

2015

CAPITAL

BUDGET

2015 CAPITAL BUDGET AT A GLANCE									3/10/2015
VILLAGE PROJECTS									
Project #	DESCRIPTION	Life	COST	EXPLANATION	Approved Must Do	Crucial to Operations	Recommend	Declaration of Intent by VB on file	
41185	2015 Sidewalk Replacement Program	10+	\$60,000	In order to reduce potential hazards to pedestrians and to minimize the exposure of the Village to liability for personal injury, the Village has initiated an on-going program for inspection of existing sidewalks and for repair or replacement of defective sidewalk sections.		X			
41186	2015 Curb & Gutter Replacement Program	20+	\$250,000	This proposed project is part of the Village's on-going program to replace defective curb and gutter in advance of the annual Village Road Repair Program. This year as part of the 2015 Curb & Gutter Program, the repair and replacement of defective concrete pavement on roadways that are maintained by the Village of Menomonee Falls has been added. The Village maintains several miles of concrete pavement and sections of the pavement have deteriorated to a point that replacement is necessary.		X			
41187	2015 Ashalt Paving Program	10+	\$700,000	As part of the 2015 Asphalt Paving Program the Engineering Department typically uses two funding sources. The first being a portion of the \$700,000 that the Village Board has appropriated to the Department of Public Works 2015 Operating Budget for replacement of deteriorated pavement and the 2nd being the \$700,000 that is being asked for as part of this Capital Budget. This year as part of the 2015 Asphalt Paving project, The Village will be installing storm sewer that addresses areas of existing roadways that do not drain properly and are in need of storm sewer.		X			
41188	Pershing Ave Reconstruction Appleton Ave to Grand Ave	20+	\$225,000	Pershing Avenue between Appleton Ave and Grand has deteriorated to the point that maintenance practices are no longer effective. Last year the Village as part of its annual road program reconstructed Falls Ave, Garden Ave and Goode Ave which are stub roads off of Pershing Avenue. The project will consist of removing the entire roadway including curb & gutter and base course to subgrade. Then undercutting the subgrade to fix any soft areas the installing new base course, curb & gutter, asphalt and driveway approaches.			X		
	Fair Oak Water Tower Sand Blasting & Recoating - DESIGN	20+	\$30,000	<p>This project is to Design a recoat system for the Fair Oak Tower that was put on line in 1989. A recoat system on a tank has an average life span of approximately 20 to 25 years and to insure a 20 to 25 year life of the coating system it is recommended that the entire tower be sand blasted to bare steel, apply a new primer and apply a coating system. Conditions that would affect the coating would be weather, variations in water chemistry, changing water levels in the tank. The adhesion of a coating system fails as time goes on. Flaking, delamination and rusting could also occur. You will find that when a coating system starts to break down mold and mildew spores start to grow causing the area of failure to become a black color.</p> <p>A five year inspection is done on all our towers at which time a coating adhesion test was performed. Having the five year inspection done helps the utility forecast maintenance expenditures. The inspection not only determines the condition of the interior and exterior coatings but insures the structural integrity of the tower as well. The inspections also makes sure the utility stays in compliance with sanitation guidelines along with safety and security regulations in accordance with AWWA, OSHA, DNR, EPA and US department of homeland security. If additional work or upgrades need to be made to come into compliance, this is the time while recoating the tower to make such upgrades.</p>		X			
	Station #5 Reservoir Repair Recommendations	20+	\$100,000	The Water Utility Station #5 Reservoir is a million gallon underground reservoir located on Town Hall Road near Community Memorial Hospital. The existing concrete floor topping has many conical-shaped spalls. The proposed repair will involve 80 4-foot square repair areas that will be about 2" in depth. The majority of the floor topping is in a good sound condition. Also, there are several ladders whose lower rungs have become severely corroded. These ladders are proposed to be repaired with stainless steel ladders to resist corrosion and enhance staff safety.		X			
62003	Pilgrim Road 16" Water Main Relay Park Blvd to Falls Parkway & 12" Wm Relay in Main St & 12" Wm Relay in Megal Court	20+	\$555,625	<p>The Village has entered into an Agreement with the Wisconsin Department of Transportation to Reconstruct Pilgrim Road from Megal Drive to 300 feet South of Main Street. This project will begin where the previous reconstruction of Pilgrim Road stopped North of Megal Drive and end South of Main Street where the deteriorated concrete pavement ends.</p> <p>As part of the project the Village will be relaying the existing 16" water main which was installed in 1959 and is a major north-south transmission main. With the reconstruction of Pilgrim Road schedule for the summer of 2015 it is the time to replace the water main due to its age and if it was not done and there were a break, the water utility would excavate in the new roadway. The Village has asked the WDOT to have this relay included in the project being bid for the reconstruction.</p>			X		

