

Harbor Commission

Regular Meeting Agenda

**Tuesday, March 19, 2013
5:30 p.m., City Hall Council Chambers
South Haven City Hall**



City of South Haven

1. Call to Order

Roll Call: Chairman Jeff Arnold, Vice-Chairman Mary Stephens, Fred Jeffers, Cathy Pyle, Alan Silverman, Daniel Strong, Greg Sullivan.

2. Approval of Agenda

3. Approval of Minutes: February 19, 2013 Meeting

4. Interested Citizens in the Audience Will be Heard on Items Not on the Agenda

5. Marina Reports

6. Michigan Maritime Museum Dock Proposal

7. Budget and Strategic Plan

8. Dredging Update

North Side and South Side Dredging
Dunkley Spoil Site Restrictive Covenant
Black River Dredging Project

9. General Comments

Member and Staff Comments

Adjourn

RESPECTFULLY SUBMITTED,
Paul VandenBosch
Secretary, Harbor Commission

Harbor Commission

Regular Meeting Minutes

Tuesday, February 26, 2013
5:30 p.m., City Hall Council Chambers
South Haven City Hall



City of South Haven

1. Call to Order

Present: Pyle, Stephens, Sullivan, Arnold
Absent: Jeffers, Silverman, Strong

Also present: Patti Reinert-Montgomery, Michigan Maritime Museum

2. Approval of Agenda

Motion by Sullivan, second by Stephens to approve the agenda as presented.

All in favor. Motion carried.

3. Approval of Minutes: January 15, 2013 Meeting

Motion by Stephens, second by Sullivan to approve the January 15, 2013 minutes as written.

All in favor. Motion carried.

4. Interested Citizens in the Audience Will be Heard on Items Not on the Agenda

None at this time.

5. Marina Reports

VandenBosch reviewed the Marina Reports.

6. Dredging

VandenBosch updated the board on dredging activities. The State of Michigan Department of Natural Resources - Waterways has provided a \$436,050 grant for emergency dredging. Bids for the North Side/South Side Marina Dredging project were

received yesterday. The low bidder was Gro America at \$236,653. Gro America uses a hydraulic dredging process, which will require a change in the permit.

Referring to the handout, Dredging Cost Estimate and Funding Resources, VandenBosch noted that using the Abonmarche volume estimates and yesterday's bid price per cubic yard of \$26.30, the cost to dredge the projects in the harbor in 2013 is \$700,160. This includes 15% for engineering and permitting.

On the funding side, the handout showed \$436,050 from the Waterways grant, \$109,050 from the Marina Fund, \$45,060 from Black River Park Fund, and \$110,000 from the River Maintenance Fund will fully fund the dredging as estimated. If the estimates are correct, VandenBosch feels that no special assessment will be required to fund dredging in 2013.

VandenBosch stated that there are some unknowns with the current estimate. We have heard reports that sailboats with an 8 foot draft have run aground outside of the pierheads. We do not have soundings yet, but there may be more material to be removed than shown in the estimate.

VandenBosch requested action from the board on two items. First to recommend the bid contract with Gro America to City Council, and secondly to consider adding as a change order the Turning Basin and Friends Goodwill Channel to the bid.

Under the DEQ/Army Corps dredging permit, the material in the Turning Basin and Friends Goodwill Channel must be treated the same way as the North Side and South Side Marinas. It can go in the same location at the Dunkley site. The additional cost related to the change order would be roughly \$68,000.

Stephens asked about the status of the dredging permits.

VandenBosch said that the North Side/South Side permit had been submitted on December 20, 2012, and we believe that we are close to receiving that permit. The change to hydraulic dredging from mechanical dredging will require an amendment to the permit, which may take additional time.

The Main Channel permit was submitted on January 27, 2013, and it may be some time before we receive that permit. VandenBosch said that the Turning Basin dredging permit was good until 2015.

VandenBosch stated that we do not yet have a grant award in writing, and this affects whether we can award the contract prior to the grant award. VandenBosch said that he hopes to bring the bid contract to the City Council meeting on March 4, but without a grant award in writing he cannot take the risk of approval prior to the grant agreement.

Stephens asked if we add the Turning Basin and Friends Goodwill Channel to the North Side/South Side bid contract as a change order, will we still have enough funding to do the Federal Channel, as shown in the estimate?

VandenBosch responded, yes, assuming that the Abonmarche estimate for volume is correct. We will also have funding to go upriver.

Sullivan asked if the River Maintenance Fund has always been set aside for the Federal Channel, as well as upriver?

VandenBosch stated that in the past we have used the River Maintenance Fund upriver and in the Turning Basin. The assessments were paid by all slip owners, from Lake Michigan all the way upriver. To speak to the question of whether the River Maintenance Fund should be dedicated upriver, the fund is dedicated to where this board and City Council feel it should be dedicated.

Sullivan said that he was concerned because the upper river had \$84,160 of work but we are depleting the entire River Maintenance Fund. VandenBosch said that Black River Park is also paying for the upriver portion, because it will be dredged as part of the same project.

Stephens asked about the funding source for permits. VandenBosch stated that the cost estimate includes 15% Engineering which includes the permits.

Pyle asked if the bid for the Main Channel will be as low as the current bid, and asked if the Main Channel could be added to the current bid at the current price. We don't want to lose out on the opportunity. There may be more ports bidding out dredging services.

VandenBosch stated that the Main Channel work should be bid out separately, because of the permitting requirements, and because it would be a beach replenishment job. VandenBosch said that he thinks that the Main Channel dredging project will likely not happen before September.

Sullivan asked if there are any restrictions on the grants that would affect the Friends Goodwill Channel. VandenBosch stated that he has asked the DEQ whether that would be eligible under the grant program, but he has not yet received an answer. That is a question that must be answered before we move forward.

Sullivan asked about the Friends Goodwill getting grant funding when other non-profit condominiums are not getting grant funding.

Patti Reinert-Montgomery stated that the work is being done in the public area of the Turning Basin, it is not just used by the Friends Goodwill.

VandenBosch responded to Sullivan stating that it is a fair question and that it is a decision that has to be recommended by this board to City Council. It is true that the reason we are going to Low Water Datum -12 feet is for one boat. The City does have the ability to do this if it so chooses.

Pyle asked if the Museum is able to contribute anything at all toward the dredging project.

Patty Reinert-Montgomery responded stating that the Museum had budgeted \$5,000 to do dredging at its docks. If those funds need to be put towards the approach area, we are willing to do that.

Sullivan asked about controlling depths on the upper river and whether there had been any discussion to allow the river to be dredged deeper.

VandenBosch responded that the controlling depths on the upper river are based on the depth of underground utilities plus a cover depth. The dredging depth on the upper river is Low Water Datum -5.85 feet. There has been some conversation about what it would take to lower utilities, however the costs are likely to be very high. VandenBosch believes that there are water, sewer and electric utility crossings under the river.

Pyle asked if any other marinas or organizations have asked for help in funding dredging.

VandenBosch said that he had not heard any request for funding, but there have been requests for use of City property to off-load dredge spoil. VandenBosch worked with the City Attorney and environmental consultant to put an agreement together with a dredging contractor. There were concerns regarding mixing of soil from an environmental perspective. The contractor proposed off-loading directly onto trucks, but then found that dewatering would be a problem. At this point, VandenBosch has not heard back from the contractor. The City is willing to consider allowing use of the site, but it does need to consider the City Attorney's concerns about environmental contamination. VandenBosch is waiting to hear back from the contractor.

Sullivan asked if it is safe to say that others could request use of the City sites?

VandenBosch responded that the City is working with dredging contractors and that the contractors could then work with property owners. The City might not accept contaminated materials.

Motion by Stephens, support by Pyle to recommend changing the bid to include the Friends Goodwill channel and Turning Basin in the bid. Motion carried, with Sullivan voting no.

Motion by Stephens, support by Sullivan to recommend the Gro America bid contract to the City Council with the additions noted above. Motion carried, all in favor.

7. General Comments

Pyle asked if a marina came to the board requesting dredging funding, would we be able to consider it?

VandenBosch stated that the Waterways grant funding was specific to the City projects identified in the December cost estimate in the agenda. He did not think it was likely that

other projects would be acceptable to the DNR. If other grants are available, VandenBosch will attempt to go after them.

Stephens asked if there is any chance that the May-June moratorium on dredging will be lifted.

VandenBosch said that he had heard that the State is talking about it.

Stephens asked if there is any chance that we can do spot dredging in the Federal Channel during May and June?

VandenBosch stated that he had requested a proposal from the engineer to bid out the Main Channel dredging, and if the bid and permit were ready, and the moratorium were lifted, he would be willing to do the work. However, he would be reluctant to do the work in July and August.

Pyle asked how the North Side Marina project is coming along.

VandenBosch stated that they are working on tile at the moment and that the project is on track. Most drywall is complete. The windows are in on the main room and it looks very good from across the river. VandenBosch will schedule a walk-through in mid-March while the building is still under construction. He hopes to be able to invite the Harbor Commission and City Council to the walk-through.

Pyle asked about the fish cleaning station.

VandenBosch stated that he had not made progress, but was waiting on the state to provide plans of the fish cleaning station that was built at Holland State Park. He will request those plans again.

Pyle asked about the Harbor Commission strategic plan and asked if the board needed to work on that plan.

VandenBosch stated that the Harbor Commission would receive the budgets for review at the next meeting, and that he would include the strategic plan in the packet.

Sullivan asked about the Spring safety gathering.

VandenBosch said that he can get started on that, but it is a little early.

Arnold asked about the Grand Rapids Boat Show.

VandenBosch said that he had heard from Marple that it went very well.

Patti Reinert-Montgomery said that the City and the Maritime Museum had a booth together and the booth was very popular with spectators. The Municipal Marina display

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and touch screen computers were well received. There was a lot of interest in South Haven, and many people learned where South Haven is for the first time. There was also a booth at the Strictly Sail show in Chicago.

9. Adjourn

Motion by Stephens, second by Pyle to adjourn. Motion carried.

RESPECTFULLY SUBMITTED,

Paul VandenBosch
Harbormaster

Marina Fund Revenue

Marina Fund Revenue
As of February 28, 2013

Fiscal Year Ending in	Revenue	Operational	Net		
Seasonal	Transient	Total	Expense	Revenue	
2002	234,236	161,984	396,220	369,081	27,139
2003	259,840	166,084	425,924	403,463	22,461
2004	280,151	167,907	448,058	429,353	18,705
2005	282,245	170,944	453,189	479,287	-26,098
2006	300,819	173,817	474,636	517,881	-43,245
2007	343,171	170,869	514,040	471,088	42,952
2008	368,408	168,362	536,770	493,906	42,864
2009	377,955	166,674	544,629	492,039	52,590
2010	350,635	161,584	512,219	485,399	26,820
2011	314,270	140,546	454,816	521,900	-67,084
2012	330,660	151,046	481,706	427,390	54,316
2013	216,726	67,000	283,726	422,263	-138,538

NOTES ON OPERATIONAL EXPENSES:

Operational Expense does not include depreciation of approximately \$88,000 per year.
Operational Expenses do not include large construction expenses.
Operational Expenses do not include the annual transfer to the River Maintenance Fund of approximately \$25,627 annually.

	Seasonal Marina Revenue												Calendar Year
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2007	58,007	147,702	34,975	42,960	23,115	-3,846	6,199	1,554	703	1,100	22,348	19,285	354,102
2008	60,795	185,520	32,325	36,210	19,130	16,761	820	50	0	6,550	26,799	900	385,860
2009	44,784	185,069	32,390	25,955	31,150	23,488	843	50	850	900	27,990	1,000	374,469
2010	13,035	218,460	41,530	20,235	5,050	20,692	0	434	350	200	29,812	1,000	350,798
2011	43,222	157,210	38,473	31,230	12,498	-158	800	1,950	400	1,100	17,625	8,865	313,215
2012	31,810	178,650	44,840	14,750	31,795	-1,925	0	200	1,050	3,940	11,420	850	317,380
2013	29,476	169,790											199,266

	Transient Marina Revenue												Calendar Year
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2007	0	0	0	8,528	11,494	39,340	56,647	48,986	10,983	1,553	-41	0	177,490
2008	0	0	0	11,657	8,957	29,620	53,315	53,501	11,385	630	0	0	169,065
2009	0	0	0	11,972	10,994	24,877	55,645	39,835	22,176	1,301	0	0	166,800
2010	0	0	0	8,445	9,029	25,154	52,730	40,107	8,654	1,299	0	0	145,418
2011	0	0	0	373	16,162	21,221	47,565	41,459	12,635	515	0	0	139,930
2012	0	0	0	4,684	12,448	31,740	40,344	21,935	4,392	0	-267	0	115,276
2013	0	596											596

City of South Haven
 Black River Park Fund - Fund 545
 For the period ended February 28, 2013

<i>Revenues:</i>	<i>Month Actual</i>	<i>YTD Actual</i>	<i>2012-13 Adpoted Budget</i>
State Grant	\$ - # \$	-	\$ -
Charges for Service	24,860	80,149	145,500
Interest and Rents	-	106	3,000
Other Revenue	-	86	-
Total Revenues	\$ 24,860 # \$	\$ 80,341	\$ 148,500

<i>Expenses:</i>	<i>Month Actual</i>	<i>YTD Actual</i>	<i>2012-13 Adpoted Budget</i>
Personnel Costs	\$ -	\$ 21,741	\$ 43,021
Supplies	-	399	3,400
Admin/Computing/Equipment Fees	2,042	16,339	24,508
Contractual Services	144	6,071	26,500
Utilities	643	6,072	7,702
Other Services and Charges	744	6,275	9,600
Repairs and Maintenance	-	3,222	9,000
Capital Outlay	-	-	-
Operating Transfers Out to 296	-	5,800	5,800
Total Expenses	3,573	65,919	129,531
Depreciation	-	-	46,000
Total Expenses and Depreciation	\$ 3,573	\$ 65,919	\$ 175,531

Net Fund Change	\$ 21,287	\$ 14,422	\$ (27,031)
Retained Earnings	June 30	\$ 640,318	
Less Net Capital Assets		\$ (515,894)	
Net Undesignated Reserves		\$ 124,424	
Add Seasonal Rentals paid but not posted to income yet		\$ 44,036	
Deduct Expenses paid in advance, not posted to expense yet			
Add(Deduct) Amount due to/ from Beach, Rev earned but not in cash		\$ 12	
Add Accounts Payable owed but not paid yet		\$ 1,779	
Adjusted Undesignated Reserves		\$ 184,673	
Cash & Investments Balance at month end		\$ 184,673	
Projected Cash Balance at Fiscal Year End		\$ 143,393	
(Depreciation is a NON-cash expense)			

Black River Park Revenues

Black River Park Revenue
As of February 28, 2013

Fiscal Year Ending	Seasonal Dock	Transient Dock	Boat Launch & Parking fees	Seasonal Launch Permit	Revenue Total	Operational Expense	Net Revenue
2007	84,563	9,480	42,544	10,471	147,058	90,412	56,646
2008	96,484	11,143	37,896	10,053	155,576	97,145	58,431
2009	93,239	9,240	37,261	11,922	151,662	99,992	51,670
2010	84,432	9,249	38,478	10,183	142,342	90,883	51,459
2011	66,393	8,658	42,038	3,859	120,948	113,430	7,518
2012	73,619	10,711	55,134	10,097	149,561	129,949	19,613
2013	34,375	7,114	37,290	1,030	79,809	65,919	13,891

Note: Operational Expense does not include depreciation of approximately \$46,000 per year.
Operational Expenses do not include large construction expenses.

Transfer to River Maintenance Fund of approximately \$5,800 annually

Boat Launching & Parking Fees Revenue													Calendar Year
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2007	0	0	0	1,289	4,160	7,725	13,459	7,941	5,917	1,808	0	0	42,299
2008	0	0	0	831	2,768	5,172	11,030	10,046	4,709	2,170	0	0	36,726
2009	0	0	0	370	3,378	5,558	10,738	7,704	8,311	812	0	0	36,871
2010	0	0	0	527	6,102	4,284	13,972	11,844	2,799	2,186	0	0	41,714
2011	0	0	0	126	4,301	6,870	19,145	10,345	7,373	1,221	0	0	49,381
2012	0	0	0	0	7,000	10,050	19,667	9,346	4,702	2,376	1,031	112	54,285
2013	56	0											56

Launching - Seasonal Permit Revenue													Calendar Year
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2007	0	0	0	2,261	4,157	2,749	1,453	0	0	0	0	0	10,620
2008	0	0	0	1,885	3,743	2,972	1,620	0	0	0	0	0	10,220
2009	0	0	0	2,770	4,924	2,608	640	0	0	0	0	0	10,942
2010	0	0	0	1,370	7,158	1,015	1,546	0	75	0	0	150	11,314
2011	0	0	0	610	75	1,403	1,222	0	0	75	0	0	3,385
2012	0	0	0	600	6,620	1,580	1,200	0	0	-270	0	0	9,730
2013	0	100											100

Seasonal Dock Revenue													Calendar Year
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2007	9,140	27,530	6,155	11,695	12,270	5,762	0	0	250	400	5,200	4,787	83,189
2008	7,940	45,315	9,400	11,905	12,675	-1,388	0	0	200	2,000	5,009	1,655	94,711
2009	6,865	41,215	7,085	9,125	4,990	15,095	0	0	0	0	5,000	0	89,375
2010	3,740	30,265	19,680	11,325	15,585	-1,163	1,650	0	0	0	4,650	2,369	88,101
2011	6,550	22,995	3,740	7,215	8,505	8,720	727	3,707	0	1,680	2,175	4,670	70,684
2012	3,995	20,485	9,585	6,440	18,500	1,655	3,745	0	0	600	2,000	200	67,205
2013	3,070	24,760											27,830

Transient Dock Revenue													Calendar Year
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2007	0	0	0	169	1,303	1,986	3,988	2,672	984	0	0	0	11,102
2008	0	0	0	329	1,562	1,609	2,571	2,904	1,204	303	0	0	10,481
2009	0	0	0	0	483	1,776	2,444	3,796	1,332	0	0	0	9,831
2010	0	0	0	0	748	930	2,657	2,479	746	0	0	0	7,560
2011	0	0	0	0	818	1,958	4,492	2,190	1,181	23	0	0	10,662
2012	0	0	0	0	604	2,221	3,567	2,325	1,125	98	0	0	9,939
2013	0	0											0

City of South Haven Municipal Marinas
Seasonal Slip Availability

Available Slips						
	March, 2013	January, 2013	November, 2012	October, 2012	April, 2012	
North Side Marina	18	21	21	24	35	
Museum Marina	5	7	8	9	13	
Black River Park Marina	22	24	25	25	27	
Occupied Slips						
			November, 2012	October, 2012	April, 2012	Total Slips
North Side Marina	79	76	76	73	62	97
Museum Marina	25	23	22	21	17	30 (includes headwall)
Black River Park Marina	38	36	35	35	33	60
Seasonal Slip Occupancy						
			November, 2012	October, 2012	April, 2012	
North Side Marina	81%	78%	78%	75%	64%	
Museum Marina	83%	77%	73%	70%	57%	
Black River Park Marina	63%	60%	58%	58%	55%	

Term Limited 2013
Vacancy
Reappointment eligibility 2013

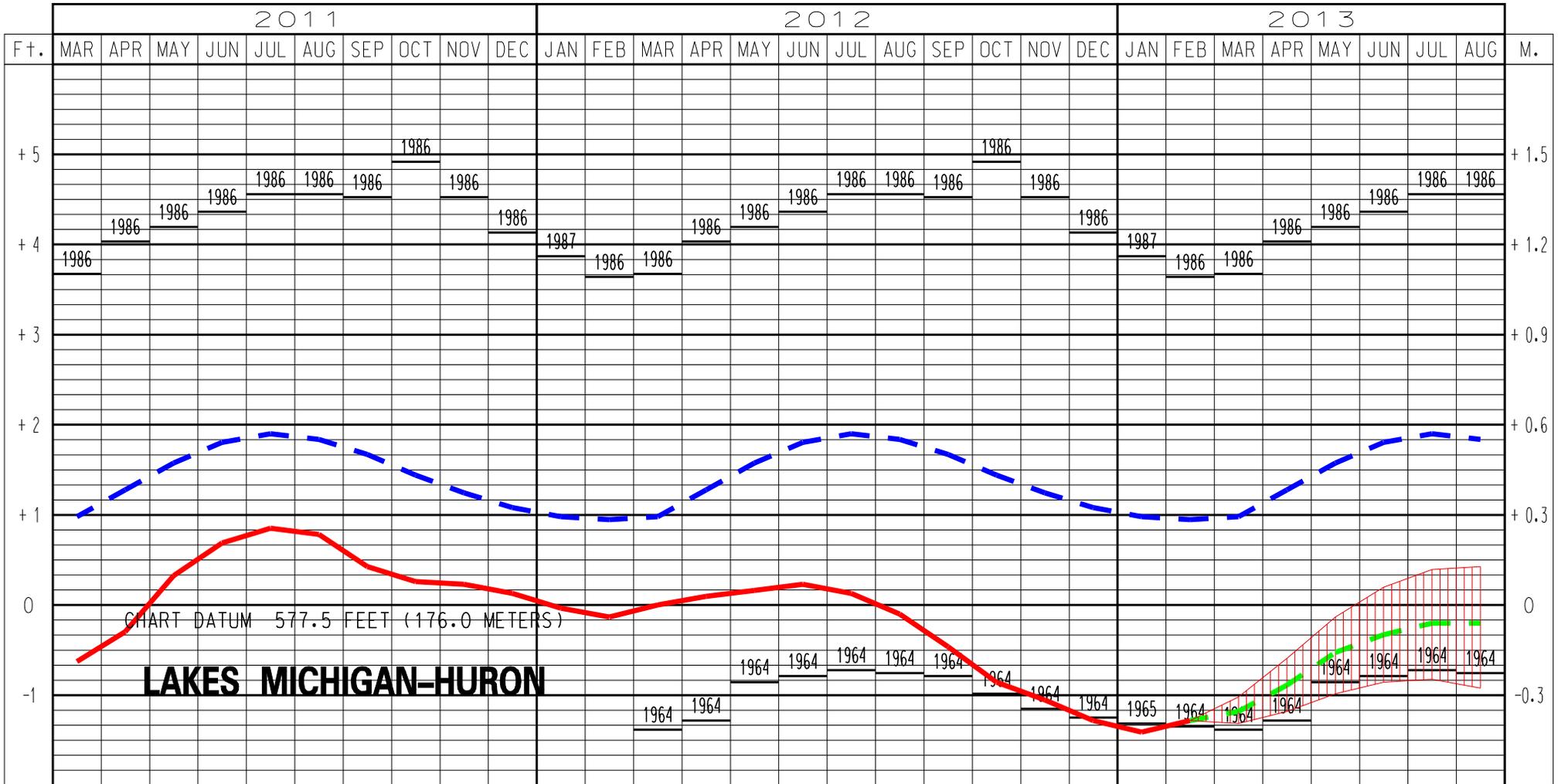
Appt 1/2 term Reappt Reappt Term Expires

