CITY OF APPLETON
CAPITAL IMPROVEMENTS PROGRAM 2016 - 2020
PROJECT REQUEST FORMS

Project request forms for those projects to be funded in the 2016 - 2020 Capital Improvements Program are included in this section.

CITY OF APPLETON 2016 BUDGET
CAPITAL IMPROVEMENTS PROGRAM, 2016-2020
PROJECT CATEGORY LIST

Page	Project	Dept Code	2016	2017	2018	2019	2020
	Infrastructure						
568	Exhibition Center	CD	$ 965,000	$ -	$ -	$ -	$ -
569	Miscellaneous Site Acquisition	CD	250,000	350,000	250,000	350,000	-
570	TIF District # 6 - Southpoint Commerce Park	CD	92,225	112,585	73,654	29,725	124,011
571	Bridge Improvements	PW	779,904	358,800	90,185	500,000	96,200
572	Street Lighting Improvements	PW	76,793	76,793	76,793	-	-
573	Traffic Camera Program	PW	27,500	27,500	27,500	-	-
574	Traffic Sign Retro-reflectivity Mandate	PW	-	-	375,000	-	-
575	Second Raw Water Line	WF	-	75,000	800,000	7,585,000	-
576	Asphalt Paving Program	PW	1,772,883	1,676,522	1,899,590	1,667,839	1,478,467
580	Concrete Paving Program	PW	7,477,903	8,184,149	5,010,229	5,446,014	4,036,686
586	Grade & Gravel Program	PW	-	225,975	-	-	-
588	Sidewalk Program	PW	1,186,306	1,006,204	1,183,455	1,137,191	1,164,485
590	Stormwater Program	SW	4,431,625	12,929,393	4,313,445	4,390,396	8,170,738
596	Water Main Program	WD	2,784,567	4,049,132	3,541,027	3,178,052	3,340,752
602	Sanitary Sewer Program	WW	1,645,052	3,553,179	1,875,650	2,177,030	1,892,269
	Facilities						
608	Downtown Development	PRFM/PAR	1,000,000	10,940,000	26,670,000	12,400,000	500,000
609	Electrical Upgrades	PRFM	80,000	175,000	200,000	200,000	-
610	Grounds Improvements	PRFM	65,000	45,000	50,000	15,000	35,000
611	Hardscape Infrastructure Improvements/Replace.	PRFM	480,000	570,000	440,000	450,000	400,000
612	HVAC Upgrades	PRFM	445,000	330,000	400,000	235,000	100,000
613	Interior Finishes & Furniture	PRFM	205,000	40,000	135,000	190,000	10,000
614	Lighting Upgrades	PRFM	230,000	250,000	200,000	200,000	150,000
615	MSB Heated Storage Facility	PRFM	-	-	-	650,000	-
616	Plumbing Improvements	PRFM	45,000	100,000	-	-	-
617	Police Station Parking Deck Repair	PRFM	45,000	95,000	-	-	-
618	PRFM Operations Center	PRFM	-	-	-	350,000	-
619	Roof Replacements	PRFM	355,000	410,000	250,000	420,000	45,000
620	Safety & Security Improvements	PRFM	85,000	385,000	155,000	55,000	25,000
621	Storage Construction	PRFM	42,500	-	-	-	-
622	Wastewater Plant Lab Upgrades	PRFM	100,000	-	-	-	-
623	Parking Utility Maintenance & Equipment	PAR	145,000	550,000	180,000	150,000	125,000
624	Water Treatment Chemical Storage	WF	250,000	-	-	-	-
625	Total Max. Daily Load Facility Planning	WW	-	-	-	-	100,000
626	Wastewater Sludge Storage Options	WW	-	405,074	3,755,032	-	-
	Equipment						
627	Additional Vehicle for Station # 6	FD	-	-	610,000	-	-
628	Emergency Vehicle Traffic Preemption Upgrade	FD	146,806	152,131	-	-	-
629	Training Tower Repairs/Upgrade	FD	50,000	198,600	-	-	-

CITY OF APPLETON 2016 BUDGET
CAPITAL IMPROVEMENTS PROGRAM, 2016-2020
PROJECT CATEGORY LIST

Page	Project	Dept Code	2016	2017	2018	2019	2020
	Equipment - Continued						
630	Enterprise Resource Planning (ERP) System	IT	2,750,000	400,000	-	-	-
631	Information Technology Equipment & Infrastructure	IT	135,000	-	350,000	-	-
632	Electronic Poll Book	LGL	-	-	50,400	-	-
633	Tabulating Machine for Elections	LGL	-	-	98,500	-	-
634	CEA Fuel Site Upgrades	PW	-	-	100,000	-	-
635	Digital Radios	PW	79,000	-	-	-	-
636	Engineering-Survey Instrument Replacement	PW	35,000	-	30,000	-	-
637	Street Sweeper	STR	-	-	-	-	70,000
638	Pressure Zone Control Valve Stations	WF	-	-	350,000	-	-
639	Radio-Read System Replacement for Water Meters	WD	1,920,059	486,729	-	-	-
640	Tower Mixer Installations	WF	-	60,000	-	-	-
641	Aeration Blower Replacement	WW	-	1,065,000	-	-	-
642	Bar Screen # 1 Gate Valve	WW	125,000	-	-	-	-
643	Belt Filter Press Electrical Improvements	WW	115,000	-	-	-	-
644	Effluent Pump Capacity Upgrade	WW	-	1,875,000	-	-	-
645	Receiving Station Improvements	WW	-	200,000	2,000,000	-	-
	Quality of Life						
646	AMP Master Plan	PRFM	115,000	850,000	250,000	-	-
647	AMP/Athletic Fields	PRFM	75,000	780,000	65,000	145,000	100,000
648	Erb Park/Pool Renovations	PRFM	2,921,968	-	725,000	-	1,225,000
649	Park ADA Improvements	PRFM	50,000	50,000	50,000	50,000	50,000
650	Park Development	PRFM	-	-	125,000	1,725,000	400,000
651	Pavilion/Restroom Improvements	PRFM	-	25,000	405,000	415,000	550,000
652	Playground Areas	PRFM	240,000	-	275,000	-	250,000
653	Reid Golf Course Improvements	PRFM	-	175,000	65,000	47,500	57,500
654	Riverfront Initiatives	PRFM	50,000	450,000	1,100,000	2,350,000	800,000
655	Scheig Center	PRFM	65,000	15,000	40,000	-	-
656	Southeast Community Park	PRFM	-	-	-	2,200,000	2,250,000
657	Statue & Monument Restoration	PRFM	10,000	10,000	30,000	10,000	10,000
658	Telulah Park Improvements	PRFM	68,827	300,000	-	-	-
659	Tennis Courts	PRFM	-	140,000	240,000	250,000	115,000
660	Trails & Trail Connections	PRFM	115,000	50,000	465,000	250,000	150,000
			$33,163,918	$54,202,766	$59,375,460	$49,218,747	$27,821,108
	Issue costs/capitalized labor/available fund balance		37,880				
	Net		$33,201,798				

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Exhibition Center

PROJECT DESCRIPTION

In April 2014, CSL/CVB presented to the Community the updated feasibility study. The report focused on four points which staff and community members have been working to understand/accomplish. The Community Foundation commitment to buy $5 million of private placement bonds was announced at the same time as the report release. On June 24, 2014 the Outagamie Co. Board approved the City of Appleton's purchase agreement.

In 2015, the City engaged Hinshaw Culbertson to advise and assist staff with the project. Tasks addressed include: Geotechnical and soil boring analysis, review of governing documents, comparison of alternative ownership and financing structures, facilitating stakeholder communication, analysis of impact for the hotel unexpectedly being listed for sale of auction.com, review of public use doctrine, review of various state statutes.

March 4, 2015 the City Council approved the purchase of the proposed site with contingencies.
May 18, 2015 Inner Circle Investments announce purchase of the Radisson Paper Valley

In 2016, upon completion of the contingencies and purchase of the proposed site, the City of Appleton will continue to work with other municipalities, stakeholder groups, professionals and consultants as necessary to:
-Construct the Exhibition Center with completion of design, engineering and bidding
-Structure and secure financing
-Continue coalition building and collaboration
-Develop policies as needed

Discussion of operating cost impact:

Operating expenses will be borne by the Radisson Paper Valley Hotel. Ownership, governance structure, lease, and final decisions are pending.

DEPARTMENT COST SUMMARY

DEPARTMENT	PHASE	2016	2017	2018	2019	2020	Total
Community Development	Legal services/site plan/ Stormwater design	300,000	-	-	-	-	$ 300,000
	Pedestrian bridge (1/2)	368,000	-	-	-	-	$ 368,000
	Stormwater on-site	130,000	-	-	-	-	$ 130,000
	Power poles - County	167,000	-	-	-	-	$ 167,000
Total - Community Development Capital Projects Fund		$ 965,000	$ -	$ -	$ -	$ -	$ 965,000

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	-	-	-	-	-	$ -
Land Acquisition	-	-	-	-	-	$ -
Construction	965,000	-	-	-	-	$ 965,000
Other	-	-	-	-	-	$ -
Total	$ 965,000	$ -	$ -	$ -	$ -	$ 965,000
Operating Cost Impact	$ -	$ -	$ -	$ -	$ -	$ -

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Miscellaneous Site Acquisition and Projects - Appleton Redevelopment Authority (ARA)

PROJECT DESCRIPTION

Justification:

The focus of the ARA is to promote economic and community development by investing in and growing the community by eliminating blighted areas throughout the community. The goal of ARA is to provide for redevelopment activities throughout the City as necessary to maintain and enhance viable residential, commercial, and industrial development.

The City's Comprehensive Plan 2010-2030, Downtown Plan, the Focus Fox River: A Master Plan, the Economic Development Strategic Plan have identified areas where redevelopment may be appropriate. The ability of the City to acquire properties in these areas as they become available will enhance our ability to influence meaningful redevelopment. Supporting the retention, growth and long-term economic vitality of Appleton's businesses is also a priority.

This request is for funding Appleton Redevelopment Authority to complete next steps in the redevelopment of properties and projects that become available within areas of the City that are in need of redevelopment. These redevelopment projects will become part of a developed plan to revive depressed areas of the City. Funding is requested for demolition and site preparation activities, including infrastructure improvements, planning and analysis to support redevelopment projects and brownfield mitigation. Due to the confidential nature of the preliminary development stages, the specific locations cannot be shared at this time.

Discussion of operating cost impact:

The final impact on operating costs is undetermined at this time since the properties and the final use for the properties has not been finalized.

DEPARTMENT COST SUMMARY

DEPARTMENT	PHASE	2016	2017	2018	2019	2020	Total
Community Development	Legal, planning, consulting	-	-	250,000	-	-	$ 250,000
	Site acquisition	250,000	-	-	350,000	-	$ 600,000
	Demolition, site prep infrastructure	-	350,000	-	-	-	$ 350,000
Total - Community Development Capital Projects Fund		$ 250,000	$ 350,000	$ 250,000	$ 350,000	$ -	$ 1,200,000

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	-	-	250,000	-	-	$ 250,000
Land Acquisition	250,000	-	-	350,000	-	$ 600,000
Construction	-	350,000	-	-	-	$ 350,000
Other	-	-	-	-	-	$ -
Total	$ 250,000	$ 350,000	$ 250,000	$ 350,000	$ -	$ 1,200,000
Operating Cost Impact	$ -	$ -	$ -	$ -	$ -	$ -

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: TIF District # 6/IPLF - Southpoint Commerce Park

PROJECT DESCRIPTION

Justification:

This project comprises infrastructure development for the Southpoint Commerce Park in the southeast growth area of the City. The 359-acre site will be developed in several phases over the next several decades. The first half of the Park will be developed using the Tax Incremental District #6 (TIF #6) created in 2000. The TIF #6 Plan projects the district will create $75 million in tax base. Job creation and retention will also be significant.

The 2016 - 2017 budgets provide funding to extend only Vantage Drive from Lakeland Drive to Eisenhower Drive as the next phase for Southpoint and the final phase that would be paid for by TIF #6. This would include City utility infrastructure work in 2016 and paving work and non-City utility infrastructure 2017. Non-City infrastructure includes gas, electric, cable service, and street lights. Funding in 2018 and beyond is for maintenance of the Park that will come from the Industrial Park Land Fund while TID #6 recaptures the investments it's made in this District. The City will evaluate the need for additional infrastructure and platting of the land for the Park and will determine at a later date if a new TIF District will be created in 2018 or beyond to fund these costs. Eligible expenditures may be made in TIF #6 until February 14, 2018.

City infrastructure not included in cost summary below for 2016 includes:

	TIF # 6	Industrial Park Land Fund	Project Page
Concrete paving program	$ 1,232,156	2,223	Page 580
Storm Sewer construction	101,460	-	Page 590
Water Main construction	102,180	-	Page 596
Sanitary sewer construction	50,894	-	Page 602
	$ 1,486,690	$ 2,223	

Discussion of operating cost impact:

As the industrial park develops, it may be necessary to add personnel for snow plowing, police patrols, and fire protection.

DEPARTMENT COST SUMMARY

DEPARTMENT	PHASE	2016	2017	2018	2019	2020	Total
Comm Dev	Non-City Improvements	-	-		-	-	$ -
Comm Dev	Site Grading/Prep	-	-		-	-	$ -
Comm Dev	Administration	-		29,725	29,725	29,725	$ 89,175
Comm Dev	San. Area Assess.	-	-	43,929	-	94,286	$ 138,215
Industrial Park Land Fund		-	-	73,654	29,725	124,011	$ 227,390
Comm Dev	Non-City Improvements		87,860	-	-	-	$ 87,860
Comm Dev	Site Grading/Prep	30,000	-	-	-	-	$ 30,000
Comm Dev	Administration	24,725	24,725	-	-	-	$ 49,450
Comm Dev	San. Area Assess.	37,500	-	-	-	-	$ 37,500
TIF # 6		92,225	112,585	-	-	-	$ 204,810
Total - Southpoint Commerce Park Capital Projects		$ 92,225	$ 112,585	$ 73,654	$ 29,725	$ 124,011	$ 432,200

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	-	-	-	-	-	$ -
Land Acquisition	-	-	-	-	-	$ -
Construction	30,000	87,860	-	-	-	$ 117,860
Other	62,225	24,725	73,654	29,725	124,011	$ 314,340
Total	$ 92,225	$ 112,585	$ 73,654	$ 29,725	$ 124,011	$ 432,200
Operating Cost Impact	$ -	$ -	$ -	$ -	$ -	$ -

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Bridge Improvements

PROJECT DESCRIPTION

Justification:

Lawe Street & South Island Street over the Power Canal*
The existing structures have deteriorated wearing surfaces, spalling, and delamination of the prestressed concrete box-girders. We received design and construction funding for Lawe Street from the State and the project is scheduled to bid in December of 2015 and constructed in 2016. We anticipate applying for design and construction funds for South Island Street in 2015 and anticipate an 80% cost share from the State. The State will hold the contracts on these projects.

Roemer Road over Drainage Ditch
This structure was rehabilitated in 2010 to address immediate structural deficiencies. Based on the 2014 consultant bridge inspection and recommendation, this bridge should be scheduled for replacement in 2020. We will reevaluate the structure after the 2016 bridge inspection and adjust the construction accordingly. The schedule for the structure currently has the design in 2018 and construction in 2019. This replacement will not receive State financial support because it is under 20' in length.

Olde Oneida Street over S. Power Canal*
The 2017 expenditure represents the cost of a rehabilitation report needed to assess the structure. This report is required when applying for Trans 213 Local Bridge Program funding. Based on the 2014 consultant bridge inspection and recommendation, this bridge is a candidate for a superstructure replacement. Future funds are included for design in 2020. We anticipate applying for design and construction funds in 2019 and anticipate an 80% cost share from the State. The State will hold the contracts on these projects.

Lawe Street over Fox River*
The 2017 expenditure represents the cost of a rehabilitation report needed to assess the structure. This report is required when applying for Trans 213 Local Bridge Program funding. Based on the 2014 consultant bridge inspection and recommendation, this bridge is a candidate for either a concrete overlay or a deck replacement. Future funds are included for design in 2020, while construction funds will be added in 2022. We anticipate applying for design and construction funds in 2019 and anticipate an 80% cost share from the State. The State will hold the contracts on these projects.

Memorial Drive over Fox River*
The 2018 expenditure represents the cost of a rehabilitation report needed to assess the structure. This report is required when applying for Trans 213 Local Bridge Program funding. Based on the 2012 consultant bridge inspection and recommendation, this bridge is a candidate for a concrete overlay and repainting of the structural steel. Future funds for design and construction will be added in 2022 and 2023 respectively. We anticipate applying for design and construction funds in 2021 and anticipate an 80% cost share from the State. The State will hold the contracts on these projects.

*Part of the State run Local Bridge Program

Discussion of operating cost impact:

These repair projects are not expected to affect other operating costs.

DEPARTMENT COST SUMMARY

DEPARTMENT PHASE	2016	2017	2018	2019	2020	Total
Public Works						
Lawe St. over power canal	672,104	-	-	-	-	$ 672,104
S. Island St. over power canal	107,800	318,800	-	-	-	$ 426,600
Roemer Rd. over drainage ditch	-	-	70,185	500,000	-	$ 570,185
Olde Oneida St. over S. canal	-	20,000	-	-	27,200	$ 47,200
Lawe St. over Fox River	-	20,000	-	-	69,000	$ 89,000
Memorial Dr. over Fox River	-	-	20,000	-	-	$ 20,000
Total - Public Works Capital Projects Fund	$ 779,904	$ 358,800	$ 90,185	$ 500,000	$ 96,200	$ 1,825,089

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	107,800	40,000	70,185	20,000	96,200	$ 334,185
Construction	635,000	251,891	20,000	480,000	-	$ 1,386,891
Other	37,104	66,910	-	-	-	$ 104,014
Total	$ 779,904	$ 358,800	$ 90,185	$ 500,000	$ 96,200	$ 1,825,089
Operating Cost Impact	$ -	$ -	$ -	$ -	$ -	$ -

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Street Lighting Energy Efficiency Improvements

PROJECT DESCRIPTION

Justification:

This request is intended to allow for investment into energy-efficient street lighting technologies. Due to the rapidly changing marketplace, we continue to reevalute the available technology options to determine the best return on investment.

