

Municipal Bond Schedules

1. Roads
2. DDA
3. City Hall
4. SHUVA Sewer System

Roads

**BOND DEBT SERVICE**

Gibraltar, Michigan  
Series 2014 Bonds (1.5% Growth)  
1.5% Growth in Tax Base

Period Ending	Principal	Coupon	Interest	Debt Service	Annual Debt Service
09/01/2014	120,000	2.000%	17,902.95	137,902.95	
03/01/2015			30,706.25	30,706.25	
06/30/2015					168,609.20
09/01/2015	115,000	2.000%	30,706.25	145,706.25	
03/01/2016			29,556.25	29,556.25	
06/30/2016					175,262.50
09/01/2016	120,000	2.000%	29,556.25	149,556.25	
03/01/2017			28,356.25	28,356.25	
06/30/2017					177,912.50
09/01/2017	125,000	2.000%	28,356.25	153,356.25	
03/01/2018			27,106.25	27,106.25	
06/30/2018					180,462.50
09/01/2018	130,000	2.000%	27,106.25	157,106.25	
03/01/2019			25,806.25	25,806.25	
06/30/2019					182,912.50
09/01/2019	140,000	2.000%	25,806.25	165,806.25	
03/01/2020			24,406.25	24,406.25	
06/30/2020					190,212.50
09/01/2020	150,000	2.000%	24,406.25	174,406.25	
03/01/2021			22,906.25	22,906.25	
06/30/2021					197,312.50
09/01/2021	155,000	3.000%	22,906.25	177,906.25	
03/01/2022			20,581.25	20,581.25	
06/30/2022					198,487.50
09/01/2022	165,000	3.000%	20,581.25	185,581.25	
03/01/2023			18,106.25	18,106.25	
06/30/2023					203,687.50
09/01/2023	175,000	3.000%	18,106.25	193,106.25	
03/01/2024			15,481.25	15,481.25	
06/30/2024					208,587.50
09/01/2024	185,000	3.000%	15,481.25	200,481.25	
03/01/2025			12,706.25	12,706.25	
06/30/2025					213,187.50
09/01/2025	190,000	3.000%	12,706.25	202,706.25	
03/01/2026			9,856.25	9,856.25	
06/30/2026					212,562.50
09/01/2026	200,000	3.000%	9,856.25	209,856.25	
03/01/2027			6,856.25	6,856.25	
06/30/2027					216,712.50
09/01/2027	210,000	3.125%	6,856.25	216,856.25	
03/01/2028			3,575.00	3,575.00	
06/30/2028					220,431.25
09/01/2028	220,000	3.250%	3,575.00	223,575.00	
06/30/2029					223,575.00
	2,400,000		569,915.45	2,969,915.45	2,969,915.45



City of Gibraltar, Michigan  
 General Obligation Unlimited Tax  
 Refunding Bonds  
 Schedule of Old Debt Service, New Debt Service and Savings

