

WARNOCK & ASSOCIATES, LLC

ENGINEERING, MANAGEMENT & PLANNING

February 11, 2012

Madison County Board of Supervisors Attn: Mr. Gerald Steen P.O. Box 608 Canton, MS 39046

Re: Northbay Subdivision Lake Improvement Project Madison, MS

Dear Mr. Steen,

On January 22nd the Board of Supervisors requested that I perform an engineering evaluation of the "Northbay Subdivision Lake Improvement Project", being sponsored by the City of Madison to determine if Madison County could legally participate in paying half of the construction costs. An engineering plan and cost estimate performed by Williford Gearhart and Knight, Attachment "A", was furnished to my office by the City of Madison, via WG&K.

In performing this evaluation I made several field visits to the site to try and determine the following:

- A) Is the project considered an "Emergency"?
- B) The rightful "ownership" of the lake.
- C) The "Benefit" to Madison County residents as a whole.

EMERGENCY

As the lake exists today I could not say that the facility poses any immediate threat to the residents of the area. Attached you will see several pictures, Attachment "B", that depict the current condition of the lake. It was noted that the outflow structure has a minor leak, but not to the extent where the structural integrity has been compromised.

OWNERSHIP

The lake was originally part of a development known as "Douglas Place Estates"; please see Attachment "C". Douglas Place Estates was platted on August 6, 1986, and constitutes the northern portion of said lake. The southern portion of the lake is known as Northbay Annex Phase 1-A, see Attachment "D". The combination of the two plats encompasses the entire lake, thereby making the lake privately owned by the perspective lot owners. In my opinion this lake is no different than the thousands of ponds or lakes that exist throughout Madison County on privately held land.

"DEDICATED TO EXCELLENCE IN ENGINEERING"

158 W. CENTER STREET
CANTON, MS 39046
601-855-2250 PHONE
601-855-2599 FAX
www.warnockandassociates.com

BENEFIT

In my professional opinion there would be no benefit to Madison County as a whole in performing or assisting with the reconstruction of this or any other private lake.

In conclusion I cannot recommend Madison County participate in the "Northbay Subdivision Lake Improvement Project", based upon these findings. If you have any questions please feel free to contact me at 601-855-2250.

Sincerely,

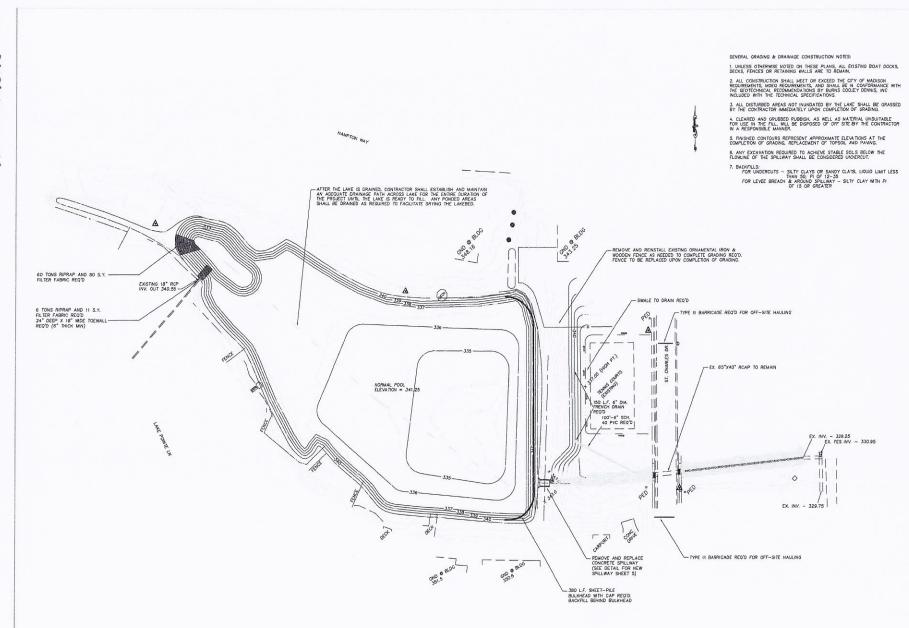
Warnock & Associates, LLC

Rudy M. Warnock, Jr., P.E.