WE Energies began offering LED fixtures in July, 2015. Our evaluation of this new tariff shows that investment in this area would yield a return on investment (ROI) of about 3 to 5 years, which is significantly better than the ROI we would have achieved by retrofitting/replacing our ~300 remaining City-owned decorative fixtures.

We anticipate expending the requested funds to strategically retrofit leased street lights in 2016-2018. After that time, we may seek to retrofit or replace the remaining City-owned decorative fixtures if a suitable solution is developed and if the ROI exceeds what could be acheived through leased lighting upgrades.

Note:
All remaining city-owned HID (non-LED) fixtures are the decorative style, which makes them complicated to retrofit, and very expensive to replace. While we are continuing to work with vendors to develop cost-effective options for these street lights, but it is unclear when a viable solution will become available.

Discussion of operating cost impact:

Operating costs are driven downward when existing street lights are retrofitted with LED (or similar) technology.

DEPARTMENT COST SUMMARY

DEPARTMENT	PHASE	2016	2017	2018	2019	2020	Total
Public Works	LED Street Light Retrofits	76,793	76,793	76,793	-	-	$ 230,380
		-					$ -
Total - Public Works Cap Projects Fund		$ 76,793	$ 76,793	$ 76,793	$ -	$ -	$ 230,380

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	-	-	-	-	-	-
Land Acquisition	-	-	-	-	-	-
Construction	75,000	75,000	75,000			225,000
Other	1,793	1,793	1,793		-	5,380
Total	$ 76,793	$ 76,793	$ 76,793	$ -	$ -	$ 230,380
Operating Cost Impact	$ (9,138)	$ (28,512)	$ (49,032)	$ (59,915)	$ (61,713)	$ (208,310)

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Traffic Camera Program

PROJECT DESCRIPTION

Justification:

Traffic Camera Program

The traffic cameras program, which began in 2006, has proved to be an invaluable tool for City staff. This system is used extensively to: 1) monitor daily traffic, 2) monitor and react in real time to work zone traffic issues, 3) monitor and react in real time to traffic incidents, 4) reconstruct traffic crashes, 5) monitor winter road conditions, and 6) effectively deal with public safety issues. It has become an irreplacable asset which helps staff conduct their duties much more efficiently, and provides numerous additional capabilities to Public Works and APD staff.

Potential camera locations are evaluted and prioritized based on crash history, public safety concerns, traffic volumes, installation logisitics, and the like, with an emphasis on maximizing return on investment. With this in mind, cameras are typically installed at intersections along arterial, collector and CBD streets.

This buildout of this program is proposed to continue through 2018. Beyond 2018, funding would shift from expansion to maintenance, including equipment replacements and upgrades.

The $27,500 budgeted in 2016 is expected to fund cameras at approximately 7 locations, depending on the presence of communication infrastructure and poles.

Discussion of operating cost impact:

Traffic Camera Program: Initially, this program has had negligible operating cost impact. However, over time, the equipment will require maintenance and eventual replacement. While maintenance costs are expected to be negligible, we anticipate the cameras and appurtenant hardware will need to be replaced approximately every 5-8 years, at an anticipated cost of $2,900 per location.

DEPARTMENT COST SUMMARY

DEPARTMENT PHASE	2016	2017	2018	2019	2020	Total
Public Works						
Traffic Camera Program	27,500	27,500	27,500	-	-	$ 82,500
Total - Public Works Capital Projects Fund	$ 27,500	$ 27,500	$ 27,500	$ -	$ -	$ 82,500

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	-	-	-	-	-	-
Land Acquisition	-	-	-	-	-	-
Construction	25,000	25,000	25,000	-	-	75,000
Other	2,500	2,500	2,500	-	-	7,500
Total	$ 27,500	$ 27,500	$ 27,500	$ -	$ -	$ 82,500
Operating Cost Impact	$ 14,500	$ 17,400	$ 26,100	$ 31,900	$ 34,800	$ 124,700

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Traffic Sign Retro-reflectivity Mandate

PROJECT DESCRIPTION

Justification:

Traffic Sign Replacement due to FHWA Minimum Retro-reflectivity Mandate

In 2008, the Federal Highway Administration (FHWA) issued standards mandating minimum retro-reflectivity levels for most traffic-related signs. Retro-reflectivity refers to both the distance at which a sign becomes visible when illuminated by a vehicle's headlights and the level of contrast between the sign's lettering and background. This mandate originally required that all substandard traffic signs be brought into compliance (replaced) by 2015 or 2018, depending on the type of sign. While the deadlines associated with this mandate were recently eliminated, local agencies are still obligated to replace signs as they reach the end of their useful life, as identified by our sign inventory management system.

After accounting for replacements that have taken place in prior years and replacements that are scheduled in 2014 and 2015, we will be left with approximately 4,100 signs that will have reached the end of their useful life and will need to be replaced in subsequent years. Since we are able to replace approximately 1,000 signs per year with our current staffing level in the sign shop, the remainder of the work associated with this mandate (approximately 2,100 signs) will need to be contracted in order to comply with the requirements.

Discussion of operating cost impact:

There is no operating cost impact to this project.

DEPARTMENT COST SUMMARY

DEPARTMENT	PHASE	2016	2017	2018	2019	2020	Total
Public Works	Sign Retro-reflectivity Mandate (Contracted)	-	-	375,000	-	-	$ 375,000
Total - Public Works Capital Projects Fund		$ -	$ -	$ 375,000	$ -	$ -	$ 375,000

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	-	-	-	-	-	-
Land Acquisition	-	-	-	-	-	-
Construction	-	-	375,000	-	-	375,000
Other	-	-	-	-	-	-
Total	$ -	$ -	$ 375,000	$ -	$ -	$ 375,000
Operating Cost Impact	$ -	$ -	$ -	$ -	$ -	$ -

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Second Raw Water Line

PROJECT DESCRIPTION

Justification:

The Appleton Water Treatment Facility (AWTF) serves the citizens of Appleton and wholesale customers in Grand Chute, Sherwood, and the Waverly Sanitary District. The AWTF draws raw water from Lake Winnebago through preliminary treatment at the raw water lake station. Once treated, the raw water is pumped to the AWTF via a 42" pipe line for further treatment. The intent of this project is to create reliability and redundancy in the raw water processing areas where there is a need or lack of redundancy.

The existing lake intake consists of a single four foot diameter pipe with two bell intakes. The intakes' configuration and building materials are prone to icing events that stop raw water. The lake station traveling screen removes large objects from the raw water intake such as logs, fish, and other debris. These materials are screened out of the water so they do not enter and damage the low lift pumps that pump water to the AWTF. The current screen has reached its useful life and is in need of a replacement. This project will provide a second raw water pipe, replacement screen, and a screenings conveyance system for the wastes to be collected. New screening technologies allow for greater removals of contaminants.

This project includes the construction of a second raw water pipe line from the lake station to the AWTF. The current single raw water pipe runs to the plant over approximately one mile from the lake station to the plant via a circa 1960's 42 inch raw water pipe. There is insufficient space for a second raw water pipe in the current route along Oneida Street. A 2017 study will provide recommendations for land procurement, easements, and permits where necessary to support the future second raw water pipe line construction in 2019.

This project will also explore a treated water interconnection with the City and/or Town of Menasha. The City has had discussions with the City of Menasha and Town of Menasha regarding potential interconnections to provide additional supply and redundancy when and if needed. In addition, the State Department of Natural Resources has recommended that Appleton pursue an emergency finished water interconnection. One potential option is an interconnection with the Town of Menasha at a location along Oneida Street where the water mains of the City and Town are in close proximity to Appleton's.

The indirect cost of losing the ability to serve its customers could involve liability claims against the city and all costs associated with failure to produce water. This project consists of conducting a pre-engineering study of the alternatives in 2017 that includes development of a firm estimate of construction costs. Construction of a second feeder line or City of Menasha interconnection will bring redundancy to the new water treatment plant.

Discussion of operating cost impact:

There is no operating cost increase to this project and the potential to avoid liability claims for loss of service.

DEPARTMENT COST SUMMARY

DEPARTMENT	PHASE	2016	2017	2018	2019	2020	Total
Water Utility	Engineering	-	75,000	800,000	-	-	$ 875,000
	Construction	-	-	-	7,585,000	-	$ 7,585,000
Total - Water Utility Capital Projects Fund		$ -	$ 75,000	$ 800,000	$ 7,585,000	$ -	$ 8,460,000

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	-	75,000	800,000	-	-	$ 875,000
Land Acquisition	-	-	-	-	-	$ -
Construction	-	-	-	7,585,000	-	$ 7,585,000
Other	-	-	-	-	-	$ -
Total	$ -	$ 75,000	$ 800,000	$ 7,585,000	$ -	$ 8,460,000
Operating Cost Impact	$ -	$ -	$ -	$ -	$ -	$ -

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Asphalt Paving Program

PROJECT DESCRIPTION
Justification:
The following is a summary of the cost associated with the streets identified for reconstruction this year.
A five year plan detailing this and future years' projects follows this summary page.
Discussion of operating cost impact:
Reconstruction is performed based upon the existing condition and expected useful remaining life of the street. However, budget constraints limit the number of streets which can be reconstructed annually.
Typically, less than 1% of our streets are reconstructed on an annual basis. This fact, coupled with new streets added annually to the system result in no overall reduction in our City-wide street maintenance costs.

DEPARTMENT COST SUMMARY

DEPARTMENT PHASE	2016	2017	2018	2019	2020	Total
Public Works - Reconstruction	1,693,212	1,401,838	1,899,590	1,667,839	1,478,467	$ 8,140,946
General Fund						
Public Works - Construction						
TIF # 9	79,671	-	-	-	-	$ 79,671
TIF # 10	-	274,684	-	-	-	$ 274,684
Public Works - Construction	-	-	-	-	-	$ -
Public Works - Developer Escrow	-	-	-	73,304	-	$ 73,304
Subdivision Fund	-	-	-	73,304	-	$ 73,304
Total - Asphalt - City	$ 1,772,883	$ 1,676,522	$ 1,899,590	$ 1,667,839	$ 1,478,467	$ 8,495,301
Total - Asphalt Paving Program	$ 1,772,883	$ 1,676,522	$ 1,899,590	$ 1,741,143	$ 1,478,467	$ 8,568,605

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	-	-	-	-	-	$ -
Land Acquisition	-	-	-	-	-	$ -
Construction	1,531,990	1,436,522	1,659,590	1,501,143	1,238,467	$ 7,367,712
Other	240,893	240,000	240,000	240,000	240,000	$ 1,200,893
Total	$ 1,772,883	$ 1,676,522	$ 1,899,590	$ 1,741,143	$ 1,478,467	$ 8,568,605
Operating Cost Impact	$ -	$ -	$ -	$ -	$ -	$ -

CITY OF APPLETON 2016 BUDGET
DEPARTMENT OF PUBLIC WORKS
ASPHALT PAVEMENT CAPITAL IMPROVEMENTS PROGRAM

2016	Street	From	To	General Fund Asphalt	TIF # 9	TIF # 10	Total Cost
Labor Pool				233,688	2,205		235,893
CEA Equipment				51,135			51,135
Consultant				5,000			5,000
Following Grade and Gravel							-
							-
							-
	Subtotal			-	-	-	-
Overlay	Pershing St	Meade St	Ballard Rd	338,450			338,450
	Subtotal			**338,450**	**-**	**-**	**338,450**
Partial Reconstruction	Locust St	Front St	Third St	30,584			30,584
	Madison St	Fremont St - 940' s/o	Calumet St	63,454			63,454
	Pierce St	Spencer St	Eighth St	24,965			24,965
	Riverfront Ct	Front St	cds	11,940			11,940
	Subtotal			**130,943**	**-**	**-**	**130,943**
Total Reconstruction	Douglas St	College Ave	Packard St	208,581			208,581
	Hancock St	Lawe St	Meade St	-	77,466		77,466
	Hancock St	Meade St	Rankin St	80,245			80,245
	McKinley St	Jackson St	Lawe St	65,307			65,307
	McKinley St	Oneida St	Jefferson, e/o	188,617			188,617
	McKinley St	w/o Ritger St	Ritger St	27,027			27,027
	Peabody St	Verbrick St	Seymour St	74,688			74,688
	Sampson St	North St	Atlantic St	114,808			114,808
	Verbrick St	Bouten St	Wilkie St	174,723			174,723
	Subtotal			**933,996**	**77,466**	**-**	**1,011,462**
Total Asphalt Pavement				**$ 1,693,212**	**$ 79,671**	**$ -**	**1,772,883**

2017	Street	From	To	General Fund Asphalt	TIF # 9	TIF # 10	Total Cost
Labor Pool				235,000			235,000
Consultant				5,000			5,000
Following Grade and Gravel							-
	Subtotal			**-**		**-**	**-**
Overlay							-
	Subtotal			**-**		**-**	**-**
							-
Partial Reconstruction	Broadway Drive	Meade St	Ballard Rd	225,960			225,960
	Coop Rd	Midway Rd	Lorna Lane	211,659			211,659
	French Rd	Applecreek Rd	Lochbur Lane	146,911			146,911
	College Avenue:						
	Frontage Rd	Lilas Dr	Lynndale Dr			73,373	73,373
	Frontage Rd	Lynndale Dr	Perkins St			77,133	77,133
	Frontage Rd	Perkins St	Woods Edge Dr (e/o)			63,596	63,596
	Subtotal			**584,530**		**214,102**	**798,632**
Total Reconstruction	Alley w/o Perkins	Charles St	Perkins St	44,531			44,531
	Bateman St	Pacific St	Atlantic St	49,869			49,869
	Douglas St	Pine St	Haskell St	89,812			89,812
	Fair St	Franklin St	south end	-		60,582	60,582
	Grant St	Nicholas St	Mason St	183,011			183,011
	Harriman St	Atlantic St	Winnebago St	71,709			71,709
	Herbert St	Pine St	Rogers Ave	45,431			45,431
	Winona Ct	Nawada St	Nawada St	92,945			92,945
	Subtotal			**577,308**		**60,582**	**637,890**
Total Asphalt Pavement				**$ 1,401,838**	**$ -**	**$ 274,684**	**1,676,522**

CITY OF APPLETON 2016 BUDGET
DEPARTMENT OF PUBLIC WORKS
ASPHALT PAVEMENT CAPITAL IMPROVEMENTS PROGRAM

2018	Street	From	To	General Fund Asphalt	Developer Escrow Account
Labor Pool				235,000	-
Consultant				5,000	
Following Grade and Gravel	New Subdivisions	escrowed funding except for labor			
	Subtotal			**-**	
Overlay					
	Subtotal			**-**	**-**
Partial Reconstruction					
	Viola St	Randall St	Grant St	87,546	
	Westwood Ct	Woodland Ave	cds	10,285	
	Willow Ct	Woodland Ave	cds	10,285	
	Woodland Ave	Meade St	Viola St	52,681	
	Subtotal			**160,797**	
Total Reconstruction	Catherine St	Washington St	North St	227,290	
	Drew St	Glendale Ave	Pershing St	229,199	
	Lincoln St	Olde Oneida St	Madison St	118,845	
	Marquette St	Division St	Oneida St	197,124	-
	Mary St	North St	Pacific St	83,455	
	Reeve St	Linwood Ave	Badger Ave	90,038	
	Rocky Bleir Run	Water St	park	102,895	
	Sanders St	Seymour St	Verbrick St	113,820	
	Summer St	Morrison St	Union St	239,652	
	Winnebago St	Linwood Ave	Badger Ave	96,475	
	Subtotal			**1,498,793**	
Total Asphalt Pavement				**$ 1,899,590**	**$ -**

2019	Street	From	To	General Fund Asphalt	Developer Escrow Account
Labor Pool				235,000	-
Consultant				5,000	
Following Grade and Gravel	New Subdivisions				73,304
	Subtotal			**-**	**73,304**
Overlay	Capitol Dr	Durkee St	Lawe St	101,306	
	McDonald St	Byrd St	Lindbergh St	20,673	
	McDonald St	Pershing St	Service Rd	77,486	
	Subtotal			**199,465**	**-**
Partial Reconstruction	Carroll St	Jackson St	Lawe St	32,215	
	Durkee St	Atlantic St	Summer St	98,304	
	Jefferson St	Coolidge Ave	Hoover Ave	121,363	
	McDonald St	Glendale Ave	Byrd St	110,800	
	McDonald St	Lindberg St	Pershing St	47,303	
	McDonald St	Randall St	Glendale Ave	16,467	
	Wilson Ave	Oneida St	Carpenter St	179,458	
	Subtotal			**605,910**	**-**
Total Reconstruction	Center St	North St	Atlantic St	131,745	
	Madison St	Calumet St	Taft Ave	233,226	
	Roosevelt St	Morrison St	Durkee St	64,245	
	Summit St	Spencer St	College Ave	193,248	
	Subtotal			**622,464**	**-**
Total Asphalt Pavement				**$ 1,667,839**	**$ 73,304**

CITY OF APPLETON 2016 BUDGET
DEPARTMENT OF PUBLIC WORKS
ASPHALT PAVEMENT CAPITAL IMPROVEMENTS PROGRAM

2020	Street	From	To	General Fund Asphalt
Labor Pool				235,000
Consultant				5,000
Following Grade and Gravel				
	Subtotal			**-**
Overlay	Capitol Dr	Pointer Rd(500' w/o)	Marshall Rd	155,733
	Subtotal			**155,733**
Partial Reconstruction	Candee St	College Ave	cds	17,566
	Cass St	Walter Ave	cds	19,335
	Harriet St	Walter Ave	Telulah Ave	31,211
	Henry St	Werner St	Telulah Ave	26,600
	Werner St	College Ave	Henry St	19,714
	Subtotal			**114,426**
Total Reconstruction	Carpenter St	Fremont St	Calumet St	326,272
	Morrison St	Hancock St	Wisconsin Ave	236,934
	Winnebago St	Division St	Drew St	405,102
	Subtotal			**968,308**
Total Asphalt Pavement				**$ 1,478,467**

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Concrete Paving Program

PROJECT DESCRIPTION

Justification:

The following is a summary of the costs associated with the streets identified for reconstruction this year. A five year plan detailing this and future years' projects follows this summary page.