City Hall

Old Bonds				City Payments on Old Bonds-Post Refunding				City Payments New Bonds				Savings after City Debt Service Payments		
FY	Month	Principal	Coupon	Interest	Annual Total	FY	Ending	Month	Principal	Coupon	Interest	Annual Total	Annual Old Bonds	Annual New Bonds
2012	November	\$65,000	3.75%	\$7471.88	\$74,718.75	2012	November	November	\$96,000	2.00%	\$32,475.49	\$128,475.49	\$178,725.00	\$180,950.49
2013	May	65,000	3.75%	56,253.13	121,253.13	2013	May	November	25,000	2.00%	38,412.50	63,412.50	178,725.00	180,950.49
2014	May	70,000	3.70%	55,024.38	125,024.38	2014	May	November	95,000	2.00%	39,162.50	134,162.50	178,725.00	180,950.49
2015	May	75,000	3.80%	58,739.38	133,739.38	2015	May	November	100,000	2.00%	37,212.50	171,212.50	178,725.00	180,950.49
2016	May	75,000	3.90%	52,344.28	127,344.28	2016	May	November	100,000	2.00%	36,212.50	166,212.50	178,725.00	180,950.49
2017	May	80,000	4.00%	50,851.83	130,851.83	2017	May	November	105,000	2.00%	35,212.50	161,212.50	178,725.00	180,950.49
2018	May	85,000	4.10%	49,251.83	134,251.83	2018	May	November	110,000	2.13%	33,112.50	158,112.50	178,725.00	180,950.49
2019	May	90,000	4.25%	47,509.38	137,509.38	2019	May	November	115,000	2.13%	31,943.75	155,943.75	178,725.00	180,950.49
2020	May	95,000	4.75%	45,371.83	140,371.83	2020	May	November	120,000	2.50%	29,284.38	152,284.38	178,725.00	180,950.49
2021	May	100,000	4.75%	43,115.63	143,115.63	2021	May	November	120,000	2.50%	28,284.38	151,284.38	178,725.00	180,950.49
2022	May	105,000	4.75%	40,740.63	145,740.63	2022	May	November	125,000	2.50%	26,984.38	149,984.38	178,725.00	180,950.49
2023	May	110,000	4.75%	38,246.38	148,246.38	2023	May	November	130,000	3.00%	24,094.38	148,094.38	178,725.00	180,950.49
2024	May	120,000	4.50%	35,634.38	155,634.38	2024	May	November	135,000	3.00%	23,094.38	147,094.38	178,725.00	180,950.49
2025	May	125,000	4.50%	32,934.38	162,934.38	2025	May	November	140,000	3.00%	22,094.38	146,094.38	178,725.00	180,950.49
2026	May	135,000	4.50%	30,121.88	170,121.88	2026	May	November	145,000	3.20%	19,909.38	145,909.38	178,725.00	180,950.49
2027	May	140,000	4.50%	27,084.38	177,084.38	2027	May	November	150,000	3.20%	17,589.38	145,589.38	178,725.00	180,950.49
2028	May	150,000	4.63%	23,934.38	183,934.38	2028	May	November	155,000	3.20%	15,109.38	145,109.38	178,725.00	180,950.49
2029	May	160,000	4.63%	20,465.63	190,465.63	2029	May	November	160,000	3.38%	12,409.38	144,409.38	178,725.00	180,950.49
2030	May	165,000	4.63%	16,755.63	196,755.63	2030	May	November	165,000	3.38%	9,625.00	144,625.00	178,725.00	180,950.49
2031	May	175,000	4.63%	12,950.00	202,950.00	2031	May	November	175,000	3.50%	6,562.50	144,562.50	178,725.00	180,950.49
2032	May	185,000	4.63%	8,903.13	208,903.13	2032	May	November	180,000	3.50%	3,412.50	144,412.50	178,725.00	180,950.49
2033	May	200,000	4.63%	4,625.00	213,625.00	2033	May	November	195,000	3.50%	3,412.50	144,412.50	178,725.00	180,950.49
2034	May	210,000	4.63%	4,625.00	218,250.00	2034	May	November	200,000	3.50%	3,412.50	144,412.50	178,725.00	180,950.49
Total \$1,549,168.13      \$4,119,168.13      \$2,726,000.00      \$1,015,822.50      \$3,810,210.49      \$4,119,168.13      \$2,726,000.00      \$1,015,822.50      \$3,810,210.49														

