CIC Update



2014-2019 Cap. CapEx Request

2015 2014 2016 2017 2018 2019 2020 \$200.000 \$200.000 \$200,000 \$200.000 \$200,000 Pier, Berth, and Channel Improvements \$200,000 \$1,200,000 *****Grant & Aid***** \$800,000 \$800,000 \$800,000 \$800,000 \$800,000 \$800,000 \$4,800,000 \$250,000 \$100,000 \$350,000 Terminal Resurfacing \$1,500,000 Rail Track & Service Upgrades \$500,000 \$500,000 \$500,000 \$150,000 \$150,000 **Dockwall & Breakwater Rehabilitation** \$150,000 \$150,000 \$150,000 \$150,000 \$900,000 \$100,000 \$100,000 \$100,000 \$300,000 Port Facilities Systems \$150.000 \$150,000 \$150,000 \$150.000 Analyze and Upgrade Sewer System \$150.000 \$150.000 \$900,000 **Roadway Paving/Service Lanes** \$100,000 \$100,000 Demolish & Rehab Facilities \$100,000 \$100,000 \$50,000 \$100,000 \$100,000 \$100.000 \$100,000 \$100,000 \$550,000 Port Security \$4,000,000 \$4,000,000 New Crane **City Heavy Lift Dock** \$520,000 \$520,000 ****Grant & Aid***** \$2,080,000 \$2,080,000 \$100,000 **Energy Initiatives** \$100,000 \$200,000 Rehab Electrical Svc. So. Harbor Tract \$100.000 \$100,000 Secured Ferry Terminal Parking \$100,000 \$100,000 \$150,000 \$50,000 Harbor Maintenance Dredging \$200,000 Grant & Aid***** \$0 Transload Facility \$350,000 \$350,000 *Grant & Aid***** \$1,400,000 \$1,400,000 \$6,000,000 \$4,950,000 \$2,200,000 \$3,150,000 \$1,850,000 \$1,500,000 \$19,650,000 **Total Cost** \$800,000 \$2,880,000 \$800,000 \$2,200,000 **Total Grant/Aid** \$800,000 \$800,000 \$8,280,000 \$5,200,000 \$2,070,000 \$1,400,000 \$950,000 \$1,050,000 \$700,000 \$11,370,000 **Total City Funding**

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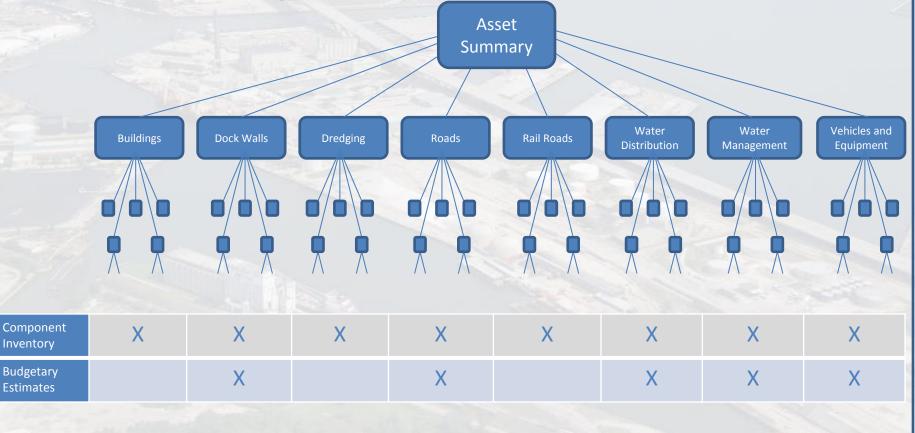
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Project Analysis

Expanded organizational network developed for asset monitoring:

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Buildings

	Building	SF	CRV	Age
х	Advanced Boiler & Tank Building	24,500	\$2,368,966	63
х	Bradford Building #1	15,000	\$711,175	18
х	Bradford Building #2	15,000	\$711,175	18
х	Coil Warehouse Building	50,000	\$2,241,350	15
x	Dock Office Building	9,692	\$995,714	61
x	Ferry Terminal Building	7,200	\$1,695,260	9
x	General Cargo Terminal #2	51,638	\$2,523,866	46
х	General Cargo Terminal #3	78,711	\$4,692,445	52
x	General Cargo Termianl #3A	10,000	\$507,475	48
х	General Cargo Terminal #4	78,711	\$4,692,445	52
х	General Cargo Terminal #4A	29,000	\$1,339,793	43
	Gillen	Newly Acquired		1
х	IMC Salt Office	2,016	\$208,296	113
х	Milwaukee Bulk Terminal	15,546	\$1,247,502	113
х	North American Salt Company	8,208	\$712,026	58
	Port Administration Building	12,830	\$2,256,795	21
/	Port Maintenance Building	4,000	\$272,253	13
х	Sea Scout Building #1	753	\$25,012	56
х	Sea Scout Building #2	1,920	\$47,831	51
х	Seaman's Club Building	570	\$75,534	63
х	Spraypainting/Sandblasting Shed	4,000	\$213,681	113
	Total	419,295	27,538,594	49