Harbor Commission (3 year term)

Meets 3rd Tues each month at 5:30, City Hall; 6 citizens and 1 Council rep appt by Council

Mary Stephens	Jul-09	x	May-10		2013
Fred Jeffers	Oct-10				2013
Cathy Pyle	May-11				2014
Daniel Strong	Sep-10		May-12		2015
Alan Silverman	Jun-09		May-12		2015
Greg Sullivan	Jun-08		May-11		2014
Jeff Arnold, Council Rep	Jan-09				
Paul VandenBosch, Staff					

LAKES MICHIGAN-HURON WATER LEVELS - MARCH 2013



LEGEND

LAKE LEVELS

RECORDED

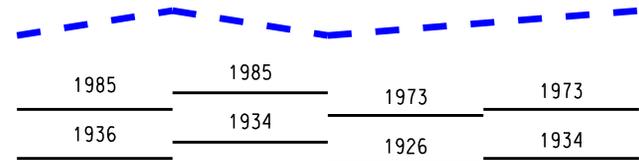
PROJECTED



AVERAGE **

MAXIMUM **

MINIMUM **



** Average, Maximum and Minimum for period 1918-2011

BUILDING PERMIT APPLICATION
CITY OF SOUTH HAVEN
BUILDING DEPARTMENT
539 PHOENIX STREET, SOUTH HAVEN, MICHIGAN 49090
FOR INFORMATION CALL 269-637-0789

Project Address: 260 DYCKMAN SOUTH HAVEN Tax ID 80-53- 38-2342806
Applicant: MICHIGAN MARITIME MUSEUM Property Owner: JOINT WITH CITY OF SOUTH HAVEN
Appl. Address: 260 DYCKMAN Owner Address: _____

Applicant Phone: 269-637-8098 Owner Phone: _____
Contractor License Number (Building Permit Only): MUSEUM STAFF
Current Use of Property: MUSEUM Zoning District of Property _____

Project Description: CONNECTION OF EXISTING WALKWAY TO CITY DOCK

Total Value of Construction (Materials and Labor, Building Permit Only): _____

I hereby authorize the Zoning Administrator, Building Inspector or other authorized representative of the City of South Haven to enter and inspect the above property for the purpose of inspection of the premises.
AFFADAVIT: I certify and affirm that I am the property or building owner or owner's authorized agent and that I agree to conform with all applicable laws of this jurisdiction. I also certify that this application is accurate and complete. Section 23A of the State Construction Code Act of 1972, Act No. 230 of the Public Acts of 1972, being Section 125.1523a of the Michigan Compiled Laws, prohibits a person from conspiring to circumvent the licensing requirements of the state relating to persons who are to perform work on a residential structure. Violators of Section 23a are subject to civil fines.

OWNER'S SIGNATURE: _____ DATE: _____

APPLICANT'S SIGNATURE: _____ DATE: _____

CITY STAFF USE - REQUIRED PERMITS AND REVIEWS:

- | | |
|--|--|
| <input checked="" type="checkbox"/> BUILDING PERMIT | <input type="checkbox"/> ZONING PERMIT |
| <input type="checkbox"/> NEW WATER OR SANITARY SEWER SERVICE | <input type="checkbox"/> FINAL SITE PLAN REVIEW |
| <input type="checkbox"/> NEW ELECTRIC SERVICE | <input type="checkbox"/> PRELIMINARY SITE PLAN REVIEW |
| <input type="checkbox"/> LOT SPLIT | <input type="checkbox"/> VARIANCE REQUEST |
| <input type="checkbox"/> LOT COMBINATION | <input type="checkbox"/> PLANNED UNIT DEVELOPMENT |
| <input type="checkbox"/> CURB CUT/R.O.W. ACCESS | <input type="checkbox"/> CHANGE OF USE |
| <input type="checkbox"/> SPECIAL USE PERMIT | <input type="checkbox"/> HOME OCCUPATION |
| <input type="checkbox"/> DEMOLITION PERMIT | <input type="checkbox"/> AMENDMENT TO THE ZONING ORDINANCE |

OTHER _____

BUILDING CODE: Michigan Bldg. Code 2003 Michigan Residential Code 2003 USE GROUP _____

REFERRALS TO OTHER PERMITTING AGENCIES:

- | | |
|--|--|
| <input type="checkbox"/> MICHIGAN DEPARTMENT OF TRANSPORTATION | <input type="checkbox"/> DEPT. OF ENVIRONMENTAL QUALITY |
| <input type="checkbox"/> VAN BUREN COUNTY HEALTH DEPT. | <input type="checkbox"/> V.B. COUNTY SEDIMENTATION CONTROL |
| <input type="checkbox"/> FLOOD PLAIN MANAGEMENT (DEQ) | <input type="checkbox"/> HIGH RISK EROSION AGENCY (DEQ) |
| <input type="checkbox"/> ARMY CORPS OF ENGINEERS | <input type="checkbox"/> OTHER: _____ |

DATE SUBMITTED: _____ DATE ACCEPTED: _____ BY: _____

FEE: _____ DATE OF PAYMENT: _____

(Rev. 1/05)

For any change to the footprint of a structure, a drawing must be included with the following:

1. SHOW PROPERTY LINES AND DIMENSIONS OF LOT
2. SHOW ALL STRUCTURES ON PROPERTY
3. SHOW DISTANCES FROM STRUCTURES TO PROPERTY LINES
4. SHOW DISTANCES BETWEEN BUILDINGS
5. SHOW STREETS AND EASEMENTS
6. SHOW ANY UTILITIES NEAR CONSTRUCTION AREA

The better your drawing, the faster your application can be processed. A survey or professional drawing of the property may be required if your drawing is not clear or incomplete.

ZONING APPROVAL (Building Permit Only):

Setbacks: Front: _____ Rear: _____ Side: _____ Side: _____ Height: _____

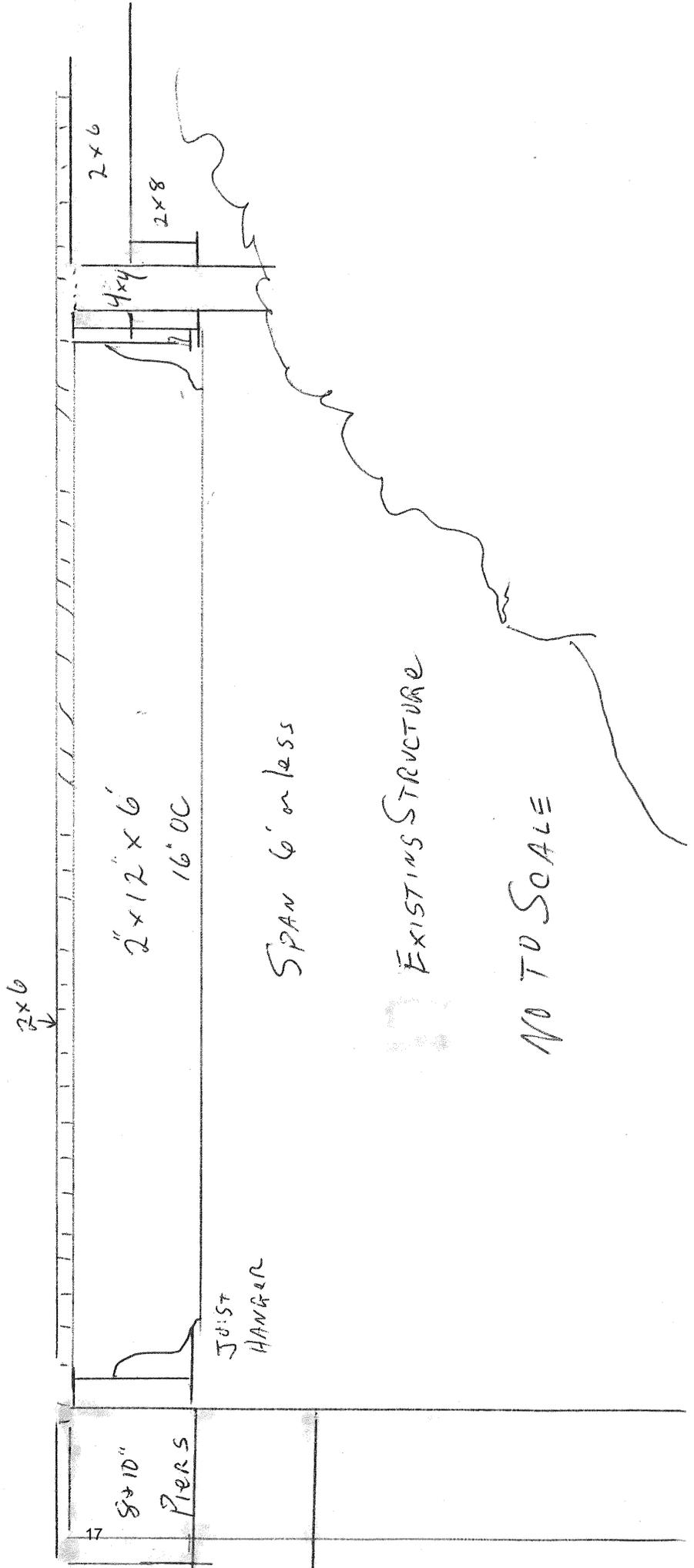
Lot Area: _____ Area covered by structures: _____ Percent Coverage: _____

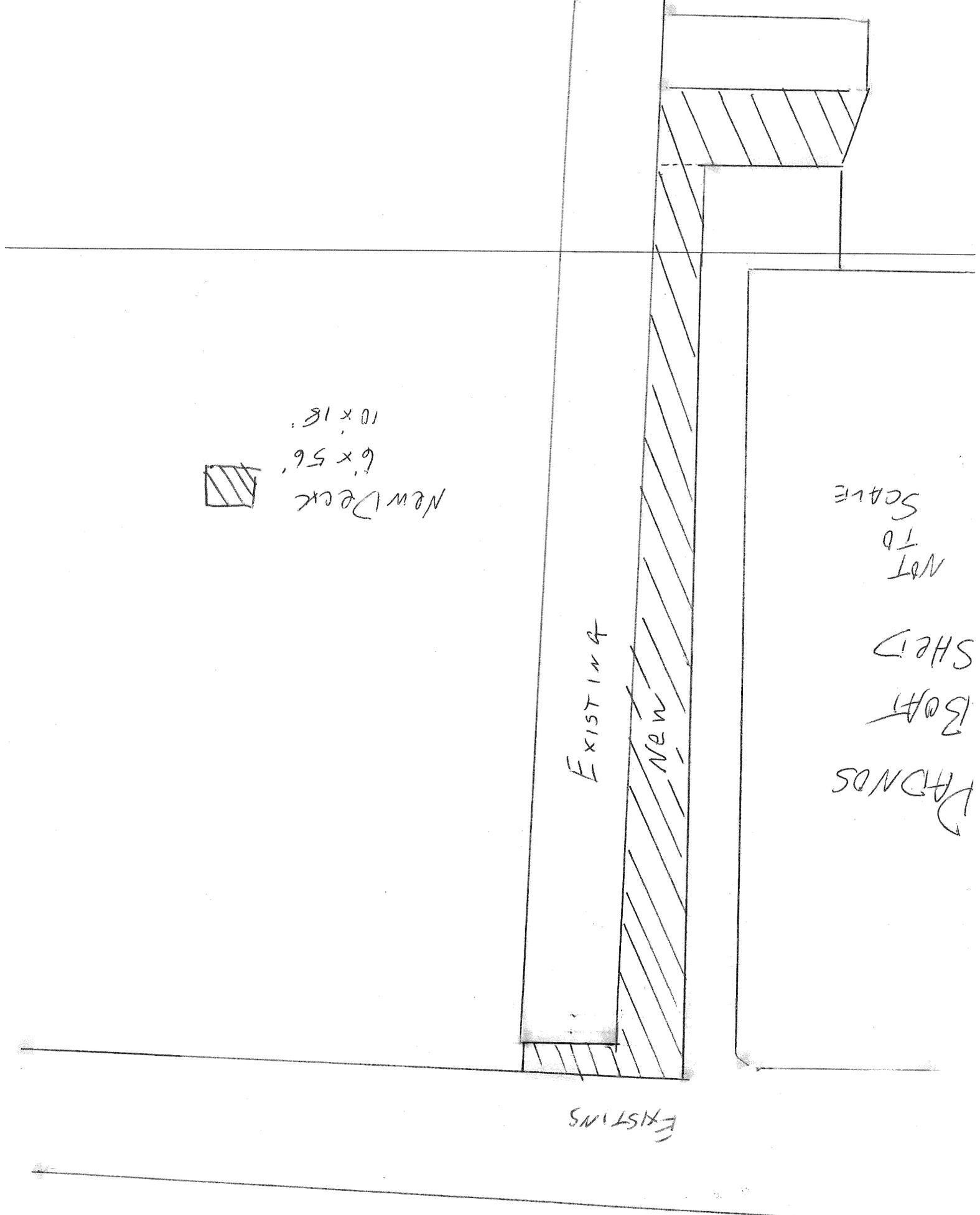
Zoning Approval: _____ Date: _____

Building Approval: _____ Date: _____

(Rev. 1/05)

Padma to City Dock
Connection





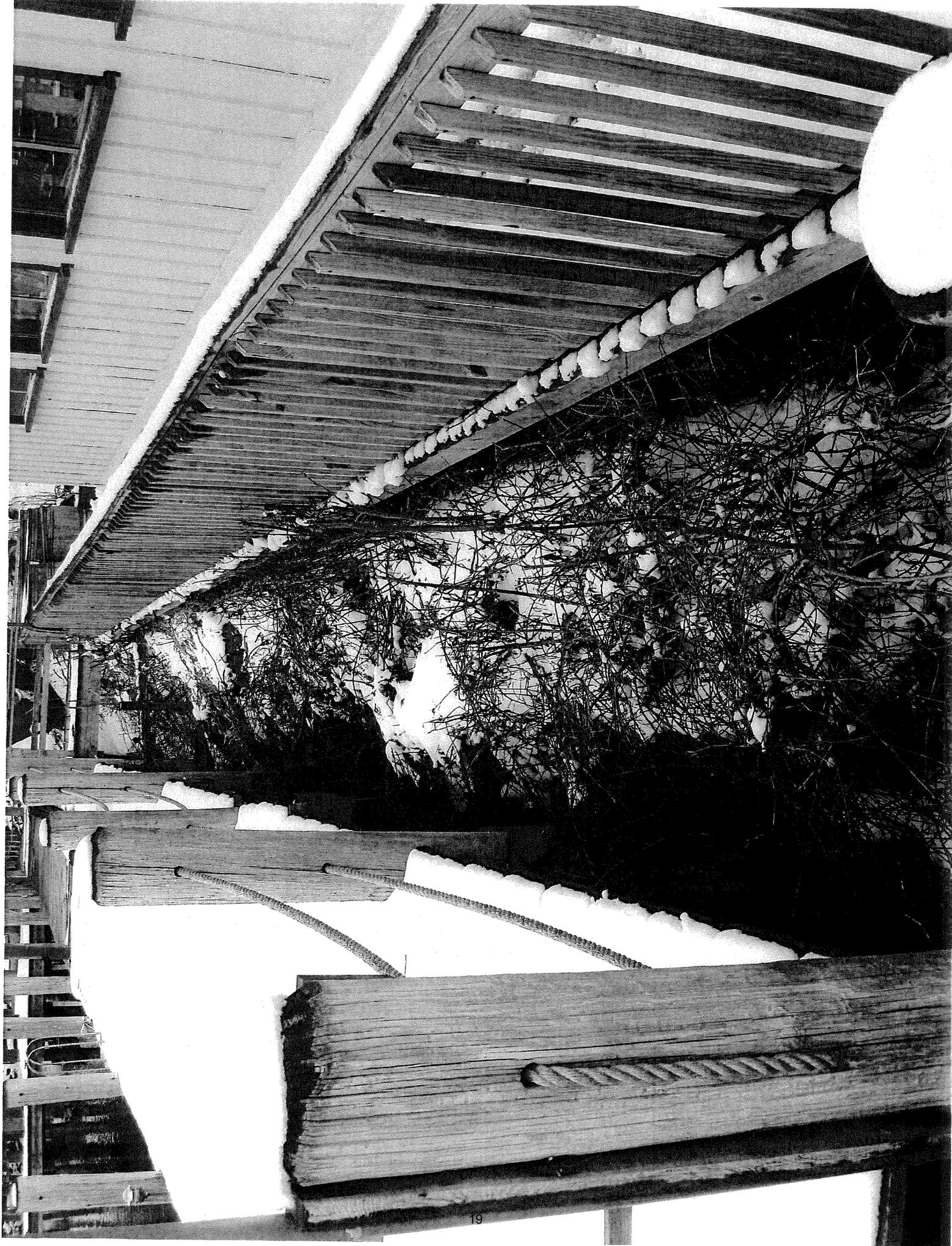

 NEW DECK
 6' x 5.6'
 10' x 18'

EXISTING

NEW

HANDS
 BOAT
 SHEID
 NOT
 TO
 SCALE

EXISTING







ENTER

ORLEY'S DOG

AGENCY USE	Previous USACE File Number	Date Received	DEQ File Number	
	USACE File Number		Fee received \$	
<p>Validate that all parts of this checklist are submitted with the application package. Fill out application and additional pages as needed.</p> <p><input type="checkbox"/> All items in Sections 1 through 9 are completed.</p> <p><input type="checkbox"/> Project-specific Sections 10 through 20 are completed.</p> <p><input type="checkbox"/> Dimensions, volumes, and calculations are provided for all impact areas.</p> <p><input type="checkbox"/> All information contained in the headings for the appropriate Sections (1-20) are addressed, and identified attachments (➔) are included.</p> <p><input type="checkbox"/> Map, site plan(s), cross sections; one set must be black and white on 8 1/2 by 11 inch paper; photographs.</p> <p><input type="checkbox"/> Application fee is attached.</p>				
1 Project Location Information For Latitude, Longitude, and TRS info anywhere in Michigan see www.mcqi.state.mi.us/wetlands/				
Project Address (road, if no street address)		Zip Code	Municipality (Township/Village/City)	County
260 DYCKMAN		49090	SOUTH HAVEN	VAN BUREN
Property Tax Identification Number(s)		Latitude	Township/Range/Section (TRS)	
		42.35 N	T ___ N or S; R ___ E or W;	
Subdivision/Plat and Lot Number		Longitude	Sec _____	
		- 86.26W	OR Private Claim # _____	
2 Applicant and Agent Information				
Owner/Applicant (individual or corporate name)		Agent/Contractor (firm name and contact person)		
MICHIGAN MARITIME MUSEUM		MUSEUM STAFF		
Mailing Address		Mailing Address		
260 DYCKMAN				
City	State	Zip Code	City	State Zip Code
SOUTH HAVEN	Mi	49090		
Contact Phone Number	Fax	Contact Phone Number	Fax	
269-637-8098	269-637-1594			
Email		E-mail		
DAVID@MICHIGANMARITIMEMUSEUM.ORG				
<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Is the applicant the sole owner of all property on which this project is to be constructed and all property involved or impacted by this project? ➔ If no, attach letter(s) of authorization from all property owners including the owner of the disposal site.				
Property Owner's Name (if different from applicant)		Mailing Address		
CITY OF SOUTH HAVEN		539 PHOENIX ST		
Contact Phone Number		City	State	Zip Code
269-637-0700		SOUTH HAVEN	Mi	49090
3 Project Description				
Project Name		Preapplication File Number		
PADNAS POLE CONNECTION		- - -P		
Name of Water body		Date project staked/flagged		
BLACK RIVER HARBOUR				
The proposed project is on, within, or involves (check all that apply)				Project Use
<input type="checkbox"/> an inland lake (5 acres or more) <input type="checkbox"/> a Great Lake or Section 10 Waters <input type="checkbox"/> a pond (less than 5 acres) <input checked="" type="checkbox"/> a wetland <input checked="" type="checkbox"/> a stream, river, ditch or drain <input checked="" type="checkbox"/> a 100-year floodplain <input type="checkbox"/> a legally established County Drain <input type="checkbox"/> a dam Date Drain was established <input type="checkbox"/> a designated high risk erosion area <input type="checkbox"/> a channel/canal <input type="checkbox"/> a designated critical dune area <input checked="" type="checkbox"/> 500 feet of an existing water body <input type="checkbox"/> a designated environmental area				<input type="checkbox"/> private <input type="checkbox"/> commercial <input type="checkbox"/> public/government <input type="checkbox"/> project is receiving federal/state transportation funds <input type="checkbox"/> Wetland Restoration <input checked="" type="checkbox"/> other NON PROFIT
Indicate the type of permit being applied for: <input type="checkbox"/> General Permit <input type="checkbox"/> Minor Project <input checked="" type="checkbox"/> Individual (All other projects.) ➔ See Appendix C.				
Written Summary of All Proposed Activities				
Construction Sequence and Methods				



4 Project Purpose, Use and Alternatives Attach additional sheets as necessary.

Describe the purpose of the project and its intended use; include any new development or expansion of an existing land use.