Discussion of operating cost impact:

Reconstruction is performed based upon the existing condition and expected useful remaining life of the street. However, budget constraints limit the number of streets that can be reconstructed annually.

Typically, less than 1% of our streets are reconstructed on an annual basis. This fact, coupled with new streets added annually to the system, result in no overall reduction in our City-wide street maintenance costs.

DEPARTMENT COST SUMMARY

DEPARTMENT PHASE	2016	2017	2018	2019	2020	Total
Public Works - Reconstruction	1,755,597	3,814,653	3,435,502	3,753,492	4,036,686	$ 16,795,930
General Fund						
Public Works - Construction						
DPW Capital Projects Fund	3,344,781	2,423,233	-	-	-	$ 5,768,014
TIF # 6	1,232,156	1,517,063	-	1,657,804	-	$ 4,407,023
Industrial Park Land Fund	2,223	189,404	-	34,718	-	$ 226,345
Public Works - Construction	1,143,146	239,796	1,574,727	-	-	$ 2,957,669
Public Works - Developer Escrow	-	1,473,124	-	-	-	$ 1,473,124
Subdivision Fund	1,143,146	1,712,920	1,574,727	-	-	$ 4,430,793
Total - Concrete - City	$ 7,477,903	$ 8,184,149	$ 5,010,229	$ 5,446,014	$ 4,036,686	$ 30,154,981
Total - Concrete Paving Program	$ 7,477,903	$ 9,657,273	$ 5,010,229	$ 5,446,014	$ 4,036,686	$ 31,628,105

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Design	795,000	234,796	5,000	50,000	35,000	$ 1,119,796
Land Acquisition	525,000	50,000	25,000	50,000	25,000	$ 675,000
Construction	5,715,241	7,693,353	4,774,229	5,140,014	3,770,686	$ 27,093,523
Other	442,662	206,000	206,000	206,000	206,000	$ 1,266,662
Total	$ 7,477,903	$ 8,184,149	$ 5,010,229	$ 5,446,014	$ 4,036,686	$ 30,154,981
Operating Cost Impact	$ -	$ -	$ -	$ -	$ -	$ -

CITY OF APPLETON 2016 BUDGET
DEPARTMENT OF PUBLIC WORKS
CONCRETE PAVEMENT CAPITAL IMPROVEMENT PROGRAM

2016	Street	From	To	General Fund	DPW Capital Projects	TIF # 6	Industrial Park Land Fund	Sub-division Fund	Total Cost
Labor Pool				156,887	116,532	13,657	2,223	122,913	412,212
CEA				8,900	8,600	3,500	-	9,450	30,450
Land	Edgewood Dr (CTH JJ)	Ballard Rd	Lightning Dr	60,000					60,000
	Lightning Dr, new roundabout at Edgewood Dr (CTH JJ)			50,000					50,000
	Misc Land acquisition for street projects			75,000					75,000
	Oneida St	Hoover Ave	Skyline Bridge	525,000					525,000
	Richmond St	CTH OO (land)	HSIP funds	75,000					75,000
	S Island St - BRIDGE	over power canal	land acq	10,000					10,000
	Subtotal			**795,000**	**-**	**-**	**-**	**-**	**795,000**
Design	CTH KK	at 441	design study	40,000					40,000
	Material Testing							5,000	5,000
	Material Testing			10,000					10,000
	Oneida St	Hoover Ave	Skyline Bridge	125,000					125,000
	Subtotal			**175,000**	**-**	**-**	**-**	**5,000**	**180,000**
New Concrete (New Subdivisions Escrowed)									
	Subtotal			**-**	**-**	-	-	**-**	-
New Concrete (New Subdivisions non escrowed)									
	Aurora Dr	Forest St	cds					133,939	133,939
	Barton Ct	Highpond Tr	cds					52,590	52,590
	Highpond Tr	Smoketree Pass	Purdy Pkwy					189,306	189,306
	Lourdes Dr	Kensington Dr	Aurora Dr	-				226,283	226,283
	Ravenswood Ct	Ballard Rd	cds					54,645	54,645
	Smoketree Ps	Applehill Blvd	cds					349,020	349,020
	Subtotal			**-**	**-**	**-**	**-**	**1,005,783**	**1,005,783**
New Concrete (Not in New Subdivisions)									
	Endeavor Dr	Lakeland Dr	Eisenhower Dr			224,612			224,612
	Lakeland Dr	Endeavor Dr	Vantage Dr			198,599			198,599
	Lakeland Dr	Plank Rd	Endeavor Dr			185,592			185,592
	Plank Rd	Lake Park Rd	Lakeland Dr			606,196			606,196
	Subtotal			**-**	**-**	**1,214,999**	**-**	**-**	**1,214,999**
Reconstruction	Alley n/o Amelia St	Woodmere St	Ballard Rd	110,840					110,840
	Alley s/o College Ave	Badger Ave	Locust St	50,389					50,389
	Alley w/o Appleton St	Commercial St	Spring St	27,783					27,783
	Alley w/o Appleton St	Spring St	Summer St	27,783					27,783
	John St (CTH KK)	Walden Ave	Matthias Ave	-	2,256,468				2,256,468
	Calumet St (CHT KK)	Kensington Dr	to 441	35,000					35,000
	Midway Rd	Hemlock Ln	ped crossing	141,556	-				141,556
	Midway Rd	Kernan Ave	ped crossing	141,556	-				141,556
	Midway Rd	Whip-Poor-Will	ped crossing	30,707	-				30,707
	South River St	Kernan Ave	John St.	54,196	-				54,196
	Eighth St	Elm St	Elm St, 210' e/o)		65,959				65,959
	Eighth St	Walnut St	Elm St		167,786				167,786
	Elm St	Eighth St	Lawrence St		193,686				193,686
	Elm St	Sixth St	Seventh St		49,300				49,300
	Lawrence St	Elm St	Superior St		363,950				363,950
	Walnut St	Seventh St	Eighth St		122,500				122,500
	Subtotal			**619,810**	**3,219,649**	**-**	**-**	**-**	**3,839,459**
Total Concrete Paving				**$ 1,755,597**	**$ 3,344,781**	**$ 1,232,156**	**$ 2,223**	**$ 1,143,146**	**$ 7,477,903**

CITY OF APPLETON 2016 BUDGET
DEPARTMENT OF PUBLIC WORKS
CONCRETE PAVEMENT CAPITAL IMPROVEMENT PROGRAM

2017	Street	From	To	General Fund	DPW Capital Projects	TIF # 6	Industrial Park Land Fund	Sub-division Fund	Total Cost	Developer Escrow Account
Labor Pool				200,000			-		200,000	
CEA				6,000			-		6,000	
Land	Misc Land acquisition for street projects			50,000					50,000	
	Midway Rd	at Eisenhower Dr	roundabout	-		40,000			40,000	
	Subtotal			**50,000**	**-**	**40,000**	**-**	**-**	**50,000**	
Design	Material Testing			-			-	5,000	5,000	
	Material Testing			10,000					10,000	
	Midway Rd	at Eisenhower Dr	roundabout	-		50,000				
	Misc Consultant design			50,000			-		50,000	
	Subtotal			**60,000**	**-**	**50,000**	**-**	**5,000**	**115,000**	
New Concrete (New Subdivisions Escrowed)										
	Bluewater Way	Haymeadow Ave	Summerland Dr							125,446
	Canyon Ct	Headwall Circle	cds							64,846
	Canyon Lane	Blackstone Place (150' e)	Kurey Rd							28,905
	Canyon Lane	Kurey Rd	Headwall Circle							55,825
	Haymeadow Ave	Morningsun Way	Bluewater Way (181' n/o)							155,523
	Headwall Circle	Canyon Lane	Kurey Rd							245,752
	Kurey Rd	Broadway Dr	Werner Rd							491,016
	Marble Lane	Graphite Dr (600' e/o)	Kurey Rd							29,091
	Midsummer Ct	Bluewater Way	cds							82,203
	Werner Rd	Kurey Rd	Kurey Rd (1000' e)							194,517
	Subtotal			**-**	**-**	-	-	**-**	-	**1,473,124**
New Concrete (New Subdivisions non escrowed)										
	Incline Way	Palladium Ct	Applehill Blvd					234,796	234,796	
	Subtotal			**-**	**-**	**-**	**-**	**234,796**	**234,796**	
New Concrete (Not in New Subdivisions)										
	Eisenhower Dr	Plank Rd	Future Rd G (500' n/o Midway)			924,736	189,404		1,114,140	
	Lake Park Rd	Plank Rd	Midway Rd	385,964					385,964	
	Vantage Dr	Quest Dr	Lakeland Dr			502,327			502,327	
	Subtotal			**385,964**	**-**	**1,427,063**	**189,404**	**-**	**2,002,431**	
Reconstruction										
	Bateman St	Pacific St	Atlantic St	72,516					72,516	
	Division St	Franklin St	Atlantic St	401,998					401,998	
	Edgewood Dr (CTH JJ)	Ballard Rd	Lightning Dr	599,237					599,237	
	Glendale Ave	Birchwood St	Mason St	674,012					674,012	
	Lightning Dr, new roundabout	at Edgewood Dr (CTH JJ)	roundabout	742,581			-		742,581	
	Owaissa St	Randall St	Glendale Ave	435,832					435,832	
	Owaissa St	Wisconsin Ave	Randall St	186,513					186,513	
	Mason St	Weiland Ave	Hillock Ct		**135,333**				135,333	
	Richmond St	CTH OO	HSIP funds		**1,022,700**				1,022,700	
	Richmond St	Mall access roundabout			**1,265,200**				1,265,200	
	Subtotal			**3,112,689**	**2,423,233**	**-**	**-**	**-**	**5,535,922**	**-**
Total Concrete Paving				**$ 3,814,653**	**$ 2,423,233**	**$ 1,517,063**	**$ 189,404**	**$ 239,796**	**$ 8,139,149**	**$ 1,473,124**

CITY OF APPLETON 2016 BUDGET
DEPARTMENT OF PUBLIC WORKS
CONCRETE PAVEMENT CAPITAL IMPROVEMENT PROGRAM

2018	Street	From	To	General Fund	Subdivision fund	Total Cost
Labor Pool				200,000		200,000
CEA				6,000		6,000
Land	Misc Land acquisition for street projects			25,000		25,000
	Subtotal			**25,000**	**-**	**25,000**
Design	Ballard Rd	Edgewood Dr - (400' n)	Apple Creek Rd-(300' n)	25,000		25,000
	Edgewood Dr (CTH JJ)	Lightning Dr (Design)	French Rd	50,000		50,000
	Material Testing			-	5,000	5,000
	Material Testing			10,000		10,000
	Subtotal			**85,000**	**5,000**	**90,000**
New Concrete (New Subdivisions non escrowed)						
	Ashford Ct	Celtic Crossing	cds		117,500	117,500
	Celtic Crossing	Purdy Pkwy	Downs Ridge		108,103	108,103
	Downs Ridge	Smoketree Ps	Celtic Crossing		296,615	296,615
	Mackville Rd	Ballard Rd	Purdy Pkwy		51,188	51,188
	Purdy Pkwy	Celtic Crossing	Applehill Blvd		182,334	182,334
	Purdy Pkwy	Mackville Rd	Celtic Crossing		362,866	362,866
	Thomas Ct	Purdy Pkwy	cds		55,338	55,338
	Tiburon La	Applehill Blvd	Downs Ridge		140,927	140,927
	Tiburon La	Downs Ridge	Purdy Pkwy		169,234	169,234
	Trinity Ct	Downs Ridge	cds		85,622	85,622
	Subtotal			**-**	**1,569,727**	**1,569,727**
New Concrete (Not in New Subdivisions)						-
	Subtotal			**-**	**-**	**-**
New Concrete (TIF)						-
						-
	Subtotal			**-**	**-**	**-**
Reconstruction						
	Calumet St	Oneida St	Jefferson St	469,289		469,289
	Kamps Ave	Douglas St	Douglas St (fire station)	66,616		66,616
	Lynndale Dr	Everett St	south to RR	540,748		540,748
	Northland Ave	at Conkey St	signal installation	258,306		258,306
	Olde Oneida St	Oneida St	E. South River St	153,194		153,194
	Oneida St	Hoover Ave	Skyline Bridge	1,369,599		1,369,599
	Oneida St Skyline bridge		street lighting	175,000		175,000
	Oneida St	Midway Rd	Hoover Ave	86,750		86,750
	Subtotal			**3,119,502**	**-**	**3,119,502**
Total Concrete Paving				**$ 3,435,502**	**$ 1,574,727**	**$ 5,010,229**

CITY OF APPLETON 2016 BUDGET
DEPARTMENT OF PUBLIC WORKS
CONCRETE PAVEMENT CAPITAL IMPROVEMENT PROGRAM

2019	Street	From	To	General Fund	TIF # 6	Industrial Park Land Fund	Total Cost
Labor Pool				200,000		-	200,000
CEA				6,000		-	6,000
Land	Ballard Rd	Edgewood Dr - (400' n)	Apple Creek Rd-(300' n)	25,000			25,000
	Misc Land acquisition for street projects			25,000			25,000
	Subtotal			**50,000**	**-**	**-**	**50,000**
Design	Ballard Rd	Edgewood Dr - (400' n)	Apple Creek Rd-(300' n)	50,000			50,000
	Edgewood Dr (CTH JJ)	Lightning Dr (Design)	French Rd	50,000			50,000
	Material Testing			-			-
	Material Testing			10,000			10,000
	Misc Consultant design			50,000			50,000
	Subtotal			**160,000**	**-**		**160,000**
New Concrete (New Subdivisions non escrowed)							
	Subtotal			**-**	**-**	**-**	**-**
New Concrete (Not in New Subdivisions)							
	Midway Rd	Plank Rd	Lake Park Rd	659,666			659,666
	Eisenhower Dr	Future Road G	Midway Rd, part of new roundabout		104,153	34,718	138,871
	Midway Rd	Eisenhower Dr (500' w/o)	Eisenhower Dr (500' e/o), roundabout		696,490		696,490
	Includes County portion of Midway Rd construction to be reimbursed ($348245)						-
	Midway Rd	Lake Park Rd (e/o roundabo	Eisenhower Dr (500' w/o)		857,161		857,161
	Includes County portion of Midway Rd construction to be reimbursed ($428580)						-
	Subtotal			**659,666**	**1,657,804**	**34,718**	**659,666**
							-
New Concrete (TIF)					-		-
	Subtotal			**-**	**-**	**-**	**-**
Reconstruction	Alley n/o Spencer St	Linwood Ave	Victoria St	53,133			53,133
	Alley n/o Spencer St	Spruce St	Summit St	48,652			48,652
	Alley s/o Franklin St	Summit St	Story St	41,183			41,183
	Alley w/o Richmond St	Washington St	165' n/o Washington St	22,020			22,020
	Prospect Ave	Bartell Dr	Haskell St	1,106,992			1,106,992
	Prospect Ave (CTH BB)	City Limits	Bartell Dr	1,405,846			1,405,846
	Includes County portion of Prospect Ave construction to be reimbursed ($703,000)						
	Subtotal			**2,677,826**	**-**	**-**	**2,677,826**
Total Concrete Paving				**$ 3,753,492**	**$ 1,657,804**	**$ 34,718**	**$ 4,599,753**

CITY OF APPLETON 2016 BUDGET
DEPARTMENT OF PUBLIC WORKS
CONCRETE PAVEMENT CAPITAL IMPROVEMENT PROGRAM

2020	Street	From	To	General Fund
Labor Pool				200,000
CEA				6,000
Land				
	Misc Land acquisition for street projects			25,000
	Subtotal			**25,000**
Design				
	Material Testing			10,000
	Material Testing			
	Misc Consultant design			25,000
	Subtotal			**35,000**
New Concrete (New Subdivisions non escrowed)				
	Subtotal			**-**
New Concrete (Not in New Subdivisions)				
	Cherryvale Ave	Applecreek Corridor	south city limits	348,402
	Subtotal			**348,402**
New Concrete (TIF)				
	Subtotal			**-**
Reconstruction	Carpenter St	Calumet St	Taft Ave	528,282
	Evergreen Dr	Richmond St	Haymeadow Ave	747,410
	Telulah Ave	Calumet St	John St	1,158,645
	Valley Road	Chain Dr	Forestview Dr	987,947
	Subtotal			**3,422,284**
Total Concrete Paving				**$ 4,036,686**

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Grade and Gravel Program

PROJECT DESCRIPTION
Justification:
This project is the initial construction phase for new streets. A five year plan detailing specific projects follows this program summary page.
Discussion of operating cost impact:
The exact operating impact of this program is not easily defined. The addition of new streets will require additional operational service requirements including street maintenance and plowing.

