

**12. CITY MANAGER**

a. Informational Items

- i. Status report regarding the Dinkins Bayous dredging project



City of Sanibel

**MEMORANDUM**

DATE: April 25, 2011  
TO: Gates D. Castle, Public Works  
FROM: Scott Krawczuk, Public Works  
RE: Dinkins Bayou Dredging Project Status

Preliminary work has begun in preparation for the proposed Dinkins Bayou dredging project. The following information has been determined or continues to be researched.

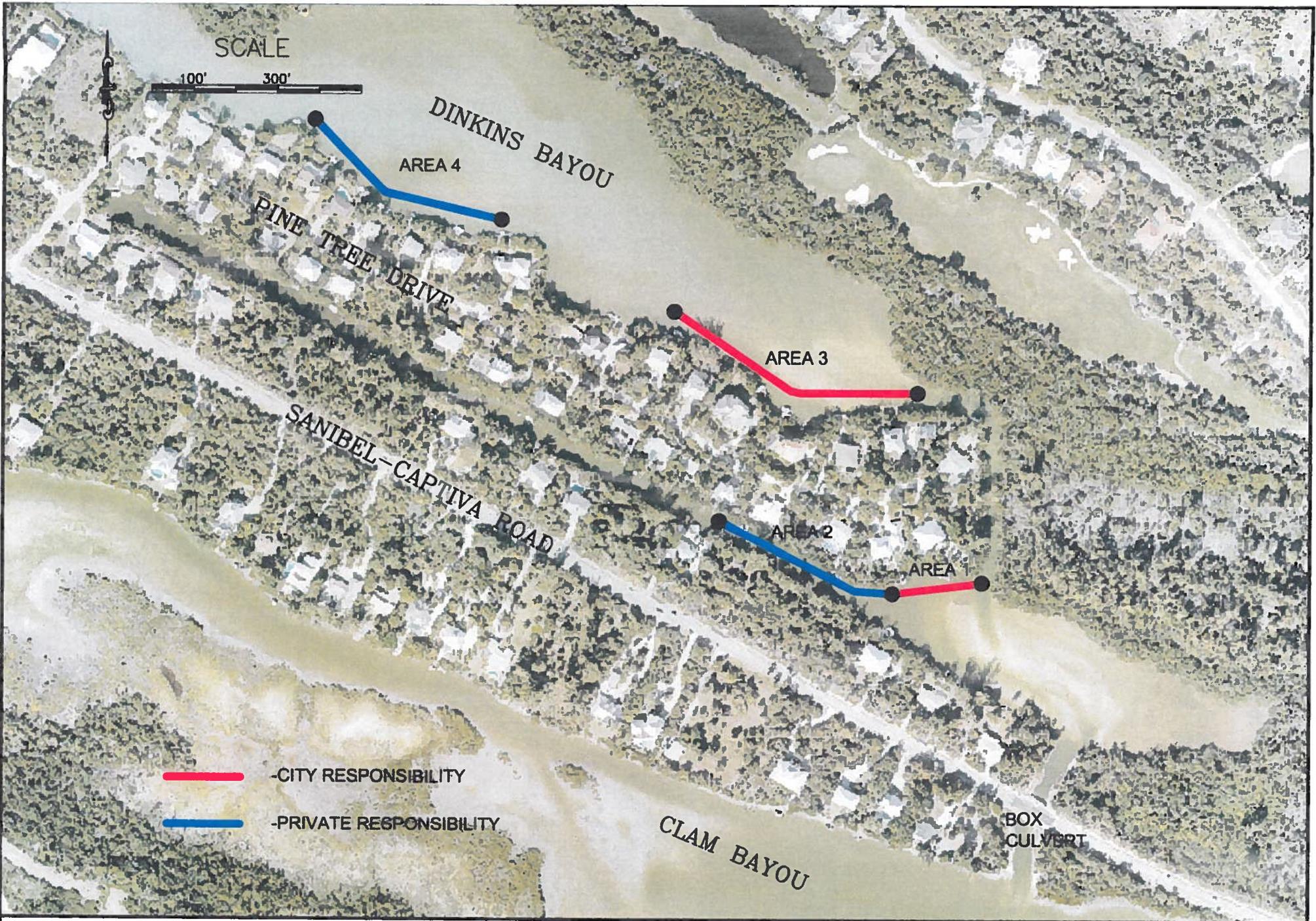
1. The following dredge areas are proposed and shown on attached map:

AREA	ESTIMATED QUANTITY (CY)	RESPONSIBLE PARTY
1	310	City
2	570	Private
3	1,150	City
4	900	Private

Total estimated quantity to dredge is 2,930 cubic yards. The City's share is 1,460 cubic yards and the private responsibility would be 1,470 cubic yards.

2. Due to narrow channel widths and shallow depths leading to general project area dredging project will need to be completed using small barge ( $\pm 12' \times 26'$ ) with small trackhoe excavating machine. This operation can remove approx. 40 to 50 yards per day.
3. Potential temporary dredge spoil storage sites are sparse in this area. Vacant lots between Sanibel-Captiva Rd. and Pine Tree Dr. are heavily vegetated and would need to be cleared for use as a storage site. There are only a few potential storage sites north of Pine Tree Dr. being explored.
4. Due to slow nature of this dredging operation, a multiple number of temporary storage sites evenly distributed throughout project area would be best scenario to minimize cost. If only one storage site is available, cost of dredging per cubic yard could double.

5. There is one property owner on White Heron Lane that has indicated they would allow use of their vacant property for a storage site if they could retain dredge material for fill.
6. If temporary spoil site is not available within reasonable limits of project, the dredge material could be transferred from small barge to full size barge and then transported on full size barge to boat ramp site for final disposal. This is only possible if water depths and channel widths are adequate up to general project site to allow for full size barge. This operation would be much more costly.
7. The feasibility of hydraulic dredging into a separation truck is being explored as one option if storage sites are not available.
8. Core sample of typical dredge spoil needs to be analyzed. If material consists of high organics, project will be more costly and time consuming to dredge and will required the construction of settling ponds. Material will need to dry for multiple days prior to being hauled away with a dump truck.
9. Permits from the Florida Department of Environmental Protection and the United States Army Corps of Engineers shall be required.
10. Estimated rough costs to perform City's portion of restoration work listed below:
  - Dredge with small barge and trackhoe with multiple spoil storage sites within close proximity to each area of the project to minimize travel time. Estimated cost is \$87,000.
  - Dredge with small barge and trackhoe with one spoil storage site within general proximity to project area. Estimated cost is \$145,400.
  - Dredge with small barge and trackhoe and transfer material to full size barge to be hauled to boat ramp property as storage site. Estimated cost is \$205,000.



**City of Sanibel**

800 Dunlop Road  
Sanibel, FL 33957

**DINKINS BAYOU RESTORATION PROJECT**

DRAWN BY: SBK

APPROVED BY: GATES D. CASTLE, P.E.

CHECKED BY:

DATE: 4/25/2011

SCALE: 1"=300'

PROJECT NO. Dinkins Bayou Restoration

SHEET NO. 1