| 33B | Local Canal - Direct Benefit | 1,418 | \$44,973 | \$61,977 | \$4,586 | \$5,135 | \$11,754 | \$5,877 | \$135,169 | \$141,387 | \$147,325 | \$153,218 | \$159,347 | \$166,040 |
| 33C | Local Canal - Direct Benefit | 746 | \$44,973 | \$32,630 | \$2,415 | \$2,954 | \$8,343 | \$4,171 | \$95,943 | \$100,356 | \$104,571 | \$108,754 | \$113,104 | \$117,854 |
| 33C | Local Canal - Direct Benefit | 746 | \$44,973 | \$32,609 | \$2,413 | \$2,883 | \$8,333 | \$4,167 | \$95,834 | \$100,242 | \$104,452 | \$108,631 | \$112,976 | \$117,721 |
| 33C | Local Canal - Direct Benefit | 770 | \$44,973 | \$33,651 | \$2,490 | \$2,821 | \$8,441 | \$4,220 | \$97,067 | \$101,532 | \$105,797 | \$110,029 | \$114,430 | \$119,236 |
| 33C | Local Canal - Direct Benefit | 451 | \$44,973 | \$19,731 | \$1,460 | \$1,841 | \$6,828 | \$3,414 | \$78,523 | \$82,135 | \$85,585 | \$89,008 | \$92,568 | \$96,456 |
| 5 | Access Channel - General Benefit | 2,532 | \$134,918 | \$110,705 | \$8,192 | \$20,126 | \$27,549 | \$13,775 | \$316,816 | \$331,389 | \$345,308 | \$359,120 | \$373,485 | \$389,171 |
| 5 | Arterial Channel - Cost Share Benefit | 10,060 | \$224,863 | \$439,765 | \$32,543 | \$48,311 | \$75,164 | \$37,582 | \$864,389 | \$904,151 | \$942,125 | \$979,810 | \$1,019,003 | \$1,061,801 |
| 5 | Local Canal - Direct Benefit | 5,969 | \$314,809 | \$260,946 | \$19,310 | \$32,241 | \$63,096 | \$31,548 | \$725,606 | \$758,983 | \$790,861 | \$822,495 | \$855,395 | \$891,322 |

Program Cost

- Initial Start-up Costs for the engineering, permit, and dredging
 - Approximately - \$16,800,000
- Plus program costs
 - Dedicated staffing
 - Navigational marker repair and maintenance
 - Study and implementation
 - Collection costs

| Canal Group 1 | | | | | | | | |
|---|-----------------------|-------------------|--------------------------|--------------------|---------------------------|---------------------------|--------------------------------|----------------|
| INFLATION ADJUSTED FUTURE PROBABLE COST | | | | | | | | |
| Construction/Fiscal Year | Insurance/End- ing | Mak'Domah (LS) | Dredging II Placement | Environmen- tal | Seagrass Transplanting | Engineering Four-Floor | Construction Administration | Total Estimate |
| 2023 | \$10,533 | \$674,590 | \$751,903 | \$55,641 | \$117,689 | \$161,036 | \$80,518 | \$1,841,376 |
| 2024 | \$11,018 | \$705,621 | \$786,491 | \$58,200 | \$123,103 | \$168,443 | \$84,222 | \$1,926,000 |
| 2025 | \$11,480 | \$735,257 | \$819,523 | \$60,645 | \$128,273 | \$175,518 | \$87,759 | \$888888 |
| 2026 | \$11,940 | \$764,667 | \$852,304 | \$63,071 | \$133,404 | \$182,539 | \$91,269 | \$888888 |
| 2027 | \$12,417 | \$795,254 | \$886,396 | \$65,593 | \$138,740 | \$189,840 | \$94,920 | \$2,170,744 |
| 2028 | \$12,939 | \$828,655 | \$923,625 | \$68,348 | \$144,567 | \$197,813 | \$98,907 | \$2,261,915 |

| Canal Group 2 | | | | | | | | |
|---|-----------------------|-------------------|--------------------------|--------------------|---------------------------|---------------------------|--------------------------------|----------------|
| INFLATION ADJUSTED FUTURE PROBABLE COST | | | | | | | | |
| Construction/Fiscal Year | Insurance/End- ing | Mak'Domah (LS) | Dredging II Placement | Environmen- tal | Seagrass Transplanting | Engineering Four-Floor | Construction Administration | Total Estimate |
| 2023 | \$9,949 | \$674,590 | \$710,173 | \$52,553 | \$111,157 | \$155,842 | \$77,921 | \$1,782,236 |
| 2024 | \$10,406 | \$705,621 | \$742,840 | \$54,970 | \$116,271 | \$163,011 | \$81,505 | \$1,864,219 |
| 2025 | \$10,843 | \$735,257 | \$774,040 | \$57,279 | \$121,154 | \$169,857 | \$84,929 | \$1,942,516 |
| 2026 | \$11,277 | \$764,667 | \$805,001 | \$59,570 | \$126,000 | \$176,652 | \$88,326 | \$2,020,217 |
| 2027 | \$11,728 | \$795,254 | \$837,201 | \$61,953 | \$131,040 | \$183,718 | \$91,959 | \$2,101,025 |
| 2028 | \$12,221 | \$828,655 | \$872,364 | \$64,555 | \$136,544 | \$191,434 | \$95,717 | \$2,189,268 |