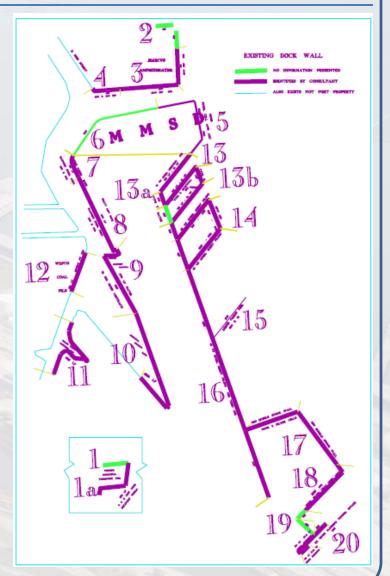






Dock Walls

- 20 dock wall sections
 36,303 linear feet
 Various ages
- Need condition assessment
 Average replacement cost
- Does not include break walls
 - US Army Corp of Eng.



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Dock Walls



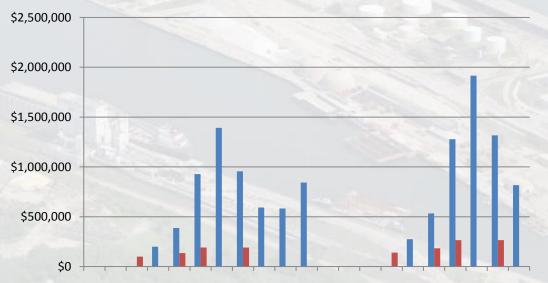
Wall Number	Wall Name	Age	Linear Feet	Age
1	Former Muni Passenger Pier		570	
1a	Discovery World	Newer	1,000	
2	Summerfest Grounds		700	
3	Marcus Amphitheater	1956	1,860	50
4	E. Erie Street	1934, 1949	397	
5	MMSD Expansion	1984	1,860	
6	MMSD Original	1931?	2,050	48?
7	Bulk Cargo Dock	1980, 1990	465	
8	Heavy Lift Dock	1919, 1922, 1938, 1948, 1958, 2010	1,670	
9	Former Carferry Terminal	1929, 2010	1,700	
10	Muni Mooring Basin	1917, 1932, 1947, 1959	2,800	
11	Former Grand Trunk Slip		1,950	
12	Greenfield Ave Dock (WEPCO)	1984 and??	826	60
13	Pier 1 and Slip 1	1932	2,891	56
13a	West end of Slip 1	1932	295	56
13b	East end of Pier 1	1932	347	56
14	Pier 2	1958	2,609	63
15	Liquid Cargo Pier	1950	1,054	
16	Majority of E'ly Port Property	1932, 1938	5,733	50
17	N. & E. Sides of Dredging Fill Area	1975	2,350	
18	Lake Express Ferry Dock	1975	1,125	
19	Area N. of E. Russell Ave	1938 ?	1,040	
20	K.k. River Flushing Tunnel Intake	1939	1,011	29
Abandoned		Tota	36,303	
6a	Under MMSD Expansion	1931	990*	48

Dock Walls

- Preliminary strategy
 - Plan routine inspections every 12 years
 - Budget for replacement of up to five percent of walls every 12 years

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Inspection and Repairs Dock Walls



Dredging

Bathymetric survey (topography of river/lake/Port bed)

Including environmental analysis





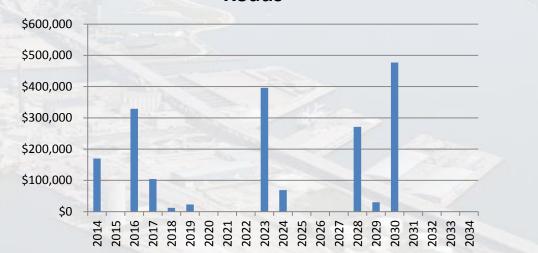
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http://www.dredgingtoday.com/