Revised 12/12/12

12/12/12

**SOUTH HURON VALLEY UTILITY AUTHORITY  
1998 SEWER SYSTEM PLANT EXPANSION BONDS**

**ALLOCATION OF DEBT SERVICE REQUIREMENTS**

Allocation of Debt Service Payments													
Total Payments on 1998 SRF Bonds - 516'-01													
Principal Due Oct 1	Interest Rate	Interest Due Apr 1	Interest Due Oct 1	Total P&I	City of Flat Rock 12.292%	City of Gibraltar 4.275%	City of Romulus 0.000%	City of Woodhaven 6.131%	Charter Twp of Brownstown 32.338%	Huron Twp 15.013%	Van Buren Twp 29.216%	Village of S Rockwood 0.735%	Total
0	2.250%	233,574.00	0.00	233,574.00	28,710.92	9,985.29	0.00	14,320.42	75,533.16	35,066.45	68,240.96	1,716.77	233,574.00
1,180,000	2.250%	0.00	233,574.00	1,413,574.00	178,756.52	60,430.29	0.00	86,886.22	437,121.36	212,219.86	412,989.77	10,389.77	1,413,574.00
0	2.250%	220,289.00	0.00	220,289.00	27,079.15	9,417.78	0.00	13,506.53	71,240.29	33,073.49	64,362.56	1,619.20	220,289.00
1,205,000	2.250%	0.00	220,289.00	1,425,289.00	175,197.75	60,931.53	0.00	87,385.08	460,913.19	213,980.14	416,415.36	10,475.95	1,425,289.00
0	2.250%	206,742.75	0.00	206,742.75	25,412.82	8,638.25	0.00	12,675.40	66,856.47	31,038.29	60,401.96	1,519.66	206,742.75
1,235,000	2.250%	0.00	206,742.75	1,441,742.75	177,219.02	61,634.50	0.00	88,393.25	466,230.77	216,448.84	421,219.56	10,596.81	1,441,742.75
0	2.250%	192,849.00	0.00	192,849.00	23,705.00	8,244.29	0.00	11,823.37	62,363.51	28,952.42	56,342.76	1,417.44	192,849.00
1,260,000	2.250%	0.00	192,849.00	1,452,849.00	178,584.20	62,109.29	0.00	89,074.17	469,822.31	218,116.22	424,464.35	10,678.44	1,452,849.00
0	2.250%	178,674.00	0.00	178,674.00	21,982.61	7,638.31	0.00	10,954.50	57,779.60	28,824.33	52,201.40	1,313.25	178,674.00
1,230,000	2.250%	164,161.50	0.00	1,468,674.00	180,529.41	62,735.81	0.00	90,044.40	474,939.80	220,492.03	429,087.80	10,794.76	1,468,674.00
0	2.250%	149,311.50	0.00	1,484,161.50	20,178.73	7,017.90	0.00	10,084.74	53,086.55	24,645.57	47,961.42	1,206.59	1,484,161.50
1,350,000	2.250%	0.00	149,311.50	1,499,311.50	182,433.13	63,447.90	0.00	90,993.94	479,948.15	222,817.17	433,612.62	10,908.59	1,499,311.50
0	2.250%	134,124.00	0.00	1,643,248.00	184,295.37	64,095.57	0.00	91,922.79	484,847.35	225,091.64	438,038.85	11,019.94	1,643,248.00
1,375,000	2.250%	118,655.25	0.00	1,643,310.50	201,988.04	70,248.85	0.00	100,747.53	531,393.54	245,700.82	480,091.34	12,077.87	1,643,310.50
1,405,000	2.250%	102,849.00	0.00	1,645,698.00	202,289.20	70,353.69	0.00	100,690.06	531,030.37	246,560.06	479,317.44	12,070.98	1,645,698.00
0	2.250%	86,649.00	0.00	1,645,698.00	201,994.19	70,250.99	0.00	100,897.74	532,185.82	247,068.64	480,307.13	12,096.88	1,645,698.00
1,470,000	2.250%	70,111.50	0.00	1,646,380.50	202,230.81	70,333.28	0.00	100,868.62	532,032.21	246,997.33	480,668.35	12,092.99	1,646,380.50
0	2.250%	53,180.25	0.00	1,646,710.50	202,413.65	70,396.87	0.00	100,938.36	532,400.06	247,168.10	481,000.68	12,100.75	1,646,710.50
1,540,000	2.250%	35,855.25	0.00	1,648,406.00	202,822.07	70,459.36	0.00	101,063.77	533,061.53	247,475.19	481,598.30	12,115.78	1,648,406.00
0	2.250%	18,136.50	0.00	1,648,406.00	202,822.07	70,459.36	0.00	101,063.77	533,061.53	247,475.19	481,598.30	12,115.78	1,648,406.00