| Canal Group 3 | | | | | | | | |
|---|-----------------------|-------------------|--------------------------|--------------------|---------------------------|---------------------------|--------------------------------|----------------|
| INFLATION ADJUSTED FUTURE PROBABLE COST | | | | | | | | |
| Construction/Fiscal Year | Insurance/End- ing | Mak'Domah (LS) | Dredging II Placement | Environmen- tal | Seagrass Transplanting | Engineering Four-Floor | Construction Administration | Total Estimate |
| 2023 | \$3,548 | \$674,590 | \$253,244 | \$10,740 | \$20,439 | \$29,976 | \$49,488 | \$1,134,676 |
| 2024 | \$3,711 | \$705,621 | \$264,993 | \$10,942 | \$21,462 | \$30,520 | \$51,764 | \$1,186,871 |
| 2025 | \$3,867 | \$735,257 | \$276,010 | \$10,425 | \$22,203 | \$31,577 | \$53,030 | \$1,236,720 |
| 2026 | \$4,021 | \$764,667 | \$287,059 | \$10,242 | \$22,931 | \$32,192 | \$54,096 | \$1,286,180 |
| 2027 | \$4,182 | \$795,254 | \$298,542 | \$10,092 | \$23,728 | \$32,640 | \$55,340 | \$1,337,636 |
| 2028 | \$4,358 | \$828,655 | \$311,080 | \$10,020 | \$24,691 | \$33,180 | \$56,790 | \$1,393,817 |

| Canal Group 4 | | | | | | | | |
|---|-----------------------|-------------------|--------------------------|--------------------|---------------------------|---------------------------|--------------------------------|----------------|
| INFLATION ADJUSTED FUTURE PROBABLE COST | | | | | | | | |
| Construction/Fiscal Year | Insurance/End- ing | Mak'Domah (LS) | Dredging II Placement | Environmen- tal | Seagrass Transplanting | Engineering Four-Floor | Construction Administration | Total Estimate |
| 2023 | \$7,766 | \$674,590 | \$554,372 | \$41,023 | \$86,771 | \$136,452 | \$68,226 | \$1,561,434 |
| 2024 | \$8,123 | \$705,621 | \$579,873 | \$42,911 | \$90,763 | \$142,729 | \$71,365 | \$1,633,260 |
| 2025 | \$8,464 | \$735,257 | \$604,227 | \$44,713 | \$94,575 | \$148,724 | \$74,362 | \$1,701,957 |
| 2026 | \$8,803 | \$764,667 | \$628,396 | \$46,501 | \$98,358 | \$154,673 | \$77,336 | \$1,769,932 |
| 2027 | \$9,155 | \$795,254 | \$653,532 | \$48,361 | \$102,292 | \$160,859 | \$80,430 | \$1,840,720 |
| 2028 | \$9,540 | \$828,655 | \$680,981 | \$50,393 | \$106,588 | \$167,616 | \$83,808 | \$1,918,040 |

| Canal Group 5 | | | | | | | | |
|---|-----------------------|-------------------|--------------------------|--------------------|---------------------------|---------------------------|--------------------------------|----------------|
| INFLATION ADJUSTED FUTURE PROBABLE COST | | | | | | | | |
| Construction/Fiscal Year | Insurance/End- ing | Mak'Domah (LS) | Dredging II Placement | Environmen- tal | Seagrass Transplanting | Engineering Four-Floor | Construction Administration | Total Estimate |
| 2023 | \$27,068 | \$674,590 | \$1,932,236 | \$142,985 | \$302,437 | \$307,932 | \$153,966 | \$3,514,145 |
| 2024 | \$28,313 | \$705,621 | \$2,021,119 | \$149,563 | \$316,349 | \$322,096 | \$161,048 | \$888888 |
| 2025 | \$29,502 | \$735,257 | \$2,106,006 | \$155,844 | \$329,636 | \$329,625 | \$167,812 | \$3,830,180 |
| 2026 | \$30,682 | \$764,667 | \$2,190,246 | \$162,078 | \$342,821 | \$349,049 | \$174,525 | \$888888 |
| 2027 | \$31,910 | \$795,254 | \$888888 | \$168,561 | \$356,534 | \$363,011 | \$181,506 | \$4,142,722 |
| 2028 | \$33,250 | \$828,655 | \$888888 | \$175,641 | \$371,508 | \$378,258 | \$189,120 | \$4,316,717 |

| Canal Group 6 | | | | | | | | |
|---|-----------------------|-------------------|--------------------------|--------------------|---------------------------|---------------------------|--------------------------------|----------------|
| INFLATION ADJUSTED FUTURE PROBABLE COST | | | | | | | | |
| Construction/Fiscal Year | Insurance/End- ing | Mak'Domah (LS) | Dredging II Placement | Environmen- tal | Seagrass Transplanting | Engineering Four-Floor | Construction Administration | Total Estimate |
| 2023 | \$16,764 | \$674,590 | \$1,196,700 | \$88,556 | \$187,310 | \$216,392 | \$108,196 | \$2,471,743 |
| 2024 | \$17,935 | \$705,621 | \$1,251,748 | \$92,625 | \$195,926 | \$226,346 | \$113,173 | \$888888 |
| 2025 | \$19,272 | \$735,257 | \$1,304,321 | \$96,520 | \$204,155 | \$235,852 | \$117,926 | \$888888 |
| 2026 | \$19,003 | \$764,667 | \$1,356,494 | \$100,381 | \$212,321 | \$245,287 | \$122,643 | \$2,301,793 |
| 2027 | \$19,763 | \$795,254 | \$1,410,754 | \$104,396 | \$220,814 | \$255,099 | \$127,549 | \$2,913,865 |
| 2028 | \$20,593 | \$828,655 | \$1,470,006 | \$108,780 | \$230,088 | \$265,812 | \$132,986 | \$888888 |