Roads

	Quantity	Units	2014 Unit Cost	2014 Capital Cost	20 Year Total Cost	UL	RUL	First Year Funds Requested
Asphalt Roads								
Car Ferry Drive, Partial Replacement	2,870	SY	\$36.00	\$103,320	\$103,000	20	0	2014
Fire Lane, Phased Replacement	300	SY	\$36.00	\$10,800	\$28,000	20	4	2018
Harbor Drive (South), Pavement								
Overlay	2,665	SY	\$36.00	\$95,940	\$104,000	20	3	2017
Harbor Service Road, Pavement Overlay	4,881	SY	\$36.00	\$175,720	\$255,000	20	14	2028
Michigan Street, Pavement Overlay	1,470	SY	\$36.00	\$52,920	\$69,000	20	10	2024
Service Drive	1,853	SY	\$36.00	\$66,720	\$67,000	20	0	2014
Terminal #1, Phased Replacement	7,316	SY	\$36.00	\$263,387	\$1,016,000	20	2	2016
Tota	21,356	SY						
Concrete Pavement								
High-Wide Load Route, Partial	2,500	SF	\$8.00	\$20,000	\$53,000	50	5	2019
Terminal #1, Partial Replacement	6,000	SF	\$8.00	\$48,000	\$186,000	50	2	2016
Tota	l 8,500	SF						
			Total 20 Yea	ar Cost	\$1,881,000			

Roads









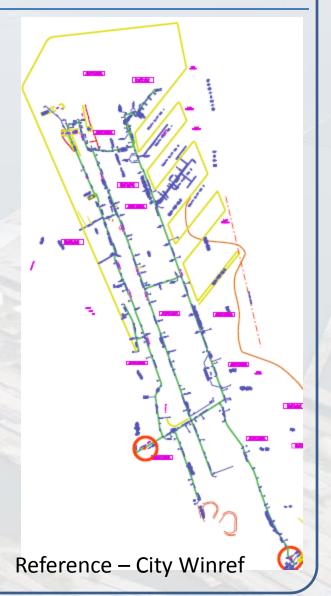


Water Distribution



30,675 linear feet of mainsCast Iron and Ductile Iron

Age	Sections	LF	Useful Life	CRV	Z
67-140	8	4,931	150	\$1,134,130	
49-67	19	18,466	75	\$4,056,740	
39-48	6	5,275	85	\$1,213,250	
0-39	4	2,003	100	\$460,690	
			Total	\$6.864.810	

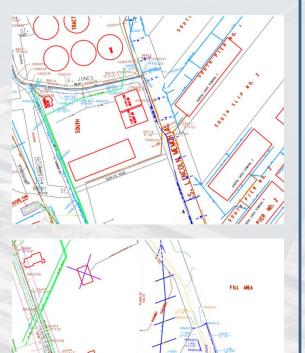


Sewers

Four owners:

• Port, Private, MMSD, State

Sanitary Mains		LF	COSTS
Port (Harbor Commission)		17,070	\$3,840,750
MMSD		13,355	\$5,411,250
Private		6,045	\$1,360,125
1	Total	36,470	
Storm Mains			COSTS
Port (Harbor Commission)		13,555	\$4,142,250
MMSD		3,410	\$1,647,250
Private		3,125	\$726,375
State of Wisconsin		9,130	\$2,245,500
	Total	29,220	
Grand Total		65,690	\$19,373,500



Reference - City Winref

Vehicles and Equipment

Heavy Lifting Equipment

Crane 9 Replacement (1952)	1	EA
Crane 9, Rehabilitation	1	EA
Crane 15, Stiff Leg, Theillaker, Replacement (1969)	1	EA
Crane 15, Stiff Leg, Theillaker, Rehabilitation	1	EA
Crane 16, Lima Crawler Replacement (1971)	1	EA
Crane 16, Lima Crawler, Rehabilition	1	EA
Crane 17, P&H Crawler, Replacement (1979)	1	EA
Crane 17, P&H Crawler, Rehabilition	1	EA
Crane 18, Bucyrus Truck, Replacement(1980)	1	EA
Crane 18, Bucyrus Truck, Rehabilition	1	EA
Crane 19, Manitowoc, Replacement (1992)	1	EA
Crane 19, Manitowoc, Rehabilitation (1992)	1	EA
Material Handling Equipment		
Fork Lift 58000lb (1995)	2	EA
Fork Lift, Kalmar LMV (1996)	2	EA
Rebuild Forklift (Heavy)	4	EA
Forklift Light (2003)	1	EA
HI-LIFT Terex TA64-DFJ (2006)	1	EA
Tractor (1986)	1	EA
Tractor (2009)	1	EA
Skid Steer, New Holland (2009)	1	EA





Vehicles and Equipment

Trucks

Cars

Dodge Dump 2007	1	EA
Rebuild Engine	1	EA
Pickup 4X4 8600lb 1996	1	EA
GMC 1999	1	EA
Ford 2000	1	EA
Truck and Van 2003	1	EA
GMC Sierra Pickup 2009	1	EA
Dodge Caravan 2010	1	EA



cars		
Ford Focus 2007	1	EA
Marine Vessels		
Harbor Seagull	1	EA
Refurbish Tug	1	EA
Joey D	1	EA

Project Analysis

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Remaining Step:

- Refine the inventory of assets in each category
- Continue development of budgetary estimates/report documents
- Continue to update existing files





http://www.boatnerd.com/news/archive/12-02.htm