DEPARTMENT COST SUMMARY

DEPARTMENT PHASE	2016	2017	2018	2019	2020	Total
Public Works - Grade & Gravel	-	113,333	-	-	-	$ 113,333
General Fund						
Public Works - Grade & Gravel						
TIF # 6	-	112,642	-	-	-	$ 112,642
Industrial Park Land Fund	-	-	-	-	-	$ -
Public Works - Grade & Gravel	-	-	-	-	-	$ -
Public Works - Developer Escrow	-	-	102,168	78,045	-	$ 180,213
New Subdivision	-	-	102,168	78,045	-	$ 180,213
Total - Grade & Gravel - City	$ -	$ 225,975	$ -	$ -	$ -	$ 225,975
Total - Grade & Gravel Program	$ -	$ 225,975	$ 102,168	$ 78,045	$ -	$ 406,188

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	-	-	-	-	-	$ -
Land Acquisition	-	-	-	-	-	$ -
Construction	-	225,975	102,168	78,045	-	$ 406,188
Other	-	-	-	-	-	$ -
Total	$ -	$ 225,975	$ 102,168	$ 78,045	$ -	$ 406,188
Operating Cost Impact	N/Q*	N/Q*	N/Q*	N/Q*	N/Q*	N/Q*

* N/Q = Not Quantifiable

CITY OF APPLETON 2016 BUDGET
DEPARTMENT OF PUBLIC WORKS
GRADE & GRAVEL PROGRAM

2016	Street	From	To	General Fund	TIF # 6	Total Cost	Developer Escrow Account
Labor Pool				-	-	-	-
Grade & Gravel						-	
						-	
	Subtotal			**-**	**-**	**-**	
Temporary Surface						-	
Following Grade & Gravel						-	
						-	-
						-	
	Subtotal			**-**	**-**	**-**	
Total				$ -	$ -	$ -	$ -

2017	Street	From	To	General Fund	TIF # 6	Total Cost	Developer Escrow Account
Labor Pool					-	-	-
Grade & Gravel	Vantage Dr	Lakeland Dr	Eisenhower Dr		112,642	112,642	
	Northside Rd future	TBD	TBD	113,333		113,333	
	Subtotal			**113,333**	**112,642**	**225,975**	**-**
Temporary Surface							
Following Grade & Gravel					-	-	
	Subtotal			**-**	**-**	**-**	
Total				$ 113,333	$ 112,642	$ 225,975	$ -

2018	Street	From	To	General Fund	TIF # 6	Total Cost	Developer Escrow Account
Labor Pool					-	-	-
Grade & Gravel						-	
						-	**-**
	Subtotal			**-**	**-**	**-**	
Temporary Surface						-	
Following Grade & Gravel	New Subdivisions	escrowed funding except for labor				-	102,168
	Subtotal			**-**	**-**	**-**	**102,168**
Total				$ -	$ -	$ -	$ 102,168

2019	Street	From	To	General Fund	TIF # 6	Total Cost	Developer Escrow Account
Labor Pool						-	-
Grade & Gravel						-	
						-	
	Subtotal			**-**	**-**	**-**	**-**
Temporary Surface	New Subdivisions	escrowed funding except for labor				-	78,045
Following Grade & Gravel						-	
	Subtotal			**-**	**-**	**-**	**78,045**
Total				$ -	$ -	$ -	$ 78,045

2020	Street	From	To	General Fund	TIF # 6	Total Cost	Developer Escrow Account
Labor Pool						-	-
Grade & Gravel						-	
						-	
	Subtotal			**-**	**-**	**-**	**-**
Temporary Surface	New Subdivisions	escrowed funding except for labor				-	
Following Grade & Gravel						-	
	Subtotal			**-**	**-**	**-**	**-**
Total				$ -	$ -	$ -	$ -

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Sidewalk Program

PROJECT DESCRIPTION
Justification:
The total cost of sidewalk replacement and new construction is presented. A five year plan detailing specific projects follows this program summary page.
Discussion of operating cost impact:
The operating impact of this program is minimal. Additional cost of installing new sidewalks will appear in future years as replacements become necessary.

DEPARTMENT COST SUMMARY

DEPARTMENT PHASE	2016	2017	2018	2019	2020	Total
Public Works Reconstruction						
General Fund	871,754	949,412	958,098	1,108,691	1,164,485	$ 5,052,440
Public Works Construction						
DPW Capital Projects Fund	180,000	-	-	-	-	$ 180,000
Public Works - Construction	134,552	56,792	225,357	28,500	-	$ 445,201
Public Works - Developer Escrow	-	-	-	-	-	$ -
Subdivisions	134,552	56,792	225,357	28,500	-	$ 445,201
Total - Sidewalk - City	$ 1,186,306	$ 1,006,204	$ 1,183,455	$ 1,137,191	$ 1,164,485	$ 5,677,641
Total - Sidewalk Program	$ 1,186,306	$ 1,006,204	$ 1,183,455	$ 1,137,191	$ 1,164,485	$ 5,677,641

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	-	-	-	-	-	$ -
Land Acquisition	-	-	-	-	-	$ -
Construction	1,117,102	900,530	1,077,569	1,042,129	1,069,423	$ 5,206,753
Other	69,204	105,674	105,886	95,062	95,062	$ 470,888
Total	$ 1,186,306	$ 1,006,204	$ 1,183,455	$ 1,137,191	$ 1,164,485	$ 5,677,641
Operating Cost Impact	$ -	$ -	$ -	$ -	$ -	$ -

CITY OF APPLETON 2016 BUDGET
DEPARTMENT OF PUBLIC WORKS
Sidewalk Construction Capital Improvement Program

2016	General Fund	DPW Capital Projects	Subdivision Fund	Total Cost
Labor Pool	43,144	-	22,000	65,144
CEA	2,060		2,000	4,060
Sidewalk Construction				
Green Dot	170,000			170,000
General	30,000			30,000
Patch Contract	30,000			30,000
Safestep sawcutting	30,000			30,000
Reconstruction - Concrete	57,350	180,000		237,350
Reconstruction - Asphalt	359,200			359,200
Subtotal	**676,550**	**180,000**	**-**	**856,550**
New Sidewalk Construction				
New Concrete	150,000			150,000
New Subdivision			90,552	90,552
New Subdivision - 6 Month			20,000	20,000
Arterial Street	-			-
Subtotal	**150,000**	**-**	**110,552**	**260,552**
Total	$ 871,754	$ 180,000	$ 134,552	$1,186,306

2019	General Fund	Subdivision Fund	Total Cost
Labor Pool	95,062	-	95,062
CEA	3,000	-	3,000
Sidewalk Construction			
Green Dot	170,000		170,000
General	30,000		30,000
Patch Contract	30,000		30,000
Safestep sawcutting	30,000		30,000
Reconstruction - Concrete	186,625		186,625
Reconstruction - Asphalt	426,325		426,325
Subtotal	**872,950**	**-**	**872,950**
New Sidewalk Construction			
New Concrete	137,679		137,679
New Subdivision		28,500	28,500
New Subdivision - 6 Month			-
Arterial Street			-
Subtotal	**137,679**	**28,500**	**166,179**
Total	$ 1,108,691	$ 28,500	$ 1,137,191

2017	General Fund	DPW Capital Projects	Subdivision Fund	Total Cost
Labor Pool	95,062	-	10,612	105,674
CEA	3,000		3,000	6,000
Sidewalk Construction				
Green Dot	170,000			170,000
General	30,000			30,000
Patch Contract	30,000			30,000
Safestep sawcutting	30,000			30,000
Reconstruction - Concrete	305,350			305,350
Reconstruction - Asphalt	112,000			112,000
Subtotal	**677,350**		**-**	**677,350**
New Sidewalk Construction				
New Concrete	94,500			94,500
New Subdivision			33,180	33,180
New Subdivision - 6 Month			10,000	10,000
Arterial Street	79,500		-	79,500
Subtotal	**174,000**		**43,180**	**217,180**
Total	$ 949,412	$ -	$ 56,792	$1,006,204

2020	General Fund	Subdivision Fund	Total Cost
Labor Pool	95,062	-	95,062
CEA	3,000		3,000
Sidewalk Construction			
Green Dot	170,000		170,000
General	30,000		30,000
Patch Contract	30,000		30,000
Safestep sawcutting	30,000		30,000
Reconstruction - Concrete	521,000		521,000
Reconstruction - Asphalt	248,925		248,925
Subtotal	**1,029,925**	**-**	**1,029,925**
New Sidewalk Construction			
New Concrete	36,498		36,498
New Subdivision			-
New Subdivision - 6 Month			-
Arterial Street			-
Subtotal	**36,498**	**-**	**36,498**
Total	$ 1,164,485	$ -	$ 1,164,485

2018	General Fund	DPW Capital Projects	Subdivision Fund	Total Cost
Labor Pool	95,062	-	10,824	105,886
CEA	3,000		3,000	6,000
Sidewalk Construction				
Green Dot	170,000			170,000
General	30,000			30,000
Patch Contract	30,000			30,000
Safestep sawcutting	30,000			30,000
Reconstruction - Concrete	317,436			317,436
Reconstruction - Asphalt	282,600			282,600
Subtotal	**860,036**		**-**	**860,036**
New Sidewalk Construction				
New Concrete	-			-
New Subdivision			211,533	211,533
New Subdivision - 6 Month				-
Arterial Street				-
Subtotal	**-**		**211,533**	**211,533**
Total	$ 958,098	$ -	$ 225,357	$1,183,455

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Stormwater Program

PROJECT DESCRIPTION

Justification:

The following is a summary of costs associated with replacing and adding to the stormwater system. A five year plan detailing this and future years' projects follows this summary.

Discussion of operating cost impact:

Reconstruction is performed based upon the existing condition and expected useful remaining life of the stormwater structure (primarily stormsewers and detention ponds). However, budget constraints limit the number of stormwater structures which can be reconstructed annually to an amount less than that which actually meets the criteria for reconstruction.

Typically, less than 1% of our stormwater structures are reconstructed on an annual basis. This fact, coupled with new structures added annually to the system results in no overall reduction in our city-wide stormwater maintenance costs.

DEPARTMENT COST SUMMARY

DEPARTMENT	PHASE	2016	2017	2018	2019	2020	Total
Stormwater	Reconstruction	4,330,165	12,929,393	4,297,645	4,374,596	8,170,738	$ 34,102,537
Stormwater Utility							
Stormwater	Construction						
TIF # 6		101,460	-	-	-	-	$ 101,460
Industrial Park Land Fund		-	-	15,800	15,800	-	$ 31,600
Total - Stormwater Program		$ 4,431,625	$ 12,929,393	$ 4,313,445	$ 4,390,396	$ 8,170,738	$ 34,235,597

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	125,000	-	-	555,000	80,000	$ 760,000
Land Acquisition	150,000	4,144,000	-	-	-	$ 4,294,000
Construction	3,859,110	8,526,893	4,039,145	3,561,096	7,816,438	$ 27,802,682
Other	297,515	258,500	274,300	274,300	274,300	$ 1,378,915
Total	$ 4,431,625	$ 12,929,393	$ 4,313,445	$ 4,390,396	$ 8,170,738	$ 34,235,597
Operating Cost Impact	$ -	$ -	$ -	$ -	$ -	$ -

CITY OF APPLETON 2016 BUDGET
DEPARTMENT OF PUBLIC WORKS
STORM SEWER CAPITAL CONSTRUCTION PROGRAM

2016	Street	From	To	Storm-water Utility	TIF # 6	Total Cost
Labor Pool				286,525	-	286,525
CEA				10,990	-	10,990
Consulting Services	Arbutus Park Lift Station	Design		40,000		40,000
	Construction Grant Applications			10,000		10,000
	Construction Services			40,000		40,000
	Cotter Street Pond	Design & Permitting		75,000		75,000
	Land Acquisition Services			10,000		10,000
	Leona Street Pond	Design, Permitting, O & M Manual/Training		347,730		347,730
	Modeling for Storm Sewer Const Projects			25,000		25,000
	Subtotal			**547,730**	**-**	**547,730**
Land Acquisition	Cotter Street Pond		Land Acquisition	125,000		125,000
	Leona Street Pond		Land Acquisition	359,800		359,800
	Lightning Drive	CTH JJ	north of	150,000		150,000
	Subtotal			**634,800**	**-**	**634,800**
Miscellaneous Construction	Sump Pump Storm Sewer Program/Backyard Drainage Problems			200,000		200,000
	Surface restoration for mini sewer from previous year			85,000		85,000
	Storm Laterals, Manholes, Inlets, Mini's Prior to 2016 Asphalt Paving (B-16)			152,528		152,528
	Storm Laterals, Manholes, Inlets, Mini's Prior to 2016 New Concrete Paving (A-16)			173,800		173,800
	Arbutus Park Lift Station			140,000		140,000
	Flood Report Projects			75,000		75,000
	Native Landscaping			30,000		30,000
	Northland Pond Utility Relocations			50,000		50,000
	NR151 Water Quality Practices - Reconsts			50,000		50,000
	Subtotal			**956,328**	**-**	**956,328**
New Storm Sewers	Vantage Dr	Lakeland Dr	Eisenhower Dr		101,460	101,460
	Subtotal			**-**	**101,460**	**101,460**
Reconstruction	Spring St	Drew St	Lawe St	784,557		784,557
	Subtotal			**784,557**	**-**	**784,557**
Reconstruction (on streets to be paved in 2017)	Alley n/o Amelia St	Woodmere	Ballard Rd	33,970		33,970
	Bateman St	Pacific St	Hancock St	23,450		23,450
	Division St	Franklin St	Atlantic St	25,990		25,990
	Douglas St	Pine St	Haskell St	20,050		20,050
	Fair St	Franklin St	south end	37,710		37,710
	Glendale Ave	Birchwood St	Mason St	414,030		414,030
	Grant St	Nicholas St	Mason St	210,010		210,010
	Harriman St	Atlantic St	Winnebago St	33,150		33,150
	Herbert St	Pine St	Rogers Ave	9,110		9,110
	Mason Street	Northland Ave	Intersection of	40,000		40,000
	Owaissa St	Randall St	Glendale Ave	77,345		77,345
	Owaissa St	Wisconsin Ave	Randall St	144,685		144,685
	Winona Ct	Nawada St	Nawada St	39,735		39,735
	Subtotal			**1,109,235**	**-**	**1,109,235**
Total				**$ 4,330,165**	**$ 101,460**	**$ 4,431,625**

CITY OF APPLETON 2016 BUDGET
DEPARTMENT OF PUBLIC WORKS
STORM SEWER CAPITAL CONSTRUCTION PROGRAM

2017	Street	From	To	Storm-water Utility
Labor Pool				251,500
CEA				7,000
Consulting Services	Construction Services			100,000
	Grant Applications			10,000
	Land Acquisition Services			10,000
	Modeling for Storm Sewer Const Projects			25,000
	Theodore Study Phase 3	Preliminary Engineering		50,000
	Subtotal			**195,000**
Land Acquisition				
	Subtotal			**-**
Miscellaneous Construction	Sump Pump Storm Sewer Program/Backyard Drainage Problems			200,000
	Surface restoration for mini sewer from previous year			85,000
	Storm Laterals, Manholes, Inlets, Mini's Prior to 2017 Asphalt Paving (B-17)			129,760
	Storm Laterals, Manholes, Inlets, Mini's Prior to 2017 New Concrete Paving (A-17)			187,440
	441/WisDOT-Menasha Stormwater Proj (cost share)			325,000
	Flood Report Projects			75,000
	Lightning Drive / CTH JJ Pond	CTH JJ	north of	250,000
	Native Landscaping			20,000
	Northland Pond			4,144,000
	NR151 Water Quality Practices - Reconsts			50,000
	Subtotal			**5,466,200**
New Storm Sewers	Edgewood Dr (CTH JJ)	Ballard Rd	Lightning Dr	260,000
	Edgewood Dr (CTH JJ)	Lightning Dr	Providence Ave	450,000
	Lightning Dr	Edgewood Dr (CTH JJ)	600' n/o Edgewood Dr	120,000
	Subtotal			**830,000**
Reconstruction	Ballard Rd	Wisconsin Ave	Fox River	2,760,000
	Subtotal			**2,760,000**
Reconstruction (on streets to be paved in 2018)	Calumet St	Oneida St	Jefferson St	90,448
	Catherine St	Washington St	North St	115,558
	Drew St	Glendale Ave	Pershing St	90,448
	Kamps Ave	Douglas St	Douglas St (fire station)	20,390
	Lincoln St	Olde Oneida St	Madison St	43,250
	Lynndale Dr	Everett St	south to RR	73,030
	Marquette St	Division St	Oneida St	70,090
	Mary St	North St	Pacific St	31,740
	Olde Oneida St	Oneida St	E. South River St	200,630
	Oneida St	Hoover Ave	Skyline Bridge	2,093,039
	Oneida St	Midway Rd	Hoover Ave	344,960
	Reeve St	Linwood Ave	Badger Ave	61,800
	Rocky Bleier Run	Water St	park	45,810
	Sanders St	Seymour St	Verbrick St	82,050
	Summer St	Morrison St	Lawe St	43,300
	Winnebago St	Linwood Ave	Badger Ave	13,150
	Subtotal			**3,419,693**
Total				**$ 12,929,393**