| Canal Group 7 | | | | | | | | |
|---|-----------------------|-------------------|--------------------------|--------------------|---------------------------|---------------------------|--------------------------------|----------------|
| INFLATION ADJUSTED FUTURE PROBABLE COST | | | | | | | | |
| Construction/Fiscal Year | Insurance/End- ing | Mak'Domah (LS) | Dredging II Placement | Environmen- tal | Seagrass Transplanting | Engineering Four-Floor | Construction Administration | Total Estimate |
| 2023 | \$3,824 | \$674,590 | \$272,871 | \$20,200 | \$42,726 | \$101,431 | \$50,716 | \$1,162,633 |
| 2024 | \$4,000 | \$705,621 | \$285,528 | \$21,129 | \$44,691 | \$106,097 | \$53,048 | \$1,216,114 |
| 2025 | \$4,168 | \$735,257 | \$297,520 | \$22,016 | \$46,568 | \$110,553 | \$55,276 | \$1,267,191 |
| 2026 | \$4,335 | \$764,667 | \$309,420 | \$22,897 | \$48,431 | \$114,975 | \$57,488 | \$1,317,879 |
| 2027 | \$4,508 | \$795,254 | \$321,797 | \$23,813 | \$50,348 | \$119,574 | \$59,787 | \$1,370,594 |
| 2028 | \$4,697 | \$828,655 | \$335,313 | \$24,813 | \$52,404 | \$124,596 | \$62,298 | \$1,428,150 |

Project Approach - Study, Methodology, and Rates

- Determine Canal Services and Improvements
- Estimated Costs of Services and Improvements
- Determine Benefit Area/Type of Benefit
 - General Public Purpose – millage, IST, grants
 - Partial benefit – millage and special assessment
 - Local benefit – special assessment
- Develop Apportionment Methodology
- Develop Preliminary Assessment Roll Database
- Apply Apportionment Methodology to Database
- Calculate Rates
- Prepare and Present Proposed Canal Assessment Program(s)
- Community Outreach and Educational Efforts

What is a Special Assessment?

Charge imposed against real property to pay for essential services and capital infrastructure.

Case Law Requirements

1. Special Benefit to Property
2. Fair and Reasonable Apportionment



Localized Benefit -- Data Components for Each Group

1. Identify Services and Infrastructure Improvements

2. Determine Cost of Services and Infrastructure

- Develop multi-year assessable budgets
 - Include study and miscellaneous collection costs
 - 8 assessable budgets based the groups:
 - 7 local benefit areas (includes part of partial)
 - 1 general benefit area (includes part of partial)

3. Identify Benefitted Parcels

- Determine who benefits
 - Services/improvements

Localized Benefit -- Data Components for Each Group

4. Develop Apportionment Methodology

- Fair and reasonable allocation of costs to properties

- Property Uses

- Residential
- Non-Residential
- Abutting vs. non-abutting

- Billing Units

- Dwelling units
- Allowable boat slip
- Buildable residential lots
- Equivalent Residential Unit (ERU)
- **Water Access Units**
 - Docks, boat slips, other
 - Private boat ramp
- Waterfront footage
- Other

| Group | # Parcels | % Parcels | Units | % Units |
|--------------|--------------|----------------|--------------|----------------|
| 1 | 411 | 13.90% | 325 | 15.19% |
| 2 | 568 | 19.22% | 404 | 18.87% |
| 3 | 252 | 8.53% | 62 | 2.92% |
| 4 | 464 | 15.70% | 126 | 5.89% |
| 5 | 646 | 21.85% | 614 | 28.66% |
| 6 | 605 | 20.47% | 583 | 27.24% |
| 7 | 10 | 0.34% | 26 | 1.22% |
| Total | 2,956 | 100.00% | 2,141 | 100.00% |