Project #	DESCRIPTION	Life	COST	EXPLANATION	Approved Must Do	Crucial to Operations	Recommend	Declaration of Intent by VB on file
41175	Duke Ct, Lambs Ln & Amy Ln Construction	20+	\$265,000	<p>This project consists of the reconstruction of Duke Court, Lambs Lane and Amy Lane in the Shepherd Hill Addition No. 1 subdivision. These are the last roadways in the Shepherd Hill Addition No. 1 subdivision in need for repair and storm sewer installation. Duke Street, St. James Drive and Maryhill Drive are complete and Princeway is currently under construction. This roadway does not currently have any storm sewer and storm water drains overland from the top of the hill to the bottom at Duke Street. The reconstruction will include adjusting of sanitary sewer manholes, removal and replacement of defective curb & gutter and driveway approaches, installation of storm sewer and removal and replacement of the asphalt pavement. The water main was replaced as part of the Princeway water main project in 2014.</p> <p>This subdivision also has experienced storm water problems from flooding to icing of the roadways during the winter. The only storm sewer in the subdivision is in Duke Street with the remaining street draining by curb & gutter to Duke Street. The Storm Sewer will also eliminate the poor drainage, standing water potential damage to the curb & gutter and asphalt pavement. With the installation of the water main and storm sewer the roadway will be mostly removed so the entire pavement will be removed and replaced along with defective curb & gutter.</p>			X	
	May Avenue - Arthur Ave to Fleet Ave Design	20+	\$30,000	<p>This project consists of designing a relay of the water main with appurtenances in May Avenue from Fleet Ave to Arthur Avenue along with the reconstructing of the sanitary sewer manholes, removal and replacement of Defective curb & gutter and driveway approaches, installation of storm sewer and removal and replacement of the base course and asphalt pavement.</p> <p>The existing 6" water main will be replaced with an 8" water main due to the age of the water main and material of the water main. The existing water main is sandcast with lead joints. The DNR requires that when possible the existing water main with lead joints and lead laterals be removed from service.</p> <p>Also as part of this project the Storm Sewer will be sized appropriately and eliminate the poor drainage and standing water to reduce future damage to the curb & gutter and asphalt pavement. With the installation of the water main and storm sewer the roadway will be mostly removed and the current roadway is in poor condition. Due to these factors the entire roadway will be removed to the subgrade and new base course, curb & gutter and asphalt pavement will be installed. Any defective sidewalk and driveway approaches will be replaced.</p>			X	
	Cherokee Drive - Water St to Cheyenne Dr. Design	20+	\$40,000	<p>This project consists of Design for the reconstruction of Cherokee Drive from Water Street to Cheyenne. The reconstruction will include relaying of the water main with appurtenances in Cherokee Drive along with the adjusting of sanitary sewer manholes, removal and replacement of defective curb & gutter and driveway approaches, upsizing of existing storm sewer, installation of additional storm sewer and removal and replacement of the asphalt pavement.</p> <p>The existing 8" water main will be replaced due to the age, cast iron material of the water main and the water main breaks in this subdivision. This section of water main has had three (3) water main breaks over the last two (2) years. This street has become a maintenance problem for the Water Utility and Public Works Dept and the water main needs to be replaced.</p> <p>This Area also has experienced storm water problems and the upsize in storm sewer was recommended as part of the Storm Sewer System Study completed by Ruekert/Mielke in 2001. The Storm Sewer will also eliminate the poor drainage, standing water potential damage to the curb & gutter and asphalt pavement. With the installation of the water main and storm sewer the roadway will be mostly removed so the entire pavement will be removed and replaced along with defective curb & gutter.</p>			X	
41183	Elsie Avenue - Fleet Ave to Arthur Ave Construction	20+	\$420,000	<p>This project consists of relay of the water main with appurtenances in Elsie Avenue from Fleet Ave to Arthur Avenue along with the reconstructing of the sanitary sewer manholes, removal and replacement of defective curb & gutter and driveway approaches, installation of storm sewer and removal and replacement of the base course and asphalt pavement.</p> <p>The existing 6" water main will be replaced with an 8" water main due to the age of the water main and material of the water main. The existing water main is sandcast with lead joints. The DNR requires that when possible the existing water main with lead joints and lead laterals be removed from service.</p> <p>Also as part of this project the Storm Sewer will be sized appropriately and eliminate the poor drainage and standing water to reduce future damage to the curb & gutter and asphalt pavement. With the installation of the water main and storm sewer the roadway will be mostly removed and the current roadway is in poor condition. Due to these factors the entire roadway will be removed to the subgrade and new base course, curb & gutter and asphalt pavement will be installed. Any defective sidewalk and driveway approaches will be replaced.</p>			X	

Project #	DESCRIPTION	Life	COST	EXPLANATION	Approved Must Do	Crucial to Operations	Recommend	Declaration of Intent by VB on file
41184	St. Mark Drive - St. Francis Dr to Trailer Park Construction	20+	\$295,000	<p>This project consists of a relay of the water main with appurtenances in St. Francis Drive from Appleton Avenue to St. Mark Drive and in St. Mark Drive from St. Francis Drive to the Trailer Park. The storm sewer will also be upgraded to correct any deficiencies in the system. Design was approved as part of the 2014 Capital Budget.</p> <p>The existing 8" water main will be replaced due to the age of the water main, material of the water main and number of breaks in the Shepherd Hills Addn No. 2 subdivision.</p>			X	
	Kiwanis Park Play Structure Replacement Design & Construction	20+	\$145,000	The project consists of replacing the play structure, installing a perimeter sidewalk and benches as well as removing the existing bark mulch and installing rubberized fall protection material.			X	
73036	Menomonee River Siphon Relay Additional Funds	20+	\$120,000	<p>The Menomonee River Siphon is located under the Menomonee River south of the Main Street Bridge in Lime Kiln Park. The project was approved as part of the 2013 capital budget and the Engineering Dept hired Ruekert & Mielke to design the Siphon Relay. Once the design was complete the Village and Ruekert & Mielke began meeting with the WDNR and ACOE to obtain permits for the project. In our meetings it became apparent that the open cut with blasting or boring of the pipe were not going to work or be permitted. Due to the sensitive nature of the area the trench will have to be ground using a diamond grinder on the end of a backhoe. To do this process is costlier and therefore we are requesting additional funds for the project.</p> <p>Background: The siphon was constructed in 1927 with 8" cast iron pipe and lead joints. The Village has investigated relining the siphon as part of the yearly program but the siphon cannot be relined due to the valves, bends and fittings. The siphon is past its useful life and in need of replacement.</p> <p>A siphon is a depressed sanitary sewer that is used to pass under obstructions such as rivers. To pass these obstructions, a common method is for the sewer pipe to drop sharply, then run horizontal under the obstruction, and finally rise to the desired elevation to be returned to the gravity sewer. Unlike a gravity sewer, a siphon flows under pressure.</p>			X	
	Utility SCADA Upgrade	20+	\$110,000	<p>SCADA stands for <u>S</u>upervisory <u>C</u>ontrol <u>A</u>nd <u>D</u>ata <u>A</u>cquisition. This is the system of hardware and software that the Utilities use to monitor, control and collect real time data on Lift Stations, flow monitors, water towers, wells, ect. The current system has been in operation for over ten years and we are experiencing many 'freeze-ups' in the system. It is becoming unstable and somewhat unreliable and the system is operating on an obsolete Windows XP operating system. We are also changing the SCADA software to be compatible with that used for the Water Utility. We are phasing out a large obsolete wall monitor and replacing it with a normal LED computer monitor.</p> <p>The PLC's [operates the communications to all stations] is no longer manufactured. We will be installing new PLC's and software to mirror what's used on the water side. Also in a money saving effort the SCADA systems for water and sewer alarms are currently on separate emergency call out auto dialers. This upgrade would combine sewer and water auto dialers to just one call out system. By installing the same equipment for sewer and water makes it much more efficient. In emergency situations this would allow us to be able to use the same equipment parts for both systems for trouble shooting purposes.</p>		X		
Total 2015 Capital Budget			<u>\$3,345,625</u>					