CITY OF APPLETON 2016 BUDGET
DEPARTMENT OF PUBLIC WORKS
STORM SEWER CAPITAL CONSTRUCTION PROGRAM

2018	Street	From	To	Storm-water Utility	Industrial Park Land Fund	Total Cost
Labor Pool				251,500	15,000	266,500
CEA				7,000	800	7,800
Consulting Services	Construction Services			50,000		50,000
	Grant Applications			10,000		10,000
	Land Acquisition Services			10,000		10,000
	Modeling for Storm Sewer Const Projects			20,000		20,000
	Subtotal			**90,000**	**-**	**90,000**
Land Acquisition						
	Subtotal			**-**	**-**	**-**
Miscellaneous Construction	Sump Pump Storm Sewer Program/Backyard Drainage Problems			200,000		200,000
	Surface restoration for mini sewer from previous year			85,000		85,000
	Storm Laterals, Manholes, Inlets, Mini's Prior to 2018 Asphalt Paving (B-18)			199,824		199,824
	Storm Laterals, Manholes, Inlets, Mini's Prior to 2018 New Concrete Paving (A-18)			113,821		113,821
	Flood Report Projects			1,000,000		1,000,000
	Leona Street Pond			1,530,000		1,530,000
	Native Landscaping			30,000		30,000
	NR151 Water Quality Practices - Reconsts			50,000		50,000
	Subtotal			**3,208,645**	**-**	**3,208,645**
New Storm Sewers						-
	Subtotal			**-**	**-**	**-**
Reconstruction						-
	Subtotal			**-**	**-**	**-**
Reconstruction (on streets to be paved in 2019)	Center St	North St	Atlantic St	68,000		68,000
	Madison St	Calumet St	Taft Ave	113,250		113,250
	Prospect Ave	Bartell Dr	Haskell St	180,400		180,400
	Prospect Ave	Weatherstone Dr	Seminole Rd	114,400		114,400
	Prospect Ave (CTH BB)	City Limits	Bartell Dr	148,500		148,500
	Roosevelt St	Morrison St	Durkee St	30,825		30,825
	Summit St	Spencer St	College Ave	85,125		85,125
	Subtotal			**740,500**	**-**	**740,500**
Total				**$ 4,297,645**	**$ 15,800**	**$ 4,313,445**

CITY OF APPLETON 2016 BUDGET
DEPARTMENT OF PUBLIC WORKS
STORM SEWER CAPITAL CONSTRUCTION PROGRAM

2019	Street	From	To	Storm-water Utility	Industrial Park Land Fund	Total Cost
Labor Pool				251,500	15,000	266,500
CEA				7,000	800	7,800
Consulting Services	Construction Services			50,000		50,000
	Land Acquisition Services			10,000		10,000
	Modeling for Storm Sewer Const Projects			20,000		20,000
	North Side Development Corridor			400,000		400,000
	Theodore Study Ph 3	Design & Permitting		75,000		75,000
	Subtotal			**555,000**	**-**	**555,000**
Land Acquisition						
	Subtotal			**-**	**-**	**-**
Miscellaneous Construction	Sump Pump Storm Sewer Program/Backyard Drainage Problems			200,000		200,000
	Surface restoration for mini sewer from previous year			90,000		90,000
	Storm Laterals, Manholes, Inlets, Mini's Prior to 2019 Asphalt Paving (B-19)			258,960		258,960
	Storm Laterals, Manholes, Inlets, Mini's Prior to 2019 New Concrete Paving (A-19)			152,444		152,444
	Flood Report Projects			1,000,000		1,000,000
	Native Vegetation			30,000		30,000
	NR151 Water Quality Practices - Reconsts			50,000		50,000
	Theodore Study Project Ph3	Park Amenities		500,000		500,000
	Subtotal			**2,281,404**	**-**	**2,281,404**
New Storm Sewers						-
	Subtotal			**-**	**-**	**-**
Reconstruction	College Ave (liner)	Kensington Dr, 54' e/o	Kensington Dr	20,520		20,520
	Marquette St (liner)	Ullman St, 220' e/o	Alexander St, 200' w/o	17,000		17,000
	Summit St (liner)	Winnebago St	Commercial St	15,847		
	Wisconsin Ave (liner)	Wisconsin Ct	Jardin Ct, 60' w/o	12,975		12,975
	Subtotal			**66,342**	**-**	**50,495**
Reconstruction (on streets to be paved in 2020)	Alley n/o Spencer St	Spruce St	Summit St	15,300		15,300
	Carpenter St	Calumet St	Taft Ave	114,000		114,000
	Carpenter St	Fremont St	Calumet St	155,625		155,625
	Douglas St	Badger Ave	Wisconsin Ave	102,900		102,900
	Morrison St	Hancock St	Wisconsin Ave	112,875		112,875
	Telulah Ave	Calumet St	John St	333,000		333,000
	Valley Road	Chain Dr	Forestview Dr	187,500		187,500
	Winnebago St	Division St	Drew St	192,150		192,150
	Subtotal			**1,213,350**	**-**	**1,213,350**
Total				**$ 4,374,596**	**$ 15,800**	**$ 4,374,549**

CITY OF APPLETON 2016 BUDGET
DEPARTMENT OF PUBLIC WORKS
STORM SEWER CAPITAL CONSTRUCTION PROGRAM

2020	Street	From	To	Storm-water Utility
Labor Pool				266,500
CEA				7,800
Consulting Services	Construction Services			50,000
	Land Acquisition Services			10,000
	Modeling for Storm Sewer Const Projects			20,000
	Subtotal			**80,000**
Land Acquisition	North Side Development Corridor	CTH JJ to Applecreek Rd	land acquisition	20,000
	Subtotal			**20,000**
Miscellaneous Construction	Sump Pump Storm Sewer Program/Backyard Drainage Problems			200,000
	Surface restoration for mini sewer from previous year			90,000
	Storm Laterals, Manholes, Inlets, Mini's Prior to 2020 Asphalt Paving (B-20)			135,968
	Storm Laterals, Manholes, Inlets, Mini's Prior to 2020 New Concrete Paving (A-20)			173,330
	Flood Report Projects			1,000,000
	Native Landscaping			30,000
	NR216 High Efficiency Sweeper (upgrade)			70,000
	Theodore Study Area Ph3			2,300,000
	Subtotal			**3,999,298**
New Storm Sewers				
	Subtotal			**-**
Reconstruction				
	Subtotal			**-**
Reconstruction (on streets to be paved in 2021)	Glendale Ave	Mason St	Richmond St	302,565
	Jackson St	Calumet St	Fremont St	157,650
	Newberry Ave	Schaefer St	city limits	2,750,000
	Pershing St	McDonald St	Ballard Rd	172,425
	Pershing St	Meade St	McDonald St	126,500
	Summer St	Gillett St	Story St	184,000
	Summer St	Story St	Richmond St	104,000
	Subtotal			**3,797,140**
Total				**$ 8,170,738**

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Watermain Program

PROJECT DESCRIPTION
Justification:
The following is a summary of costs associated with replacing and adding watermains. A five year plan detailing this and future years' projects follows this summary.
Discussion of operating cost impact:
Reconstruction is performed based upon the existing condition and expected useful remaining life of the watermain. However, budget constraints limit the number of watermains which can be reconstructed annually to an amount less than that which actually meets the criteria for reconstruction.
Typically, less than 1% of our watermains are reconstructed on an annual basis. This fact, coupled with new watermains added annually to the system results in no overall reduction in our city-wide watermain maintenance costs.

DEPARTMENT COST SUMMARY

DEPARTMENT PHASE	2016	2017	2018	2019	2020	Total
Water Dist. Reconstruction **Water Utility**	2,682,387	4,049,132	3,541,027	3,178,052	3,340,752	$ 16,791,350
Water Dist. Construction **TIF # 6**	102,180	-	-	-	-	$ 102,180
Total - Watermain Program	$ 2,784,567	$ 4,049,132	$ 3,541,027	$ 3,178,052	$ 3,340,752	$ 16,893,530

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	-	-	-	-	-	$ -
Land Acquisition	-	-	-	-	-	$ -
Construction	2,519,880	3,773,050	3,264,945	2,901,970	3,064,670	$ 15,524,515
Other	264,687	276,082	276,082	276,082	276,082	$ 1,369,015
Total	$ 2,784,567	$ 4,049,132	$ 3,541,027	$ 3,178,052	$ 3,340,752	$ 16,893,530
Operating Cost Impact	$ -	$ -	$ -	$ -	$ -	$ -

CITY OF APPLETON 2016 BUDGET
DEPARTMENT OF PUBLIC WORKS
WATERMAIN CONSTRUCTION CAPITAL IMPROVEMENT PROGRAM

2016	Street	From	To	Water Utility	TIF # 6	Total Cost
Labor Pool				258,487	-	258,487
CEA				6,200		6,200
Miscellaneous	Permit; Misc.Fees; Training; Testing Mat'l; NOI, Railroad, Water Usage, County			10,000		10,000
Construction	Surface Restoration	Due to 2015 Water CIP Excav.		22,500		22,500
	South Island water relay - design			10,000		10,000
	Subtotal			**42,500**	**-**	**42,500**
New Construction	Alexander St	Pershing St	Lindbergh St	34,550		34,550
	Easement (Fairway Ct)	Lawe St	Fairway Ct	38,400		38,400
	Vantage Dr	Lakeland Dr	Eisenhower Dr		102,180	102,180
	Subtotal			**72,950**	**102,180**	**175,130**
Reconstruction	Briarcliff Dr	Edgemere Dr	Newberry St	126,200		126,200
(not related to paving)	Douglas St	Wisconsin Central Ltd.	Haskell St	66,750		66,750
	Eighth St	Elm St (210' e/o)	Jones Park (Pavilion)	34,725		34,725
	Graceland Ave	Randall St	Woodland Ave	125,450		125,450
	Hall Ave	Randall St	Woodland Ave	95,000		95,000
	Haskell St	Herbert St	Douglas St	83,000		83,000
	Kay St	Viola St	Racine St	148,425		148,425
	N. Island St	Vulcan St (300' w/o)	Vulcan St	52,050		52,050
	Randall St	Owaissa St	Owaissa St (180' e/o)	19,950		19,950
	Subtotal			**751,550**	**-**	**751,550**
Reconstruction	Bateman St	Pacific St	Hancock St	119,500		119,500
(prior to next year's paving)	Division St	Franklin St	Atlantic St	78,600		78,600
	Douglas St	Pine St	Haskell St	50,000		50,000
	Fair St	Franklin St	south end	52,050		52,050
	Glendale Ave	Birchwood St	Mason St	485,100		485,100
	Grant St	Nicholas St	Mason St	123,250		123,250
	Lawe St - BRIDGE	S. Island St	s/end Lawe St Power canal	160,000		160,000
	Mason St	Weiland Ave	Hillock Ct	207,750		207,750
	Owaissa St	Wisconsin Ave	Randall St	167,200		167,200
	Winona Ct	Nawada St	Nawada St	107,250		107,250
	Subtotal			**1,550,700**	**-**	**1,550,700**
Total Water Main Construction				**$ 2,682,387**	**$ 102,180**	**$ 2,784,567**

CITY OF APPLETON 2016 BUDGET
DEPARTMENT OF PUBLIC WORKS
WATERMAIN CONSTRUCTION CAPITAL IMPROVEMENT PROGRAM

2017	Street	From	To	Water Utility
Labor Pool				266,082
CEA				10,000
Miscellaneous	Permit; Misc.Fees; Training; Testing Mat'l			10,000
Construction	Surface Restoration			142,050
	Subtotal			**152,050**
New Construction	Rocky Bleier Run	Water St	Jones Park	65,550
	STH 441	Carpenter & Park Hills	Bob-O-Link & Thistle Down	162,500
	Subtotal			**228,050**
Reconstruction (not related to paving)				
	Subtotal			**-**
Reconstruction	Calumet St	Oneida St	Jefferson St	30,150
(prior to next year's paving)	Catherine St	Washington St	North St	148,525
	Drew St	Glendale Ave	Pershing St	90,350
	Hoover St (90% DOT)	Inters. With	Oneida St	20,200
	Lincoln St	Olde Oneida St	Madison St	113,850
	Lynndale Dr	Everett St	south to RR	269,325
	Marquette St	Division St (Harriman)	Oneida St	228,125
	Mary St	North St	Pacific St	86,900
	Olde Oneida St	Oneida St (Orange St)	E. South River St	46,850
	Oneida St	Murray St	Midway Rd	74,500
	Oneida St	Murray St	Foster St	170,225
	Oneida St	Skyline Bridge	Foster St	548,025
	Reeve St	Linwood Ave	Winnebago St	68,400
	Richmond St	Weiland Ave (410' s/o)	Northland Ave	229,950
	S Island St	Power canal bridge	Vulcan St	100,000
	Sanders St	Seymour St	Verbrick St	127,375
	Summer St	Morrison St (Oneida St)	Lawe St	435,300
	Subtotal			**2,788,050**
Transmission Line	Edgewood Dr (CTH JJ)	Ballard Rd	Lightning Dr (600' e/o)	90,250
	Lightning Dr	Edgewood Dr (CTH JJ)	600' n/o Edgewood Dr	116,775
	Northland Ave	Bennett St	Richmond St (2nd hyd e/o)	320,825
	Oneida St (90% DOT)	Intersection with "441"		77,050
	Subtotal			**604,900**
Total Water Main Construction				**$ 4,049,132**

CITY OF APPLETON 2016 BUDGET
DEPARTMENT OF PUBLIC WORKS
WATERMAIN CONSTRUCTION CAPITAL IMPROVEMENT PROGRAM

2018	Street	From	To	Water Utility
Labor Pool				266,082
CEA				10,000
Miscellaneous	Permit; Misc.Fees; Training; Testing Mat'l			10,000
Construction	Surface Restoration			44,750
	Subtotal			**54,750**
New Construction	Easement (Summit Park)	Laurie St	Summit St	17,600
	Haymeadow Dr	Bluewater Way (165' n/o)	Spartan Way	89,700
	Spartan Way	Sommers Dr	Haymeadow Ave	127,470
	Subtotal			**234,770**
Reconstruction	Appleton St (rec "D", 2007 Wtr Study)	Washington St	Harris St	136,775
(not related to paving)	Franklin St (rec. "D", 2007 Wtr Study)	Superior St	Drew St	374,100
	Meade St (HPZ main)	Evergreen Dr	Castlebury Dr	108,750
	Warehouse Rd	Radio Rd	Kensington Dr	169,750
	Subtotal			**789,375**
Reconstruction	Center St	North St	Atlantic St	146,000
(prior to next year's paving)	Durkee St	Intersections of Winnebago,	Commercial, Spring	81,875
	Madison St	Calumet St	Taft St (Hoover St)	141,600
	Midway Rd	Eisenhower Dr (500' w/o)	Eisenhower Dr (500' e)	15,000
	Prospect Ave	Bartell Dr	Haskell (Outagamie St)	607,050
	Prospect Ave	Weatherstone Dr	Bartell Dr	362,500
	Roosevelt St	Morrison St	Durkee St	52,800
	Summit St	Spencer St	College Ave	123,550
	Subtotal			**1,530,375**
Transmission - New	Meade St (MPZ main)	Capitol Dr	Evergreen Dr	655,675
	Subtotal			**655,675**
Total Water Main Construction				**$ 3,541,027**

CITY OF APPLETON 2016 BUDGET
DEPARTMENT OF PUBLIC WORKS
WATERMAIN CONSTRUCTION CAPITAL IMPROVEMENT PROGRAM

2019	Street	From	To	Water Utility
Labor Pool				266,082
CEA				10,000
Miscellaneous	Permit; Misc.Fees; Training; Testing Mat'l			10,000
Construction	Surface Restoration			314,500
	Subtotal			**324,500**
New Construction	Easement (Hammond Ave)	Ballard Rd (1200' e/o)	Grand View Rd	49,275
	Easement n/o Christopher Ct	Christopher Ct	Midway Rd	10,950
	Easement w/o Walter	Gunn St	Harriet St	51,550
	Grand View Rd	Hammond Ave	Wisconsin Ave	210,825
	Wisconsin Ave	Leona St	Grand View Rd	109,125
	Subtotal			**431,725**
Reconstruction	Crestview Dr	Lynn Dr (south leg)	White Oak Dr	296,475
(not related to paving)	Gunn St (Rec "E" 2007 Study)	Walter Ave	west end	67,875
	Harriet St (Rec "E" 2007 Study)	Walter Ave	west end	64,250
	Lynn Dr	Crestview Dr (north leg)	Newberry Dr	181,825
	Walter Ave (Rec "E" 2007 Study)	College Ave (125' n/o)	Gunn St	37,450
	Warner St	College Ave	Henry St	36,460
	Subtotal			**684,335**
Reconstruction	Carpenter St	Calumet St	Taft Ave	-
(prior to next year's paving)	Carpenter St	Fremont St	Calumet St	231,300
	Henry St	Warner Rd (100' w/o)	Telulah Ave	70,760
	Morrison St	Hancock St	Wisconsin Ave	194,300
	Telulah Ave	Calumet St	Marion St	619,050
	Valley Road	Chain Dr	Forestview Dr	-
	Winnebago St	Division St	Drew St	346,000
				1,461,410
Transmission - New				
	Subtotal			**-**
Total Water Main Construction				**$ 3,178,052**

CITY OF APPLETON 2016 BUDGET
DEPARTMENT OF PUBLIC WORKS
WATERMAIN CONSTRUCTION CAPITAL IMPROVEMENT PROGRAM

2020	Street	From	To	Water Utility
Labor Pool				266,082
CEA				10,000
Miscellaneous	Permit; Misc.Fees; Training; Testing Mat'l			10,000
Construction	Surface Restoration			167,500
	Subtotal			**177,500**
New Construction				
	Subtotal			**-**
Reconstruction	Union St	Wisconsin Ave	Summer St	35,875
(not related to paving)	Vulcan St	N. Island St	S. Island St	102,950
	Subtotal			**138,825**
Reconstruction	Amelia St	Kenilworth St	Ballard Rd	405,200
(prior to next year's paving)	Glendale Ave	Mason St	Richmond St	408,900
	Jackson St	Calumet St	Fremont St	395,645
	Newberry St	Schaefer St	STH "441"	903,125
	Summer St	Gillett St	Story St	139,625
	Summer St	Story St	Richmond St	-
	Subtotal			**2,252,495**
Transmission - New	Lightning Dr	Future r/w 600' n/o Edg	Broadway Dr	495,850
	Subtotal			**495,850**
				-
Total Water Main Construction				**$ 3,340,752**

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Sanitary Sewer Program

PROJECT DESCRIPTION
Justification:
The following is a summary of costs associated with replacing and adding sanitary sewers. A five year plan detailing this and future years' projects follows this summary.
Discussion of operating cost impact:
Reconstruction is performed based upon the existing condition and expected useful remaining life of the sanitary sewer. However, budget constraints limit the number of sewers which can be reconstructed annually to an amount less than that which actually meets the criteria for reconstruction.
Typically, less than 1% of our sewers are reconstructed on an annual basis. This fact, coupled with new sewers added annually to the system results in no overall reduction in our City-wide sewer maintenance costs.