Group 1

| | 2024 | 2025 | 2026 | 2027 | 2028 | Five-Year Average Annual |
|---|------------------|------------------|------------------|------------------|------------------|-----------------------------|
| Insurance/Bonding | 2,008 | 2,008 | 2,008 | 2,008 | 2,008 | 2,008 |
| Mob/Demob (LS) | 124,298 | 124,298 | 124,298 | 124,298 | 124,298 | 124,298 |
| Dredging & Placement (CY) | 143,361 | 143,361 | 143,361 | 143,361 | 143,361 | 143,361 |
| Environmental Protection | 10,609 | 10,609 | 10,609 | 10,609 | 10,609 | 10,609 |
| Seagrass Transplanting & Monitoring (CY) | 18,633 | 18,633 | 18,633 | 18,633 | 18,633 | 18,633 |
| Engineering Fees - Plans, Design & Specs | 29,891 | 29,891 | 29,891 | 29,891 | 29,891 | 29,891 |
| Construction Administration | 14,945 | 14,945 | 14,945 | 14,945 | 14,945 | 14,945 |
| Total Dredging OPC | \$343,746 | \$343,746 | \$343,746 | \$343,746 | \$343,746 | \$343,746 |
| Annual O&M | | | | | | |
| Navigational Markers repair & replacement | 4,171 | 4,380 | 4,599 | 4,829 | 5,070 | 4,610 |
| Overhead -- Finance Staff | 6,952 | 7,300 | 7,665 | 8,048 | 8,450 | 7,683 |
| Overhead -- Public Works | 6,952 | 7,300 | 7,665 | 8,048 | 8,450 | 7,683 |
| Total Expenditures | \$18,075 | \$18,979 | \$19,928 | \$20,924 | \$21,970 | \$19,975 |
| Misc. Assessment Expenditures | | | | | | |
| Study & Implementation | 25,761 | 3,476 | 3,476 | 3,476 | 3,476 | 7,933 |
| Legal Fees | 3,476 | 2,086 | 2,086 | 2,086 | 2,086 | 2,364 |
| Collection Costs (Property Appraiser @1.5%) | 6,318 | 5,942 | 5,957 | 5,973 | 5,990 | 6,036 |
| Collection Costs (Tax Collector @1.5%) | 6,318 | 5,942 | 5,957 | 5,973 | 5,990 | 6,036 |
| First Class Notice Costs (\$1.53 per) | 629 | 100 | 100 | 100 | 100 | 206 |
| Statutory Discount (@4%) | 16,847 | 15,845 | 15,885 | 15,928 | 15,973 | 16,096 |
| Total Misc. Assessment Expenditures | \$59,348 | \$33,390 | \$33,461 | \$33,536 | \$33,615 | \$38,670 |
| Total Assessable Budget | \$421,169 | \$396,114 | \$397,134 | \$398,206 | \$399,331 | \$402,391 |
| Units | 325 | 325 | 325 | 325 | 325 | 325 |
| Annual Rate Per Billing Unit | \$1,296 | \$1,218 | \$1,222 | \$1,225 | \$1,228 | \$1,238 |
| Monthly Rate Per Billing Unit | \$108.00 | \$101.50 | \$101.83 | \$102.08 | \$102.33 | \$103.17 |



| Group 1 | |
|----------------|------------------------|
| Canal # | Type of Benefit |
| 1 | Local |
| 1P | General |
| 2A | General |
| 2A | Local |
| 2 | Local |
| 2B | Local |
| 3 | Local |
| 4 | Local |
| 5 | Local |
| 6 | Local |
| 7 | Local |
| 7A | Local |
| 8 | Local |
| 9 | Local |
| 10 | Local |

Group 2

| | 2024 | 2025 | 2026 | 2027 | 2028 | Five-Year Average Annual |
|---|------------------|------------------|------------------|------------------|------------------|-----------------------------|
| Insurance/Bonding | 2,379 | 2,379 | 2,379 | 2,379 | 2,379 | 2,379 |
| Mob/Demob (LS) | 156,524 | 156,524 | 156,524 | 156,524 | 156,524 | 156,524 |
| Dredging & Placement (CY) | 169,822 | 169,822 | 169,822 | 169,822 | 169,822 | 169,822 |
| Environmental Protection | 12,567 | 12,567 | 12,567 | 12,567 | 12,567 | 12,567 |
| Seagrass Transplanting & Monitoring (CY) | 23,127 | 23,127 | 23,127 | 23,127 | 23,127 | 23,127 |
| Engineering Fees - Plans, Design & Specs | 36,442 | 36,442 | 36,442 | 36,442 | 36,442 | 36,442 |
| Construction Administration | 18,221 | 18,221 | 18,221 | 18,221 | 18,221 | 18,221 |
| Total Dredging OPC | \$419,082 | \$419,082 | \$419,082 | \$419,082 | \$419,082 | \$419,082 |
| Annual O&M | | | | | | |
| Navigational Markers repair & replacement | 5,765 | 6,053 | 6,355 | 6,673 | 7,007 | 6,371 |
| Overhead -- Finance Staff | 9,608 | 10,088 | 10,592 | 11,122 | 11,678 | 10,618 |
| Overhead -- Public Works | 9,608 | 10,088 | 10,592 | 11,122 | 11,678 | 10,618 |
| Total Expenditures | \$24,980 | \$26,229 | \$27,540 | \$28,917 | \$30,363 | \$27,606 |
| Misc. Assessment Expenditures | | | | | | |
| Study & Implementation | 35,602 | 4,804 | 4,804 | 4,804 | 4,804 | 10,963 |
| Legal Fees | 4,804 | 2,882 | 2,882 | 2,882 | 2,882 | 3,267 |
| Collection Costs (Property Appraiser @1.5%) | 7,828 | 7,308 | 7,329 | 7,351 | 7,375 | 7,438 |
| Collection Costs (Tax Collector @1.5%) | 7,828 | 7,308 | 7,329 | 7,351 | 7,375 | 7,438 |
| First Class Notice Costs (\$1.53 per) | 869 | 100 | 100 | 100 | 100 | 254 |
| Statutory Discount (@4%) | 20,875 | 19,488 | 19,544 | 19,604 | 19,666 | 19,835 |
| Total Misc. Assessment Expenditures | \$77,806 | \$41,890 | \$41,989 | \$42,092 | \$42,201 | \$49,196 |
| Total Assessable Budget | \$521,867 | \$487,200 | \$488,610 | \$490,091 | \$491,646 | \$495,883 |
| Units | 404 | 404 | 404 | 404 | 404 | 404 |
| Annual Rate Per Billing Unit | \$1,292 | \$1,206 | \$1,210 | \$1,213 | \$1,217 | \$1,228 |
| Monthly Rate Per Billing Unit | \$107.67 | \$100.50 | \$100.83 | \$101.08 | \$101.42 | \$102.33 |



| Group 2 | |
|---------|-----------------|
| Canal # | Type of Benefit |
| 11 | Local |
| 11A | Local |
| 11A | General |
| 11B | Local |
| 11B | Local |
| 11C | Local |
| 12 | Local |
| 13 | Local |
| 14 | Local |
| 14B | Local |
| 15N | Local |
| 15S | Local |
| 15W | Local |
| 16 | Local |
| 16A | Local |
| 17 | Local |
| 18 | Local |
| 19 | Local |