Safely unjiffy Deck & Dock for Museum Visitors

Describe the alternatives considered to avoid or minimize resource impacts. Include factors such as, but to limited to, alternative locations, project layout and design, and construction technologies. For utility crossings include alternative routes and construction methods.

NONE

5 Locating Your Project Site Attach a legible black and white map with a North arrow.

Names of roads of closest intersection *BLACK RIVER DRAW BRIDGE + DYCKMAN*

Directions from main intersection to the project site, with distances from the best and nearest visible landmark and water body

DRAW BRIDGE - PAVES BAY SHED - GRAY 2 STORY DRK GREEN TRIM

Description of buildings on the site (color; 1 or 2 story, other)

GRAY - 2 STORY DRK GREEN TRIM

Description of adjacent landmarks or buildings (address; color; etc)

CAPTAIN LOU'S BAR AT BRIDGE

How can your site be identified if there is no visible address?

LARGE GRAY BUILDING AT WATER EDGE

6 Easements and Other Permits

No Yes Is there a conservation easement or other easement, deed restriction, lease, or other encumbrance upon the property?

➔ If yes, attach a copy. Provide copies of court orders and legal lake levels if applicable.

List all other federal, interstate, state, or local agency authorizations including required assurances for Critical Dune Area projects.

Agency	Type of Approval	Number	Date Applied	Date approved /denied	Reason for denial

7 Compliance

If a permit is issued, when will the activity begin? (M/D/Y)

Proposed completion date (M/D/Y)

No Yes Has any construction activity commenced or been completed in a regulated area?

➔ If Yes, identify the portion(s) underway or completed on drawings or attach project specifications and give completion date(s).

No Yes Were the regulated activities conducted under a DEQ and/or USACE permit?

➔ If Yes, list the permit numbers

No Yes Are you aware of any unresolved violations of environmental law or litigation involving the property?

➔ If Yes, attach explanation.

8 Adjacent Property Owners Provide current mailing addresses. Attach additional sheets/labels for long lists.

<input type="checkbox"/> Established Lake Board	Contact Person	Mailing Address	City	State and Zip Code
<input type="checkbox"/> Lake Association				

List all adjacents. If you own the adjacent lot, provide the requested information for the first adjacent parcel that is not owned by you.

Property Owner's Name	Mailing Address	City	State and Zip Code
<i>CITY OF SOUTH HAVEN</i>	<i>539 PHOENIX ST</i>	<i>SOUTH HAVEN</i>	<i>MI. 49090</i>
<i>JANSEN'S ROCKS</i>	<i>282 DYCKMAN AVE</i>	<i>SOUTH HAVEN</i>	<i>MI. 49090</i>

9 Applicant's Certification Read carefully before signing.

I am applying for a permit(s) to authorize the activities described herein. I certify that I am familiar with the information contained in this application; that it is true and accurate; and, to the best of my knowledge, that it is in compliance with the State Coastal Zone Management Program. I understand that there are penalties for submitting false information and that any permit issued pursuant to this application may be revoked if information on this application is untrue. I certify that I have the authority to undertake the activities proposed in this application. By signing this application, I agree to allow representatives of the DEQ, USACE, and/or their agents or contractors to enter upon said property in order to inspect the proposed activity site before and during construction and after the completion of the project. I understand that I must obtain all other necessary local, county, state, or federal permits and that the granting of other permits by local, county, state, or federal agencies does not release me from the requirements of obtaining the permit requested herein before commencing the activity. I understand that the payment of the application fee does not guarantee the issuance of a permit.

<input type="checkbox"/> Property Owner <input type="checkbox"/> Agent/Contractor <input type="checkbox"/> Corp. or Public Agency / Title	Printed Name	Signature	Date



<input type="checkbox"/> D. SHORE PROTECTION PROJECTS (See EZ Guides and Sample Drawings 2, 3, and 17. Complete Sections 10A, B, and/or C.) ⇒ For bioengineering projects include the list of native plants/seeds, if available.			
Type and length (ft)	<input type="checkbox"/> bioengineering (ft)	<input type="checkbox"/> revetment (ft)	<input type="checkbox"/> riprap (ft) <input type="checkbox"/> seawall/bulkhead (ft)
Structure is <input type="checkbox"/> new <input type="checkbox"/> repair <input type="checkbox"/> replacement of an existing structure	Will the existing structure be removed? <input type="checkbox"/> No <input type="checkbox"/> Yes		
Proposed Toe Stone (linear feet)	Distance of project from adjacent property lines (ft)		
Distance of project from an obvious fixed structure (example - 50 ft from SW corner of house)			
For bioengineering projects indicate the structure type <input type="checkbox"/> brush bundles <input type="checkbox"/> coir log <input type="checkbox"/> live stakes <input type="checkbox"/> tree revetment <input type="checkbox"/> other			
<input checked="" type="checkbox"/> E. DOCK - PIER - MOORING PILINGS (See Sample Drawing 10) ⇒ Attach a copy of the property legal description, mortgage survey, or a property boundary survey report.			
Dock Type	<input type="checkbox"/> open pile <input type="checkbox"/> filled <input type="checkbox"/> crib <input type="checkbox"/> floating <input type="checkbox"/> cantilevered <input type="checkbox"/> spring piles <input type="checkbox"/> piling clusters	<input checked="" type="checkbox"/> other <i>Deck</i>	
Is the structure within the applicant's riparian area interest area? <input type="checkbox"/> No <input type="checkbox"/> Yes ⇒ Show parcel property lines on the site plan.			
Proposed structure dimensions (ft) length <i>60'</i> width <i>6'</i>	Use <input type="checkbox"/> private <input checked="" type="checkbox"/> public <input type="checkbox"/> commercial		
Dimensions of nearest adjacent structures (ft) length <i>50'</i> width <i>26'</i>	Distance of dock from adjacent property lines (ft) <i>6'</i>		
<input type="checkbox"/> F. BOAT WELL (See EZ Guide. Complete Sections 10A and 10B)			
Dimensions (ft) length	width	depth	Number of boats
Type of sidewall stabilization <input type="checkbox"/> concrete <input type="checkbox"/> riprap <input type="checkbox"/> steel <input type="checkbox"/> vinyl <input type="checkbox"/> wood <input type="checkbox"/> other			
Volume of backfill behind sidewall stabilization (cu yd)		Distance of boat well from adjacent property lines (ft)	
<input type="checkbox"/> G. BOAT RAMP (See EZ Guide. Complete sections 10A, 10B, and 10C for mattress and pavement fill, dredge, and riprap)			
Type <input type="checkbox"/> new <input type="checkbox"/> existing <input type="checkbox"/> maintenance/improvement	Use <input type="checkbox"/> private <input type="checkbox"/> public <input type="checkbox"/> commercial		
Existing overall boat ramp dimensions (ft) length	width	depth	Type of construction material <input type="checkbox"/> concrete <input type="checkbox"/> wood <input type="checkbox"/> stone <input type="checkbox"/> other
Proposed overall ramp dimensions (ft) length	width	depth	Proposed ramp dimensions (ft) below ordinary high water mark length width depth
Number of proposed skid piers	Proposed skid pier dimensions (ft) length width		Distance of ramp from adjacent property lines (ft)
<input type="checkbox"/> H. BOAT HOIST - ROOFS (See EZ Guide)			
Type <input type="checkbox"/> cradle <input type="checkbox"/> side lifter <input type="checkbox"/> other	Located on <input type="checkbox"/> seawall <input type="checkbox"/> dock <input type="checkbox"/> bottomlands		
Hoist dimensions, including catwalks (ft) length width			
Area occupied, including cat walks (sq ft)		Distance of hoist from adjacent property lines (ft)	
Permanent Roof <input type="checkbox"/> No <input type="checkbox"/> Yes ⇒ If Yes, how is the roof supported?	Maximum Roof Dimensions (ft): length width height		
<input type="checkbox"/> I. BOARDWALKS and DECKS in WETLANDS or FLOODPLAINS (See Sample Drawings 5 and 6. Complete Sections 12 and/or 13) ⇒ Provide a table for multiple boardwalks and decks proposed in one project; include locations and dimensions.			
Wetlands		Floodplains	
Boardwalk <input type="checkbox"/> on pilings <input type="checkbox"/> on fill	Deck <input type="checkbox"/> on pilings <input type="checkbox"/> on fill	Boardwalk <input type="checkbox"/> on pilings <input type="checkbox"/> on fill	Deck <input type="checkbox"/> on pilings <input type="checkbox"/> on fill
Dimensions (ft) length width	Dimensions (ft) length width	Dimensions (ft) length width	Dimensions (ft) length width
<input type="checkbox"/> J. INTAKE PIPES (See Sample Drawing 16) or OUTLET PIPES (See Sample Drawing 22)			
If outlet pipe, discharge is to <input type="checkbox"/> inland lake <input type="checkbox"/> stream, drain or river <input type="checkbox"/> overland flow <input type="checkbox"/> Great Lake <input type="checkbox"/> wetland <input type="checkbox"/> other			
Number of pipes	Pipe diameters and invert elevations	Does pipe discharge below the OHWM? <input type="checkbox"/> No <input type="checkbox"/> Yes	Is the water treated before discharge? <input type="checkbox"/> No <input type="checkbox"/> Yes
Type <input type="checkbox"/> headwall <input type="checkbox"/> end section <input type="checkbox"/> other	Dimensions of headwall OR end section (ft) length width height		

search

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- Departments
- I Want To . . .
- City Documents

HELP CENTER

- Agendas & Minutes
- Bids & RFPs
- Employment
- City Manager's Blog
- City Charter
- Code of Ordinances
- Parcel Records
- Photo Gallery
- Staff Directory
- Meeting Calendar
- Subscribe to Email List

Directions

City Hall

539 Phoenix Street
 South Haven, MI 49090
 (269) 637-0700



*MICHIGAN
 MARITIME
 MUSEUM
 260 DYCKMAN
 SOUTH HAVEN, MI*

~~South Haven Police Department~~

90 Blue Star Highway
 South Haven, MI 49090
 (269) 637-5151

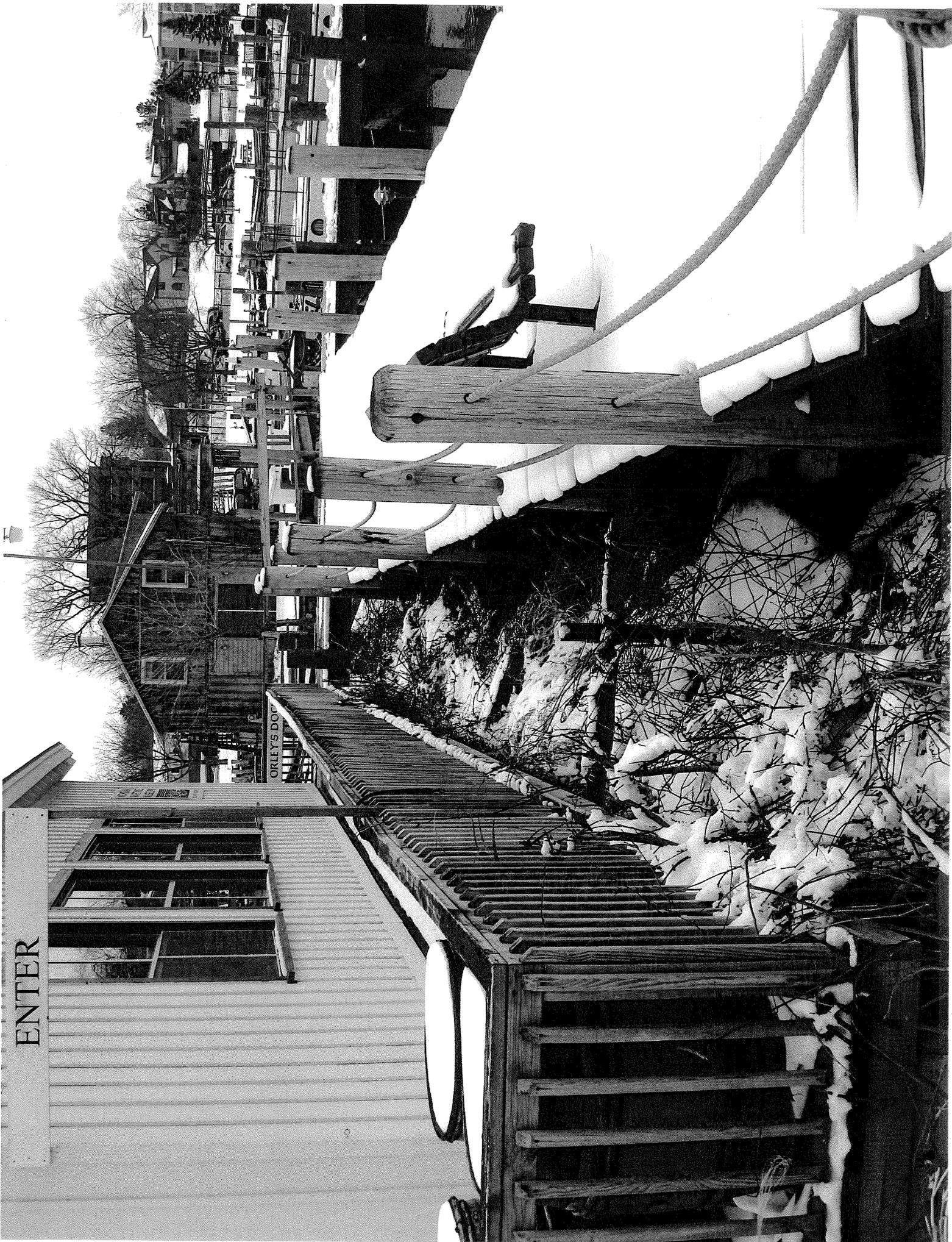




MICHIGAN
MARITIME
MUSEUM



SOUTH HAVEN, MICHIGAN



ENTER

ORLEY'S DOG

EXISTING

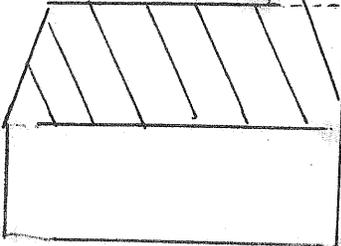
DADNOS
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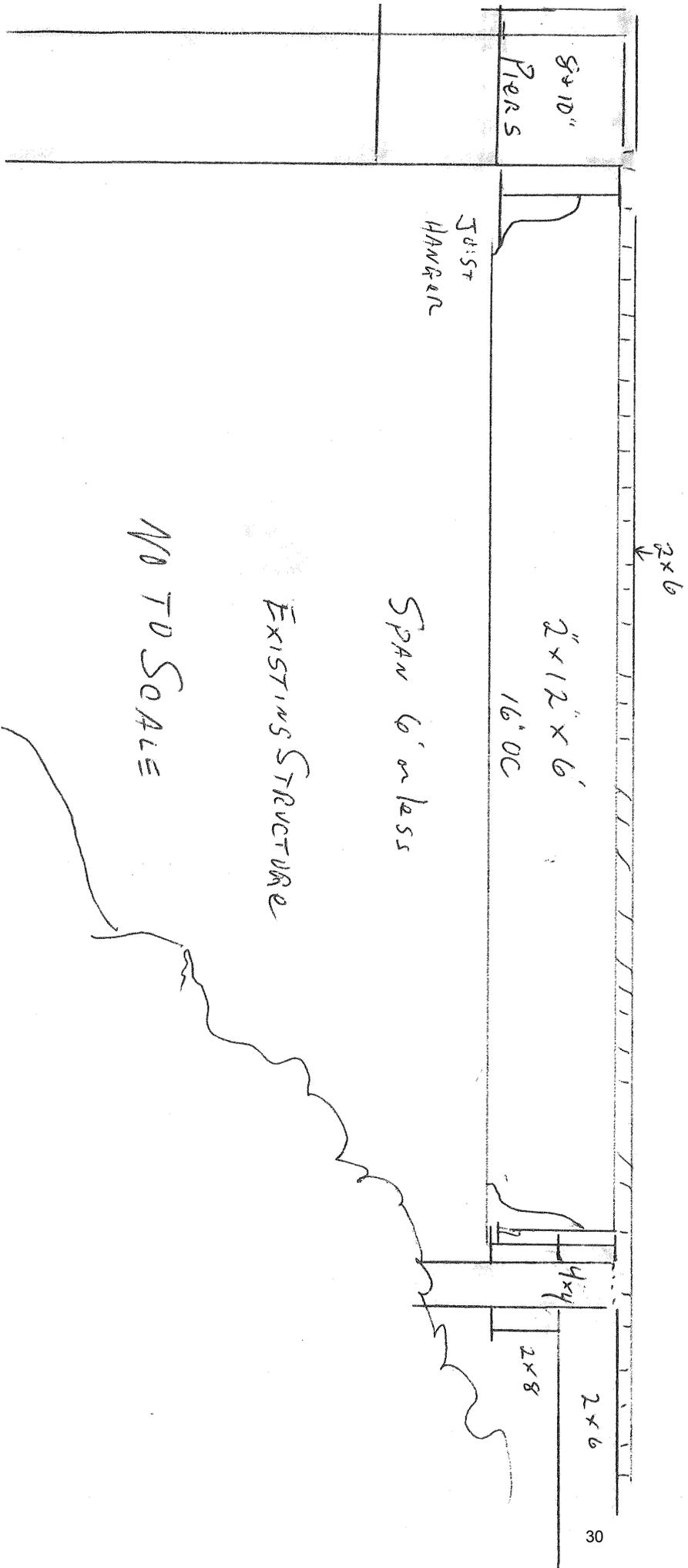
NEW

EXISTING

New Deck
6' x 56'
10' x 18'

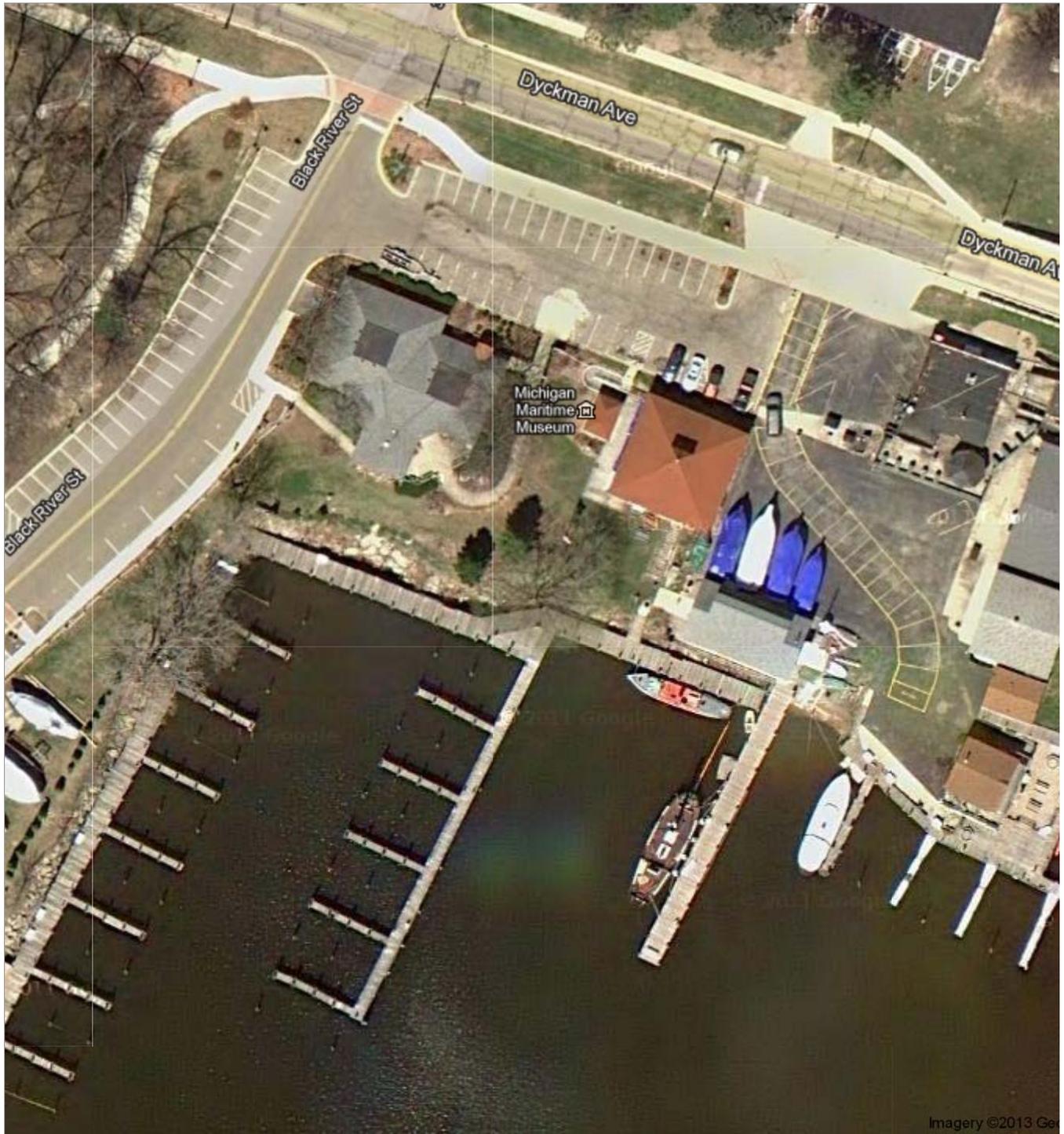


Pathway to City Dock
connection





To see all the details that are visible on the screen, use the "Print" link next to the map.