VILLAGE OF MENOMONEE FALLS
PROPOSED FIVE YEAR CAPITAL PLAN
2015-2019

3/11/2015

Description	Proposed 2015	Proposed 2016	Proposed 2017	Proposed 2018	Proposed 2019	5 Year Total
VILLAGE PROJECTS						
Appleton Avenue Water Tower - Sand Blasting & Recoating		30,000	370,000			
Arthur Ave - Menom Ave to Appleton Ave - Reconstruction		\$35,000	\$985,000			\$1,020,000
Asphalt Paving Program	\$700,000	\$770,000	\$700,000	\$700,000	\$800,000	\$3,670,000
Cherokee Dr. - Water St to Cheyenne Dr - Design	\$40,000					\$40,000
Cherokee Dr. - Water St to Chippewa - Reconstruction		\$745,000				\$745,000
Cherokee Dr. - Chippewa to Cheyenne Dr - Reconstruction				\$880,000		\$880,000
Cheyenne Dr - Cherokee Dr to Village Stand Pipe - Design				\$40,000		\$40,000
Cheyenne Dr - Cherokee Dr to Blackfoot Dr - Reconstruction					\$605,000	\$605,000
Curb & Gutter Replacement Program	\$250,000	\$250,000	\$220,000	\$225,000	\$275,000	\$1,220,000
Donald Ave - Arthur Ave to Fleet Ave - Reconstruction		\$400,000				\$400,000
Duke Ct, Lambs Lane & Amy Lane - Reconstruction	\$265,000					\$265,000
Elsie Ave - Arthur Ave to Fleet Ave - Reconstruction	\$420,000					\$420,000
Fair Oak Water Tower - Sand Blasting & Recoating	\$30,000	\$270,000				\$300,000
Graysland Storm Sewer Replacement			\$255,000			\$255,000
Kenwood Blvd. - Patton Dr to Park Blvd - Reconstruction					\$620,000	\$620,000
Kiwanis Park - Play Structure Replacement	\$145,000					\$145,000
Lannon Road - Silver Spring to Lisbon Rd - Water Main Extension				\$680,000		\$680,000
Lilly Road Bridge Reconstruction		\$42,000		\$335,000		\$377,000
May Ave - Arthur Ave to Fleet Ave - Reconstruction	\$30,000		\$360,000			\$390,000
Men River Siphon Relay - Addn Funds	\$120,000					\$120,000
Menomonee Ave - Sheridan Dr to Townhall Rd - Reconstruction					\$150,000	\$150,000
Pershing Ave Reconstruction - Appleton Ave to Grand Ave.	\$225,000					\$225,000
Pilgrim Road 16" WM Relay - Park Blvd to Megal Dr	\$555,625					\$555,625
Rivers Edge Park Path Construction		\$136,000				\$136,000
Roosevelt Dr. - St. Francis Dr to North Limit - Water main Relay					\$270,000	\$270,000
Roosevelt Dr. - Charles Dr to Water St - Reconstruction		\$1,360,000				\$1,360,000
Russell Court - Water main Relay		\$185,000				\$185,000
Sidewalk Replacement Program	\$60,000	\$60,000	\$60,000	\$60,000	\$60,000	\$300,000
St. Francis Dr. - St Mark to Roosevelt Drive - Water main Relay				\$301,650		\$301,650
St. Mark Dr. - St. Francis Dr to Trailer Park Including St. Francis from Appleton Ave - Water main Relay	\$295,000					\$295,000
St. Regis Dr. - St. Francis Dr to West Limit - Water main Relay				\$255,000		\$255,000
Station #5 Reservoir - Repair Recommendations	\$100,000					\$100,000
Stonefield Dr - Fox Ridge Ct to Maple Crest Lane - Water main Relay		\$370,000				\$370,000
Townline Road Water Tower		\$150,000	\$1,450,000			\$1,600,000
Utility SCADA Upgrade	\$110,000					\$110,000
Village Park (Garfield) Water Main & Storm Sewer Relocation					\$440,000	\$440,000
Village Park Basketball & Tennis Court Rehabilitation					\$220,000	\$220,000
GRAND TOTAL PROJECT COSTS	\$3,345,625	\$4,803,000	\$4,400,000	\$3,476,650	\$3,440,000	\$19,065,275