DEPARTMENT COST SUMMARY

DEPARTMENT	PHASE	2016	2017	2018	2019	2020	Total
Wastewater **Wastewater Utility**	Reconstruction	1,594,158	3,553,179	1,875,650	2,177,030	1,892,269	$ 11,092,286
Wastewater **TIF # 6**	Construction	50,894	-	-	-	-	$ 50,894
Total - Sanitary Sewer Program		$ 1,645,052	$ 3,553,179	$ 1,875,650	$ 2,177,030	$ 1,892,269	$ 11,143,180

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	-	-	-	-	-	$ -
Land Acquisition	-	-	-	-	-	$ -
Construction	1,450,926	3,358,529	1,681,000	1,982,380	1,697,619	$ 10,170,454
Other	194,126	194,650	194,650	194,650	194,650	$ 972,726
Total	$ 1,645,052	$ 3,553,179	$ 1,875,650	$ 2,177,030	$ 1,892,269	$ 11,143,180
Operating Cost Impact	$ -	$ -	$ -	$ -	$ -	$ -

CITY OF APPLETON 2016 BUDGET
DEPARTMENT OF PUBLIC WORKS
SANITARY SEWER CAPITAL CONSTRUCTION PROGRAM

2016	Street	From	To	Waste-water Utility	TIF # 6	Total Cost
Labor Pool				186,726	-	186,726
CEA				7,400	-	7,400
Miscellaneous Construction	Sanitary Laterals & Manholes Prior To 2016 Asphalt Paving (B-16)			32,049		32,049
	Sanitary Laterals & Manholes Prior To 2016 Concrete Paving, new & recon (A-16)			95,036		95,036
	Structure Rehabilitation / Sewer Cut repairs from 2015 (E-16)			25,000		25,000
	Subtotal			**152,085**	**-**	**152,085**
New Construction	Vantage Dr	Lakeland Dr	Eisenhower Dr	-	50,894	50,894
	Subtotal			**-**	**50,894**	**50,894**
Reconstruction	Division St, (liner)	Washington St, 141' n/o	Washington St, 346' n/o	12,992		12,992
	Douglas St, (liner)	Spencer St	Fourth St	37,506		37,506
	Easement - River Dr and Seymour	Riverview Ln	Riverview Ln, 491' e/o	23,568		23,568
	Fourth St, (liner)	Douglas St	Outagamie St, 332' w/o	20,790		20,790
	Mueller St, (liner)	Prospect Ave	Fourth St, 402' n/o	58,497		58,497
	River Dr, (liner)	MH 19-17, 250' sw/o	MH 19-16, 349' sw/o	10,500		10,500
	Subtotal			**163,853**	**-**	**163,853**
Reconstruction - (on streets to be paved in 2017)	Bateman St	Pacific St	Hancock St	33,300		33,300
	Division St	Franklin St	Atlantic St	85,500		85,500
	Douglas St	Pine St	Haskell St	12,000		12,000
	Fair St	Franklin St	south end	67,700		67,700
	Glendale Ave	Birchwood St	Mason St	147,852		147,852
	Grant St	Nicholas St	Mason St	101,562		101,562
	Harriman St	Atlantic St	Winnebago St	46,600		46,600
	Herbert St	Pine St	Rogers Ave	32,590		32,590
	Owaissa St	Randall St	Glendale Ave	189,970		189,970
	Owaissa St	Wisconsin Ave	Randall St	286,548		286,548
	Winona Ct	Nawada St	Nawada St	80,472		80,472
	Subtotal			**1,084,094**	**-**	**1,084,094**
Total				**$ 1,594,158**	**$ 50,894**	**$ 1,645,052**

CITY OF APPLETON 2016 BUDGET
DEPARTMENT OF PUBLIC WORKS
SANITARY SEWER CAPITAL CONSTRUCTION PROGRAM

2017	Street	From	To	Waste-water Utility
Labor Pool				189,650
CEA				5,000
Miscellaneous Construction	Sanitary Laterals & Manholes Prior To 2017 Asphalt Paving (B-17)			24,330
	Sanitary Laterals & Manholes Prior To 2017 Concrete Paving, new & recon (A-17			43,110
	Structure Rehabilitation / Sewer Cut repairs from 2016 (E-16)			40,000
	Subtotal			**107,440**
New Construction	Apple Hill Farms force main	French Rd lift station	Apple Hill Blvd	96,000
	Apple Hill Farms lift station	on French Road	1450' n/o Applecreek Rd	750,000
	Lightning Dr	Edgewood Dr (CTH JJ)	n/o CTH JJ	205,500
	Subtotal			**1,051,500**
Reconstruction	Catherine St lift station remova	Franklin to Eldorado	Green Bay Rd	100,000
	Subtotal			**100,000**
Reconstruction (on streets to be paved in 2018)	Calumet St	Oneida St	Jefferson St	217,979
	Catherine St	Washington St	North St	319,265
	Drew St	Glendale Ave	Pershing St	217,979
	Lincoln St	Olde Oneida St	Madison St	20,800
	Lynndale Dr	Everett St	south to RR tracks	38,750
	Marquette St	Division St	Oneida St	102,190
	Mary St	North St	Pacific St	29,975
	Olde Oneida St	Oneida St	E. South River St	20,240
	Oneida St	Hoover Ave	Skyline Bridge	478,968
	Oneida St	Midway Rd	Hoover Ave	125,300
	Reeve St	Linwood Ave	Badger Ave	108,648
	Reeve St	Linwood Ave	Badger Ave	26,000
	Rocky Bleier Run	Water St	park	134,600
	Summer St	Morrison St	Lawe St	181,300
	Winnebago St	Linwood Ave	Badger Ave	77,595
	Subtotal			**2,099,589**
Total				**$ 3,553,179**

CITY OF APPLETON 2016 BUDGET
DEPARTMENT OF PUBLIC WORKS
SANITARY SEWER CAPITAL CONSTRUCTION PROGRAM

2018	Street	From	To	Waste-water Utility
Labor Pool				189,650
CEA				5,000
Miscellaneous Construction	Sanitary Laterals & Manholes Prior To 2018 Asphalt Paving (B-18)			35,817
	Sanitary Laterals & Manholes Prior To 2018 Concrete Paving, new & recon (A			43,147
	Structure Rehabilitation / Sewer Cut repairs from 2017 (E-16)			40,000
	Subtotal			**118,964**
New Construction				
	Subtotal			**-**
Reconstruction	Calumet St (liner)	Lawe St	Carpenter St, 92' w/o	44,660
	Easement - Outagamie and Hig	Cedar St	Reid Dr	17,131
	Harris St (liner)	Douglas St	Douglas St, 332' e/o	13,280
	Memorial Dr, (liner)	Ravinia Pl, 304' n/o	Cherry Ct, 443' s/o	122,696
	Spruce St, (liner)	College Ave	Eighth St	29,680
	Vulcan St (liner)	South Island St	South Island St, 307' n/o	16,271
	Subtotal			**243,718**
Reconstruction (on streets to be paved in 2019)	Center St	North St	Atlantic St	68,000
	Madison St	Calumet St	Taft Ave	170,630
	Prospect Ave	Bartell Dr	Haskell St	367,360
	Prospect Ave	Weatherstone Dr	Seminole Rd	232,960
	Prospect Ave (CTH BB)	City Limits	Bartell Dr	302,400
	Roosevelt St	Morrison St	Durkee St	46,443
	Summit St	Spencer St	College Ave	130,525
	Subtotal			**1,318,318**
Total				**$ 1,875,650**

CITY OF APPLETON 2016 BUDGET
DEPARTMENT OF PUBLIC WORKS
SANITARY SEWER CAPITAL CONSTRUCTION PROGRAM

2019	Street	From	To	Waste-water Utility
Labor Pool				189,650
CEA				5,000
Miscellaneous Construction	Sanitary Laterals & Manholes Prior To 2019 Asphalt Paving (B-19)			58,905
	Sanitary Laterals & Manholes Prior To 2019 Concrete Paving, new & re			40,074
	Structure Rehabilitation / Sewer Cut repairs from 2018 (E-19)			25,000
	Subtotal			**123,979**
New Construction				
	Subtotal			**-**
Reconstruction	Easement - Pierce Park, (	Prospect Ave	south of railroad tracks	248,787
	Fremont St (liner)	East St	Harmon St	13,500
	Fremont St (liner)	Kernan Ave, 666' w/c	Kernan Ave, 334' w/o	15,272
	Subtotal			**277,559**
Reconstruction (on streets to be paved in 2020)	Carpenter St	Calumet St	Taft Ave	171,760
	Carpenter St	Fremont St	Calumet St	234,475
	Douglas St	Badger Ave	Wisconsin Ave	155,036
	Morrison St	Hancock St	Wisconsin Ave	170,065
	Telulah Ave	Calumet St	John St	277,500
	Valley Road	Chain Dr	Forestview Dr	282,500
	Winnebago St	Division St	Drew St	289,506
	Subtotal			**1,580,842**
Total				**$ 2,177,030**

CITY OF APPLETON 2016 BUDGET
DEPARTMENT OF PUBLIC WORKS
SANITARY SEWER CAPITAL CONSTRUCTION PROGRAM

2020	Street	From	To	Waste-water Utility
Labor Pool				189,650
CEA				5,000
Miscellaneous Construction	Sanitary Laterals & Manholes Prior To 2019 Asphalt Paving (B-19)			28,944
	Sanitary Laterals & Manholes Prior To 2019 Concrete Paving, new & recon (A-19			36,084
	Structure Rehabilitation / Sewer Cut repairs from 2018 (E-19)			25,000
	Subtotal			**90,028**
New Construction				
	Subtotal			**-**
Reconstruction				
	Subtotal			**-**
Reconstruction (on streets to be paved in 2021)				
	Ballard Rd	Edgewood Dr - 400' n/	Apple Creek Rd - 300' n/o (Lats	32,000
	Glendale Ave	Mason St	Richmond St	302,565
	Jackson St	Calumet St	Fremont St	237,526
	Newberry Ave	Schaefer St	city limits	621,500
	Summer St	Gillett St	Story St	264,500
	Summer St	Story St	Richmond St	149,500
	Subtotal			**1,607,591**
Total				**$ 1,892,269**

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION	
Project Title:	Downtown Development

PROJECT DESCRIPTION

Justification:

Ongoing comprehensive planning efforts have identified opportunities to increase the vitality of our Central Business District by working cooperatively and systematically to promote growing downtown populations, diversity in art, lifestyle and activities, and address vacancies. Broadly, these opportunities revolve around the library, parking, traffic, green space, and commercial development. This CIP supports the update and implementation of several past planning initiatives and identifies and prioritizes a series of strategies that continue to move the downtown towards creativity, inclusion and innovation.

Planning and implementing successful projects includes proper sequencing and understanding the impacts decisions have on each other. When considered holistically, the benefits of planning projects together versus performing them independently ensures the most economical and effective outcome of service delivery for current and future generations.

2016 - Determine the future location of the library. Costs incurred could be for property appraisals of potential sites, or architectural fees for design; implement recommendations from the 2014 Parking Study including the conversion of the ramps to pay as you exit.
2017 - Design costs and/or land acquisition for a new library; purchase land and relocate businesses for Blue parking ramp demolition; implement second phase of parking study including single space smart meters, parking enforcement vehicle and wayfinding signage; design costs and land acquisition for new parking ramp; and implement recommendations from both the downtown planning and downtown traffic studies.
2018 - Construction of a new library; implement the third phase of the parking study including additional single space smart meters; complete construction of a new parking ramp; complete implementation of recommendations from the downtown planning and downtown traffic studies.
2019 - Complete construction of a new library; deconstruct the Blue ramp.
2020 - Determine the future of the City Hall building.

This CIP is to remain flexible to increase the City's ability to adapt to future needs and available resources as determined through continued planning which continues to identify opportunities, minimize risk and leverage resources in the community.

Discussion of operating cost impact:

Constructing larger facilities may increase maintenance and utility expenses, but those will be at least partially offset by more efficient mechanical systems, lighting, and general building design. The net impact on operating expenses is, therefore, not presently quantifiable.

DEPARTMENT COST SUMMARY

DEPARTMENT	PHASE	2016	2017	2018	2019	2020	Total
PRFM	Library	500,000	5,000,000	15,000,000	10,000,000	-	$ 30,500,000
	City Hall	-	-	-	-	500,000	$ 500,000
Facilities Capital Projects Fund		500,000	5,000,000	15,000,000	10,000,000	500,000	31,000,000
PRFM	Blue Ramp Demolition	-	1,000,000	-	2,400,000	-	$ 3,400,000
	Parking Study Implementation	500,000	240,000	420,000	-	-	$ 1,160,000
	New Parking Ramp	-	3,700,000	10,250,000	-	-	$ 13,950,000
Parking Utility		500,000	4,940,000	10,670,000	2,400,000	-	$ 18,510,000
Comm Dev	Downtown Study/ Implementation	-	500,000	500,000	-	-	$ 1,000,000
Community Devel Cap Projects		-	500,000	500,000	-	-	$ 1,000,000
Public Works	Traffic Study/ Implementation	-	500,000	500,000	-	-	$ 1,000,000
Public Works Cap Projects Fund		-	500,000	500,000	-	-	$ 1,000,000
Total - Downtown Development Project		$ 1,000,000	$ 10,940,000	$ 26,670,000	$ 12,400,000	$ 500,000	$ 51,510,000

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	500,000	6,700,000	-	-	500,000	$ 7,700,000
Land Acquisition	-	3,000,000	-	-	-	$ 3,000,000
Construction	500,000	-	25,250,000	12,400,000	-	$ 38,150,000
Other	-	1,240,000	1,420,000	-	-	$ 2,660,000
Total	$ 1,000,000	$ 10,940,000	$ 26,670,000	$ 12,400,000	$ 500,000	$ 51,510,000
Operating Cost Impact	NQ *	NQ *	NQ *	NQ *	NQ *	NQ *

* N/Q = Not Quantifiable

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Electrical

PROJECT DESCRIPTION
Justification:

The electrical infrastructure at the Lake Station and with older facilities/systems at the Wastewater Plant has become obsolete and is becoming less reliable.

Lake Station: This CIP will replace the existing 1970 vintage motor control center (MCC) with a new MCC. The current MCC is a General Electric system that is unique and difficult to find parts. The MCC is protected by an older "timed" fuse configuration that would be replaced by a newer adjustable circuit breaker technology that would allow for isolation of defective motors versus the current wholesale shutdown of the MCC if one motor control fails. The MCC is considered critical since all the domestic treated water for the City passes through this facility.

Wastewater Plant: This CIP represents a phased program to upgrade the electrical distribution of the Wastewater Plant. There are electrical distribution components that are over 40 years old throughout the plant. Starting at the electrical substation, transformers, breakers, MCC's, panels, and conductors need to be tested, followed by a systematic replacement program. This effort must be coordinated with current and future utility department process upgrades.

Discussion of operating cost impact:

There are no operating cost impacts expected due to these improvements.

DEPARTMENT COST SUMMARY

DEPARTMENT	PHASE	2016	2017	2018	2019	2020	Total
PRFM	Lake Station	80,000	125,000	-	-	-	$ 205,000
Water Utility Capital Projects		80,000	125,000	-	-	-	$ 205,000
PRFM	Wastewater	-	50,000	200,000	200,000	-	$ 450,000
Wastewater Utility Capital Projects		-	50,000	200,000	200,000	-	$ 450,000
Total - Electrical Upgrades Capital Projects		$ 80,000	$ 175,000	$ 200,000	$ 200,000	$ -	$ 655,000

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	30,000	50,000	-	-	-	$ 80,000
Land Acquisition	-	-	-	-	-	$ -
Construction	50,000	-	-	-	-	$ 50,000
Other	-	125,000	200,000	200,000	-	$ 525,000
Total	$ 80,000	$ 175,000	$ 200,000	$ 200,000	$ -	$ 655,000
Operating Cost Impact	$ -	$ -	$ -	$ -	$ -	$ -

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Grounds Improvements

PROJECT DESCRIPTION
Justification:

The Parks, Recreation and Facilities Management Department is responsible for grounds of all City properties, including parks and associated recreation facilities, Library, Police Department, Fire Stations, and all Water and Wastewater sites. Responsibilities for these sites include fencing replacement, turf management, landscaping of City properties, tree management, hillside and shoreline stabilization, etc. Annual assessments are conducted on all City properties to determine maintenance, upgrade and/or improvement needs and maintain the functionality and/or appearance of the facility or property to meet current City standards and expectations. Specific programs for years 2016-2020 will be adjusted based on the annual assessments conducted for each property.