SOUTH HURON VALLEY UTILITY AUTHORITY														
2004 SEWER SYSTEM PLANT EXPANSION BONDS														
ALLOCATION OF DEBT SERVICE REQUIREMENTS														
Year	Principal Due	Interest Rate	Interest Due	Total P&I	Allocation of Debt Service Payments									
					City of Flat Rock	City of Gibraltar	City of Romulus	City of Woodhaven	Charter Township of Brownsown	City of Huron	Van Buren	Village of Rockwood	Total	
2004	0	2.125%	46,150.08	7,435.26	1,897.33	1,228.90	0.00	2,348.65	0.00	1,796.06	0.00	164.32	7,435.26	
2005	0	2.125%	75,217.42	46,150.08	11,776.98	7,927.69	0.00	14,577.89	0.00	11,145.01	0.00	1,019.92	46,150.08	
2006	0	2.125%	99,646.21	75,217.42	19,193.98	12,491.94	0.00	23,759.98	0.00	18,169.52	0.00	1,852.50	75,217.42	
2007	375,000	2.125%	97,962.50	97,962.50	25,827.46	16,489.36	0.00	31,475.93	0.00	24,070.30	0.00	2,202.16	97,962.50	
2008	380,000	2.125%	93,978.13	93,978.13	23,981.34	15,592.71	0.00	29,585.81	0.00	22,701.36	0.00	2,076.92	93,978.13	
2009	390,000	2.125%	89,940.63	89,940.63	22,951.05	14,865.39	0.00	28,410.45	0.00	21,726.06	0.00	1,987.69	89,940.63	
2010	400,000	2.125%	85,796.88	85,796.88	21,893.55	14,180.51	0.00	27,101.52	0.00	20,725.09	0.00	1,896.11	85,796.88	
2011	405,000	2.125%	81,546.88	81,546.88	20,809.13	13,478.07	0.00	25,759.03	0.00	19,698.46	0.00	1,802.19	81,546.88	
2012	415,000	2.125%	77,243.75	77,243.75	19,711.06	12,766.85	0.00	24,399.76	0.00	18,659.00	0.00	1,707.09	77,243.75	
2013	425,000	2.125%	72,834.38	72,834.38	18,585.88	12,038.07	0.00	23,006.92	0.00	17,593.87	0.00	1,609.64	72,834.38	
2014	435,000	2.125%	68,316.75	68,316.75	17,447.06	11,358.05	0.00	21,783.65	0.00	16,536.45	0.00	1,511.96	68,316.75	
2015	445,000	2.125%	63,696.88	63,696.88	16,357.79	10,716.94	0.00	20,619.80	0.00	15,523.31	0.00	1,415.63	63,696.88	
2016	455,000	2.125%	58,987.75	58,987.75	15,263.63	10,115.65	0.00	19,502.42	0.00	14,545.41	0.00	1,315.63	58,987.75	
2017	460,000	2.125%	54,134.38	54,134.38	14,263.63	9,541.56	0.00	18,426.88	0.00	13,523.99	0.00	1,211.28	54,134.38	
2018	470,000	2.125%	49,246.88	49,246.88	13,353.13	9,019.79	0.00	17,393.77	0.00	12,545.42	0.00	1,103.84	49,246.88	
2019	485,000	2.125%	44,253.13	44,253.13	12,449.42	8,541.52	0.00	16,410.48	0.00	11,610.48	0.00	1,000.00	44,253.13	
2020	505,000	2.125%	39,193.13	39,193.13	11,541.06	8,085.07	0.00	15,564.12	0.00	10,761.12	0.00	900.00	39,193.13	
2021	515,000	2.125%	34,062.25	34,062.25	10,684.38	7,645.07	0.00	14,794.72	0.00	9,944.12	0.00	800.00	34,062.25	
2022	525,000	2.125%	28,862.25	28,862.25	9,841.06	7,211.52	0.00	14,041.00	0.00	9,184.12	0.00	700.00	28,862.25	
2023	535,000	2.125%	23,596.88	23,596.88	9,000.00	6,782.66	0.00	13,292.00	0.00	8,441.00	0.00	600.00	23,596.88	
2024	555,000	2.125%	17,478.13	17,478.13	8,282.66	6,385.69	0.00	12,541.12	0.00	7,691.88	0.00	500.00	17,478.13	
2025	560,000	2.125%	11,963.75	11,963.75	7,643.75	6,019.12	0.00	11,772.29	0.00	7,000.00	0.00	400.00	11,963.75	
9,220,000			1,243,570.35	1,180,427.74	11,643,998.09	2,971,315.43	1,924,520.00	0.00	3,678,105.12	0.00	2,872,724.18	0.00	11,643,998.09	