Village of Menomonee Falls
Capital Improvement Plan 2015 - 2019

				GENERAL OBLIGATION							CASH ON HAND											TOTAL COST	COMMENTS
PROJECT ENGINEER	YEAR	PROJECT NUMBER	PROJECT	CAPITAL PROJECTS	SPECIAL ASSESSMENT	TID's	WATER UTILITY	SANITARY SEWER UTILITY	STORM WATER UTILITY	TOTAL GENERAL OBLIGATION	GENERAL FUND	MUNICIPAL FACILITIES & EQUIPMENT FUND	FIRE IMPACT FEE	PARK IMPACT FEE	CUST. CONTR.	WATER UTILITY	WATER IMPACT FEE	SANITARY SEWER UTILITY	SANITARY SEWER IMPACT FEES	SANITARY SEWER INTERCEPTOR	CASH TOTAL		
	2015																						
PUBLIC WORKS PROJECTS																							
		41185	2015 Sidewalk Replacement Program	60,000						60,000												\$60,000	
		41186	2015 Curb & Gutter Replacement Program	250,000						250,000												\$250,000	
		41187	2015 Asphalt Paving Program	700,000						700,000												\$700,000	Slag Seal and Crack Filling in 2015 Operating Budget
TRANSPORTATION PROJECTS																							
		41188	Pershing Ave Reconstruction - Appleton Ave to Grand Ave	225,000						225,000												\$225,000	
WATER PROJECTS																							
			Fair Oak Water Tower - Sand Blasting & Recoaling - DESIGN				30,000			30,000												\$30,000	
			Station #5 Reservoir - Repair Recommendations				100,000			100,000												\$100,000	
		62003	Pilgrim Road 16" WM Relay - Park Blvd to Falls Parkway & 12" WM Relay in Main St from Pilgrim to West & 12" WM Relay in Megal Ct				555,625			555,625												\$555,625	
		41175	Duke Ct, Lambs Lane & Amy Lane - Water main Relay, Storm Sewer & Street Reconstruction - CONSTRUCTION	265,000						265,000												\$265,000	
			May Ave - Arthur Ave to Fleet Ave - Water main Relay, Storm Sewer & Street Reconst - DESIGN	15,000			15,000			30,000												\$30,000	
			Cherokee Dr. - Cheyenne Dr to Water St - Water main Relay, Storm Sewer & Street Reconst - DESIGN	25,000			15,000			40,000												\$40,000	
		41183	Elele Ave - Arthur Ave to Fleet Ave - Water main Relay, Storm Sewer & Street Reconst - CONSTRUCTION	265,000			130,000			395,000								25,000			25,000	\$420,000	
		41184	St. Mark Dr. - St. Francis Dr to Trailer Park including St. Francis from Appleton Ave - Water main Relay - CONSTRUCTION	50,000			245,000			295,000												\$295,000	
PARKS PROJECTS																							
			Kiwanis Park - Play Structure Replacement	145,000						145,000												\$145,000	
SANITARY PROJECTS																							
		73036	Men River Siphon Relay - Addn Funds															120,000			120,000	120,000	
		73038	Utility SCADA Upgrade				20,000			20,000								90,000			90,000	\$110,000	Supervisory Control And Data Acquisition
STORM WATER PROJECTS																							
MUNICIPAL FACILITIES																							
			TOTAL	2,000,000	0	0	1,110,625	0	0	3,110,625	0	0	0	0	0	0	0	235,000	0	0	235,000	3,345,625	

Village of Menomonee Falls
Capital Improvement Plan 2015 - 2019

				GENERAL OBLIGATION						CASH ON HAND															
PROJECT ENGINEER	YEAR	PROJECT NUMBER	PROJECT	CAPITAL PROJECTS	SPECIAL ASSESSMENT	TID's	WATER UTILITY	SANITARY SEWER UTILITY	STORM WATER UTILITY	TOTAL GENERAL OBLIGATION	GENERAL FUND	MUNICIPAL FACILITIES & EQUIPMENT FUND	FIRE IMPACT FEE	PARK IMPACT FEE	CUST. CONTR.	WATER UTILITY	WATER IMPACT FEE	SANITARY SEWER UTILITY	SANITARY SEWER IMPACT FEES	SANITARY SEWER INTERCEPTOR	CASH TOTAL	TOTAL COST	COMMENTS		
	2016																								
PUBLIC WORKS PROJECTS																									
			2016 Sidewalk Replacement Program	60,000						60,000													\$60,000		
			2016 Curb & Gutter Replacement Program	250,000						250,000													\$250,000		
			2016 Asphalt Paving Program	770,000						770,000													\$770,000	Slag Seal and Crack Filling in 2016 Operating Budget	
TRANSPORTATION PROJECTS																									
			Lilly Road Bridge Reconstruction - DESIGN	42,000						42,000													\$42,000	WDOT Project	
			Roosevelt Dr. - Wm Relay, Storm Sewer & Road Reconst - DESIGN & Construction			1,360,000				1,360,000													\$1,360,000		
WATER PROJECTS																									
			Fair Oak Water Tower - Sand Blasting & Recoating - CONSTRUCTION				270,000			270,000													\$270,000		
			Appleton Avenue Water Tower - Sand Blasting & Recoating - DESIGN				30,000			30,000													\$30,000		
			Townline Road Water Tower - DESIGN				28,500			28,500							121,500					121,500	\$150,000		
			Cherokee Dr. - Water St to Chippewa - Water main Relay, Storm Sewer & Street Reconst - CONSTRUCTION	545,000			200,000			745,000													\$745,000		
			Arthur Ave - Menom Ave to Appleton Ave - Water main Relay, Storm Sewer & Street Reconst - DESIGN	20,000			15,000			35,000													\$35,000		
			Donald Ave - Arthur Ave to Fleet Ave - Water main Relay, Storm Sewer & Street Reconst - CONSTRUCTION	245,000			155,000			400,000													\$400,000		
			Russell Court - Water main Relay - DESIGN & CONSTRUCTION				185,000			185,000													\$185,000		
			Stonefield Dr - Fox Ridge Ct to Maple Crest Lane - Water main Relay - DESIGN & CONSTRUCTION				370,000			370,000													\$370,000		
PARKS PROJECTS																									
			Rivers Edge Park Path Construction	68,000						68,000				68,000								68,000	\$136,000		
SANITARY PROJECTS																									
STORM WATER PROJECTS																									
MUNICIPAL FACILITIES																									
	TOTAL			2,000,000	0	1,360,000	1,253,500	0	0	4,613,500	0	0	0	68,000	0	0	121,500	0	0	0	189,500	4,803,000			