County Engineer

Cc: File

3 Q



Attachment "A"

OPINION OF PROBABLE CONSTRUCTION COST - 2012-364-00 PROPOSED NORTHBAY DRAINAGE IMPROVEMENTS CITY OF MADISON, MISSISSIPPI REVISED AUGUST 23, 2012

ITEM	ITEM	ITEM	ESTIMATED	UNIT	TOTAL
NO.	DESCRIPTION	UNIT	QUANTITY	PRICE	PRICE
	LAKE AND SPILLWAY IMPROVEMENTS				
1	Mobilization, Clearing and Grubbing	L.S.	1	\$15,000	\$15,000
2	Removal of Obstructions	L.S.	1	\$10,000	\$10,000
3	Cut Existing Levee and Completely Drain Lake	L.S.	1	\$7,500	\$7,500
4	Unclassified Excavation	C.Y.	1485	\$5	\$7,425
5	Excess Excavation	C.Y.	11248	\$10	\$112,480
6	Sheet Piling Wall with Cap Installed	S.F.	4000	\$20	\$80,000
7	Earthfill Behind Seawall	C.Y.	295	\$10	\$2,950
8	200 LB Riprap	TON	66	\$65	\$4,290
9	Geotextile Fabric for Riprap	S.Y.	91	\$4	\$364
10	Contractor Furnished Borrow (FM)	C.Y.	300	\$25	\$7,500
11	French Drain at Toe of Dam	L.S.	1	\$2,000	\$2,000
12	Reinstallation of Existing Iron and Wooden Fence	L.S.	1	\$5,000	\$5,000
13	High-Visibility Construction Barrier Fencing	L.S.	1	\$6,500	\$6,500
14	Silt Fence	L.F.	510	\$5	\$2,550
15	Temporary Erosion Checks	Each	120	\$5	\$600
16	Grassing and Erosion Control	L.S.	1	\$5,000	\$5,000
17	Solid Sod, Common Bermuda on levee	S.Y.	1500	\$5	\$7,500
18	Curb Removal / Replacement (Construction damage)	L.F.	25	\$20	\$500
19	Sidewalk Removal / Replacement (Construction damage)	S.Y.	70	\$35	\$2,450
20	Traffic Control	L.S.	1	\$2,000	\$2,000
	SUBTOTAL				\$281,609
	CONTINGENCIES (10%)				\$28,161
	TOTAL CONSTRUCTION COSTS				\$309,770