Imagery ©2013 Geo

A BOUNDARY

&

LOCATION SURVEY

OF
A PARCEL OF LAND IN THE
SOUTH HALF OF SECTION 3,
TOWN 1 SOUTH, RANGE 17 WEST,
CITY OF SOUTH HAVEN,
SOUTH HAVEN TOWNSHIP,
VAN BUREN COUNTY, MICHIGAN

Description: Situated in the City of South Haven, Van Buren County, Michigan.
BEGINNING ON THE SOUTHERLY LINE OF DYCKMAN AVENUE AT A POINT 31.50 FEET NORTH 71° 00' 20" WEST OF THE NORTHEAST CORNER OF LOT 3, BLOCK 8 IN DYCKMAN & WOODMAN'S ADDITION TO THE VILLAGE (NOW CITY) OF SOUTH HAVEN; THENCE SOUTH 17° 40' 00" WEST ALONG THE EASTERLY LINE OF BLACK RIVER STREET, 153.00 FEET; THENCE SOUTH 23° 33' 00" EAST, 85.00 FEET; THENCE SOUTH 79° 10' 15" EAST, 194.50 FEET; THENCE NORTH 48° 00' 00" EAST, 45.00 FEET; THENCE NORTH 27° 16' 30" EAST, 194.50 FEET; THENCE SOUTH 23° 33' 00" EAST, 85.00 FEET; THENCE SOUTH 79° 10' 15" EAST, 139.74 FEET TO A POINT ON THE NORTHERLY LINE OF THE SOUTH HAVEN TURNING BASIN; THENCE SOUTH 62° 55' 17" EAST (DEEDED AS SOUTH 61° 32' 10" EAST), 163.36 FEET; THENCE NORTH 21° 28' 40" EAST, 39.00 FEET; THENCE NORTH 68° 31' 20" WEST 95.00 FEET; THENCE NORTH 21° 28' 40" EAST, 139.00 FEET TO THE SOUTHERLY LINE OF DYCKMAN AVENUE; THENCE NORTH 71° 00' 20" WEST ON SAME, 213.35 FEET TO THE PLACE OF BEGINNING.

CLIENT
CITY OF SOUTH HAVEN
CITY HALL
539 PHOENIX STREET
SOUTH HAVEN, MICHIGAN 49090-1499

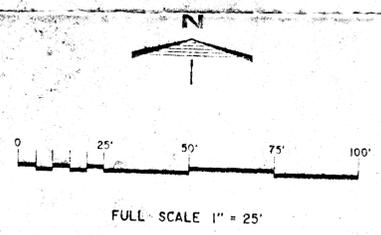
George J. Mitchell 7/9/97
GEORGE J. MITCHELL
LICENSED LAND SURVEYOR
STATE OF MICHIGAN NO. 19618



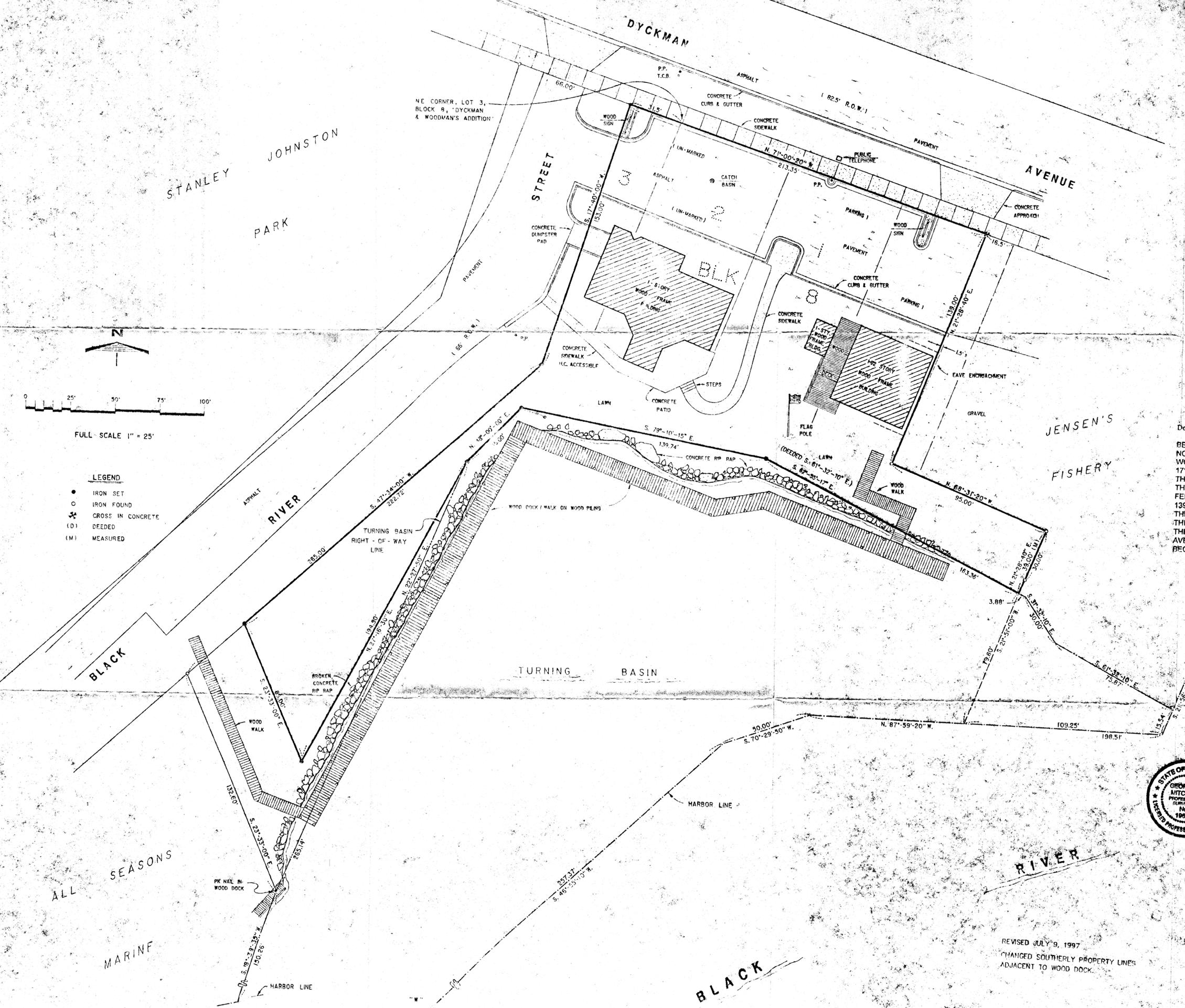
PREPARED BY:
MITCHELL SURVEYS INC.
404 BROADWAY
SOUTH HAVEN, MICHIGAN 49090

PHONE (616) 637-1107 FAX (616) 637-1807
PROJECT NO. 91-158 DATE JULY 19, 1997
REVISION SHEET 3 OF 1
SEC. 3 T. 1 S. 17 W. TWP. SOUTH HAVEN
BOOK 91 PAGE 27 FILE NO.

REVISED JULY 9, 1997
CHANGED SOUTHERLY PROPERTY LINES
ADJACENT TO WOOD DOCK.



- LEGEND**
- IRON SET
 - IRON FOUND
 - ✱ CROSS IN CONCRETE
 - (D) DEEDED
 - (M) MEASURED



BLACK RIVER PARK FUND

GL Number	Description	2011-12 Adopted Budget	2011-12 Actual	12/31/2012 Adopted Budget	YTD As Of 2/28/2013	2013-14 REQUESTED	FUTURE
--- Estimated Revenue ---							
545-000-566-002	STATE GRANT-LAUNCH/PARK	0.00	0.00	0.00	0.00	0.00	0.00
545-000-566-003	FISHERIES TRUST GRANT	0.00	0.00	0.00	0.00	0.00	0.00
545-000-608-000	OTHER FEES	0.00	0.00	0.00	0.00	0.00	0.00
545-000-645-000	SALES	500.00	627.00	500.00	339.00	500.00	500.00
545-000-653-000	BOAT LAUNCHING & PARKING FEES	38,000.00	55,134.35	40,000.00	37,290.25	50,000.00	50,000.00
545-000-653-001	LAUNCHING-SEASONAL PERMIT	10,000.00	10,097.00	10,000.00	1,030.00	10,000.00	10,000.00
545-000-665-000	INTEREST INCOME	500.00	266.61	500.00	106.03	500.00	500.00
545-000-667-003	SEASONAL DOCK RENTAL	85,000.00	70,183.35	85,000.00	34,375.00	80,000.00	80,000.00
545-000-667-004	TRANSIENT DOCK RENTAL	10,000.00	10,711.40	10,000.00	7,114.25	8,000.00	8,000.00
545-000-667-016	LEASE AGREEMENT - MILLER	2,500.00	0.00	2,500.00	0.00	0.00	0.00
545-000-690-000	SUNDRY-MISC OPERATING REVENUE	0.00	59.40	0.00	72.30	100.00	100.00
Total Estimated Revenue:		146,500.00	147,079.11	148,500.00	80,326.83	149,100.00	149,100.00

--- Appropriations ---

545-776-703-000	SALARIES & WAGES - FULL-TIME	2,398.00	1,242.84	1,557.00	849.04	1,557.00	1,557.00
545-776-704-000	SALARIES & WAGES - PART-TIME	34,988.00	33,024.95	35,291.00	16,357.89	35,291.00	35,291.00
545-776-708-000	OVERTIME - FULL-TIME	69.00	174.03	69.00	104.08	69.00	69.00
545-776-709-000	OVERTIME - PART-TIME	145.00	1,837.26	145.00	1,632.25	145.00	145.00
545-776-709-001	OVERTIME - PART-TIME	0.00	0.00	0.00	0.00	0.00	0.00
545-776-710-000	HEALTH/DENTAL INSURANCE	456.00	289.03	402.00	296.43	402.00	402.00
545-776-710-001	PAYMENT IN LIEU OF INSURANCE	0.00	0.00	0.00	0.00	0.00	0.00
545-776-712-000	WORKERS COMPENSATION	1,182.00	708.96	1,208.00	613.70	1,208.00	1,208.00
545-776-713-000	PAYROLL TAXES	2,876.00	2,771.64	2,819.00	1,445.47	2,819.00	2,819.00
545-776-713-001	UNEMPLOYMENT COMPENSATION	2,415.00	1,447.06	1,501.00	435.92	1,501.00	1,501.00
545-776-713-002	LIFE & DISABILITY INSURANCE	19.00	11.39	14.00	6.00	14.00	14.00
545-776-716-000	EMPLOYER MERS CONTRIBUTIONS	21.00	0.00	15.00	0.00	15.00	15.00
545-776-727-000	OFFICE SUPPLIES	200.00	293.99	200.00	0.00	200.00	200.00
545-776-729-001	OTHER CLOTHING & SUPPLIES	300.00	74.00	300.00	52.00	100.00	100.00
545-776-741-000	OPERATING SUPPLIES	1,400.00	1,249.79	2,200.00	107.86	2,000.00	2,000.00
545-776-742-000	SMALL TOOLS	200.00	289.99	200.00	3.79	200.00	200.00
545-776-748-000	MOTOR FUEL	200.00	692.47	500.00	235.35	500.00	500.00
545-776-801-000	PROFESSIONAL/CONSULTING FEES	500.00	263.16	500.00	14.89	5,000.00	100,000.00
545-776-802-000	OTHER CONTRACTUAL SERVICES	24,000.00	19,606.69	24,000.00	4,729.14	4,000.00	4,000.00
545-776-803-000	CREDIT CARD FEES	1,200.00	2,015.80	2,000.00	1,326.93	3,000.00	3,000.00
545-776-850-000	TELEPHONE	750.00	1,618.72	1,200.00	1,122.84	2,000.00	2,000.00
545-776-855-000	POSTAGE	100.00	0.00	100.00	0.00	0.00	0.00
545-776-860-000	TRAVEL/CONFERENCES/TRAINING	250.00	0.00	250.00	0.00	0.00	0.00
545-776-870-000	PAYMENT IN LIEU OF TAXES	7,325.00	7,325.00	7,256.00	4,833.32	7,425.00	7,425.00
545-776-900-000	PRINTING/PUBLISHING	100.00	0.00	100.00	0.00	100.00	100.00
545-776-921-000	UTILITIES - ELECTRIC	2,600.00	2,602.78	2,652.00	2,140.54	2,652.00	2,652.00
545-776-922-000	UTILITIES - WATER & SEWER	4,000.00	4,883.30	4,500.00	3,590.03	4,500.00	4,500.00
545-776-923-000	UTILITIES - GAS	400.00	506.66	550.00	341.87	550.00	550.00
545-776-931-000	REPAIRS/MAINT-BUILDS & STRCTRE	1,000.00	835.33	1,500.00	3,207.75	1,000.00	1,000.00
545-776-932-000	REPAIRS/MAINTENANCE - OTHER	500.00	1,510.70	500.00	0.00	5,000.00	5,000.00
545-776-933-000	REPAIRS/MAINTENANCE - EQUIP	7,000.00	0.00	7,000.00	13.89	0.00	0.00
545-776-942-000	INFORMATION SERVICES FEES	1,863.00	1,863.00	1,863.00	1,242.00	1,882.00	1,882.00
545-776-957-000	CONCESSION EXPENSE	700.00	427.10	700.00	319.10	500.00	500.00
545-776-958-000	SUBSCRIPTIONS/MEMBERSHIPS	0.00	147.50	0.00	0.00	0.00	0.00

Fish Cleaning Station Engineering Assistance
reliable, pests, portables, trees

Asphalt Paving at Launch

BLACK RIVER PARK FUND

GL Number	Description	2011-12 Adopted Budget	2011-12 Actual	12/31/2012 Adopted Budget	YTD As Of 2/28/2013	2013-14 REQUESTED	FUTURE
545-776-968-000	DEPRECIATION EXPENSE	50,000.00	47,098.21	46,000.00	0.00	50,300.00	50,300.00
545-776-969-101	CHARGES FOR SERV - GEN FUND	18,818.00	18,818.00	18,818.00	12,545.32	18,818.00	18,818.00
545-776-969-111	CHARGES FOR SERV - GF - POLICE	3,827.00	3,827.00	3,827.00	2,551.32	3,827.00	3,827.00
545-776-975-000	BUILDINGS/ADDITIONS/IMPROVE	3,500.00	0.00	0.00	0.00	0.00	0.00
545-776-980-000	OFFICE EQUIPMENT & FURNITURE	150.00	0.00	0.00	0.00	0.00	0.00
545-965-999-296	OPER TRANS OUT - RIVER MAINT	5,547.00	5,547.00	55,800.00	5,800.00	5,800.00	5,800.00
545-965-999-401	OPER TRANS OUT - CAP PROJ FUND	0.00	0.00	0.00	0.00	0.00	0.00
Total Appropriations:		180,999.00	163,003.35	225,537.00	65,918.72	162,375.00	257,375.00
Net of Revenues & Appr	Net of Revenues & Appropriations:	(34,499.00)	(15,924.24)	(77,037.00)	14,408.11	(13,275.00)	(108,275.00)

Add'l \$50,000 to River Maint for Dredging

BEGINNING NET RESERVES	(Net of Capital Assets \$515,894)	124,424	47,387
ENDING NET RESERVES		47,387	34,112
FUND BAL. AS % BDGT		21%	21%

MARINA FUND

GL Number	Description	2011-12 Adopted Budget	2011-12 Actual	12/31/2012 Adopted Budget	YTD As Of 2/28/2013	2013-14 REQUESTED	FUTURE	
--- Estimated Revenue ---								
594-000-566-005	STATE GRANT	550,000.00	4,194.36	789,774.00	44,487.40	0.00	0.00	
594-000-608-000	OTHER FEES	3,000.00	2,910.00	3,600.00	1,789.75	2,910.00	2,910.00	
594-000-645-000	SALES	4,000.00	4,329.92	4,000.00	2,577.75	4,329.92	4,329.92	
594-000-665-000	INTEREST INCOME	10,000.00	15,105.96	10,000.00	5,931.61	15,105.96	15,105.96	
594-000-665-594	MARKET VALUE ADJUSTMENTS	0.00	(2,655.45)	0.00	(3,444.66)	0.00	0.00	
594-000-667-003	SEASONAL DOCK RENTAL	350,000.00	321,099.45	350,000.00	216,726.00	350,000.00	350,000.00	Hold Same as 2012-2013
594-000-667-004	TRANSIENT DOCK RENTAL	160,000.00	183,126.76	160,000.00	66,999.48	160,000.00	160,000.00	Hold Same as 2012-2013
594-000-690-000	SUNDRY-MISC OPERATING REVENUE	0.00	1,551.80	1,500.00	799.50	1,500.00	1,500.00	
594-000-543	STATE DREDGING FUNDS	0.00	0.00	209,000.00	0.00	0.00	0.00	
Total Estimated Revenue:		1,077,000.00	529,662.80	1,527,874.00	335,866.83	533,845.88	533,845.88	
--- Appropriations ---								
594-776-703-000	SALARIES & WAGES - FULL-TIME	9,549.00	531.54	4,597.00	254.52	4,597.00	4,597.00	Must have budget for DPW staff
594-776-704-000	SALARIES & WAGES - PART-TIME	48,403.00	50,019.66	48,403.00	30,767.59	48,403.00	48,403.00	Keep labor costs the same, per contract
594-776-708-000	OVERTIME - FULL-TIME	0.00	0.00	0.00	46.10	0.00	0.00	
594-776-709-000	OVERTIME - PART-TIME	65.00	274.88	65.00	492.85	65.00	65.00	
594-776-710-000	HEALTH/DENTAL INSURANCE	1,980.00	152.57	670.00	114.66	670.00	670.00	2012 Wages+ 62118
594-776-710-001	PAYMENT IN LIEU OF INSURANCE	0.00	0.00	0.00	0.00	0.00	0.00	
594-776-712-000	WORKERS COMPENSATION	1,639.00	1,096.80	1,730.00	881.03	1,730.00	1,730.00	
594-776-713-000	PAYROLL TAXES	4,361.00	3,877.73	4,054.00	2,413.16	4,054.00	4,054.00	
594-776-713-001	UNEMPLOYMENT COMPENSATION	4,188.00	2,716.64	2,551.00	1,674.24	2,551.00	2,551.00	
594-776-713-002	LIFE & DISABILITY INSURANCE	97.00	14.01	24.00	2.12	24.00	24.00	
594-776-716-000	EMPLOYER MERS CONTRIBUTIONS	103.00	0.00	24.00	0.00	24.00	24.00	
594-776-727-000	OFFICE SUPPLIES	500.00	1,048.94	900.00	25.77	900.00	900.00	
594-776-729-001	OTHER CLOTHING & SUPPLIES	400.00	572.00	400.00	0.00	400.00	400.00	
594-776-741-000	OPERATING SUPPLIES	5,200.00	11,703.94	5,200.00	7,259.16	5,200.00	5,200.00	
594-776-742-000	SMALL TOOLS	300.00	495.20	300.00	10.28	300.00	300.00	
594-776-748-000	MOTOR FUEL	0.00	0.00	0.00	91.16	200.00	200.00	
594-776-801-000	PROFESSIONAL/CONSULTING FEES	1,300.00	10,712.29	1,000.00	38,695.38	5,000.00	5,000.00	Marina Marketing, HAPA
594-776-802-000	OTHER CONTRACTUAL SERVICES	70,000.00	59,497.59	75,000.00	137,849.45	75,000.00	75,000.00	Dredging costs
594-776-803-000	CREDIT CARD FEES	5,000.00	12,018.66	15,000.00	7,433.28	15,000.00	15,000.00	
594-776-850-000	TELEPHONE	2,000.00	3,110.46	3,000.00	2,237.60	3,000.00	3,000.00	
594-776-855-000	POSTAGE	100.00	0.00	100.00	0.00	0.00	0.00	
594-776-860-000	TRAVEL/CONFERENCES/TRAINING	500.00	955.58	700.00	3,191.11	700.00	700.00	
594-776-870-000	PAYMENT IN LIEU OF TAXES	26,350.00	26,350.00	26,350.00	17,566.64	26,350.00	26,350.00	
594-776-900-000	PRINTING/PUBLISHING	6,000.00	91.95	6,000.00	0.00	0.00	0.00	
594-776-921-000	UTILITIES - ELECTRIC	20,000.00	15,149.20	20,000.00	17,225.97	20,000.00	20,000.00	
594-776-922-000	UTILITIES - WATER & SEWER	11,000.00	10,637.25	11,000.00	10,624.89	11,000.00	11,000.00	
594-776-923-000	UTILITIES - GAS	1,700.00	1,675.60	1,700.00	1,426.52	1,700.00	1,700.00	
594-776-931-000	REPAIRS/MAINT-BLDS & STRCTRES	11,000.00	7,652.20	0.00	4,347.30	0.00	50,000.00	Roof Repair South Side
594-776-932-000	REPAIRS/MAINTENANCE - OTHER	1,400.00	3,657.59	0.00	467.37	0.00	0.00	
594-776-933-000	REPAIRS/ MAINTENANCE - EQUIP	1,200.00	427.09	1,200.00	114.93	0.00	0.00	
594-776-941-000	MOTOR POOL FEES	1,800.00	1,800.00	1,844.00	1,229.32	1,844.00	1,728.00	
594-776-942-000	INFORMATION SERVICES FEES	5,713.00	5,713.00	5,713.00	3,808.68	5,770.00	5,770.00	