Village of Menomonee Falls
Capital Improvement Plan 2015 - 2019

				GENERAL OBLIGATION							CASH ON HAND											TOTAL COST	COMMENTS
PROJECT ENGINEER	YEAR	PROJECT NUMBER	PROJECT	CAPITAL PROJECTS	SPECIAL ASSESSMENT	TID's	WATER UTILITY	SANITARY SEWER UTILITY	STORM WATER UTILITY	TOTAL GENERAL OBLIGATION	GENERAL FUND	MUNICIPAL FACILITIES & EQUIPMENT FUND	FIRE IMPACT FEE	PARK IMPACT FEE	CUST. CONTR.	WATER UTILITY	WATER IMPACT FEE	SANITARY SEWER UTILITY	SANITARY SEWER IMPACT FEES	SANITARY SEWER INTERCEPTOR	CASH TOTAL		
	2017																						
PUBLIC WORKS PROJECTS																							
			2017 Sidewalk Replacement Program	60,000						60,000												\$60,000	
			2017 Curb & Gutter Replacement Program	220,000						220,000												\$220,000	
			2017 Asphalt Paving Program	700,000						700,000												\$700,000	Slag Seal and Crack Filling in 2016 Operating Budget
TRANSPORTATION PROJECTS																							
WATER PROJECTS																							
			Appleton Avenue Water Tower - Sand Blasting & Recoating - CONSTRUCTION				370,000			370,000												\$370,000	
			Townline Road Water Tower - CONSTRUCTION				275,500			275,500							1,174,500				1,174,500	\$1,450,000	
			May Ave - Arthur Ave to Fleet Ave - Water main Relay, Storm Sewer & Street Reconst - CONSTRUCTION	185,000			175,000			360,000												\$360,000	
			Arthur Ave - Menom Ave to Appleton Ave - Water main Relay, Storm Swr & Street Reconst - CONSTRUCTION	580,000			405,000			985,000												\$985,000	
PARKS PROJECTS																							
SANITARY PROJECTS																							
STORM WATER PROJECTS																							
			Graysland Storm Sewer Replacement	255,000						255,000												\$255,000	
MUNICIPAL FACILITIES																							
			TOTAL	2,000,000	0	0	1,225,500	0	0	3,225,500	0	0	0	0	0	0	1,174,500	0	0	0	1,174,500	4,400,000	

Village of Menomonee Falls
Capital Improvement Plan 2015 - 2019

				GENERAL OBLIGATION							CASH ON HAND															
PROJECT ENGINEER	YEAR	PROJECT NUMBER	PROJECT	CAPITAL PROJECTS	SPECIAL ASSESSMENT	TID's	WATER UTILITY	SANITARY SEWER UTILITY	STORM WATER UTILITY	TOTAL GENERAL OBLIGATION	GENERAL FUND	MUNICIPAL FACILITIES & EQUIPMENT FUND	FIRE IMPACT FEE	PARK IMPACT FEE	CUST. CONTR.	WATER UTILITY	WATER IMPACT FEE	SANITARY SEWER UTILITY	SANITARY SEWER IMPACT FEES	SANITARY SEWER INTERCEPTOR	CASH TOTAL	TOTAL COST	COMMENTS			
	2018																									
PUBLIC WORKS PROJECTS																										
			2018 Sidewalk Replacement Program	60,000						60,000											0	60,000				
			2018 Curb & Gutter Replacement Program	225,000						225,000											0	225,000				
			2018 Asphalt Paving Program	700,000						700,000											0	700,000	Slag Seal and Crack Filling in 2018 Operating Budget			
TRANSPORTATION PROJECTS																										
			Lilly Road Bridge Reconstruction - CONSTRUCTION	335,000						335,000													\$335,000	WDOT Project ???		
WATER PROJECTS																										
			Lannon Road Water Main (Silver Spring to Lisbon) DESIGN & CONSTRUCTION		542,000		19,050			561,050							118,950				118,950	\$680,000				
			Cheyenne Dr - Village Stand Pipe to Cherokee Dr - Water main Relay, Storm Sewer & Street Reconst - DESIGN	25,000			15,000			40,000													\$40,000			
			St. Francis Dr. - St Mark to Roosevelt Drive - Water main & Storm Sewer Relay - DESIGN & CONSTRUCTION	80,000			221,650			301,650													\$301,650			
			St. Regis Dr. - St. Francis Dr to West Limit - Water main Relay - DESIGN & CONSTRUCTION				255,000			255,000													\$255,000			
			Cherokee Dr. - Chippewa to Cheyenne Dr - Water main Relay, Storm Sewer & Street Reconst - CONSTRUCTION	575,000			305,000			880,000													\$880,000			
PARKS PROJECTS																										
SANITARY PROJECTS																										
STORM WATER PROJECTS																										
MUNICIPAL FACILITIES																										
			TOTAL	2,000,000	542,000	0	815,700	0	0	3,357,700	0	0	0	0	0	0	118,950	0	0	0	118,950	3,476,650				

Village of Menomonee Falls Capital Improvement Plan 2015 - 2019

January 29, 2013

[illegible]

CONSTRUCTION PROJECTS

Department: Engineering

03-09-2015

Project Number (if known)	Project Description	Economic/ Useful Life in years (if known)	Amount	Estimated Construction Start Date	Estimated Completion Date	Estimated Final Payment Date		Funding
41185	2015 Sidewalk Replacement Program	10+	\$60,000	06-01-2015	08-28-2015	12-18-2015		\$60,000 General Obligation

In order to reduce potential hazards to pedestrians and to minimize the exposure of the Village to liability for personal injury, the Village has initiated an on-going program for inspection of existing sidewalks and for repair or replacement of defective sidewalk sections.

The Village Board on March 2, 2015 approved a revised sidewalk program and the Village will continuous move through the Village and plan to repair all of the defective sidewalk section in the Village on a 5-year cycle commencing with a Village contract in 2015.

The Village inspects an area once in the spring for defective sidewalk and then the defective sidewalk will be added to the Village contract for repair or replacement.

Please Note: These projects are funded by borrowed funds. They must be spent within eighteen months.

CONSTRUCTION PROJECTS

Department: Engineering

03-09-2015

Project Number (if known)	Project Description	Economic/ Useful Life in years (if known)	Amount	Estimated Construction Start Date	Estimated Completion Date	Estimated Final Payment Date	Funding
41186	2015 Curb & Gutter Replacement Program	20+	\$250,000	05-04-2015	08-28-2015	12-18-2015	\$250,000 General Obligation

This proposed project is part of the Village's on-going program to replace defective curb and gutter in advance of the annual Village Road Repair Program.