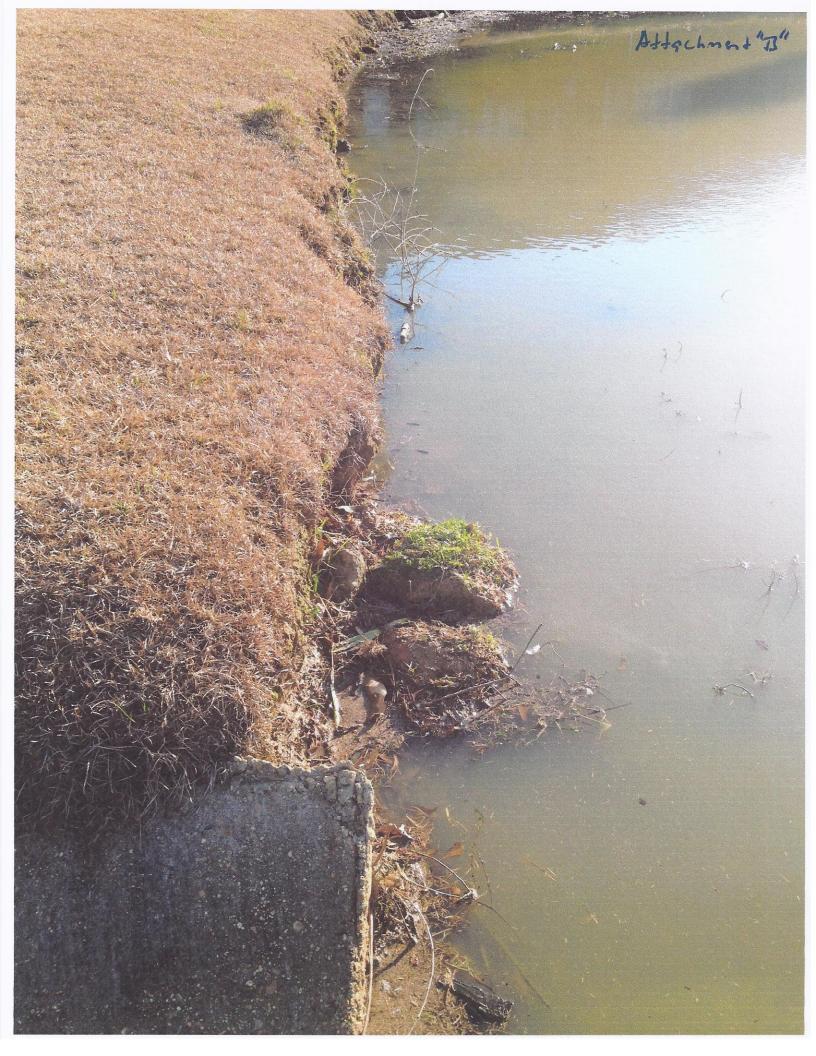










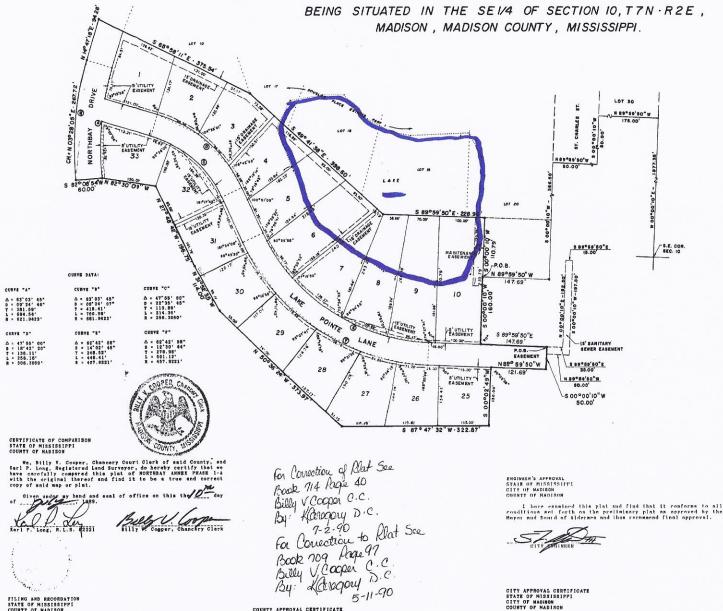






NORTHBAY ANNEX, PHASE I.A





KARL P. LONG, CONSULTING ENGINEER JACKSON , MISSISSIPPI LEGEND

SURVEYED AND PLATTED BY

IO' UTILITY EASEMENT

- IRON PIN

ALL DIMENSIONS ON CURVES SHOWN ARE CHORD DISTANCES.

1, Kerl P. Long, Registered Land Surveyor, do hereby certify that, at the request of the undersigned OWNER'S, I have subdivided and platted the following 9.53 acre parcel being situated in the SF; of Anction 10, 77N-RE, Madison, Madison County, Mississippi, and being acre particularly described as follows:

and being mere particularly described as follows:

Commencing at the SE corner of said Section 10, run thence N

O'O') 10" E 1877.3 ft. along the east line of said Section 10

to the SE corner of Lot 10 of Douglas Place Estates Lots, Part 1

Madison County, Na; run thence N 90°9° 50" W - 175.00 ft. along
the southerly line of said subdivision; thence S 00°00' 10" W - 80.00 ft. along the satestly right of vay of SE. Charles Street;
thence N 90°90' 20" W - 50.00 ft.; thence S 00°00' 10" W - 386.50 ft.;
thence N 90°90' 20" W - 50.00 ft.; thence S 00°00' 10" W - 386.50 ft.;
thence N 90°90' 20" W - 10.00 ft.; thence S 00°00' 10" W - 386.50 ft.;
run thence S 00°00' 10" W - 160.00 ft.; the point on the Service of the Service Service W - 100°00' 10" W - 100°00' 100°00' 100°00' 100°00' 100°00' 100°00' 100°00' 10°00' 100

WITHESS MY SIGNATURE on this _ 6 day of JULY . 1989.