Group 3

| | 2024 | 2025 | 2026 | 2027 | 2028 | Five-Year Average Annual |
|---|------------------|------------------|------------------|------------------|------------------|-----------------------------|
| Insurance/Bonding | 448 | 448 | 448 | 448 | 448 | 448 |
| Mob/Demob (LS) | 103,582 | 103,582 | 103,582 | 103,582 | 103,582 | 103,582 |
| Dredging & Placement (CY) | 31,984 | 31,984 | 31,984 | 31,984 | 31,984 | 31,984 |
| Environmental Protection | 2,367 | 2,367 | 2,367 | 2,367 | 2,367 | 2,367 |
| Seagrass Transplanting & Monitoring (CY) | 3,597 | 3,597 | 3,597 | 3,597 | 3,597 | 3,597 |
| Engineering Fees - Plans, Design & Specs | 14,198 | 14,198 | 14,198 | 14,198 | 14,198 | 14,198 |
| Construction Administration | 7,099 | 7,099 | 7,099 | 7,099 | 7,099 | 7,099 |
| Total Dredging OPC | \$163,274 | \$163,274 | \$163,274 | \$163,274 | \$163,274 | \$163,274 |
| Annual O&M | | | | | | |
| Navigational Markers repair & replacement | 2,558 | 2,685 | 2,820 | 2,961 | 3,109 | 2,826 |
| Overhead -- Finance Staff | 4,263 | 4,476 | 4,699 | 4,934 | 5,181 | 4,711 |
| Overhead -- Public Works | 4,263 | 4,476 | 4,699 | 4,934 | 5,181 | 4,711 |
| Total Expenditures | \$11,083 | \$11,637 | \$12,219 | \$12,829 | \$13,471 | \$12,248 |
| Misc. Assessment Expenditures | | | | | | |
| Study & Implementation | 15,795 | 2,131 | 2,131 | 2,131 | 2,131 | 4,864 |
| Legal Fees | 2,131 | 1,279 | 1,279 | 1,279 | 1,279 | 1,449 |
| Collection Costs (Property Appraiser @1.5%) | 3,108 | 2,878 | 2,887 | 2,897 | 2,907 | 2,935 |
| Collection Costs (Tax Collector @1.5%) | 3,108 | 2,878 | 2,887 | 2,897 | 2,907 | 2,935 |
| First Class Notice Costs (\$1.53 per) | 386 | 100 | 100 | 100 | 100 | 157 |
| Statutory Discount (@4%) | 8,287 | 7,674 | 7,699 | 7,725 | 7,753 | 7,828 |
| Total Misc. Assessment Expenditures | \$32,814 | \$16,940 | \$16,983 | \$17,029 | \$17,078 | \$20,169 |
| Total Assessable Budget | \$207,170 | \$191,850 | \$192,476 | \$193,132 | \$193,822 | \$195,690 |
| Units | 62 | 62 | 62 | 62 | 62 | 62 |
| Annual Rate Per Billing Unit | \$3,317 | \$3,071 | \$3,081 | \$3,092 | \$3,103 | \$3,133 |
| Monthly Rate Per Billing Unit | \$276.42 | \$255.92 | \$256.75 | \$257.67 | \$258.58 | \$261.08 |



Group 3

| Canal # | Type of Benefit |
|---------|-----------------|
| 20 | General |
| 20A | General |
| 20P | Cost Share |
| 21 | Local |
| 21A | General |
| 21P | Local |
| 22 | Local |
| 22A | General |
| 22P | Local |
| 23 | Local |
| 23P | Local |
| 24 | Local |