This funding request recognizes the need to implement an annual replacement/improvement schedule for City property responsibilities that are difficult to identify with individual projective narratives, but are necessary to address issues such as aging plant material, changing facility use and/or needs, weather impacts, etc.
2016 - Parks- Fence replacements - $15,000
2016 - Repair and expand retaining wall to maintain Arbutus Hillside - $35,000
2016 - City Properties - Landscaping and turf renovations at MSB, Waste Water and Water Filtration - $15,000
2017 - Peabody Park - Stabilization of stone retaining wall along the Fox River - $25,000
2017 - Pierce, Erb, Linwood and City Parks - Planting program to replace trees removed due to storms, etc. - $10,000
2017 - City Properties - Landscaping and turf renovations at Water Plant and City Park - $10,000
2018 - Parks - Fence replacement and landscaping - $15,000
2018 - City Properties - Landscaping and turf renovations - $35,000
2019 - Parks - Fence replacement and landscaping - $15,000
2020 - City Properties - Landscaping and turf renovations - $35,000

Discussion of operating cost impact:

These projects are repairs and enhancements of existing facilities and are not expected to have any measurable impact on operating costs.

DEPARTMENT COST SUMMARY

DEPARTMENT	PHASE	2016	2017	2018	2019	2020	Total
PRFM	Parks-Fencing	15,000	-	15,000	15,000	-	$ 45,000
	Parks-Hillside/ Shoreline Stab.	35,000	25,000	-	-	-	$ 60,000
	Parks-Shrubs, trees	-	10,000	-	-	-	$ 10,000
	City Properties- Shrubs, trees, turf	15,000	10,000	35,000	-	35,000	$ 95,000
Total - Facilities Capital Projects Fund		$ 65,000	$ 45,000	$ 50,000	$ 15,000	$ 35,000	$ 210,000

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	-	-	-	-	-	$ -
Land Acquisition	-	-	-	-	-	$ -
Construction	-	-	-	-	-	$ -
Other	65,000	45,000	50,000	15,000	35,000	$ 210,000
Total	$ 65,000	$ 45,000	$ 50,000	$ 15,000	$ 35,000	$ 210,000
Operating Cost Impact	$ -	$ -	$ -	$ -	$ -	$ -

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION	
Project Title:	Hardscape Infrastructure Improvements/Replacements

PROJECT DESCRIPTION

Justification:

The Parks, Recreation and Facilities Management Department is responsible for all concrete and asphalt pavement associated with City facilities, including roads, parking lots, building approaches, walkways, sidewalks, trails, entrances, etc. The current inventory of hardscape includes:

	Parking lots and Roadways	Sidewalks, Walkways and Trails
Parks	890,759 sq.ft.	1,086,729 sq.ft.
Facilities	1,078,455 sq.ft.	61,705 sq.ft.
Total	1,969,214 sq.ft.	1,148,434 sq.ft.

Total Hardscape - 3,117,648 sq.ft.

Many of the parking lots, roadways, building approaches, entrances, sidewalks and walkways are reaching the end of their life expectancy and are in need of replacement and/or improvement to address changing needs, equipment modifications, ADA requirements, etc. Maintenance activities such as crack sealing, patching, sealing, etc. are addressed with available resources to maximize the life cycle of these facilities, but replacement and/or improvements are needed as facilities age and deteriorate.

This funding request recognizes the need to implement an annual replacement/improvement schedule for all hardscape infrastructure. Based on a 25-30 year replacement cycle for all hardscape areas, an estimated $200,000-$300,000 is needed on an annual basis to maintain these hardscape areas. The replacement/improvement schedule includes:

Fire Station # 3	$30,000	Schaefer Park - Pavilion lot and trail	$30,000
Pierce Park - Roadways	$40,000	Kiwanis Park - Pavilion lot and trail	$40,000
WastewaterTreatment Plant - Roadways	$150,000	Fire Station #1	$145,000
Telulah Skateboard Park	$45,000		

Future projects will be identified after annual assessments of properties and/or parks. Note that the above numbers

Discussion of operating cost impact:

These projects are repairs and enhancements of existing facilities and are not expected to have any measurable impact on operating costs.

DEPARTMENT COST SUMMARY

DEPARTMENT	PHASE	2016	2017	2018	2019	2020	Total
PRFM	Fire Stations	175,000	40,000	40,000	-	-	$ 255,000
	Park Sites	155,000	265,000	250,000	250,000	250,000	$ 1,170,000
	City sites		50,000	50,000	50,000	50,000	$ 200,000
Facilities Capital Projects		330,000	355,000	340,000	300,000	300,000	$ 1,625,000
PRFM	Wastewater	150,000	100,000	100,000	150,000	-	$ 500,000
Wastewater Utility		150,000	100,000	100,000	150,000	-	$ 500,000
PRFM	Water Plant	-	115,000	-	-	100,000	$ 215,000
Water Utility		-	115,000	-	-	100,000	$ 215,000
Total - Hardscape Improvement Projects		$ 480,000	$ 570,000	$ 440,000	$ 450,000	$ 400,000	$ 2,340,000

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	-	-	-	-	-	$ -
Land Acquisition	-	-	-	-	-	$ -
Construction	-	-	-	-	-	$ -
Other	480,000	570,000	440,000	450,000	400,000	$ 2,290,000
Total	$ 480,000	$ 570,000	$ 440,000	$ 450,000	$ 400,000	$ 2,290,000
Operating Cost Impact	$ -	$ -	$ -	$ -	$ -	$ -

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: HVAC Upgrades

PROJECT DESCRIPTION

Justification:

Upgrades are performed for three reasons: the current equipment is failing and can no longer be repaired; the equipment is not energy efficient and it makes good financial sense to replace to reduce operational costs; or there is a new need due to a change in operational requirements in the space it serves.

Facilities Operations Center - (2017) Replace furnaces with an air-handler system.

Fire - (2017) Replace furnaces in station 3 & 5. (2018/19) Install digital controls in Stations 2, 3, 4, and 5.

Library - (2019) Controls to existing VAV boxes. Deferred pending decision on new Library.

Municipal Services Building - (2016) Provide variable air volume distribution to offices including new rooftop unit and gas sensor replacements. (2018) replacement of aged Rooftop Unit.

Valley Transit - (2017-2019) Replace infrared garage heaters and controls for vehicle storage area.

Transit Center - (2018) Split air and heating system for energy conservation.

Water Plant - (2016) Replace modular building control panels with new panels and make upgrades/repairs to Kathabar system. (2018) Replacement of aging equipment. May be able to be deferred based on results of ongoing audits of equipment.

Wastewater Plant - (2016-2018) Upgrade aged HVAC pumps with energy efficient models. (2017) Replace D-Bldg. RTU due to age. (2018) B-Bldg.-Replace Bryan Boiler (10 MBtu).

Discussion of operating cost impact:

It is expected that the improvements will reduce energy consumption and increase comfort due to more efficient operations. However, the actual energy cost impact will depend on variations in electric and gas rates.

DEPARTMENT COST SUMMARY

DEPARTMENT	PHASE	2016	2017	2018	2019	2020	Total
PRFM	Fire	-	50,000	40,000	40,000	-	$ 130,000
	Facilities Op Cntr.	-	145,000	-	-	-	$ 145,000
	Library	-	-	-	75,000	-	$ 75,000
	Municipal Services	295,000	-	75,000	-	-	$ 370,000
Facilities Capital Projects Fund		295,000	195,000	115,000	115,000	-	$ 720,000
PRFM	Transit Center	-	-	75,000	-	-	$ 75,000
	Valley Transit	-	20,000	20,000	20,000	-	$ 60,000
Valley Transit Capital Projects		-	20,000	95,000	20,000	-	$ 135,000
PRFM	Water Plant	100,000	-	50,000	-	-	$ 150,000
Water Utility Capital Projects		100,000	-	50,000	-	-	$ 150,000
PRFM	Wastewater Plant	50,000	115,000	140,000	100,000	100,000	$ 505,000
Wastewater Utility Capital Projec		50,000	115,000	140,000	100,000	100,000	$ 505,000
Total - HVAC Upgrades		$ 445,000	$ 330,000	$ 400,000	$ 235,000	$ 100,000	$ 1,510,000

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	-	-	-	-	-	$ -
Land Acquisition	-	-	-	-	-	$ -
Construction	-	-	-	-	-	$ -
Other	445,000	330,000	400,000	235,000	100,000	$ 1,510,000
Total	$ 445,000	$ 330,000	$ 400,000	$ 235,000	$ 100,000	$ 1,510,000
Operating Cost Impact	$ -	$ -	$ -	$ -	$ -	$ -

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Interior Finishes and Furniture

PROJECT DESCRIPTION

Justification:

Interior finishes and furniture generally have a life span of fifteen years before wearing out or becoming unsafe or requiring changes due to changes in user functions..

Furniture includes, but is not limited to the following in the workplace; furniture systems (work stations), seating (office chairs), work tools (keyboards, tray, etc.), conference tables, storage systems (file cabinets and bookcases, etc.), office furniture (desks, credenzas, etc.), etc.

This CIP requests the following:

- Rebuild of evidence storage system at the police station. This request reuses and repairs a storage system reused from the police station. (2016, $35,000)
- Replacement of Library furniture in the workroom areas. Furniture in these areas is over 25 years old and is in need of replacement. A second goal is to greatly improve the ergonomics of the furniture. (2016/2017, $60,000)
- New conference room table and stools in the Health Department. Reorganization of the department has created an opportunity to improve meeting spaces. (2016, $10,000)
- Replacement of Technology Services furniture. The current work areas are constructed of various parts. The current furniture impedes the producitivity of the department and/or individual employees. This investment was deferred until organizational changes were made within the department and the new Director had time to assess the department's needs. (2016, $80,000)

Interior finishes include all wall coatings, ceiling tiles, carpet, various tiles, etc. Flooring is the most expensive and varies in life depending on the overall environment and hours of usage.

- Replacement of carpeting at the Library. Depending on the timeframe of the Library's replacement, carpeting is in need of replacement. (2018/2019, $225,000)
- Replacement of carpeting at City Hall. (2018, $80,000)
- Replacement of carpeting in administrative office areas of the Municipal Services Building. (2016, $40,000)

Discussion of operating cost impact:

As this project entails the replacement of existing furniture and flooring, there is no anticipated operating expense impact.

DEPARTMENT COST SUMMARY

DEPARTMENT	PHASE	2016	2017	2018	2019	2020	Total
PRFM	City Hall	90,000	-	-	80,000	-	$ 170,000
	Fire Stations	10,000	10,000	10,000	10,000	10,000	$ 50,000
	Library	30,000	30,000	125,000	100,000	-	$ 285,000
	Municipal Services	40,000	-	-	-	-	$ 40,000
	Police Station	35,000	-	-	-	-	$ 35,000
Total - Facilities Capital Projects Fund		$ 205,000	$ 40,000	$ 135,000	$ 190,000	$ 10,000	$ 580,000

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	-	-	-	-	-	$ -
Land Acquisition	-	-	-	-	-	$ -
Construction	205,000	40,000	135,000	190,000	10,000	$ 580,000
Other	-	-	-	-	-	$ -
Total	$ 205,000	$ 40,000	$ 135,000	$ 190,000	$ 10,000	$ 580,000
Operating Cost Impact	$ -	$ -	$ -	$ -	$ -	$ -

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Lighting Upgrades

PROJECT DESCRIPTION
Justification:

At City facilities and parks many of the existing fixtures are outdated and have become more maintenance intensive. In addition, these lights do not meet today's definition of being energy efficient. This CIP intends to make both improvements at one time.

Fire Station 3 & 5: Upgrade exterior lighting including replacing parking lot bollards with light poles and making improvements to the electrical service to those areas.

Parks: This CIP will convert existing incandescent, high pressure sodium and metal halide lighting to LED lighting at park pavilions and on light poles servicing parking lots, courts, trails and access roads. In addition, lights will be added where current deficiencies exist and to improve security.

Wastewater/Water Plants: Upgrade exterior lighting to LED lighting. This includes wall packs on the exterior of the facilities as well as on light poles in the parking lots and along the roads.

Municipal Services Building: Install occupancy sensors and upgrade inefficient lighting fixtures.

Other City Facilities: Opportunities for lighting upgrades exist throughout the City facilities. Upon completion of the projects identified above, additional audits will be performed to determine any additional facilities and areas that may be candidates to reduce electrical and/or operational expenses.

Discussion of operating cost impact:

Will reduce electrical costs. Total savings are dependent on hours of operation, quantity and type of fixtures used.

DEPARTMENT COST SUMMARY

DEPARTMENT	PHASE	2016	2017	2018	2019	2020	Total
PRFM	Fire Station 3 & 5	80,000	-	-	-	-	$ 80,000
	Parks	100,000	100,000	75,000	75,000	75,000	$ 425,000
	MSB	-	75,000	-	-	-	$ 75,000
	Other	-	-	75,000	75,000	75,000	$ 225,000
Facilities Capital Projects		180,000	175,000	150,000	150,000	150,000	$ 805,000
PRFM	Water Plant	50,000	-	50,000	-	-	$ 100,000
Water Utility Capital Projects		50,000	-	50,000	-	-	$ 100,000
PRFM	Wastewater	-	75,000	-	50,000	-	$ 125,000
Wastewater Utility Capital Projec		-	75,000	-	50,000	-	$ 125,000
Total - Facilities Capital Projects Fund		$ 230,000	$ 250,000	$ 200,000	$ 200,000	$ 150,000	$ 1,030,000

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	-	-	-	-	-	$ -
Land Acquisition	-	-	-	-	-	$ -
Construction	-	-	-	-	-	$ -
Other	230,000	250,000	200,000	200,000	150,000	$ 1,030,000
Total	$ 230,000	$ 250,000	$ 200,000	$ 200,000	$ 150,000	$ 1,030,000
Operating Cost Impact	$ -	$ -	$ -	$ -	$ -	$ -

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Municipal Services Building Heated Storage

PROJECT DESCRIPTION

Justification:

The Muncipal Services Building has reached its capacity to house equipment and supplies. The Department of Public Works has indicated inefficiencies, supplies that are being damaged from outside storage and materials that are freezing at times when it is critical to have them available. Accomodations have been made by adding mezzanine storage in areas with higher ceilings and by utilizing shelving when feasible.

This request anticipates that by 2019, a new heated storage facility will be required to continue to provide the level of service and to ensure the departments assets are secure.

Discussion of operating cost impact:

Additional area will entail additional maintenance and utilities expense, depending on the design. The operating cost impact is not currently quantifiable.

DEPARTMENT COST SUMMARY

DEPARTMENT	PHASE	2016	2017	2018	2019	2020	Total
PRFM	MSB Storage	-	-	-	650,000	-	$ 650,000
Total - Facilities Capital Projects Fund		$ -	$ -	$ -	$ 650,000	$ -	$ 650,000

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	-	-	-	-	-	$ -
Land Acquisition	-	-	-	-	-	$ -
Construction	-	-	-	-	-	$ -
Other	-	-	-	650,000	-	$ 650,000
Total	$ -	$ -	$ -	$ 650,000	$ -	$ 650,000
Operating Cost Impact	* N/Q	* N/Q	* N/Q	* N/Q	* N/Q	$ -

* N/Q = Not quantifiable

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Plumbing Improvements

PROJECT DESCRIPTION
Justification:

Wastewater backflow upgrades - The City water supply is brought into the Wastewater plant in the B building basement. At that point, it is split to provide potable and non potable water to the plant. There are two separate backflow preventors to provide safety to the City water system. These backflow preventors are original to the 1970 era building. The current backflow preventors do not allow for the water to be by-passed during the testing and maintenance required by the State of Wisconsin. The lack of by-pass ability requires extensive monitoring and labor to provide water to keep the plant in operation during the testing. New modern techniques have a by-passed system in place on the backflow preventors. It is the feeling of our staff that we are currently at risk of plant shutdown(s) if the current plumbing is not improved.

Lateral improvement upgrades - The wastewater plant has laterals that have deteriorated and are in need of replacement in one or more locations. 2016 includes $15,000 for engineering services and 2017 for the required upgrades.

Discussion of operating cost impact:

There is no operating cost impact from these projects.

DEPARTMENT COST SUMMARY

DEPARTMENT	PHASE	2016	2017	2018	2019	2020	Total
PRFM	Wastewater Plant	45,000	100,000	-	-	-	$ 145,000
Total - Wastewater Capital Projects		$ 45,000	$ 100,000	$ -	$ -	$ -	$ 145,000

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	15,000		-	-	-	$ 15,000
Land Acquisition	-	-	-	-	-	$ -
Construction	-	-	-	-	-	$ -
Other	30,000	100,000	-	-	-	$ 130,000
Total	$ 45,000	$ 100,000	$ -	$ -	$ -	$ 145,000
Operating Cost Impact	$ -	$ -	$ -	$ -	$ -	$ -

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Police Station Parking Deck Repairs

PROJECT DESCRIPTION

Justification:

The Police Station parking deck was constructed in 2009. The upper surface of the parking deck has a traffic coating applied to protect the concrete from the de-icing products used throughout the winter months. In addition, the joints between the concrete slabs and areas between the walls and concrete slabs are filled with a joint sealant to keep moisture out which can create damage from moisture entering those area and freezing and thawing. Both the joints and coatings require on-going maintenance.

The life-expectancy varies on the traffic coating depending on usage and wear from usage primarily from vehicle traffic. The coating eventually wears by first losing its aggregate to control slipperiness and then eventually will wear completely through. An average time frame for this is 7-10 years, but can vary depending on usage.

In 2015 an engineer performed an inspection of the deck and it was found that various joints are due for replacement/repair beyond routine maintenance. In addition, the surface is wearing, requiring a new coating. Cost estimates were collected and this CIP recommends performing the joint repair in 2016 and recoating the entire surface in 2017.