The Village Board has determined that it will not undertake a "Crash Program" to correct deficiencies with the existing curb and gutter in the Village but rather will address these deficiencies in conjunction with the annual Village Asphalt Paving Program, unlike the programs undertaken with sidewalks and handicap ramps.

If defective, deteriorated and sunken curb and gutter is not replaced, surface water will not flow as it should, but will pond and percolate into the roadway subgrade and base materials resulting in premature and more extensive deterioration of the roadway pavement. This will result in increased future costs for roadway repair and maintenance as well as the necessity to replace the curb and gutter in the future.

The Village initiated the curb and gutter replacement program several years ago in conjunction with the Sidewalk Replacement Program and has continued this annual program focusing on the most defective and deteriorated curb and gutter sections each year on a rotating basis throughout the curb and gutter areas of the Village.

The repair and replacement of defective concrete pavement on roadways that are maintained by the Village of Menomonee Falls is part of the 2015 Curb & Gutter Program. The Village maintains several miles of concrete pavement and sections of the pavement have deteriorated to a point that replacement is necessary.

Please Note: These projects are funded by borrowed funds. They must be spent within eighteen months.

CONSTRUCTION PROJECTS

Department: Engineering

03-09-2015

Project Number (if known)	Project Description	Economic/ Useful Life in years (if known)	Amount	Estimated Construction Start Date	Estimated Completion Date	Estimated Final Payment Date		Funding
41187	2015 Asphalt Paving Program	10+	\$700,000	06-08-2015	08-28-2015	12-18-2015		\$700,000 General Obligation

As part of the 2015 Asphalt Paving Program the Engineering Department typically uses two funding sources. The first being a portion of the \$700,000 that the Village Board has appropriated to the Department of Public Works 2015 Operating Budget for replacement of deteriorated pavement and the second being the \$700,000 that is being asked for as part of this Capital Budget.

Even with the money budget to the DPW Operating Budget above there is a large amount of work necessary to be done to the existing Village streets and that is why we are asking for the \$700,000 as part of the Capital Budget. The Village Board in 2007 decided to move the costs for the Village's Asphalt Paving Program to the Capital Budget, which is the Village's on-going program to replace deteriorated asphalt pavement.

The purpose of the Asphalt Paving Program is to replace portions of existing asphalt pavement on Village streets that have deteriorated to such a level that routine maintenance is no longer effective. In doing this work it will extend the serviceable life of the roadway for a minimum of approximately 10 years. If this work is not done the asphalt pavement on Village streets will continue to deteriorate to a level where the entire roadway will need to be replaced and this reconstruction will cost significantly more in the future.

As part of the 2015 Asphalt Paving project, the Village will be installing storm sewer that addresses areas of existing roadways that do not drain properly, are in need of storm sewer and to alleviate sump pump icing issues.

Please Note: These projects are funded by borrowed funds. They must be spent within eighteen months.

CONSTRUCTION PROJECTS

Department: Engineering

03-09-2015

Project Number (if known)	Project Description	Economic/ Useful Life in years (if known)	Amount	Estimated Construction Start Date	Estimated Completion Date	Estimated Final Payment Date	Funding
41188	Pershing Ave Reconstruction Appleton Ave to Grand Ave	20+	\$225,000	06-01-2015	07-31-2015	12-18-2015	\$225,000 General Obligation

Pershing Avenue between Appleton Ave and Grand has deteriorated to the point that maintenance practices are no longer effective. Last year the Village as part of its annual road program reconstructed Falls Ave, Garden Ave and Goode Ave which are stub roads off of Pershing Avenue. The project will consist of removing the entire roadway including curb & gutter and base course to subgrade. Then undercutting the subgrade to fix any soft areas the installing new base course, curb & gutter, asphalt and driveway approaches.

Please Note: These projects are funded by borrowed funds. They must be spent within eighteen months.

CONSTRUCTION PROJECTS

Department: Engineering

03-09-2015

Project Number (if known)	Project Description	Economic/ Useful Life in years (if known)	Amount	Estimated Construction Start Date	Estimated Completion Date	Estimated Final Payment Date	Funding
	Fair Oak Water Tower – Sand Blasting & Recoating - DESIGN	20+	\$30,000	06-01-2015	07-31-2015	12-18-2015	\$30,000 Water Utility

This project is to Design a recoat system for the Fair Oak Tower that was put on line in 1989. A recoat system on a tank has an average life span of approximately 20 to 25 years and to insure a 20 to 25 year life of the coating system it is recommended that the entire tower be sand blasted to bare steel, apply a new primer and apply a coating system. Conditions that would affect the coating would be weather, variations in water chemistry, changing water levels in the tank. The adhesion of a coating system fails as time goes on. Flaking, delamination and rusting could also occur. You will find that when a coating system starts to break down mold and mildew spores start to grow causing the area of failure to become a black color.

A five year inspection is done on all our towers at which time a coating adhesion test was performed. Having the five year inspection done helps the utility forecast maintenance expenditures. The inspection not only determines the condition of the interior and exterior coatings but insures the structural integrity of the tower as well. The inspections also makes sure the utility stays in compliance with sanitation guidelines along with safety and security regulations in accordance with AWWA, OSHA, DNR, EPA and US department of homeland security. If additional work or upgrades need to be made to come into compliance, this is the time while recoating the tower to make such upgrades.

Please Note: These projects are funded by borrowed funds. They must be spent within eighteen months.

CONSTRUCTION PROJECTS

Department: Engineering

03-09-2015

Project Number (if known)	Project Description	Economic/ Useful Life in years (if known)	Amount	Estimated Construction Start Date	Estimated Completion Date	Estimated Final Payment Date		Funding
	Station #5 Reservoir – Repair Recommendations	10+	\$100,000	06-01-2015	08-28-2015	12-18-2015		\$100,000 Water Utility

The Water Utility Station #5 Reservoir is a million gallon underground reservoir located on Town Hall Road near Community Memorial Hospital. The existing concrete floor topping has many conical-shaped spalls. The proposed repair will involve 80 4-foot square repair areas that will be about 2" in depth. The majority of the floor topping is in a good sound condition. Also, there are several ladders whose lower rungs have become severely corroded. These ladders are proposed to be repaired with stainless steel ladders to resist corrosion and enhance staff safety.