Group 4

| | 2024 | 2025 | 2026 | 2027 | 2028 | Five-Year Average Annual |
|---|------------------|------------------|------------------|------------------|------------------|-----------------------------|
| Insurance/Bonding | 2,695 | 2,695 | 2,695 | 2,695 | 2,695 | 2,695 |
| Mob/Demob (LS) | 119,119 | 119,119 | 119,119 | 119,119 | 119,119 | 119,119 |
| Dredging & Placement (CY) | 192,388 | 192,388 | 192,388 | 192,388 | 192,388 | 192,388 |
| Environmental Protection | 14,237 | 14,237 | 14,237 | 14,237 | 14,237 | 14,237 |
| Seagrass Transplanting & Monitoring (CY) | 35,975 | 35,975 | 35,975 | 35,975 | 35,975 | 35,975 |
| Engineering Fees - Plans, Design & Specs | 36,441 | 36,441 | 36,441 | 36,441 | 36,441 | 36,441 |
| Construction Administration | 18,221 | 18,221 | 18,221 | 18,221 | 18,221 | 18,221 |
| Total Dredging OPC | \$419,077 | \$419,077 | \$419,077 | \$419,077 | \$419,077 | \$419,077 |
| Annual O&M | | | | | | |
| Navigational Markers repair & replacement | 11,265 | 11,828 | 12,420 | 13,041 | 13,693 | 12,449 |
| Overhead -- Finance Staff | 18,775 | 19,714 | 20,700 | 21,735 | 22,822 | 20,749 |
| Overhead -- Public Works | 18,775 | 19,714 | 20,700 | 21,735 | 22,822 | 20,749 |
| Total Expenditures | \$48,816 | \$51,257 | \$53,820 | \$56,511 | \$59,336 | \$53,948 |
| Misc. Assessment Expenditures | | | | | | |
| Study & Implementation | 69,574 | 9,388 | 9,388 | 9,388 | 9,388 | 21,425 |
| Legal Fees | 9,388 | 5,633 | 5,633 | 5,633 | 5,633 | 6,384 |
| Collection Costs (Property Appraiser @1.5%) | 8,832 | 7,830 | 7,871 | 7,915 | 7,960 | 8,082 |
| Collection Costs (Tax Collector @1.5%) | 8,832 | 7,830 | 7,871 | 7,915 | 7,960 | 8,082 |
| First Class Notice Costs (\$1.53 per) | 710 | 100 | 100 | 100 | 100 | 222 |
| Statutory Discount (@4%) | 23,551 | 20,880 | 20,990 | 21,106 | 21,227 | 21,551 |
| Total Misc. Assessment Expenditures | \$120,887 | \$51,660 | \$51,853 | \$52,055 | \$52,268 | \$65,744 |
| Total Assessable Budget | \$588,779 | \$521,993 | \$524,749 | \$527,642 | \$530,681 | \$538,769 |
| Units | 126 | 126 | 126 | 126 | 126 | 126 |
| Annual Rate Per Billing Unit | \$4,666 | \$4,136 | \$4,158 | \$4,181 | \$4,205 | \$4,269 |
| Monthly Rate Per Billing Unit | \$388.83 | \$344.67 | \$346.50 | \$348.42 | \$350.42 | \$355.75 |



Group 4

| Canal # | Type of Benefit |
|---------|-----------------|
| 24P | Cost Share |
| 25 | Local |
| 26 | Local |
| 26P | Cost Share |
| 31A | General |
| 26P | Cost Share |
| 27 | Local |
| 28 | Local |
| 29 | Local |
| 30 | Local |
| 31 | Local |
| 31A | General |
| 31C | Local |
| 31D | Local |
| 31E | Local |

Group 5

| | 2024 | 2025 | 2026 | 2027 | 2028 | Five-Year Average Annual |
|---|------------------|------------------|------------------|------------------|------------------|--------------------------|
| Insurance/Bonding | 1,764 | 1,764 | 1,764 | 1,764 | 1,764 | 1,764 |
| Mob/Demob (LS) | 115,321 | 115,321 | 115,321 | 115,321 | 115,321 | 115,321 |
| Dredging & Placement (CY) | 125,952 | 125,952 | 125,952 | 125,952 | 125,952 | 125,952 |
| Environmental Protection | 9,320 | 9,320 | 9,320 | 9,320 | 9,320 | 9,320 |
| Seagrass Transplanting & Monitoring (CY) | 14,426 | 14,426 | 14,426 | 14,426 | 14,426 | 14,426 |
| Engineering Fees - Plans, Design & Specs | 26,678 | 26,678 | 26,678 | 26,678 | 26,678 | 26,678 |
| Construction Administration | 13,339 | 13,339 | 13,339 | 13,339 | 13,339 | 13,339 |
| Total Dredging OPC | \$306,802 | \$306,802 | \$306,802 | \$306,802 | \$306,802 | \$306,802 |
| Annual O&M | | | | | | |
| Navigational Markers repair & replacement | 6,556 | 6,884 | 7,228 | 7,590 | 7,969 | 7,245 |
| Overhead -- Finance Staff | 10,927 | 11,473 | 12,047 | 12,649 | 13,282 | 12,076 |
| Overhead -- Public Works | 10,927 | 11,473 | 12,047 | 12,649 | 13,282 | 12,076 |
| Total Expenditures | \$28,410 | \$29,831 | \$31,322 | \$32,888 | \$34,533 | \$31,397 |
| Misc. Assessment Expenditures | | | | | | |
| Study & Implementation | 40,491 | 5,463 | 5,463 | 5,463 | 5,463 | 12,469 |
| Legal Fees | 5,463 | 3,278 | 3,278 | 3,278 | 3,278 | 3,715 |
| Collection Costs (Property Appraiser @1.5%) | 6,164 | 5,572 | 5,596 | 5,621 | 5,648 | 5,720 |
| Collection Costs (Tax Collector @1.5%) | 6,164 | 5,572 | 5,596 | 5,621 | 5,648 | 5,720 |
| First Class Notice Costs (\$1.53 per) | 988 | 100 | 100 | 100 | 100 | 278 |
| Statutory Discount (@4%) | 16,437 | 14,859 | 14,923 | 14,991 | 15,061 | 15,254 |
| Total Misc. Assessment Expenditures | \$75,707 | \$34,845 | \$34,957 | \$35,075 | \$35,199 | \$43,157 |
| Total Assessable Budget | \$410,919 | \$371,478 | \$373,081 | \$374,765 | \$376,533 | \$381,355 |
| Units | 614 | 614 | 614 | 614 | 614 | 614 |
| Annual Rate Per Billing Unit | \$670 | \$606 | \$608 | \$611 | \$614 | \$622 |
| Monthly Rate Per Billing Unit | \$55.83 | \$50.50 | \$50.67 | \$50.92 | \$51.17 | \$51.83 |