MARINA FUND

GL Number	Description	2011-12 Adopted Budget	2011-12 Actual	12/31/2012 Adopted Budget	YTD As Of 2/28/2013	2013-14 REQUESTED	FUTURE		
594-776-944-000	BUILDING LEASE	100,830.00	100,830.00	100,830.00	67,220.00	100,830.00	100,830.00		
594-776-957-000	CONCESSION EXPENSE	3,000.00	3,204.10	3,500.00	2,046.96	4,000.00	4,000.00		
594-776-958-000	SUBSCRIPTIONS/MEMBERSHIPS	200.00	247.50	200.00	0.00	300.00	300.00		
594-776-964-000	BOATER REFERRAL BONUS	0.00	200.00	0.00	0.00	0.00	0.00		
594-776-968-000	DEPRECIATION EXPENSE	98,000.00	94,922.15	90,000.00	0.00	133,300.00	133,300.00		
594-776-969-101	ADMIN FEES - GENERAL FUND	51,353.00	51,353.00	51,353.00	34,235.36	25,000.00	25,000.00	Reduced	
594-776-969-111	POLICE DEPART FEES-GEN FUND	8,930.00	8,930.00	8,930.00	5,953.32	5,000.00	5,000.00	Reduced	
594-776-975-000	BUILDINGS/ADDS/IMPROVEMENTS	0.00	2,180.00	0.00	0.00	0.00	0.00		
594-776-975-011	NORTH SIDE MARINA UPGRADE	1,100,000.00	0.00	1,628,400.00	755,949.99	0.00	0.00		
594-776-979-001	UNBUDGETED DREDGING COSTS	0.00	0.00	489,700.00	0.00	0.00	0.00	STATE GRANT	INCOME 209,000
594-776-980-000	OFFICE EQUIPMENT & FURNITURE	0.00	0.00	0.00	1,476.45	0.00	0.00		
594-965-999-296	OPER TRANS OUT - RIVER MAINT	25,627.00	25,627.00	21,080.00	21,080.00	21,080.00	21,080.00	DREDGING NS & SS	451,000
Total Appropriations:		1,629,788.00	519,446.12	2,631,518.00	1,178,213.16	523,992.00	573,876.00	MUSEUM ENG DRED	13,500
Net of Revenues & . Net of Revenues & Appropriations:		(552,788.00)	10,216.68	(1,103,644.00)	(842,346.33)	9,853.88	(40,030.12)	FLOOD PL PER	5,500
BEGINNING NET RESERVES				1,079,566		-24,078		DREDGING NS & SS -ADM	19,700
ENDING NET RESERVES				-24,078		-14,224			489,700
FUND BAL. AS % BDGT				-1%		-3%		Shortfall in Dredging	(280,700)

FY 13 Deficit Elimination Plan needed

RIVER MAINTENANCE FUND

GL Number	Description	2011-12		12/31/2012	YTD As Of	
		Adopted Budget	2011-12 Actual	Adopted Budget	2/28/2013	2013-14 REQUESTED
--- Estimated Revenue ---						
296-000-566-000	STATE GRANT-DREDGING	0.00	0.00	226,000.00	0.00	0.00
296-000-665-000	INTEREST INCOME	0.00	3.68	0.00	0.00	0.00
296-000-665-001	INT INCOME - SPECIAL ASSESS	0.00	1,309.00	1,500.00	0.00	0.00
296-000-672-000	SPECIAL ASSESSMENTS	0.00	0.00	0.00	0.00	0.00
296-000-672-500	DREDGING ASSESSMENTS	16,000.00	15,275.14	16,000.00	0.00	0.00
296-000-690-000	MISC OPERATING REVENUE	0.00	0.00	0.00	0.00	0.00
296-000-699-250	OPERATING TRANS IN-DWTN DEV	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00
296-000-699-545	TRANSFER IN-BLACK RIVER PARK	5,547.00	5,547.00	55,800.00	5,800.00	5,800.00
296-000-699-594	OPER TRANS IN - MARINA	25,627.00	25,627.00	21,080.00	21,080.00	21,080.00
Total Estimated Revenue:		57,174.00	57,761.82	330,380.00	36,880.00	36,880.00
--- Appropriations ---						
296-774-741-000	OPERATING SUPPLIES	500.00	168.00	500.00	0.00	500.00
296-774-802-000	OTHER CONTRACTUAL SERVICES	0.00	9.57	0.00	2.98	0.00
296-774-932-000	REPAIRS/MAINTENANCE - OTHER	0.00	0.00	479,800.00	0.00	0.00
296-774-974-006	DREDGING	10,000.00	0.00	10,000.00	11,079.23	10,000.00
296-965-999-101	CHARGES FOR SERVICES - GEN FUN	0.00	0.00	0.00	0.00	0.00
Total Appropriations:		10,500.00	177.57	490,300.00	11,082.21	10,500.00
Net of Revenues & Net of Revenues & Appropriations:		46,674.00	57,584.25	(159,920.00)	25,797.79	26,380.00

BEGINNING FUND BALANCE	67,844	-92,076
ENDING FUND BALANCE	-92,076	-65,696
FUND BAL. AS % BDGT	-19%	-626%

FY 13 Deficit Elimination Plan needed

State Dredging Revenue	226,000
BRP Contribution	50,000
	<hr/> 276,000
pier dredge	208,800
other dredging estimates	148,000
	22,000
	<hr/> 101,000
Total Estimated Dredge costs	479,800
Shortfall of Dredge Funding	(203,800)

HARBOR COMMISSION STRATEGIC PLAN
Approved April 17, 2012

Mission Statement

In the performance of its duties the Harbor Commission shall remain committed to the continuous improvement of the Black River Harbor by taking a long term view of the harbor's capacity, its navigability, its value to the community, and its use by both public and private interests, and shall assure the health, safety and enjoyment of the harbor by providing recommendations for its maintenance and operation.

Goals and Objectives

A. Safety and Navigation

1. Dredging Needs of the Harbor

Assess the river conditions and prepare to perform maintenance dredging as necessary.

Develop a checklist that outlines the steps to be used in assessing the need for dredging and the process of dredging.

Maintain valid permits for maintenance dredging.

Dredging is one element of a comprehensive Black River maintenance program that must be ongoing.

Develop recommendations for maintaining ingress and egress to the harbor, including adequate depth at the pierheads.

Apply for any grant funding or other funding that becomes available for harbor dredging or other safety improvements.

2. Electrical Utilities

Encourage all marinas and private slips to upgrade their electrical wiring if they are making any electrical improvements.

3. Fueling of Marine Vessels

The Commission has identified the direct fueling of boats as a major safety concern and has developed the following action steps to educate the public and enforce the laws regarding direct fueling:

- Work with marina managers and commodores to have signs posted clearly explaining how and where boaters may fuel their boats.
- Develop an educational campaign that can be used in local schools, boater safety classes, in the newspaper and other outlets.
- Enlist support of the Van Buren County Sheriff Marine Patrol along with SHAES and South Haven Police to educate boaters on the dangers and laws regarding direct fueling. Encourage warnings before citations and fines.
- Send a letter to the State expressing concern and requesting a statement on the back of the Marina Operating Permit (MOP) stating: "Direct Fueling is against the law and can lead to revocation of this MOP".
-
- Provide the fire code letter from the SHAES Executive Director to marinas.

4. Emergency Services

Promote a close working relationship with the Sheriff Marine Patrol, Coast Guard, Coast Guard Auxiliary, South Haven Police Department and South Haven Area Emergency Services. Meet at least annually to discuss mutual issues related to harbor safety.

Review procedures to respond to fuel and contaminant spills.

Encourage agencies to maintain oil absorbent equipment to manage emergencies.

5. Erosion and Contaminants

Work with the DEQ, DNR, Drain Commission, farmers and other entities to ensure proper procedures are followed to reduce erosion and contaminants in the river in the City and upstream from the City.

Support testing for E. coli and work to resolve any related issues.

6. Harbor Traffic Flow and Safety

Identify ways to improve traffic flow especially on weekends and during special events

Ensure that the channel between the harbor lines is kept clear of natural obstructions, anchored boats and barges, and all new docks and headwalls.

Add a light to the bridge that will signal to boaters when the bridge is closing.

7. Public Access

Support public access and use.

Explore installation of a mast hoist for people launching sail boats at the boat launch.

Traffic at the launch area can be dangerous, identify safety improvements.

8. Signage

Evaluate the current signs and upgrade/remove as necessary. Locate signs strategically so as not to block valued views.

Increase the number of No Wake signs, including adding signs at the bridge and at the Southside Marina.

B. Municipal Marina Facilities

1. Municipal Marina Facilities

Promote quality facilities at all municipal marinas.

The Southside Marina has excellent facilities (showers and restrooms, lounge and meeting rooms, picnic areas, etc) for its boaters. Similar quality facilities should be provided to all other Municipal Marinas.

The City should move forward expeditiously with the construction of a new facilities building at the Northside Marina. Support use of grant funding to replace the existing facility.

The City should upgrade and expand the restroom/shower facilities at the Museum and Black River Park Marinas, adding a lounge area. These are likely to be long term projects.

At Black River Park Marina and the Museum Marina, add a roof and screen walls to the new deck. All facilities should be handicap accessible. Boaters should be surveyed first to determine if this meets their needs.

Promote availability of bicycles for boater use at the municipal marinas.

C. Infrastructure

1. Develop a Capital Improvement Plan

A capital improvement plan should be developed for each of the marinas. The Harbor Commission should review the plan and identify projects that it would like to see completed. The plan should include a budget and timeline for such improvements.

Annually review the River Maintenance capital improvement plan.

2. Dinghy Docks and Paddle Craft Facilities

Fully support the Pedestrian, Bicycle and Paddle Plan which was adopted by the City Council on 2/16/2009. Improve existing dinghy docks and access at the Dyckman bridge.

<http://www.south-haven.com/csh%20folder/csh/Pages/Communications/PlansReportsStudies.html>

Clean out and trim Celery Pond creek to create a small craft launch site and dinghy dock.

Add a dinghy dock at the Museum Marina.

Try to design dinghy docks so they would be usable for a river launch service if one becomes available.

3. Harborwalk

Complete the Harborwalk to include signage, lighting, benches, landscaping etc.

Find and analyze the original plan for the Harborwalk to determine if the plan has been fully implemented. If it has not continue implementing the plan.

Improvements are needed on the public easements through Mariner's Dockage and Pier's End Cove.

Complete Harborwalk to create a unified concept by adding better way finding signs, paving materials, improve interpretative plaques etc.

Encourage a cooperative maintenance agreement between the City and the Michigan Maritime Museum.

4. Green Space/Views

The Commission recommends that the city retain and acquire, when available, adequate public space along waterfronts. These areas should be maintained and developed for open green space and public access.

5. Former Street Garage

Add a sea wall extension and dinghy dock at the former street garage, encouraging natural sea walls.

D. Planning

1. Future Development and Impact on Safe Navigation

The Harbor Commission supports a detailed Harbor study that would update existing material from the 2001 Smith Group JJR report. To accomplish this we need to hire a competent and professional consultant to determine the capacity of the Black River Harbor and to provide guidance for future policy and decision making with a 10 year outlook.

The South Haven City Council should authorize a forward looking study of our Harbor to determine if additional slips and/or services are needed. Is our Harbor at capacity (defined as its ability to safely handle its current usage)? If not, how many additional boats can it handle given its current configuration? Are additional slips needed? If so, where should they be located? If it is at capacity based upon current configuration, are there modifications that would permit increased capacity?

Consider funding a comprehensive professional study. The study should look at where are we and where do we want to be in the next 5 to 10 years. This study should be delayed at this time due to the unusual economic conditions until a certain level of economic normalcy returns to the harbor. In the interim, contact area schools, colleges and universities seeking their help with acquiring accurate data on size, quantity and frequency of use of vessels using the Black River. Analyze the new numbers from the study with a focus on the last paragraph on page 4 of the JJR memorandum of 4/23/2001 which discusses the capacity of the river based on channel widths.

Additionally the needs assessment should look at existing facilities to determine if they currently serve our needs, how they could be modified to best serve our needs today and what needs to be changed to best serve our future needs?

A process needs to be defined, created, promoted and followed setting development goals and criteria based on consideration of our harbor size, location and boating and community concerns.

Continue to monitor and provide guidance on the new waterfront park extension east of the Steelheader's fishing wall and its impact on safety and navigation

Any additional waterfront development or development affecting the waterfront must be scrutinized very carefully, both before, during and after the planned construction. In advance of any construction the impact upon the harbor (which includes the Black River to the City limits) by the project as well as the proposed methods of construction of the project (remember Sherman Hills) must be carefully examined and evaluated. The impact on boat traffic (if, for example, additional slips are proposed) and the impact upon navigation must be evaluated. Of concern is erosion of soils flowing into the river caused by poor and unsupervised developments.

As proposals for the development are presented, the Harbor Commission will consider issues of need, safety, navigational hazards and environmental concerns and make appropriate recommendations.

2. Development Approval Role

All projects using harbor maintenance funds and all developments along the river should come before the Harbor Commission for their recommendation.

Participate in any discussion regarding the Celery Pond property.

The Harbor Commission should have a role in any changes that affect marinas, river or harbor.

3. Natural Environment Preservation

Allow for innovative development without totally eliminating the vegetation and public access in the Black River around the present canoe launch area.

We need to be proactive on waterfront development for example Sherman Hills. The City needs to determine how the river needs to be protected when a development is proposed.

Work with DNRE and other entities regarding environmental issues for the entire Black River Watershed.

Encourage all marinas to achieve Clean Marina Status.

4. Effects of Development and Loss of Marine Services

Assess whether we have adequate marine services in the harbor, including fueling, haul out, storage, marine repair service, marine parts and supply, dockage (seasonal and transient) and pump out facilities. If some services appear to be lacking, encourage private businesses to provide them. If private businesses are unable to provide the services or stop providing needed services, consider municipal services.

E. Funding

1. Ongoing Dredging Project Funding

Investigate other sources of revenue for dredging.

Recommend an increase from 3% to 6% of marina revenues set aside for the River Maintenance budget.

Recognize the need for additional funding for dredging and allocate some of the tax collection from the increased assessments of property and homes on the river for dredging.

Request funding from the DDA to allocate toward harbor maintenance.

Determine if the current method of calculating special assessments for dredging is equitable and or if changes are needed.

2. Capital Improvement Plan

The Commission duties include an annual review of this plan along with the Black River Maintenance document. As part of that review recommendations must be made in a timely manner.

3. Harbor Budget Policies

It is the duty of the Commission to review and make recommendations to the annual River Maintenance, Marina Fund and Black River Park budgets in a timely manner so they can be considered during the budget adoption process of the City Council.

All assessment categories should identify a budget and funding mechanism. Consider for example:

- Future waterfront developments should be specifically assessed for their impact on the harbor.
- Establish a broad based assessment (as broad as possible) to fund the maintenance of the harbor.
- Analyze the current income from the operation of the Municipal Marinas and Public Launch site to get a full understanding of the usage and to determine an appropriate contribution to harbor maintenance.

F. Marketing and Communication

1. Emergency Communication

Be in a position to communicate safety information for ongoing and emergency issues with marina owners, managers and users. Develop ways to communicate safety information with boaters.

Establish an email list for contact with boaters and harbor stakeholders.

Install bulletin boards at the boat launch.

2. Marina Management

Evaluate management of municipal marinas.

There needs to be more communication with transient and seasonal boaters using marina facilities and the boat launch. Create and distribute feedback cards to survey customer service and desired amenities. Do customer satisfaction surveys on a regular basis and conduct appropriate follow up.

Include welcome packages with information on the City and local businesses, gifts and coupons. Inform boaters where they can rent bicycles and vehicles.

Install informational bulletin boards at all municipal marinas to inform boaters and the public of events, phone numbers, tourist information etc.

Improve on-going staff training.

Encourage development of a marina and harbor marketing plan on an annual basis.

The Commission needs to schedule annual meetings at the marinas to hear concerns and suggestions for improvements of services.

3. River Stakeholders

Communicate with the City and its boards and commissions as well as the DEQ, DNR, Drain Commission, farmers, boaters etc. to ensure we maintain a high quality harbor, including water quality issues.

Promote the Clean Marina program to harbor marinas and as a marketing approach for the harbor.

Use bulletin boards at marinas and boat launch to post Harbor Commission meeting schedule, agendas and Harbor Commission contact information.

4. Survey and Feedback Procedures

Survey boaters and slip owners to determine what services they want and how it should be provided. Gather feedback and implement changes on dredging and other issues.

Survey all boaters, slip owners and marina owners regarding river maintenance and safety issues. Use an email list to inform and listen to river stakeholders.

March 7, 2013

TO: Brian Dissette

FR: Paul VandenBosch

RE: Restrictive Covenant, Dunkley Dredge Spoil Site

Dredging spoil from the Turning Basin and the North Side and South Side Marinas is being placed on the Dunkley Avenue site. The DEQ dredging permit for the Turning Basin, and the permit application for the North Side and South Side Marinas require that a restrictive covenant be placed on the area used to deposit the spoil. The attached document is the restrictive covenant which would accomplish the requirements of the DEQ permit.

The contaminants found in the dredge spoil at the North Side and South Side Marinas include arsenic, barium, lead, manganese and selenium. The contaminants found in the Turning Basin include arsenic, barium, chromium, copper, lead, manganese, selenium and zinc. The permit requires that the spoil material be capped to prevent direct contact exposure to the spoil material. We plan to place fabric on the spoil, then cap it with gravel.

The area where dredge spoils will be placed is the area south of the access drive in the Dunkley Avenue site, formerly the Electric Barn site. This site is currently used to dump excess snow in winter and as an overflow parking area for the Black River Boat Launch in other seasons. The plans for restoration of this site include a cap of gravel with a fabric base, which should allow for continued use for snow storage and as overflow parking. Restoration will begin after completion of the dredging projects in Spring 2013.

We expect to raise the Dunkley site approximately four feet from the current level. We have applied for a floodplain permit to allow for flattening the site to use for overflow parking.

My recommendation is to close the Dunkley site to future spoil deposition, and to find another site for future dredge spoil deposition. This could be by agreement with a property owner or through purchase of property.

Staff Recommendation:

Approve the Restrictive Covenant agreement with the Michigan Department of Environmental Quality.

DECLARATION OF RESTRICTIVE COVENANT

Completion of this form is required under the authority of Part 115, Solid Waste Management, the Natural Resources and Environmental Protection Act (NREPA), 1994 PA 451, as amended, Michigan Compiled Laws Annotated. Completion of this document is required in order to obtain a site specific designation of inertness or approval pursuant to Part 301, Inland Lakes and Streams, of the NREPA.

THIS INDENTURE made the _____, day of _____, 20____, by and between, The City of South Haven, Michigan whose address is 539 Phoenix Street, South Haven, Michigan, 49090, and the Director of the Michigan Department of Environmental Quality for and on behalf of the state of Michigan whose address is PO Box 30241, Lansing, MI 48909-7741.

WHEREAS, application for a site specific designation of inertness under provisions of Part 115 or approval for disposal pursuant to Part 301, for the purpose of placing, managing, maintaining dredged materials removed from the Black River/Lake upon lands situated in the City of South Haven, County of Van Buren, more particularly described as

The legal description of the land upon which this restrictive covenant is imposed is set forth in Attachment A. Attachment A also contains a map depicting the following:

- a. the property boundary,
- b. the boundary of the land upon which the restrictive covenant is imposed, as described in Attachment A, with Metes and Bounds for each section of traverse labeled,

has been properly made by the _____; and

WHEREAS, the Director of the Department of Environmental Quality will contemporaneously issue a site specific designation of inertness or approval for disposal pursuant to Part 301; and

WHEREAS, Part 115, R 299.4116 or R 299.4110(d), requires that at the time of issuance of a site specific designation of inertness or for disposal pursuant to the provisions of Part 301, an instrument which imposes a restrictive covenant upon the land involved shall be executed by all the owners of the tract of land upon which the dredged materials are placed.

NOW THEREFORE, the City of South Haven, do for themselves, their heirs, successors, lessees, or assigns declare, covenant, and agree:

1. That the lands hereinbefore described have been or will hereafter contain dredged material, and that neither they, nor their servants, agents, employees, nor any of the heirs, successors, lessees or assigns shall (or shall by their leave or sufferance permit others to) engage in filling, grading, excavating, developing a drinking water well, drilling, or mining of the lands and premises above described, unless written authorization therefore is obtained from the Director of the Department of Environmental Quality and that the State of Michigan or any municipality may in addition to any other remedy available at law bring an action for an injunction or other process against any person, county, or municipality to restrain or prevent any violation of the restrictive covenant hereby imposed upon the subject premises.
2. That at the time of the sealing and delivery of this instrument, the above described premises are free from all encumbrances (other than liens, mortgages, judgement liens, mechanics' liens, accrued or unpaid taxes, leases other than mineral leases, or other security interests).

A (Corporation)

Signed in the presence of:

*

*

* Grantor
By _____
*
Its _____

STATE OF MICHIGAN)
) ss
COUNTY OF)

The foregoing instrument was acknowledged before me this _____ day of _____, 20_____,
by _____, the _____,
of _____, a Michigan Corporation.