Please Note: These projects are funded by borrowed funds. They must be spent within eighteen months.

CONSTRUCTION PROJECTS

Department: Engineering

03-09-2015

Project Number (if known)	Project Description	Economic/ Useful Life in years (if known)	Amount	Estimated Construction Start Date	Estimated Completion Date	Estimated Final Payment Date		Funding
62033	16" Water Main Relay – Pilgrim Road Reconstruction	20+	\$555,625	06-01-2015	11-20-2015	07-01-2016		\$555,625 Water Utility

The Village has entered into an Agreement with the Wisconsin Department of Transportation to Reconstruct Pilgrim Road from Megal Drive to 300 feet South of Main Street. This project will begin where the previous reconstruction of Pilgrim Road stopped North of Megal Drive and end South of Main Street where the deteriorated concrete pavement ends.

As part of the project the Village will be relaying the existing 16" water main which was installed in 1959 and is a major north-south transmission main. With the reconstruction of Pilgrim Road schedule for the summer of 2015 it is the time to replace the water main due to its age and if it was not done and there were a break, the water utility would excavate in the new roadway. The Village has asked the WDOT to have this relay included in the project being bid for the reconstruction.

Please Note: These projects are funded by borrowed funds. They must be spent within eighteen months.

CONSTRUCTION PROJECTS

Department: Engineering

03-09-2015

Project Number (if known)	Project Description	Economic/ Useful Life in years (if known)	Amount	Estimated Construction Start Date	Estimated Completion Date	Estimated Final Payment Date		Funding
	Duke Court, Lambs Lane & Amy Lane - Construction	20+	\$265,000	06-01-2015	08-28-2015	12-18-2015		\$265,000 General Obligation

This project consists of the reconstruction of Duke Court, Lambs Lane and Amy Lane in the Shepherd Hill Addition No. 1 subdivision. These are the last roadways in the Shepherd Hill Addition No. 1 subdivision in need for repair and storm sewer installation. Duke Street, St. James Drive and Maryhill Drive are complete and Princeway is currently under construction. This roadway does not currently have any storm sewer and storm water drains overland from the top of the hill to the bottom at Duke Street. The reconstruction will include adjusting of sanitary sewer manholes, removal and replacement of defective curb & gutter and driveway approaches, installation of storm sewer and removal and replacement of the asphalt pavement. The water main was replaced as part of the Princeway water main project in 2014.

This subdivision also has experienced storm water problems from flooding to icing of the roadways during the winter. The only storm sewer in the subdivision is in Duke Street with the remaining street draining by curb & gutter to Duke Street. The Storm Sewer will also eliminate the poor drainage, standing water potential damage to the curb & gutter and asphalt pavement. With the installation of the water main and storm sewer the roadway will be mostly removed so the entire pavement will be removed and replaced along with defective curb & gutter.

CONSTRUCTION PROJECTS

Department: Engineering

03-09-2015

Project Number (if known)	Project Description	Economic/ Useful Life in years (if known)	Amount	Estimated Construction Start Date	Estimated Completion Date	Estimated Final Payment Date	Funding
	May Avenue – Fleet Ave to Arthur Ave - Water Main Relay, Storm Sewer & Street - Design	20+	\$30,000	06-01-2015	11-20-2015	12-18-2015	\$15,000 General Obligation
							\$15,000 Water Utility

This project consists of designing a relay of the water main with appurtenances in May Avenue from Fleet Ave to Arthur Avenue along with the reconstructing of the sanitary sewer manholes, removal and replacement of Defective curb & gutter and driveway approaches, installation of storm sewer and removal and replacement of the base course and asphalt pavement.

The existing 6" water main will be replaced with an 8" water main due to the age of the water main and material of the water main. The existing water main is sandcast with lead joints. The DNR requires that when possible the existing water main with lead joints and lead laterals be removed from service.

Also as part of this project the Storm Sewer will be sized appropriately and eliminate the poor drainage and standing water to reduce future damage to the curb & gutter and asphalt pavement. With the installation of the water main and storm sewer the roadway will be mostly removed and the current roadway is in poor condition. Due to these factors the entire roadway will be removed to the subgrade and new base course, curb & gutter and asphalt pavement will be installed. Any defective sidewalk and driveway approaches will be replaced.

Please Note: These projects are funded by borrowed funds. They must be spent within eighteen months.

CONSTRUCTION PROJECTS

Department: Engineering

03-09-2015

Project Number (if known)	Project Description	Economic/ Useful Life in years (if known)	Amount	Estimated Construction Start Date	Estimated Completion Date	Estimated Final Payment Date	Funding
	Cherokee Drive Reconstruction - Water St to Cheyenne Dr - Design	20+	\$40,000	06-01-2015	11-20-2015	12-18-2015	\$25,000 General Obligation
							\$15,000 Water Utility

This project consists of Design for the reconstruction of Cherokee Drive from Water Street to Cheyenne. The reconstruction will include relaying of the water main with appurtenances in Cherokee Drive along with the adjusting of sanitary sewer manholes, removal and replacement of defective curb & gutter and driveway approaches, upsizing of existing storm sewer, installation of additional storm sewer and removal and replacement of the asphalt pavement.

The existing 8" water main will be replaced due to the age, cast iron material of the water main and the water main breaks in this subdivision. This section of water main has had three (3) water main breaks over the last two (2) years. This street has become a maintenance problem for the Water Utility and Public Works Dept and the water main needs to be replaced.

This Area also has experienced storm water problems and the upsize in storm sewer was recommended as part of the Storm Sewer System Study completed by Ruekert/Mielke in 2001. The Storm Sewer will also eliminate the poor drainage, standing water potential damage to the curb & gutter and asphalt pavement. With the installation of the water main and storm sewer the roadway will be mostly removed so the entire pavement will be removed and replaced along with defective curb & gutter.