Group 5

| Canal # | Type of Benefit |
|---------|-----------------|
| 32 | Local |
| 32A | General |
| 32B | Cost Share |
| 32B | Local |
| 32P | Cost Share |
| 32P | Local |
| 33 | General |
| 33 | Cost Share |
| 33 | Local |
| 33A | General |
| 33B | Cost Share |
| 33C | Cost Share |
| 33C | Local |
| 33C | Local |
| 33C | Local |
| 33C | Local |

Group 6

| | 2024 | 2025 | 2026 | 2027 | 2028 | Five-Year Average Annual |
|---|------------------|------------------|------------------|------------------|------------------|--------------------------|
| Insurance/Bonding | 2,258 | 2,258 | 2,258 | 2,258 | 2,258 | 2,258 |
| Mob/Demob (LS) | 157,839 | 157,839 | 157,839 | 157,839 | 157,839 | 157,839 |
| Dredging & Placement (CY) | 161,207 | 161,207 | 161,207 | 161,207 | 161,207 | 161,207 |
| Environmental Protection | 11,929 | 11,929 | 11,929 | 11,929 | 11,929 | 11,929 |
| Seagrass Transplanting & Monitoring (CY) | 26,031 | 26,031 | 26,031 | 26,031 | 26,031 | 26,031 |
| Engineering Fees - Plans, Design & Specs | 35,927 | 35,927 | 35,927 | 35,927 | 35,927 | 35,927 |
| Construction Administration | 17,963 | 17,963 | 17,963 | 17,963 | 17,963 | 17,963 |
| Total Dredging OPC | \$413,155 | \$413,155 | \$413,155 | \$413,155 | \$413,155 | \$413,155 |
| Annual O&M | | | | | | |
| Navigational Markers repair & replacement | 6,140 | 6,447 | 6,769 | 7,108 | 7,463 | 6,786 |
| Overhead -- Finance Staff | 10,233 | 10,745 | 11,282 | 11,846 | 12,439 | 11,309 |
| Overhead -- Public Works | 10,233 | 10,745 | 11,282 | 11,846 | 12,439 | 11,309 |
| Total Expenditures | \$26,607 | \$27,937 | \$29,334 | \$30,801 | \$32,341 | \$29,404 |
| Misc. Assessment Expenditures | | | | | | |
| Study & Implementation | 37,921 | 5,117 | 5,117 | 5,117 | 5,117 | 11,678 |
| Legal Fees | 5,117 | 3,070 | 3,070 | 3,070 | 3,070 | 3,479 |
| Collection Costs (Property Appraiser @1.5%) | 7,802 | 7,248 | 7,271 | 7,294 | 7,319 | 7,387 |
| Collection Costs (Tax Collector @1.5%) | 7,802 | 7,248 | 7,271 | 7,294 | 7,319 | 7,387 |
| First Class Notice Costs (\$1.53 per) | 926 | 100 | 100 | 100 | 100 | 265 |
| Statutory Discount (@4%) | 20,805 | 19,328 | 19,388 | 19,451 | 19,518 | 19,698 |
| Total Misc. Assessment Expenditures | \$80,373 | \$42,111 | \$42,216 | \$42,326 | \$42,442 | \$49,894 |
| Total Assessable Budget | \$520,135 | \$483,203 | \$484,705 | \$486,282 | \$487,938 | \$492,453 |
| Units | 583 | 583 | 583 | 583 | 583 | 583 |
| Annual Rate Per Billing Unit | \$892 | \$829 | \$831 | \$834 | \$837 | \$845 |
| Monthly Rate Per Billing Unit | \$74.33 | \$69.08 | \$69.25 | \$69.50 | \$69.75 | \$70.42 |



Group 6

| Canal # | Type of Benefit |
|---------|-----------------|
| 34-53 | Local |
| 54 | General |

Group 7

| | 2024 | 2025 | 2026 | 2027 | 2028 | Five-Year Average Annual |
|---|------------------|------------------|------------------|------------------|------------------|--------------------------|
| Insurance/Bonding | 486 | 486 | 486 | 486 | 486 | 486 |
| Mob/Demob (LS) | 82,865 | 82,865 | 82,865 | 82,865 | 82,865 | 82,865 |
| Dredging & Placement (CY) | 34,702 | 34,702 | 34,702 | 34,702 | 34,702 | 34,702 |
| Environmental Protection | 2,568 | 2,568 | 2,568 | 2,568 | 2,568 | 2,568 |
| Seagrass Transplanting & Monitoring (CY) | 7,590 | 7,590 | 7,590 | 7,590 | 7,590 | 7,590 |
| Engineering Fees - Plans, Design & Specs | 12,821 | 12,821 | 12,821 | 12,821 | 12,821 | 12,821 |
| Construction Administration | 6,411 | 6,411 | 6,411 | 6,411 | 6,411 | 6,411 |
| Total Dredging OPC | \$147,444 | \$147,444 | \$147,444 | \$147,444 | \$147,444 | \$147,444 |
| Annual O&M | | | | | | |
| Navigational Markers repair & replacement | 101 | 107 | 112 | 117 | 123 | 112 |
| Overhead -- Finance Staff | 169 | 178 | 186 | 196 | 206 | 187 |
| Overhead -- Public Works | 169 | 178 | 186 | 196 | 206 | 187 |
| Total Expenditures | \$440 | \$462 | \$485 | \$509 | \$535 | \$486 |
| Misc. Assessment Expenditures | | | | | | |
| Study & Implementation | 627 | 85 | 85 | 85 | 85 | 193 |
| Legal Fees | 85 | 51 | 51 | 51 | 51 | 58 |
| Collection Costs (Property Appraiser @1.5%) | 2,397 | 2,389 | 2,390 | 2,390 | 2,391 | 2,391 |
| Collection Costs (Tax Collector @1.5%) | 2,397 | 2,389 | 2,390 | 2,390 | 2,391 | 2,391 |
| First Class Notice Costs (\$1.53 per) | 15 | 100 | 100 | 100 | 100 | 83 |
| Statutory Discount (@4%) | 6,392 | 6,372 | 6,373 | 6,374 | 6,375 | 6,377 |
| Total Misc. Assessment Expenditures | \$11,912 | \$11,386 | \$11,387 | \$11,389 | \$11,391 | \$11,493 |
| Total Assessable Budget | \$159,796 | \$159,291 | \$159,316 | \$159,342 | \$159,369 | \$159,423 |
| Units | 26 | 26 | 26 | 26 | 26 | 26 |
| Annual Rate Per Billing Unit | \$6,123 | \$6,104 | \$6,105 | \$6,106 | \$6,107 | \$6,109 |
| Monthly Rate Per Billing Unit | \$510.25 | \$508.67 | \$508.75 | \$508.83 | \$508.92 | \$509.08 |