Form prepared/drafted by:

* (NAME)

(BUSINESS ADDRESS)

(CITY, STATE AND ZIP CODE)

*Notary Public

County, Michigan
My Commission Expires _____

Signed in the presence of:

*

*

By _____
Steven R. Sliver
for the Director, Dan Wyant
Michigan Department of Environmental Quality

STATE OF MICHIGAN)
) ss
COUNTY OF INGHAM)

The foregoing instrument was acknowledged before me this _____ day of _____, 20_____,
by Steven R. Sliver, Chief, of the Solid Waste Section, Office of Waste Management and Radiological Protection,
for the Director of the Department of Environmental Quality, on behalf of the State of Michigan.

When recorded, return to:
Michigan Department of Environmental Quality
Office of Waste Management and Radiological Protection
Solid Waste Section
P.O. Box 30241, Lansing, Michigan 48909-7741

*Notary Public
Ingham County, Michigan
My Commission Expires _____

95 West Main Street
Benton Harbor, MI 49022
T 269.927.2295
F 269.927.1017

Manistee, MI
South Haven, MI
South Bend, IN
Portage, IN

ATTACHMENT A

SUBJECT PARCEL #80-53-780-006-00:

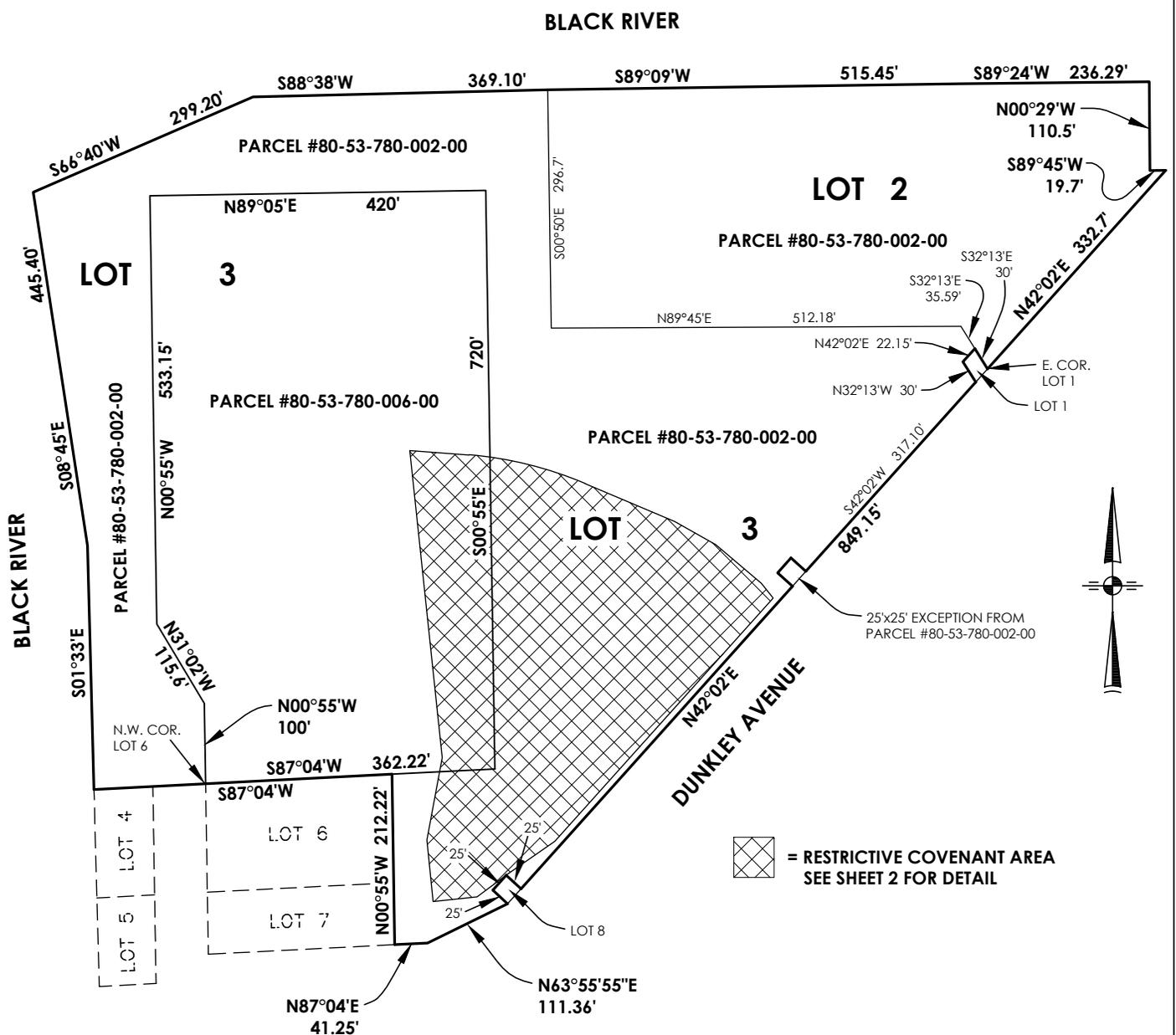
THAT PART OF LOT 3, ASSESSOR'S REPLAT OF BLOCK 18 AND PARTS OF BLOCKS 6, 17 AND 19 OF HALE CONGER & COMPANY'S ADDITION TO THE VILLAGE (NOW CITY) OF SOUTH HAVEN ACCORDING TO THE RECORDED PLAT AS RECORDED IN LIBER 3 OF PLATS ON PAGE 92, VAN BUREN COUNTY RECORDS, DESCRIBED AS COMMENCING AT THE NORTHWEST CORNER OF LOT 6, SAID PLAT; THENCE NORTH 00° 55' WEST, 100 FEET; THENCE NORTH 31° 02' WEST, 115.6 FEET; THENCE NORTH 00° 55' WEST, 533.15 FEET; THENCE NORTH 89° 05' EAST, 420 FEET; THENCE SOUTH 00° 55' EAST, 720 FEET; THENCE SOUTH 87° 04' WEST, 362.22 FEET TO THE POINT OF BEGINNING.

SUBJECT PARCEL #80-53-780-002-00:

LOTS 2 AND 3, ASSESSOR'S REPLAT OF BLOCK 18 AND PARTS OF BLOCKS 6, 17 AND 19 OF HALE CONGER & COMPANY'S ADDITION TO THE VILLAGE (NOW CITY) OF SOUTH HAVEN ACCORDING TO THE RECORDED PLAT AS RECORDED IN LIBER 3 OF PLATS ON PAGE 92, VAN BUREN COUNTY RECORDS.

EXCEPTING THEREFROM THAT PART OF SAID LOT 3 DESCRIBED AS COMMENCING AT THE NORTHWEST CORNER OF LOT 6, SAID PLAT; THENCE NORTH 00° 55' WEST 100 FEET; THENCE NORTH 31° 02' WEST 115.6 FEET; THENCE NORTH 00° 55' WEST 533.15 FEET; THENCE NORTH 89° 05' EAST 420 FEET; THENCE SOUTH 00° 55' EAST 720 FEET; THENCE SOUTH 87° 04' WEST 362.22 FEET TO THE POINT OF BEGINNING.

ALSO EXCEPTING THEREFROM THAT PART OF SAID LOT 3 DESCRIBED AS COMMENCING AT THE EAST CORNER OF LOT 1, SAID PLAT; THENCE SOUTH 42° 02' WEST, 339.35 FEET TO THE POINT OF BEGINNING; THENCE NORTH 47° 58' WEST, 25 FEET; THENCE SOUTH 42° 02' WEST, 25 FEET; THENCE SOUTH 47° 58' EAST, 25 FEET; THENCE NORTH 42° 02' EAST, 25 FEET TO THE POINT OF BEGINNING.



E:\CIVIL_3D\ENG\2013\13-0003_625 DUNKLEY AVE.dwg 13-0003 RC SKETCH.dwg, 8.5x14 SHT1, 3/6/2013 2:13:38 PM, mreinking, 1:1

JOB NO. 13-0003 RC

PREPARED FOR:	DRAWN BY: MGR	LOTS 2 AND 3 ASSESSOR'S REPLAT OF
CITY OF SOUTH HAVEN SPOILS DISPOSAL SITE SUBJECT PARCEL SKETCH	APPROVED BY: MGR	BLK. 18 AND PT. OF BLKS. 6, 17 AND 19
	DATE: MARCH 6, 2013	HALE CONGER & CO. ADDITION
	SCALE: 1"=50'200'	SHEET 1 OF 2

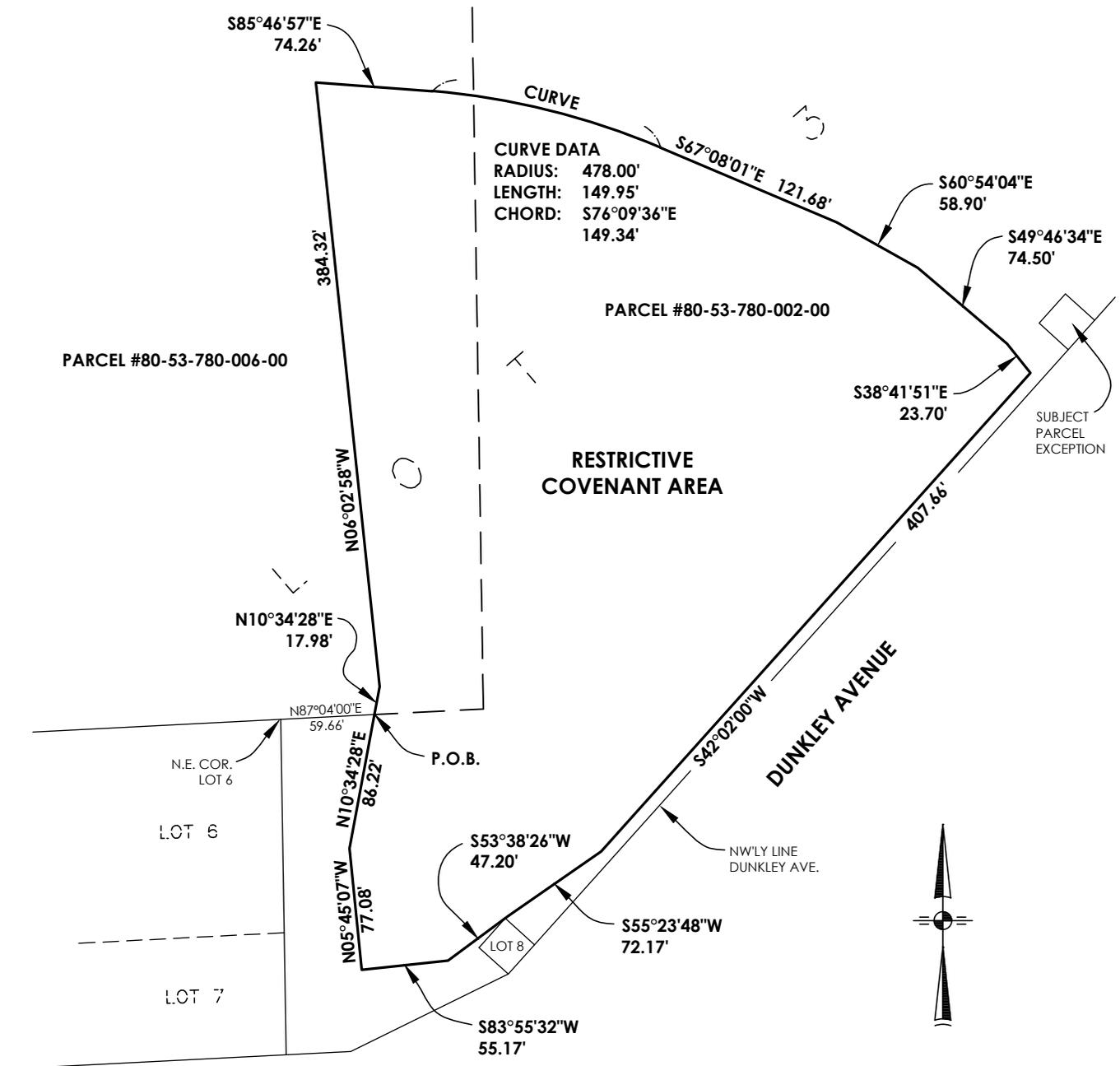
95 West Main Street
Benton Harbor, MI 49022
T 269.927.2295
F 269.927.1017

Manistee, MI
South Haven, MI
South Bend, IN
Portage, IN

ATTACHMENT A

RESTRICTIVE COVENANT AREA:

THAT PART OF LOT 3, ASSESSOR'S REPLAT OF BLOCK 18 AND PARTS OF BLOCKS 6, 17 AND 19 OF HALE CONGER & COMPANY'S ADDITION TO THE VILLAGE (NOW CITY) OF SOUTH HAVEN ACCORDING TO THE RECORDED PLAT AS RECORDED IN LIBER 3 OF PLATS ON PAGE 92, VAN BUREN COUNTY RECORDS, DESCRIBED AS COMMENCING AT THE NORTHEAST CORNER OF LOT 6, SAID PLAT; THENCE NORTH 87° 04' 00" EAST, ALONG THE EASTERLY EXTENSION OF THE NORTH LINE OF SAID LOT, 59.66 FEET TO THE POINT OF BEGINNING OF THE PARCEL OF LAND HEREIN DESCRIBED; THENCE NORTH 10° 34' 28" EAST, 17.98 FEET; THENCE NORTH 06° 02' 58" WEST, 384.32 FEET; THENCE SOUTH 85° 46' 57" EAST, 74.26 FEET TO A POINT OF INTERSECTION WITH A NON-TANGENT CURVE, SAID CURVE HAVING A RADIUS OF 478.00 FEET, AND A CENTRAL ANGLE OF 17° 58' 26"; THENCE SOUTHEASTERLY, ALONG THE ARC OF SAID CURVE TO THE RIGHT, A DISTANCE OF 149.95 FEET, SAID ARC SUBTENDED BY A CHORD WHICH BEARS SOUTH 76° 09' 36" EAST, A DISTANCE OF 149.34 FEET; THENCE SOUTH 67° 08' 01" EAST, 121.68 FEET; THENCE SOUTH 60° 54' 04" EAST, 58.90 FEET; THENCE SOUTH 49° 46' 34" EAST, 74.50 FEET; THENCE SOUTH 38° 41' 51" EAST, 23.70 FEET TO A POINT WHICH IS 8.00 FEET NORTHWESTERLY, AT RIGHT ANGLES, FROM THE NORTHWESTERLY LINE OF DUNKLEY AVENUE; THENCE SOUTH 42° 02' 00" WEST, PARALLEL WITH SAID NORTHWESTERLY LINE, 407.66 FEET; THENCE SOUTH 55° 23' 48" WEST, 72.17 FEET; THENCE SOUTH 53° 38' 26" WEST, 47.20 FEET; THENCE SOUTH 83° 55' 32" WEST, 55.17 FEET; THENCE NORTH 05° 45' 07" WEST, 77.08 FEET; THENCE NORTH 10° 34' 28" EAST, 86.22 FEET, TO THE POINT OF BEGINNING.

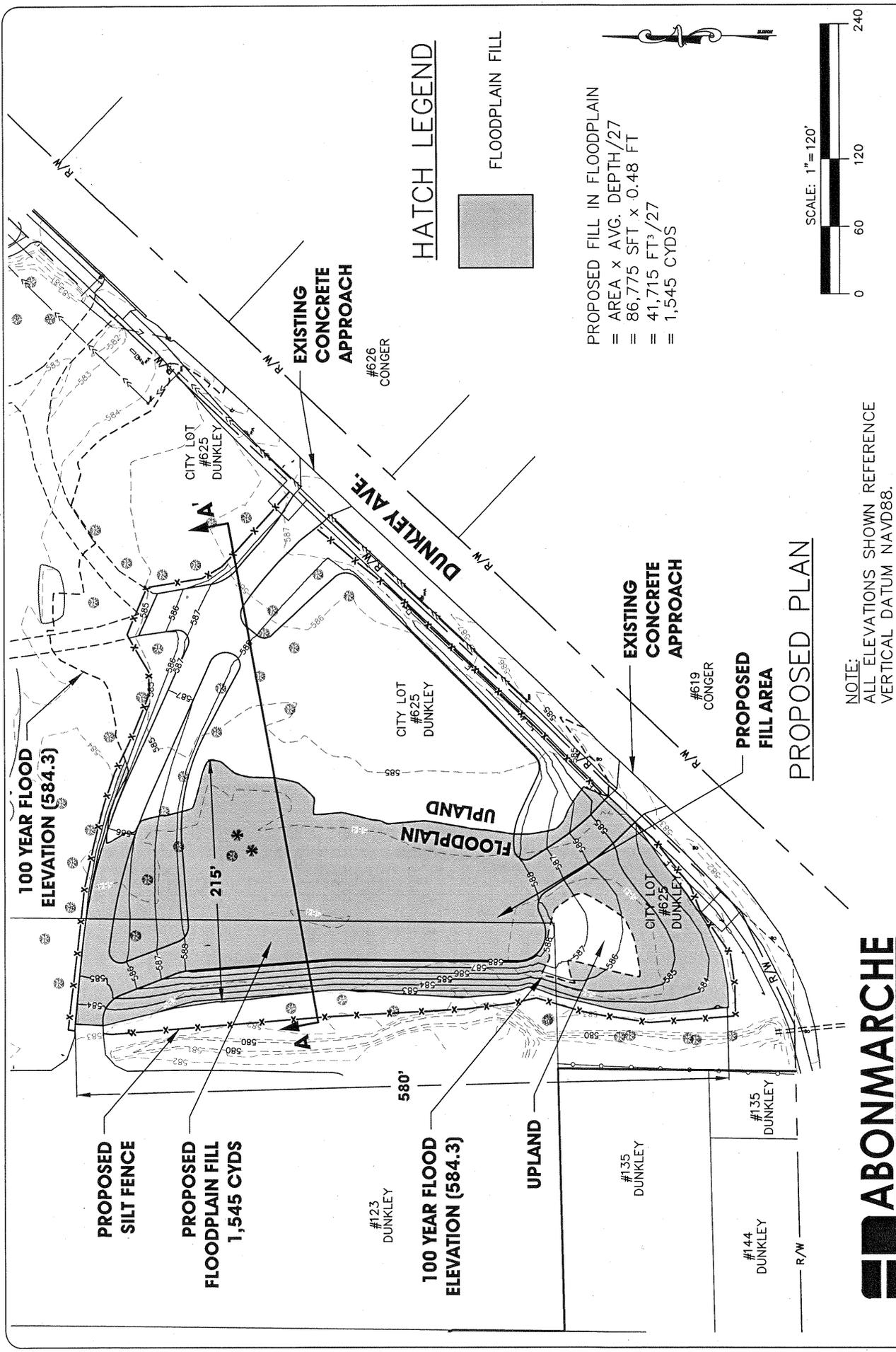


E:\CIVIL_3D\ENG\2013\13-0003 DUNKLEY AVE.dwg\13-0003 RC SKETCH.dwg, 8.5x14 SHT2, 3/6/2013 2:13:40 PM, mreinking, 1:1

PREPARED FOR:
**CITY OF SOUTH HAVEN
 SPOILS DISPOSAL SITE
 RESTRICTIVE COVENANT AREA
 DETAIL AND LEGAL DESCRIPTION**

DRAWN BY: MGR
 APPROVED BY: MGR
 DATE: MARCH 6, 2013
 SCALE: 1" = 1100'

LOTS 2 AND 3 ASSESSOR'S REPLAT OF
 BLK. 18 AND PT. OF BLKS. 6, 17 AND 19
 HALE CONGER & CO. ADDITION
 SHEET 2 OF 2



HATCH LEGEND



FLOODPLAIN FILL

PROPOSED FILL IN FLOODPLAIN
 = AREA x AVG. DEPTH/27
 = 86,775 SFT x 0.48 FT
 = 41,715 FT³/27
 = 1,545 CYDS



NOTE:
 ALL ELEVATIONS SHOWN REFERENCE
 VERTICAL DATUM NAVD88.

PROPOSED PLAN

PREPARED FOR:

ELECTRIC BARN SITE - PROPOSED SITE PLAN
 625 & 123 DUNKLEY AVE.
 SOUTH HAVEN, MI 49090

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Engineering
 Architecture
 Land Surveying
 Marine/Waterfront
 Community Planning
 Landscape Architecture
 Development Services



Manistee, MI
 South Haven, MI
 South Bend, IN
 Portage, IN

95 West Main Street
 Benton Harbor, MI 49022
 T 269.927.2295
 F 269.927.1017

SCALE: 1"=120'

JOB #: 13-0003

SHEET 3 OF 4



Prism Science & Technology, LLC
3133 Lakeshore Drive
St. Joseph, Michigan 49085
tel (269) 983-5775
fax (269) 983-5333

18 December 2012

Prism Number 12.0773

Mr. Paul VandenBosch
City of South Haven
539 Phoenix Street
South Haven, Michigan 49090

Subject: Results of Dredging Permit Sediment Sampling and Analysis
North Side City Marina, South Side City Marina, and the Black River, South
Haven, Michigan

Dear Mr. VandenBosch:

Prism Science & Technology, LLC (Prism) has prepared this summary report which includes the results of sediment sampling and laboratory analysis of thirteen sediment samples. Specifically, a total of seven sediment samples were collected from within the Black River and confluence of Lake Michigan, and a total of six sediment samples were collected from within each of the two city marina basins (North Side City Marina & South Side City Marina) in South Haven, Michigan. A Site Location Map is presented as Figure 1 in Appendix A.