1, J.A. Brown, President of Northpointe Builders, a Mississippi Corporation, the General Partner of Northbay, Ltd., a Mississippi General Partnership do hereby certify that the aforesentioned Northbay, Ltd. is the OMES of the land described in the forest of the second of the control of the control of the second of the seco

WITHESS MY SIGNATURE on this the ______ day of

J.A. Brown, President

ACKNOWLEDGMENT STATE OF MISSISSIPPI

PERSONALLY APPRARED SEFORE ME, the undersigned authority in and for said County and State, J.A. Brown, President of Northpoints huilders, Inc., a Mississippi Corporation, the Pertagraphy, who acknowledged that he signed and delivered the plat on which this certificate appears as the act and deed for Northbay, Mid., on the day and year herein mentioned, efter first being duly authorized to do so, and also appeared the within the county of the state of the signed and delivered the state of the signed and the signed and the signed and the signed and signed the state of the signed and signed and signed the signed and signed

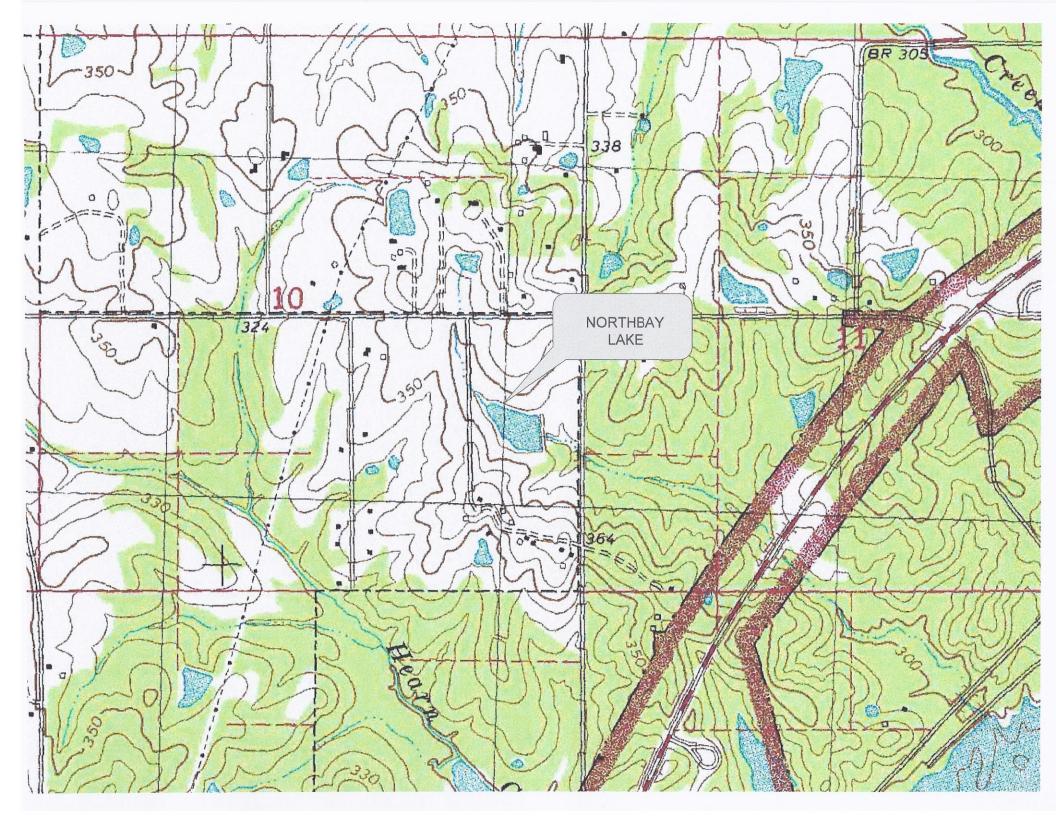
GIVEN UNDER MY HAND and official seal on this the

Volena W. Davi

_ Susan B Coardall

1, 311) v. Cooper, Chascory Clerk in and for said County and fitte, do hereby for their this Duplicate Plat of NOPTHAN ANNEL PHAS | A was filed for record in my office on the A day of Marian and their cooperation of the County of 1989, and was duly recorded in first Cabinet of 1500 CT of the records and maps and plats of Medison County, Mississippi.

BY: President-Board of Supervisors



Print - Maps Page 1 of 1



Madison, MS

Northbay Lake Improvement Project