**SOUTH HURON VALLEY UTILITY AUTHORITY  
2011 SEWER SYSTEM IMPROVEMENT BONDS  
(Trenton Arm Project)**

ALLOCATION OF DEBT SERVICE REQUIREMENTS												
Total Payments on 2011 SRF Bonds - #5386-01												
Principal Due	Interest Rate	Interest Due Apr 1	Interest Due Oct 1	Total P&I	Allocation of Debt Service Payments							Total
					City of Flat Rock 16.830%	City of Gibraltar 9.894%	City of Woodhaven 14.571%	Charter Twp of Brownstown 25.408%	Twp of Huron 15.447%	Twp of Van Buren 15.612%	Village of S Rockwood 2.141%	
130,000	2.500%	11,741.50	0.00	11,741.50	23,855.09	14,165.65	20,653.15	36,009.43	21,894.81	22,128.68	3,034.89	141,741.50
0	2.500%	0.00	23,983.09	23,983.09	4,036.35	2,366.87	3,494.58	6,092.80	3,704.67	3,744.24	513.48	23,983.09
130,000	2.500%			130,000.00	21,819.00	12,992.20	18,942.30	33,026.50	20,081.10	20,295.60	2,763.30	130,000.00
135,000	2.500%			135,000.00	22,720.50	13,481.90	19,570.85	34,296.75	20,853.45	21,076.20	2,890.35	135,000.00
140,000	2.500%			140,000.00	23,562.00	13,991.60	20,389.40	35,567.00	21,625.80	21,866.80	2,997.40	140,000.00
145,000	2.500%			145,000.00	24,403.50	14,491.30	21,127.95	36,837.25	22,388.15	22,637.40	3,104.45	145,000.00
150,000	2.500%			150,000.00	25,245.00	14,991.00	21,856.50	38,107.50	23,170.50	23,637.40	3,211.50	150,000.00
155,000	2.500%			155,000.00	26,086.50	15,490.70	22,585.05	39,377.75	23,942.85	24,198.60	3,318.55	155,000.00
160,000	2.500%			160,000.00	26,928.00	15,990.40	23,313.60	40,648.00	24,715.20	24,979.20	3,425.60	160,000.00
165,000	2.500%			165,000.00	27,769.50	16,490.10	24,042.15	41,918.25	25,437.55	25,759.80	3,532.65	165,000.00
170,000	2.500%			170,000.00	28,611.00	16,989.80	24,770.70	43,188.50	26,289.90	26,540.40	3,639.70	170,000.00
175,000	2.500%			175,000.00	29,452.50	17,489.50	25,489.25	44,458.75	27,032.25	27,321.00	3,746.75	175,000.00
180,000	2.500%			180,000.00	30,294.00	17,989.20	26,227.80	45,729.00	27,804.60	28,101.80	3,853.80	180,000.00
185,000	2.500%			185,000.00	31,135.50	18,488.90	26,956.35	46,999.25	28,576.95	28,882.20	3,960.85	185,000.00
190,000	2.500%			190,000.00	31,977.00	18,988.60	27,684.90	48,269.50	29,349.30	29,662.80	4,067.90	190,000.00
195,000	2.500%			195,000.00	32,818.50	19,488.30	28,413.45	49,539.75	30,121.65	30,443.40	4,174.95	195,000.00
200,000	2.500%			200,000.00	33,660.00	19,988.00	29,142.00	50,810.00	30,894.00	31,224.00	4,282.00	200,000.00
205,000	2.500%			205,000.00	34,501.50	20,487.70	29,870.55	52,080.25	31,686.35	32,004.60	4,389.05	205,000.00
3,370,000		11,741.50	23,983.09	3,345,724.59	563,085.45	334,371.72	487,505.33	849,987.33	515,814.08	522,334.52	71,631.96	3,345,724.59

\*Interest payments change with each draw. Will input when final.