The scope of work consisted of sampling and laboratory analysis of sediment samples in accordance with the Michigan Department of Environmental Quality - Land and Water Management Division (MDEQ-LWMD) guidance documents for dredging projects. The following is presented in anticipation of permitting and dredging activities associated with the above-referenced project areas.

Summary of Results

Sample Location, Collection, and Handling

Proposed sample locations were selected to reflect a spacial distribution and representation of the area(s) of proposed dredging. Sample locations for all thirteen samples are indicated on Figure 2 in Appendix A. Sample locations for the seven samples collected from the Black River and confluence of Lake Michigan are indicated on Figure 3 in Appendix A. Sample locations for the six samples collected from within the two marina basins are indicated on Figure 4 in Appendix A.

Mr. Paul VandenBosch
18 December 2012
Page 2

For ease of understanding and presentation, the discussion presented herein reflects the sediment sampling and laboratory analysis for two distinctly separate dredging projects. One of the proposed dredging projects (seven sediment samples) consists of that portion of the lower reach of the Black River and confluence of Lake Michigan as indicated on Figure 3 in Appendix A.

The other proposed dredging project consists of the combined North Side City Marina and the South Side City Marina (six sediment samples), referred to hereafter as "Municipal Marinas". These six sediment sample locations are indicated on Figure 4 in Appendix A.

On 27 September and 19 November 2012, a total of thirteen sediment samples were collected from a depth of two feet into the bottom sediments at each location. Sediment sample locations were recorded in the field by use of a hand-held global positioning system (GPS) device. Sediment samples were collected by Prism personnel from a small vessel utilizing a soil/sediment recovery sampler. Recovered sediments were described and noted in the field by a Prism environmental professional at each location. After driving the sampler into the sediments the appropriate sample volume at each location was extracted and collected to allow for the subsequent analysis of all required laboratory parameters. All sediment samples collected were containerized and refrigerated, as appropriate, for each laboratory parameter. The samples were delivered to ALS Group USA (ALS) in Holland, Michigan under chain-of-custody procedures for subsequent laboratory analysis.

Laboratory Analysis - General

Laboratory analysis of the sediment samples was performed in accordance with MDEQ-LWMD requirements for dredging projects. Initially, all sediment samples were subjected to sieve grain size analysis using U.S. Standard sieve numbers 10, 40, 100, and 200 to determine the percentage of both sandy and fine material in order to determine whether additional laboratory analysis for other parameters would be necessary.

Typically, should sieve analysis indicate that less than 95% of the sample material is retained on the Number 200 sieve (less than 95% sand), additional laboratory analysis will be required in accordance with Rule 118 of Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act (NREPA), P.A. 451 of 1994, as amended. Per Rule 118, these additional sample parameters consist of metals analysis for arsenic, barium, cadmium, chromium, copper, lead, manganese, mercury, nickel, selenium, silver, and zinc. In addition,

laboratory analysis would also be required for polynuclear aromatic compounds (PNAs) and polychlorinated biphenyls (PCBs).

Should this additional laboratory analysis be necessary, Rule 118 requires that sediment samples be subjected to both totals concentrations and leachable concentrations utilizing either the Toxicity Characteristic Leachate Procedure (TCLP) or the Synthetic Precipitation Leaching Procedure (SPLP).

Laboratory Results - Black River Project Sediment Samples SB-1, SB-2, SB-5, SB-6, SB-7, SB-8 and SB-13.

Sieve Analysis

The results of sieve grain size analysis indicate that the Black River Project sediment samples SB-1, SB-2, SB-5, SB-6, SB-7, SB-8 and SB-13 were all greater than 95% sand. The cumulative percent retained on the number 200 sieve for each sediment sample is presented in the table presented in Appendix B. The laboratory sieve grain analysis results performed by ALS are presented in Appendix D.

Total Metals, Total PNAs, and Total PCB Analysis

Because all seven Black River Project sediment samples were greater than 95% sand as determined by sieve analysis, further laboratory analyses consisting of total metals, total PNAs, and total PCBs was unnecessary and therefore not performed.

Leachate Analysis

Because all seven Black River Project sediment samples were greater than 95% sand as determined by sieve analysis, further laboratory analyses consisting of TCLP or SPLP analysis was unnecessary and therefore not performed.

Laboratory Results - Municipal Marinas Project Sediment Samples SB-3, SB-4, SB-9, SB-10, SB-11, and SB-12.

Sieve Analysis

The results of grain size analysis performed on Municipal Marina sediment samples SB-3, SB-4, SB-9, SB-10, SB-11, and SB-12 varied between 68.4% and 95.35% sand, respectively. The cumulative percent retained on the number 200 sieve for each sediment sample is presented in the tables presented in Appendix C. The laboratory sieve grain analysis results performed by ALS are presented in Appendix D.

Total Metals, Total PNAs, and Total PCB Analysis

Total metals, total PNAs, and total PCB analysis was performed on all six Municipal Marina sediment samples SB-3, SB-4, SB-9, SB-10, SB-11, and SB-12. The laboratory results of these analyses indicate the Statewide Default Background Level (SDBL) was exceeded for one or more metals in all six sediment samples.

Although the detection level for total PNAs was raised above the target detection level of 330 ug/Kg due to matrix interference, the results of laboratory analysis indicate that none of the six sediment samples exhibited any PNA concentrations above health-based criteria as listed in State of Michigan, Table 2 - Environmental Remediation, Part 201 of P.A. 451 of 1994, as amended. In addition, the results of laboratory analysis for total PCBs indicate the absence of PCBs in all six sediment samples.

The tabulated results of laboratory analysis for total metals, total PNAs, and total PCBs are presented in the tables presented in Appendix C. A copy of the laboratory report for total metals, total PNAs, and total PCB analyses is presented in Appendix D.

Leachate Analysis

Based on the laboratory results of total metal analysis, leachate testing using the SPLP was performed on all six Municipal Marina sediment samples. Laboratory results of the SPLP analysis indicate that all laboratory analytical parameters were below detection limits on SB-3, SB-10, SB-11, and SB-12. However, the results of leachate analysis performed on SB-4 and SB-9 indicate exceedances of their respective Dredge Sediment Review Criteria at concentrations of 0.15 mg/L for manganese and 0.019 mg/L for lead, respectively. The

Mr. Paul VandenBosch
18 December 2012
Page 5

tabulated results of laboratory analysis for SPLP metals are presented in the tables presented in Appendix C. A copy of the laboratory report is presented in Appendix D.

Conclusions - Black River Project

The results of sieve analysis performed on the combined set of these seven sediment samples indicate that all seven samples were greater than 95% sand and therefore should be considered appropriate for placement at an unrestricted upland site in accordance with Part 115 of P.A. 451 of 1994, as amended.

Conclusions - Municipal Marinas Project

Based on the results of SPLP laboratory analysis performed on sediment samples SB-4 and SB-9, the proposed dredge material may not be considered suitable for upland placement per Rule 118 without a declaration of restrictive covenant per Part 115.

Should you have any questions or require additional information, please do not hesitate to contact our office at (269) 983-5775.

Sincerely,

Prism Science & Technology, LLC



Eric R. Nelson
Principal Engineer

Appendix A - Figures
Appendix B - Table - Black River Project
Appendix C - Tables - Municipal Marinas Project
Appendix D - Laboratory Analytical Results

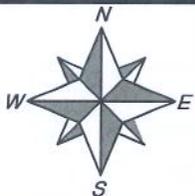
c:\p\120773rpt

Appendix A

Figures



Van Buren County, Township 1 South, Range 17 West, Section 3



SCALE: 1" = 2000'



**FIGURE 1
SITE LOCATION MAP**

PROJECT AREA
SOUTH HAVEN, MICHIGAN

59	REVISION	DATE: 12/7/12	APPROVED: ERN
DATE:	BY:	DRAWN: BDG	JOB No: 12.0772

LEGEND

⊙ SAMPLE LOCATION

09



SCALE: 1" = 1000'



FIGURE 2
OVERALL SAMPLE LOCATION MAP

BLACK RIVER & MUNICIPAL MARINA BASINS
SOUTH HAVEN, MICHIGAN

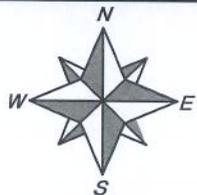
REVISION	DATE: 12/7/12	APPROVED: ERN
DATE:	BY:	DRAWN: BDG
		JOB No: 12.0772

LEGEND

⊙ SAMPLE LOCATION

61

SB-1
SB-8
SB-2
SB-5
SB-6
SB-13
SB-7



SCALE: 1" = 1000'



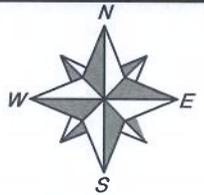
FIGURE 3
BLACK RIVER SAMPLE LOCATION MAP

BLACK RIVER PROJECT
SOUTH HAVEN, MICHIGAN

REVISION		DATE: 12/7/12	APPROVED: ERN
DATE:	BY:	DRAWN: BDG	JOB No: 12.0772

LEGEND

⊙ SAMPLE LOCATION



SCALE: 1" = 250'



FIGURE 4
MUNICIPAL MARINAS SAMPLE LOCATION MAP

NORTH CITY & SOUTH CITY MARINA BASINS
SOUTH HAVEN, MICHIGAN

REVISION	DATE: 12/7/12	APPROVED: ERN
DATE:	BY:	DRAWN: BDG
		JOB No: 12.0772

Appendix B

Table - Black River Project

**Results of Laboratory Analysis Performed on Sediment Samples - Black River Project
South Haven, Michigan**

Prism No. 12.0773

Parameter	Units	TDL	SDBL	GRCC DWP	SB-1	SB-2	SB-5	SB-6	SB-7	SB-8	SB-13
Date Collected					9/27/12	9/27/12	9/27/12	9/27/12	9/27/12	11/19/12	11/19/12
Metals (Date Analyzed)											
Arsenic	mg/Kg	0.1	5.8	4.6	NT	NT	NT	NT	NT	NT	NT
Barium	mg/Kg	1	75	1,300	NT	NT	NT	NT	NT	NT	NT
Cadmium	mg/Kg	0.2	1.2	6	NT	NT	NT	NT	NT	NT	NT
Chromium	mg/Kg	2	18	30	NT	NT	NT	NT	NT	NT	NT
Copper	mg/Kg	1	32	5,800	NT	NT	NT	NT	NT	NT	NT
Lead	mg/Kg	1	21	700	NT	NT	NT	NT	NT	NT	NT
Manganese	mg/Kg	1	440	1,000	NT	NT	NT	NT	NT	NT	NT
Nickel	mg/Kg	1	20	100	NT	NT	NT	NT	NT	NT	NT
Selenium	mg/Kg	0.2	0.41	4	NT	NT	NT	NT	NT	NT	NT
Silver	mg/Kg	0.1	1	4.5	NT	NT	NT	NT	NT	NT	NT
Zinc	mg/Kg	1.0	47	2,400	NT	NT	NT	NT	NT	NT	NT
Mercury	mg/Kg	0.05	0.13	1.7	NT	NT	NT	NT	NT	NT	NT
PNAs (Date Analyzed)											
2-Chloronaphthalene	µg/Kg	330		620,000	NT	NT	NT	NT	NT	NT	NT
2-Methylnaphthalene	µg/Kg	330		57,000	NT	NT	NT	NT	NT	NT	NT
Acenaphthene	µg/Kg	330		300,000	NT	NT	NT	NT	NT	NT	NT
Acenaphthylene	µg/Kg	330		5,900	NT	NT	NT	NT	NT	NT	NT
Anthracene	µg/Kg	330		41,000	NT	NT	NT	NT	NT	NT	NT
Benzo(a)anthracene	µg/Kg	330		NLL	NT	NT	NT	NT	NT	NT	NT
Benzo(a)pyrene	µg/Kg	330		NLL	NT	NT	NT	NT	NT	NT	NT
Benzo(b)fluoranthene	µg/Kg	330		NLL	NT	NT	NT	NT	NT	NT	NT
Benzo(g,h,i)perylene	µg/Kg	330		NLL	NT	NT	NT	NT	NT	NT	NT
Benzo(k)fluoranthene	µg/Kg	330		NLL	NT	NT	NT	NT	NT	NT	NT
Chrysene	µg/Kg	330		NLL	NT	NT	NT	NT	NT	NT	NT
Dibenzo(a,h)anthracene	µg/Kg	330		NLL	NT	NT	NT	NT	NT	NT	NT
Fluoranthene	µg/Kg	330		730,000	NT	NT	NT	NT	NT	NT	NT
Fluorene	µg/Kg	330		390,000	NT	NT	NT	NT	NT	NT	NT
Indeno(1,2,3-cd)pyrene	µg/Kg	330		NLL	NT	NT	NT	NT	NT	NT	NT
Naphthalene	µg/Kg	330		35,000	NT	NT	NT	NT	NT	NT	NT
Phenanthrene	µg/Kg	330		56,000	NT	NT	NT	NT	NT	NT	NT
Pyrene	µg/Kg	330		480,000	NT	NT	NT	NT	NT	NT	NT
PCBs (Date Analyzed)											
Aroclor 1016	µg/Kg	330		NLL	NT	NT	NT	NT	NT	NT	NT
Aroclor 1221	µg/Kg	330		NLL	NT	NT	NT	NT	NT	NT	NT
Aroclor 1232	µg/Kg	330		NLL	NT	NT	NT	NT	NT	NT	NT
Aroclor 1242	µg/Kg	330		NLL	NT	NT	NT	NT	NT	NT	NT
Aroclor 1248	µg/Kg	330		NLL	NT	NT	NT	NT	NT	NT	NT
Aroclor 1254	µg/Kg	330		NLL	NT	NT	NT	NT	NT	NT	NT
Aroclor 1260	µg/Kg	330		NLL	NT	NT	NT	NT	NT	NT	NT
Sieve Analysis (Date Analyzed)					10/4/12	10/4/12	10/4/12	10/4/12	10/4/12	11/27/12	11/27/12
Percent Retained by #200 Sieve					99.507%	99.427%	95.96%	99.554%	99.331%	99.06%	99.67%

Notes:

Samples collected by Prism Science & Technology, LLC and analyzed by ALS Laboratory Group, Holland, Michigan.

SDBL = Statewide Default Background Levels established in Table 2. Soil: Residential Part 201 Generic Cleanup Criteria and Screening Levels

(as set forth in RD Operational Memorandum No. 1).

GRCC DWP = Generic Residential Cleanup Criteria- Drinking Water Protection criteria established in Table 2. Soil: Residential Part 201 Generic Cleanup Criteria and Screening Levels

(as set forth in RD Operational Memorandum No. 1).

TDL = Target detection limit (reporting limits are noted in parentheses if different than the TDL).

NLL = Not Likely to Leach. NA = Not Available. ND = Not Detected. NT = Not Tested.



Appendix C

Tables - Municipal Marinas Project

**Results of Laboratory Analysis Performed on Sediment Samples - Municipal Marinas Project
South Haven, Michigan**

Prism No. 12.0773

Parameter	Units	TDL	SDBL	GRCC DWP	SB-3	SB-4	SB-9	SB-10	SB-11	SB-12
Date Collected					9/27/12	9/27/12	11/19/12	11/19/12	11/19/12	11/19/12
Metals (Date Analyzed)					10/8/12	10/8/12	11/27/12	11/27/12	11/27/12	11/27/12
Arsenic	mg/Kg	0.1	5.8	4.6	13	12	1.7	18	8	4.1
Barium	mg/Kg	1	75	1,300	140	150	29	90	62	38
Cadmium	mg/Kg	0.2	1.2	6	0.46	0.46	0.31	ND(0.33)	ND	ND
Chromium	mg/Kg	2	18	30	16	17	2.8	10	6.6	5.3
Copper	mg/Kg	1	32	5,800	13	14	4.5	8.5	4.9	4.4
Lead	mg/Kg	1	21	700	13	11	54	8.8	3.9	4.2
Manganese	mg/Kg	1	440	1,000	800	850	47	1,100	380	210
Nickel	mg/Kg	1	20	100	16	17	3.9	15	7.1	5.4
Selenium	mg/Kg	0.2	0.41	4	1.1	1.2	ND(0.49)	1.1	0.61	0.6
Silver	mg/Kg	0.1	1	4.5	ND	ND	ND(0.49)	ND(0.83)	ND(0.49)	ND(0.47)
Zinc	mg/Kg	1.0	47	2,400	62	62	44	38	23	21
Mercury	mg/Kg	0.05	0.13	1.7	0.13	0.070	ND	0.063	ND	ND
PNAs (Date Analyzed)					10/11/12	10/11/12	11/21/12	11/21/12	11/21/12	11/22/12
2-Chloronaphthalene	µg/Kg	330		620,000	ND	ND(390)	ND(1,100)	ND(1,800)	ND(1,200)	ND(1,100)
2-Methylnaphthalene	µg/Kg	330		57,000	ND	ND(390)	ND(1,100)	ND(1,800)	ND(1,200)	ND(1,100)
Acenaphthene	µg/Kg	330		300,000	ND	ND	ND(430)	ND(660)	ND(460)	ND(420)
Acenaphthylene	µg/Kg	330		5,900	ND	ND	ND(430)	ND(660)	ND(460)	ND(420)
Anthracene	µg/Kg	330		41,000	ND	ND	ND(430)	ND(660)	ND(460)	ND(420)
Benzo(a)anthracene	µg/Kg	330		NLL	ND	ND	ND(430)	ND(660)	ND(460)	ND(420)
Benzo(a)pyrene	µg/Kg	330		NLL	ND	ND	ND(430)	ND(660)	ND(460)	ND(420)
Benzo(b)fluoranthene	µg/Kg	330		NLL	ND	ND	ND(430)	ND(660)	ND(460)	ND(420)
Benzo(g,h,i)perylene	µg/Kg	330		NLL	ND	ND	ND(430)	ND(660)	ND(460)	ND(420)
Benzo(k)fluoranthene	µg/Kg	330		NLL	ND	ND	ND(430)	ND(660)	ND(460)	ND(420)
Chrysene	µg/Kg	330		NLL	ND	ND	ND(430)	ND(660)	ND(460)	ND(420)
Dibenzo(a,h)anthracene	µg/Kg	330		NLL	ND	ND	ND(430)	ND(660)	ND(460)	ND(420)
Fluoranthene	µg/Kg	330		730,000	ND	ND	ND(430)	ND(660)	ND(460)	ND(420)
Fluorene	µg/Kg	330		390,000	ND	ND	ND(430)	ND(660)	ND(460)	ND(420)
Indeno(1,2,3-cd)pyrene	µg/Kg	330		NLL	ND	ND	ND(430)	ND(660)	ND(460)	ND(420)
Naphthalene	µg/Kg	330		35,000	ND	ND	ND(430)	ND(660)	ND(460)	ND(420)
Phenanthrene	µg/Kg	330		56,000	ND	ND	ND(430)	ND(660)	ND(460)	ND(420)
Pyrene	µg/Kg	330		480,000	ND	ND	ND(430)	ND(660)	ND(460)	ND(420)
PCBs (Date Analyzed)					10/8/12	10/8/12	11/26/12	11/26/12	11/26/12	11/26/12
Aroclor 1016	µg/Kg	330		NLL	ND	ND	ND	ND	ND	ND
Aroclor 1221	µg/Kg	330		NLL	ND	ND	ND	ND	ND	ND
Aroclor 1232	µg/Kg	330		NLL	ND	ND	ND	ND	ND	ND
Aroclor 1242	µg/Kg	330		NLL	ND	ND	ND	ND	ND	ND
Aroclor 1248	µg/Kg	330		NLL	ND	ND	ND	ND	ND	ND
Aroclor 1254	µg/Kg	330		NLL	ND	ND	ND	ND	ND	ND
Aroclor 1260	µg/Kg	330		NLL	ND	ND	ND	ND	ND	ND
Sieve Analysis (Date Analyzed)					10/4/12	10/4/12	11/27/12	11/27/12	11/27/12	11/27/12
Percent Retained by #200 Sieve					68.4%	73.3%	95.35%	87.60%	93.39%	83.50%

Notes:

Samples collected by Prism Science & Technology, LLC and analyzed by ALS Laboratory Group, Holland, Michigan.

SDBL = Statewide Default Background Levels established in Table 2. Soil: Residential Part 201 Generic Cleanup Criteria and Screening Levels

(as set forth in RD Operational Memorandum No. 1).

GRCC DWP = Generic Residential Cleanup Criteria- Drinking Water Protection criteria established in Table 2. Soil: Residential Part 201 Generic Cleanup Criteria and Screening Levels

(as set forth in RD Operational Memorandum No. 1).

TDL = Target detection limit (reporting limits are noted in parentheses if different than the TDL).

NLL = Not Likely to Leach. NA = Not Available. ND = Not Detected. NT = Not Tested.



Results of SPLP Leachate Laboratory Analysis Performed on Sediment Samples - Municipal Marinas Project South Haven, Michigan

Prism No. 12.0773

Parameter	Units	TDL	DSRC	SB-3	SB-4	SB-9	SB-10	SB-11	SB-12
Date Collected				9/27/12	9/27/12	11/19/12	11/19/12	11/19/12	11/19/12
Metals (Date Analyzed)				10/18/12	10/18/12	12/4/12	12/4/12	12/4/12	12/4/12
Arsenic	mg/L	0.001	0.00002	ND	ND	NT	ND	ND	NT
Barium	mg/L	0.01	0.63	ND	ND	NT	ND	NT	NT
Cadmium	mg/L	0.0002	0.00064	ND	ND	NT	NT	NT	NT
Chromium	mg/L	0.005	0.077	ND	ND	NT	NT	NT	NT
Copper	mg/L	0.005	0.018	ND	ND	NT	NT	NT	NT
Lead	mg/L	0.0030	0.004	ND	ND	0.019	NT	NT	NT
Manganese	mg/L	0.005	0.050	ND	0.15	NT	ND	NT	NT
Nickel	mg/L	0.005	0.057	ND	ND	NT	NT	NT	NT
Selenium	mg/L	0.005	0.005	ND	ND	NT	ND	ND	ND
Silver	mg/L	0.0005	0.0001	ND	ND	NT	NT	NT	NT
Zinc	mg/L	0.005	0.081	ND	ND	NT	NT	NT	NT

Notes:

Samples collected by Prism Science & Technology, LLC and analyzed by ALS Laboratory Group of Holland, Michigan.