CONSTRUCTION PROJECTS

Department: Engineering

03-09-2015

Project Number (if known)	Project Description	Economic/ Useful Life in years (if known)	Amount	Estimated Construction Start Date	Estimated Completion Date	Estimated Final Payment Date	Funding
41183	Elsie Avenue – Fleet Ave to Arthur Ave -Water Main Relay, Storm Sewer & Street - Construction	20+	\$420,000	06-01-2015	11-21-2015	12-18-2015	\$265,000 General Obligation
							\$25,000 Sewer Utility
							\$130,000 Water Utility

This project consists of relay of the water main with appurtenances in Elsie Avenue from Fleet Ave to Arthur Avenue along with the reconstructing of the sanitary sewer manholes, removal and replacement of defective curb & gutter and driveway approaches, installation of storm sewer and removal and replacement of the base course and asphalt pavement.

The existing 6" water main will be replaced with an 8" water main due to the age of the water main and material of the water main. The existing water main is sandcast with lead joints. The DNR requires that when possible the existing water main with lead joints and lead laterals be removed from service.

Also as part of this project the Storm Sewer will be sized appropriately and eliminate the poor drainage and standing water to reduce future damage to the curb & gutter and asphalt pavement. With the installation of the water main and storm sewer the roadway will be mostly removed and the current roadway is in poor condition. Due to these factors the entire roadway will be removed to the subgrade and new base course, curb & gutter and asphalt pavement will be installed. Any defective sidewalk and driveway approaches will be replaced.

Please Note: These projects are funded by borrowed funds. They must be spent within eighteen months.

CONSTRUCTION PROJECTS

Department: Engineering

03-09-2015

Project Number (if known)	Project Description	Economic/ Useful Life in years (if known)	Amount	Estimated Construction Start Date	Estimated Completion Date	Estimated Final Payment Date		Funding
41184	St. Mark Drive – St. Francis Dr to Trailer Park - Water Main Relay - Construction	20+	\$295,000	06-01-2014	11-21-2014	12-18-2014		\$50,000 General Obligation
								\$245,000 Water Utility

This project consists of a relay of the water main with appurtenances in St. Francis Drive from Appleton Avenue to St. Mark Drive and in St. Mark Drive from St. Francis Drive to the Trailer Park. The storm sewer will also be upgraded to correct any deficiencies in the system. Design was approved as part of the 2014 Capital Budget.

The existing 8" water main will be replaced due to the age of the water main, material of the water main and number of breaks in the Shepherd Hills Addn No. 2 subdivision.

Please Note: These projects are funded by borrowed funds. They must be spent within eighteen months.

CONSTRUCTION PROJECTS

Department: Engineering

03-09-2015

Project Number (if known)	Project Description	Economic/ Useful Life in years (if known)	Amount	Estimated Construction Start Date	Estimated Completion Date	Estimated Final Payment Date	Funding
	Kiwanis Park Play Structure Replacement	20+	\$145,000	06-01-2015	08-28-2015	12-18-2015	\$145,000 General Obligation

The project consists of replacing the play structure, installing a perimeter sidewalk and benches as well as removing the existing bark mulch and installing rubberized fall protection material.

Please Note: These projects are funded by borrowed funds. They must be spent within eighteen months.

CONSTRUCTION PROJECTS

Department: Engineering

03-09-2015

Project Number (if known)	Project Description	Economic/ Useful Life in years (if known)	Amount	Estimated Construction Start Date	Estimated Completion Date	Estimated Final Payment Date	Funding
	Menomonee River Siphon Relay – Additional Funds	20+	\$120,000	06-01-2015	08-28-2015	12-18-2015	\$120,000 Sewer Utility

The Menomonee River Siphon is located under the Menomonee River south of the Main Street Bridge in Lime Kiln Park. The project was approved as part of the 2013 capital budget and the Engineering Dept hired Ruekert & Mielke to design the Siphon Relay. Once the design was complete the Village and Ruekert & Mielke began meeting with the WDNR and ACOE to obtain permits for the project. In our meetings it became apparent that the open cut with blasting or boring of the pipe were not going to work or be permitted. Due to the sensitive nature of the area the trench will have to be ground using a diamond grinder on the end of a backhoe. To do this process is costlier and therefore we are requesting additional funds for the project.

Background:

The siphon was constructed in 1927 with 8" cast iron pipe and lead joints. The Village has investigated relining the siphon as part of the yearly program but the siphon cannot be relined due to the valves, bends and fittings. The siphon is past its useful life and in need of replacement.

A siphon is a depressed sanitary sewer that is used to pass under obstructions such as rivers. To pass these obstructions, a common method is for the sewer pipe to drop sharply, then run horizontal under the obstruction, and finally rise to the desired elevation to be returned to the gravity sewer. Unlike a gravity sewer, a siphon flows under pressure.

CONSTRUCTION PROJECTS

Department: Engineering

03-09-2015

Project Number (if known)	Project Description	Economic/ Useful Life in years (if known)	Amount	Estimated Construction Start Date	Estimated Completion Date	Estimated Final Payment Date	Funding
	Utility SCADA Upgrade	20+	\$110,000	05-04-2015	07-31-2015	12-18-2015	\$90,000 Sewer Utility
							\$20,000 Water Utility

SCADA stands for Supervisory Control And Data Acquisition. This is the system of hardware and software that the Utilities use to monitor, control and collect real time data on Lift Stations, flow monitors, water towers, wells, ect. The current system has been in operation for over ten years and we are experiencing many 'freeze-ups' in the system. It is becoming unstable and somewhat unreliable and the system is operating on an obsolete Windows XP operating system. We are also changing the SCADA software to be compatible with that used for the Water Utility. We are phasing out a large obsolete wall monitor and replacing it with a normal LED computer monitor.

The PLC's [operates the communications to all stations] is no longer manufactured. We will be installing new PLC's and software to mirror what's used on the water side. Also in a money saving effort the SCADA systems for water and sewer alarms are currently on separate emergency call out auto dialers. This upgrade would combine sewer and water auto dialers to just one call out system. By installing the same equipment for sewer and water makes it much more efficient. In emergency situations this would allow us to be able to use the same equipment parts for both systems for trouble shooting purposes.