Group 7

| Canal # | Type of Benefit |
|---------|-----------------|
| 55 | Local |
| 55 | General |
| 55A | Cost Share |

Summary

5-Year Average Annual Costs

| | Group 1 | Group 2 | Group 3 | Group 4 | Group 5 | Group 6 | Group 7 |
|-------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Dredging OPC | \$343,746 | \$419,082 | \$163,274 | \$419,077 | \$306,802 | \$413,155 | \$147,444 |
| O&M | \$19,975 | \$27,606 | \$12,248 | \$53,948 | \$31,397 | \$29,404 | \$486 |
| Total Expenditures | \$363,721 | \$446,687 | \$175,521 | \$473,024 | \$338,199 | \$442,559 | \$147,930 |
| Total Misc. Assessment Expenditures | \$38,670 | \$49,196 | \$20,169 | \$65,744 | \$43,157 | \$49,894 | \$11,493 |
| Total Assessable Budget | \$402,391 | \$495,883 | \$195,690 | \$538,769 | \$381,355 | \$492,453 | \$159,423 |
| Units | 325 | 404 | 62 | 126 | 614 | 583 | 26 |
| Annual Rate | \$1,238 | \$1,228 | \$3,133 | \$4,269 | \$622 | \$845 | \$6,109 |
| Monthly Rate | \$103.17 | \$102.33 | \$261.08 | \$355.75 | \$51.83 | \$70.42 | \$509.08 |

General Benefit

Data Components

1. Identify Services Provided and Infrastructure Improvements
 - Annual maintenance services
 - Immediate capital infrastructure needs
 - Strategic Plan for future capital needs
2. Determine Cost of Services and Infrastructure
 - Total Costs - Revenues (IST for Sarasota and grants) = Net Expenditures
3. Identify Taxable Values
 - Based on 2023 taxable values -- \$8.353 Billion
4. Determine millage rate



General Benefit Budget

| | |
|---------------------|---------------|
| Expenditures | \$1,136,437 |
| Collection Costs | \$85,538 |
| Total Expenditures | \$1,221,975 |
| Millage Rate | 0.1524 |

| Taxable Value | Millage Charge |
|---------------|----------------|
| \$250,000 | \$38.10 |
| 500,000 | \$76.20 |
| 750,000 | \$114.30 |
| 1,000,000 | \$152.40 |
| 1,500,000 | \$228.60 |
| 2,000,000 | \$304.80 |

Schedule

| Event | Date |
|--|---|
| Workshop on Proposed Methodology & Rates | November 6, 2023 |
| Town Publishes Public Hearing on Resolution of Intent | November 10, 17, 24, and December 1, 2023 |
| Town Adopts Resolution of Intent | December 4, 2023 |
| Continuation of Workshop, if necessary | December 4, 2023 |
| Public Workshops and Educational Outreach Efforts | December 2023 – April 2024 |
| Implementation* | |
| Town Adopts Initial Assessment Resolution(s) | May 6, 2024 @ 1:00 p.m. |
| Mail First Class Notices (20 days prior to public hearing) | By May 13, 2024 |
| Publish Notice of Public Hearing (20 days prior to public hearing) | By May 13, 2024 |
| Town Adopts Final Assessment Resolution(s) at Public Hearing | June 3, 2024 |
| TRIM rolls to Property Appraisers** | Sarasota July 10, 2024 Manatee July 12, 2024 |
| Certify Assessment Rolls to Tax Collectors | By September 15, 2024 |
| Canal Navigational Maintenance Assessment Collected on Tax Bill | November 2024 |

*Ordinance 2015-30 Authorizes creation of assessment areas by resolution and implementation of capital and service assessments and establishes procedures for implementation.

** Town's policy in past to include non-ad valorem on TRIM notice.

Strategic Plan for Navigational Maintenance Services

What is in the Work Plan

- Survey
- Design
- Permit
- Natural Resource Survey/Mitigation
- Mangrove trimming
- Initial Dredging
 - Develop long-term dredging management program
 - Survey and design
- Navigational markers
- Dedicated staffing

Next Steps

- Public Outreach
 - GIS Maps
 - Searchable Database
 - Informational Brochures
 - First Class Notices
 - Published Notice
- Proceed with Implementation
- Schedule
- Local Assessment Rates
 - Exemptions
- General Benefit Millage Rate
- Other