Shaded cells indicate an exceedance of one or more cleanup criteria.

DSRC = Dredge Sediment Review Criteria Per Part 325 or Part 301.

TDL = Target detection limit unless otherwise noted in parenthesis.

ND = Not Detected.

NT = Not Tested.



May 3, 2010

Mr. Paul VandenBosch
City of South Haven
539 Phoenix Street
South Haven, Michigan 49090-1499

Re: Report of Sediment Sampling and Testing in the Turning Basin near the Dyckman Avenue Bridge ("Project"), City of South Haven, Michigan (the Property)

Dear Mr. VandenBosch:

Phillips Environmental Consulting Services, Inc. (Phillips Environmental Consulting) is pleased to present this report of sediment sampling activities to the City of South Haven. On March 18, 2010 sediment samples were collected from the turning basin near the Dyckman Avenue Bridge on the Black River in the City of South Haven to support an application to dredge the area. This letter describes observations made during the sediment sampling activities and the sediment sampling methods, procedures, and results.

Turning Basin Sediment Sampling

Pursuant to the City's US Army Corp of Engineers (USACE)/Michigan Department of Natural Resources and Environment (MDNRE) Joint Permit Application, six sediment samples were collected for analysis from the proposed dredge area, the minimum number of samples required for the proposed dredge volume of 8,903 cubic yards. The sample locations were randomly selected by placing a grid over the proposed dredge area and selecting the sediment sample locations using a random numbers table. The sediment sample locations are shown on the attached figure. After trying various methods of sample collection, the samples were collected using a telescoping sampler with a cleaned plastic cup of the upper two feet of sediments, consistent with the planned dredging depth. Soil samples collected for analysis of metals, PCBs, and PNAs were retained in laboratory provided glass jars. All of the collected samples were labeled according to location, date and time of acquisition, and then stored in a chilled environment (one to four degrees Centigrade) pending transfer under chain of custody to the analytical laboratory.

The sediments consisted of a greenish black saturated organic muck with silt and very little fine sand. Sediment sample 4,7 consisted of a little gravel near the surface. Nevertheless, the sediments obviously contain more than 5% fines. Accordingly, the sediments were not submitted for sieve analysis.

Sediment Testing Results

Sediment samples from each location were subjected to analysis of 12 metals (total arsenic, barium, cadmium, chromium, copper, lead, manganese, mercury, nickel, selenium, silver and zinc), polychlorinated biphenyls (PCBs), and polynuclear aromatic hydrocarbons (PNAs). The laboratory analytical report is attached.

It should be noted that the Part 115, Solid Waste Management Act Administrative rules require comparison of criteria to that established under an old act known as Act 307 and the criteria are referred to as Type B criteria. Criteria established under Part 201 of the Natural Resources and Environmental Protection Act, Act 451 of 1994, as amended, have not been adopted for use under Part 115. Therefore, the results are compared to the old Act 307 Type B criteria when looking at dredge material. The criteria for unrestricted upland disposal is the most restrictive of the Type B health based value, the GSI value, and the aesthetic value.

PCBs were not detected in any of the sediment samples to method detection limits. Only one of the six samples indicated the presence of a PNA compound. This was fluoranthene detected in Sediment Sample 3,3. Fluoranthene was detected at a concentration of 380 ug/kg, just slightly above the detection limit of 330 ug/kg and much less than 20x's its health-based drinking water value of 17,000 ug/kg. These data indicate that PCBs and PNAs are not present at concentrations of concern in the sediments panned to be dredged.

Table 1 provides a summary of metal concentrations in these sediments. Several metals were detected at concentrations exceeding State of Michigan Default Background concentrations. These are arsenic, barium, chromium, copper, lead, manganese, selenium and zinc. At least one sediment sample exceeded it's 20x's Type B groundwater value for each of these metals. In addition, the arsenic concentrations exceeded its direct contact criterion, including its 95% upper confidence limit (UCL) value. This exceedance of direct contact criteria does not prohibit disposal at an upland site, but clean cover (a cap) would need to be placed over the sediments and a Restrictive Covenant recorded on the deed for the property to ensure that the sediments are not disturbed without MDNRE approval and a plan to safely and properly address those disturbed sediments.

Based on evaluation of the data, those above listed metals exceeding State of Michigan Type A Default Background Criteria and Type B 20's Drinking Water criteria were analyzed in a leachate of the sample using the Synthetic Precipitation Leaching Procedure (SPLP). These results are shown on Table 1 and the Laboratory Analytical Report is attached.

Neither selenium nor zinc was detected to method detection limits in any of the SPLP samples, and copper and barium, where detected, were detected at concentrations below Type B criteria. Arsenic and lead were not detected in any of the samples, except the Sediment Sample 4,7. The arsenic concentration in this sample exceeded its Type B drinking water criterion which defaults to the detection limit (the arsenic concentration



does not exceed the Part 201 and U.S. EPA drinking water criterion of 10 ug/L). The lead concentration in this sample also exceeded its Type B drinking water criterion of 4.0 ug/L (but does not exceed its State of Michigan Part 201 Action Level of 15 ug/L, which may be used for drinking water use with a notice filed on the deed for the Property). Manganese exceeds its Type B health-based drinking water criterion in this one sample, Sediment Sample 4,7 (but does not exceed its State of Michigan Part 201 health-based drinking water criterion of 860 ug/L). Manganese also exceeds its U.S. EPA Secondary Maximum Contaminant level of 50 ug/L, an aesthetic criterion, in this sample (Sediment Sample 4,7) and also in Sediment Samples 3,3 and 6,9.

Based on these data, arsenic, lead and manganese exceed its most restrictive Type B health-based, aesthetic or GSI value. Therefore, the sediments cannot be placed on an upland property, with a cap and Restrictive Covenant, unless the property is adjacent to the river, allowing the contaminants to vent back to the river from where they came from. There can not be any properties between the disposal area and the river that may have its groundwater impacted. The other option is to dispose of the sediments at a licensed Type II landfill.

Please note that the data do not indicate exceedances of Part 201 criteria that could not be addressed by a restrictive covenant, with the exception of manganese exceeding its aesthetic criterion. For the third time efforts are being made to adopt the Part 201 criteria in the Part 115 Solid Waste Management rules. Rule changes may also allow site specific modeling to be completed that might be used for manganese to show that under the conditions of the proposed disposal, unacceptable aesthetic exposures would not occur (i.e., using depth to groundwater and distance to the downgradient property boundary having a Restrictive Covenant preventing the placement of drinking water wells). The City of South Haven may wish to consider talking to local representatives about the positive impact these legislative changes might have.

We have appreciated the opportunity to assist the City of South Haven in this regard. Please do not hesitate to contact me at (269) 624-4211 if you have any questions or if we can be of further assistance.

Very truly yours,

PHILLIPS ENVIRONMENTAL CONSULTING SERVICES, INC.

Lisa K. J. Phillips

Lisa K. J. Phillips, CGWP, CP
Hydrogeologist/Sr. Project Manager

Enclosures: Figure – Sediment Sample Locations
Table 1 – Summary of Metal Concentrations in Sediments
Laboratory Analytical Reports



Turning Basin & Dyckman Ave Bridge Approximate Dredging Location



Applicant: City of South Haven, MI
Date: 10/27/2009

Table 1
Summary of Metal Concentrations in Sediments
Turning Basin at Dyckman Avenue
City of South Haven, Michigan
Project No. 66-1311-10

	Arsenic, Total	Arsenic SPLP	Barium, Total	Barium, SPLP	Chromium, Total	Chromium, SPLP	Copper, Total	Copper, SPLP	Lead, Total	Lead, SPLP	Manganese, Total	Manganese, SPLP	Selenium, Total	Selenium, SPLP	Zinc, Total	Zinc, SPLP
UNITS	mg/kg	ug/L	mg/kg	ug/L	mg/kg	ug/L	mg/kg	ug/L	mg/kg	ug/L	mg/kg	ug/L	mg/kg	ug/L	mg/kg	ug/L
Aesthetic Drinking Water Value (C)		NA		NA		NA		1,000		NA		50		NA		5,000
Health-based Drinking Water Value (C)		0.02		2,400		37,000		1,300		4		170		35		2,300
GSI Value (C)		11		630		77		18		6.6		D		5		81
Site Specific GSI Value (C)(D)				960		120		17		14		1,000				220
Statewide Default Background	5.8		75		18		32		21		440		0.41		47	
Site Specific Background																
20X GSI Value (C) (D)	0.22		12.6/630		1.5/350,000		0.37/980		0.13/2,500		D/20		0.1		1.6/220	
Direct Contact	0.72 C		18,000		390,000		9,800		400		1,200		1,300		86,000	
20X Drinking Water Value (C)	0.0004		48		740		20		0.08		1.0		0.700		46	
Soil Water Partition Drinking Water Protection Value (C)			140		800,000				>400						65	
Sediment 3,3 (0-2')	17	<5	170	7	29	<10	4.6	4.6	26	<3	640	110	0.82	<5.0	130	<50
Sediment 4,7 (0-2')	19	9.2 ⁽¹⁾	170	120	25	11	28	14	23	6.5 ⁽²⁾	910	760 ⁽¹⁾	0.89	<5.0	120	<50
Sediment 6,9 (0-2')	15	<5	160	<100	25	<10	30	10	23	<3	720	130	0.8	<5.0	120	<50
Sediment 7,7 (0-2')	8.6	<5	89	<100	15	<10	14	8.8	11	<3	490	<50	0.56	<5.0	63	<50
Sediment 9,7 (0-2')	16	<5	150	<100	26	<10	37	12	23	<3	610	<50	1.0	<5.0	110	<50
Sediment 4,11 (0-2')	14	<5	130	<100	22	<10	27	4	19	<3	650	<50	0.83	<5.0	99	<50
95% UCL	17.9	6.9	170.5		27.6		40		25.2	4.6	785	419	0.94		127	

Note: All sediment samples collected on March 18, 2010 by Phillips Environmental Consulting Services, Inc. and analyzed by Trace Analytical Laboratories, Inc.

Cadmium, mercury, nickel, PNAs and PCBs were also analyzed and were not detected at concentrations of concern.

C - Statewide Default Background or a Site-specific Background concentration may be substituted if higher than this criterion.

D - Criterion is dependent on the hardness of the receiving water body. Preliminary values in italic assume a hardness of 210mg/L.

(1) Concentration is below the State of Michigan Part 201 Health-Based Drinking Water value.

(2) Concentration is below the State of Michigan Part 201 action level of 15 ug/L which may be used for drinking water use with a notice filed on the deed.

March 8, 2013

TO: Brian Dissette

FR: Paul VandenBosch

RE: Black River Dredging, Bid Documents and Project Oversight Proposal

The City of South Haven recently received funding to accomplish dredging of Municipal Marinas and the main channel of the Black River. The attached proposal for bid documents and project oversight will get the dredging of the main channel of the Black River started.

The proposal includes dredging from the mouth of the Black River at the pierheads to the City Limits near Blue Star Highway. The intent is to dredge the Federal Channel to a depth of 12 feet below Low Water Datum. The Upper Harbor, upstream from the Dyckman Bridge, would be dredged to a level of 5.85 feet below low water datum. This would include dredging slips at Black River Park.

Our goal is to complete the Black River dredging project no later than June 30. We do not yet have a dredging permit in hand, but hope to be receive the permit in April. The permit would allow hydraulic dredging using beach replenishment to dispose of the spoil.

Our initial cost estimate for the dredging work is \$208,800 for the Federal Channel from the Dyckman Bridge to the Pierheads, and \$148,000 for the Upper Harbor from Dyckman Bridge to the City Limits near Blue Star Highway. The bid would likely be issued to include both sections for a total cost of \$356,800.

The work included in this proposal is Not to Exceed \$29,400.

Staff Recommendation:

Approve the proposal for Construction Documents, Bidding Services, and Dredging Project Oversight for the Upper and Lower Black River.



Engineering
 Architecture
 Land Surveying
 Marina/Waterfront
 Community Planning
 Landscape Architecture
 Development Services

March 8, 2013

Paul VandenBosch
 City of South Haven
 539 Phoenix Street
 South Haven, MI 49090

RE: Proposal for Construction Documents, Bidding Services, and Dredging Project Oversight
 Upper & Lower Black River, South Haven, MI

Dear Mr. VandenBosch,

At the request of the City of South Haven, Abonmarche is pleased to present the following proposal for preparation of construction documents, bidding services, and dredging project oversight for the upper and lower stretches of the Black River within South Haven, MI. We understand that maintenance dredging will be performed within these areas pending permit issuance by the MDEQ/USACE. This work is being completed to provide safe navigational depths for the users of these facilities. The following outlines the scope of work and associated costs to prepare construction documents, advertise, provide construction administration, and project oversight.

Abonmarche will prepare the necessary detail drawings and specifications for bidding / construction purposes. These drawings and specifications will include detailed information for dredging, dewatering, and disposal of the dredged sediments.

Upon completion of the construction documents, Abonmarche will assist the City with bidding services. These services will include, advertising for bids (advertising costs to be borne by the City), answering contractor inquires/questions, bid review and tabulation, and recommendation for award.

Once awarded, Abonmarche will assist with project oversight which will include pre- and post-bathymetric surveys to determine actual dredge volumes, site visits to check progress, construction administration, project oversight, and closeout.

The project costs presented below reflects those charges attributed to preparing plans & specifications, bidding, award, construction administration, and project closeout. It is fully expected that the scope of work described herein can be accomplished for a time and materials cost. Only those costs actually incurred will be charged. However, project costs will not exceed the amounts indicated without your prior approval.

95 West Main Street
 Benton Harbor, MI 49022
 269.927.2295

361 First Street
 Manistee, MI 49660
 231.723.1198

503 Quaker Street
 South Haven, MI 49090
 269.637.1293

750 Lincoln Way East
 South Bend, IN 46601
 574.232.8700

341 Airport North Office Park
 Fort Wayne, IN 46825
 260.497.8823

www.abonmarche.com



Task #1 - Bidding Documents

Preparation of plans and specifications for project bidding: \$5,500

Task #2 - Advertisement & Award

Advertisement, answering contractor inquires/questions, issuing addenda (if necessary), attendance at the bid opening, bid review, and recommendation of award: \$3,500

Task #3 - Pre-Bathymetric Survey

Initial survey work to establish pre-dredge conditions: N/A*
**This work was authorized and approved under a separate proposal dated January 18, 2013. If additional area in the lower section is desired, we will need to renegotiate this previously agreed upon fee.*

Task #4 - Construction Administration & Project Oversight

Weekly site visits, processing payment applications, issuing contract modifications (if any), dredge volume calculations and project closeout: \$6,000

Task #5 - Post-Bathymetric Survey

Post dredge survey work to establish as-built conditions: \$14,400*
**If additional area in the lower section is desired, we will need to renegotiate this fee.*

Not to Exceed Cost \$29,400

These costs do not include advertisement publication fees, obtaining any additional permits required as part of this work, nor any other services not specifically mentioned within this proposal. These additional services will be performed on a time and material basis at our standard billing rates and will only be undertaken with prior approval.



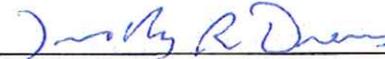
Your signature in the space provided will authorize us to commence with work on the project. Should you have any questions or comments regarding this proposal, please feel free to contact me at our office.

Sincerely,

ABONMARCHE



Corey A. Kadow, P.E.
Senior Project Engineer



Timothy R. Drews, P.E.
Vice President

CAK

cc: Christopher J. Cook, P.E., Abonmarche

APPROVED BY:

DATE:



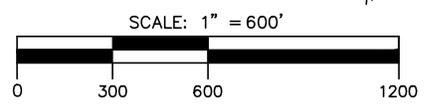


LAKE MICHIGAN

LOWER BLACK RIVER CORRIDOR
DREDGE TO -12 LWD

DREDGE AREA (TYP.)
565.00 (-12 LWD WITH -0.5 OVERDREDGE)

DREDGE VOLUME = 4,220 CYDS



95 West Main Street
Benton Harbor, MI 49022
T 269.927.2295
F 269.927.1017

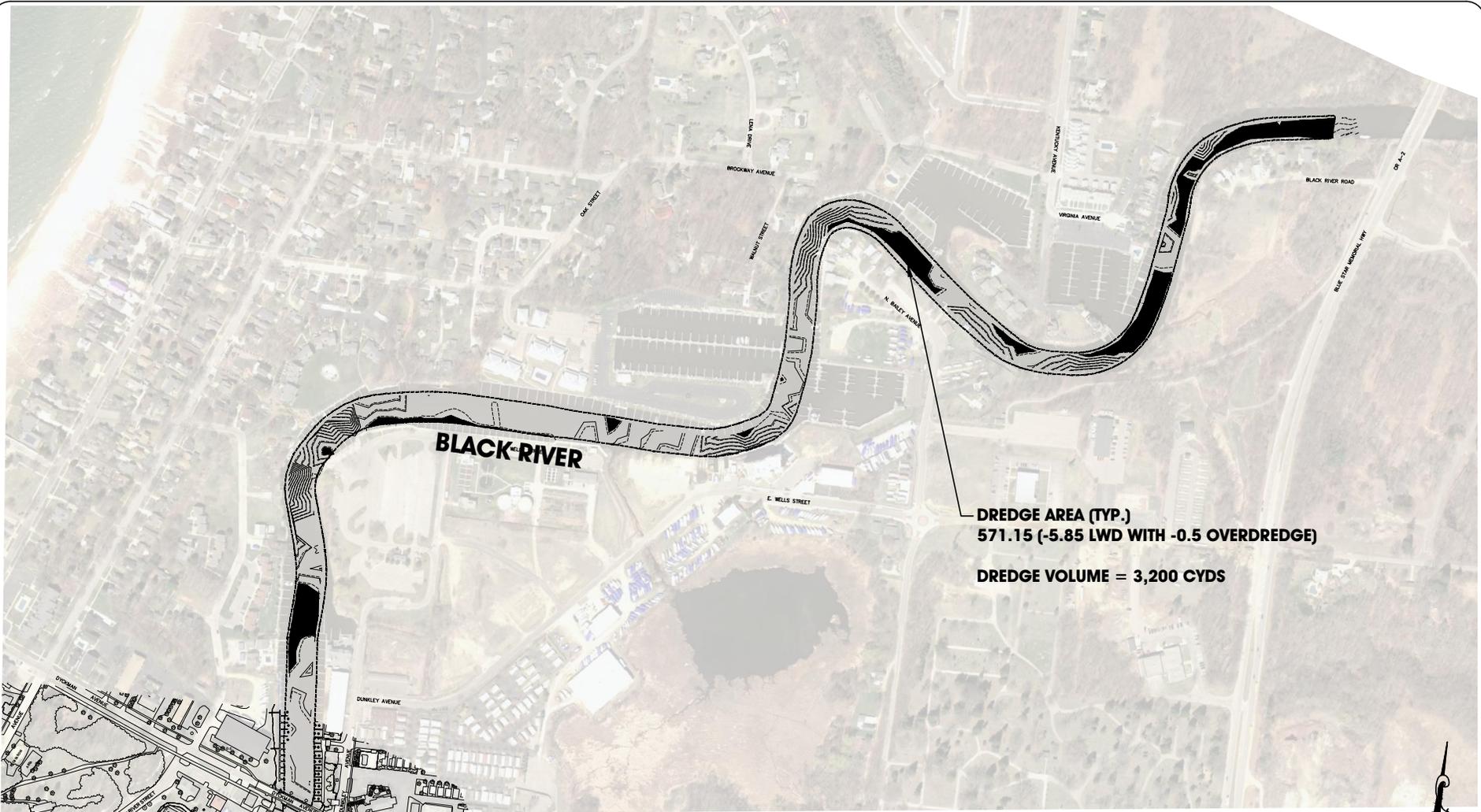
Manistee, MI
South Haven, MI
South Bend, IN
Fort Wayne, IN

Engineering
Architecture
Land Surveying
Marina/Waterfront
Community Planning
Landscape Architecture
Development Services

PREPARED FOR:
CITY OF SOUTH HAVEN
MARINA MAINTENANCE DREDGING

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SCALE: **1"=600'**
JOB #: **12-0712**
SHEET **1** OF **1**



BLACK RIVER

DREDGE AREA (TYP.)
571.15 (-5.85 LWD WITH -0.5 OVERDREDGE)
DREDGE VOLUME = 3,200 CYDS

UPPER BLACK RIVER CORRIDOR
DREDGE TO -5.85 LWD

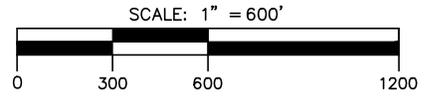


95 West Main Street
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 T 269.927.2295
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Manistee, MI
 South Haven, MI
 South Bend, IN
 Fort Wayne, IN

Engineering
 Architecture
 Land Surveying
 Marina/Waterfront
 Community Planning
 Landscape Architecture
 Development Services

PREPARED FOR:
CITY OF SOUTH HAVEN
MARINA MAINTENANCE DREDGING
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SCALE:	1"=600'
JOB #:	12-0712
SHEET	1 OF 1