Discussion of operating cost impact:

There is no operating cost impact to this project.

DEPARTMENT COST SUMMARY

DEPARTMENT	PHASE	2016	2017	2018	2019	2020	Total
PRFM	Police Station	45,000	95,000	-	-	-	$ 140,000
Total - Facilities Capital Projects Fund		$ 45,000	$ 95,000	$ -	$ -	$ -	$ 140,000

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	-	-	-	-	-	$ -
Land Acquisition	-	-	-	-	-	$ -
Construction	45,000	95,000	-	-	-	$ 140,000
Other	-	-	-	-	-	$ -
Total	$ 45,000	$ 95,000	$ -	$ -	$ -	$ 140,000
Operating Cost Impact	$ -	$ -	$ -	$ -	$ -	$ -

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Parks, Recreation & Facilities Management Operations Center

PROJECT DESCRIPTION

Justification:

The Facilities & Grounds Operations Center lacks adequate restroom/locker room facilities for both public and staff. When constructed the facilities were built as an operation center meant for usage by internal staff. In addition, the current restroom facilities do not meet ADA standards or current codes for fixture quantity.

Currently there are single male and female restrooms/locker room facilities that are used by all visitors, office staff, operations staff and summer staff. The male restroom has a "birdbath" style sink versus normal fixtures. There is also only one shower in each of the male and female locker rooms. The Capital Improvement Plan (CIP) is to construct a new men's locker room with additional showers and locker room storage. The current men's restroom facility would be renovated into separate public restrooms for both male and female public visitors and staff. The grease/oils and dirt often tracked into the restrooms is not conducive to providing a presentable public restroom experience.

In addition to the facility being used by 28 full-time and numerous part-time staff throughout the year, the site is used by dozens of lifeguards, coaches, volunteers and the public for first-aid training, employee orientation, recreation classes, public information meetings, etc. It is estimated that 25-50 people, excluding staff noted above, utilize this facility more than 40 times per year.

Discussion of operating cost impact:

Since this project is a renovation of existing space, there is no impact on operating cost anticipated.

DEPARTMENT COST SUMMARY

DEPARTMENT	PHASE	2016	2017	2018	2019	2020	Total
PRFM	Restroom Renovation	-	-	-	350,000	-	$ 350,000
Total - Facilities Capital Projects Fund		$ -	$ -	$ -	$ 350,000	$ -	$ 350,000

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	-	-	-	-	-	$ -
Land Acquisition	-	-	-	-	-	$ -
Construction	-	-	-	350,000	-	$ 350,000
Other	-	-	-	-	-	$ -
Total	$ -	$ -	$ -	$ 350,000	$ -	$ 350,000
Operating Cost Impact	$ -	$ -	$ -	$ -	$ -	$ -

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Roof Replacement

PROJECT DESCRIPTION

Justification:

Roof areas at various facilities are reaching their expected life and are in need of replacement. Blistering, membrane shrinkage, etc. is affecting base flashings and causing leaks. Roofs require annual preventive and corrective maintenance to maximize their useable life. Each roof is inspected annually and repairs are completed as necessary. A roof audit was completed and roof replacements have been prioritized. Priorities can change and are adjusted annually if needed.

2016	Municipal Services Building (Partial)	235,000
2016	Park Pavillions (Various)	120,000
2017	Valley Transit Terminal (Center Area)	45,000
2017	Municipal Services Building (Partial/Final)	235,000
2017	Fire Station #3 & #5	130,000
2018	Fire Station #1	250,000
2019	Library	300,000
2019	Park Pavillions (Various)	120,000
2020	Wastewater Plant B - Building (Section)	45,000

Discussion of operating cost impact:

Roofs are the most critical component of a facility and require ongoing repair and replacement. The average life span of a well maintained roof can reach 25 years. The City has 113 roof areas totaling over 536,000 sq. ft. The total replacement cost is estimated at $5,092,000. Based on a 25 year replacement cost, we should expect an average of approximately $203,680 in replacement costs annually to keep our roofs up-to-date. No overall impact on operating costs is expected from roof replacements.

DEPARTMENT COST SUMMARY

DEPARTMENT	PHASE	2016	2017	2018	2019	2020	Total
PRFM	Wastewater Plant	-	-	-	-	45,000	$ 45,000
WW Utility Capital Projects		-	-	-	-	45,000	$ 45,000
PRFM	Valley Transit	-	45,000	-	-	-	$ 45,000
Valley Transit Capital Projects		-	45,000	-	-	-	$ 45,000
PRFM	Library	-	-	-	300,000	-	$ 300,000
	MSB	235,000	235,000	-	-	-	$ 470,000
	Fire Stations	-	130,000	250,000	-	-	$ 380,000
	Park Pavillions	120,000	-	-	120,000	-	$ 240,000
Facilities Capital Projects		355,000	365,000	250,000	420,000	-	$ 1,390,000
Total - Roof Replacement Projects		$ 355,000	$ 410,000	$ 250,000	$ 420,000	$ 45,000	$ 1,480,000

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	-	-	-	-	-	$ -
Land Acquisition	-	-	-	-	-	$ -
Construction	355,000	410,000	250,000	420,000	45,000	$ 1,480,000
Other	-	-	-	-	-	$ -
Total	$ 355,000	$ 410,000	$ 250,000	$ 420,000	$ 45,000	$ 1,480,000
Operating Cost Impact	$ -	$ -	$ -	$ -	$ -	$ -

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Safety and Security Improvements

PROJECT DESCRIPTION

Justification:

City Hall - Technology Services Uninterrupted Power System upgrade. The current UPS system is beyond its life expectancy and is unreliable. The City's computer system relies on this system to function in the event of a power outage.

Generator Replacement: Replace generator at Valley Transit Operations Garage. The current generator is 20+ years old and has experienced numerous repairs. The generator's reliability has decreased substantially. In addition, the generator cannot meet the current loads of today's operations.

Asbestos Removal: Last year a 5-year remediation initiative was developed to remediate any asbestos remaining in City facilities. Though no facility occupants are in any harms way it is responsible to remediate remaining asbestos to eliminate any possibilities of exposure to employees.

Fire System/Panel Upgrades - The fire panel and annunciators are in need of replacement at the Municipal Services Building (2017). To ensure reliability that the system will function properly makes a upgrade essential. Over the course of several years various systems have been upgraded and standardized throughout the City facilities.

Park Security Upgrades - To continue the initiative to include auto-locks on pavilions and cameras within parks to deter vandalism and other unwanted behavior. Auto-locks open and close pavilion restroom doors to eliminate labor to manually open and/or close the pavilions on a daily basis.

Re-Keying of Facilities - To develop a standardized keying system for City Facilities. The facilities have been constructed independently and over several years utilizing various keying systems of various ages and security levels. To increase and maintain security it is recommended to develop a upgraded universal system. (Wastewater

Discussion of operating cost impact:

Though CSO Officers would reduce time to open and close pavilions their time is utilized for other police matters, therefore would no reduction of labor hours is projected.

DEPARTMENT COST SUMMARY

DEPARTMENT	PHASE	2016	2017	2018	2019	2020	Total
PRFM	City Hall	35,000	-	-	-	-	$ 35,000
	Various Facilities	-	25,000	25,000	25,000	25,000	$ 100,000
	MSB	20,000	125,000	-	-	-	$ 145,000
	Parks	30,000	30,000	30,000	30,000	-	$ 120,000
Facilities Capital Projects		85,000	180,000	55,000	55,000	25,000	$ 400,000
PRFM	VT Generator	-	145,000	-	-	-	$ 145,000
Valley Transit Capital Projects		-	145,000	-	-	-	$ 145,000
PRFM	Wastewater Plant	-	60,000	100,000	-	-	$ 160,000
WW Utility Capital Projects		-	60,000	100,000	-	-	$ 160,000
Total - Safety & Security Upgrades		$ 85,000	$ 385,000	$ 155,000	$ 55,000	$ 25,000	$ 705,000

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	-	40,000	25,000	-	-	$ 65,000
Land Acquisition	-	-	-	-	-	$ -
Construction	95,000	345,000	130,000	55,000	25,000	$ 650,000
Other	-	-	-	-	-	$ -
Total	$ 95,000	$ 385,000	$ 155,000	$ 55,000	$ 25,000	$ 715,000
Operating Cost Impact	$ -	$ -	$ -	$ -	$ -	$ -

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Storage

PROJECT DESCRIPTION
Justification:
Facilities and Grounds Operations Center - Install mezzanine storage to eliminate the need for additional building square footage, yet gain the extra storage capacity needed for parts, supplies and seasonal storage of equipment. Current ceiling heights allow for this more economical option.
Discussion of operating cost impact:
Mezzanine - Prevents the need for building additional square footage to existing structures.

DEPARTMENT COST SUMMARY

DEPARTMENT	PHASE	2016	2017	2018	2019	2020	Total
PRFM	Facilities & Grounds Operations Center	42,500	-	-	-	-	$ 42,500
Total - Facilities Capital Projects Fund		$ 42,500	$ -	$ -	$ -	$ -	$ 42,500

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	-	-	-	-	-	$ -
Land Acquisition	-	-	-	-	-	$ -
Construction	-	-	-	-	-	$ -
Other	42,500		-	-	-	$ 42,500
Total	$ 42,500	$ -	$ -	$ -	$ -	$ 42,500
Operating Cost Impact	$ -	$ -	$ -	$ -	$ -	$ -

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Wastewater Plant Lab Upgrades

PROJECT DESCRIPTION
Justification:
The labs at the Wastewater Plant are in need of numerous updates as requested by the Utilities Department. Processes have changed significantly since the labs were originally constructed, including requirements for additional tests. Some of the lab areas have not only reached their expected lives but are also in need of changes to meet today's needs.
Discussion of operating cost impact:
This project entails a renovation of existing space and is not expected to have any impact on operating expense.

DEPARTMENT COST SUMMARY

DEPARTMENT	PHASE	2016	2017	2018	2019	2020	Total
PRFM	Planning	15,000	-	-	-	-	$ 15,000
	Contractor	85,000	-	-	-	-	$ 85,000
Total - Wastewater Utility Capital Projects		$ 100,000	$ -	$ -	$ -	$ -	$ 100,000

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	15,000		-	-	-	$ 15,000
Land Acquisition	-	-	-	-	-	$ -
Construction	85,000	-	-	-	-	$ 85,000
Other	-	-	-	-	-	$ -
Total	$ 100,000	$ -	$ -	$ -	$ -	$ 100,000
Operating Cost Impact	$ -	$ -	$ -	$ -	$ -	$ -

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Parking Utility Maintenance and Equipment

PROJECT DESCRIPTION

Justification:

Consultant - Parking Ramp Structural Evaluations - The City has established a program where every three years, all City-owned parking ramps are inspected by a structural engineering consultant. Written reports are prepared by the consultant, including detailed recommendations for short-term and long-term maintenance activities. The next round of inspections is planned for 2016. The consultant's recommended repairs to each facility will be incorporated into the Parking Division's 5-year Capital Improvements Program in an effort to prolong the useful life of each facility. This is a contracted service as no City staff have the appropriate background to perform this type of inspection.

Parking Ramp Structural Improvements - As a follow-up to the consultant's structural evaluations, the City has developed an annual program for structural improvements to all City-owned ramps. The goal of this program is to budget adequate funds for structural improvements to the City's parking ramps in accordance with the consultant's prioritized recommendations. The improvements will ensure a safe parking environment for our customers and prolong the useful life of the City's ramps.

Parking Lot Repairs - Annual maintenance costs in the Library Plaza parking lot will continue to increase unless a larger scale rehabilitation is performed. We anticipate the need for larger scale repairs within the next 10 years, subject to the timing of other improvements in the entire Washington square area. These repairs will prolong the useful life of the facilities as well as limit liability exposure for the City.

Ramp Security Cameras - Installation of cameras at the entrances and exits of our parking ramps has provided added safety for City ramp personnel as well as ramp users. These cameras also provide a means to monitor ramp activities in the event that no ramp personnel are available. This is an ongoing program that has been budgeted over several years and is part of the City's overall security enhancements. The next phases are planned for 2016, and 2018.

Ramp LED Lighting Upgrades - Currently, our parking ramps are illuminated by a combination of fluorescent, high-pressure sodium and metal halide light fixtures. These fixtures are based on older technology and much less energy efficient than the LED fixtures available today. The planned 2017 replacement of all existing non-LED fixtures throughout our parking raps will result in drastic reductions in monthly energy bills and it is anticipated that the cost to purchase and install the new fixtures will be offset by energy savings within a three year period.

Discussion of operating cost impact:

Beginning in 2017 we anticipate an approximate 50% reduction in annual energy costs due to the conversion to LED ramp lighting.

DEPARTMENT COST SUMMARY

DEPARTMENT PHASE	2016	2017	2018	2019	2020	Total
Parking						
Ramp structural evaluations	25,000	-	-	25,000	-	$ 50,000
Ramp structural maintenance	100,000	100,000	125,000	125,000	125,000	$ 575,000
Lot repairs	-	-	35,000	-	-	$ 35,000
Security cameras	20,000	-	20,000	-	-	$ 40,000
LED Lighting Upgrades	-	450,000	-	-	-	$ 450,000
Total - Parking Utility Capital Projects	$ 145,000	$ 550,000	$ 180,000	$ 150,000	$ 125,000	$ 1,150,000

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Design/Planning	-	-	-	-	-	$ -
Land Acquisition	-	-	-	-	-	$ -
Construction	100,000	100,000	160,000	125,000	125,000	$ 610,000
Other	45,000	450,000	20,000	25,000	-	$ 540,000
Total	$ 145,000	$ 550,000	$ 180,000	$ 150,000	$ 125,000	$ 1,150,000
Operating Cost Impact	$ -	$ (50,400)	$ (103,004)	$ (105,064)	$ (106,115)	$ (364,583)

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION	
Project Title:	Chemical Storage - Water Treatment Facility

PROJECT DESCRIPTION

Justification:

The Appleton Water Treatment Facility (AWTF) utilizes a group of specifically approved chemicals as part of the drinking water treatment process. Each chemical is intended to perform a unique purpose within the water treatment "train". The AWTF existing chemical storage room was designed as part of original plant construction in 2001 for the intended purpose of supporting the regulatory approved treatment processes and associated components within. Evidence of chemical deterioration is being observed as the AWTF age (15 years) approaches or exceeds the normally expected life of some of the critical storage (i.e. fiberglass tanks) and conveyance components (i.e. PVC pipe).

The AWTF continues with the multi-year process of methodically navigating from ultra filtration membranes following final completion of the Regulatory Upgrade and Process Improvements Project (RUPIP). Once the transition to ultraviolet light (UV) reactors is complete decisions will need to be made regarding equipment abandonment, repurposing, and space utilization. The intent of this CIP is to obtain professional engineering services to perform an overall assessment of the existing chemical storage room. This includes a conditions assessment of chemical storage, pumping, and conveyance systems. Repair and/or replacement recommendations based on the conditions assessment will be provided with a focus on future needs following RUPIP. A project will then be developed and implemented based on the engineering findings and recommendations.

Discussion of operating cost impact:

This project will decrease staff labor and associated equipment maintenance related to this equipment, enabling staff to attend to other critical maintenance duties. The primary impact is expected to be a reduction of overtime expense.

DEPARTMENT COST SUMMARY

DEPARTMENT	PHASE	2016	2017	2018	2019	2020	Total
Water Utility	Engineering	25,000	-	-	-	-	$ 25,000
	Construction	225,000	-	-	-	-	$ 225,000
Total - Water Treatment Capital Projects Fund		$ 250,000	$ -	$ -	$ -	$ -	$ 250,000

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	-	-	-	-	-	$ -
Land Acquisition	25,000	-	-	-	-	$ 25,000
Construction	225,000	-	-	-	-	$ 225,000
Other	-	-	-	-	-	$ -
Total	$ 250,000	$ -	$ -	$ -	$ -	$ 250,000
Operating Cost Impact	$ (1,000)	$ (1,000)	$ (1,000)	$ (1,000)	$ (1,000)	$ (5,000)

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: TMDL Related Facility Planning

PROJECT DESCRIPTION

Justification:

On May 18, 2012, the US Environmental Protection Agency (EPA) approved the lower Fox River basin and Green Bay area of concern Total Maximum Daily Load (TMDL). The TMDL outlines phosphorus and sediment reductions needed to restore water quality in the local waterways, lower Fox River and bay of Green Bay. As a result, revisions to NR 217 regulations will lower effluent limits for phosphorus discharges of the Appleton Wastewater Treatment Plant (AWWTP). The Wisconsin Department of Natural Resources (WDNR) implements point source load allocations through permits issued under the Wisconsin Pollutant Discharge Elimination System (WPDES) program. Under the approved TMDL, the WDNR established wastewater effluent limits of 0.2 mg/l or less for point sources with WPDES permits on the lower Fox River. This limit is substantially lower than the AWWTP's current 1.0 mg/l phosphorus limit. The current treatment plant processes were not designed to remove phosphorus to these new lower limits. A preliminary study conducted in 2010 estimated $40,000,000 in engineering and construction costs to meet the proposed phosphorus rules.

The WDNR recognizes three tools that exist to WPDES permit holders under the TMDL that will be evaluated by the City to determine the most effective path of compliance. They include on-site phosphorus treatment/removal, Water Quality Trading (WQT), and/or Adaptive Management (AM). A fourth compliance option known as Senate Bill 547 was passed by the state legislature in February 2014 and was subsequently signed by the governor. SB-547 provides a variance to permit holders by incorporating effluent limits that successively decrease over a 20 year period or four permit cycles, which ultimately reach the water quality based phosphorus effluent limit of 0.1 mg/L. The bill underwent an economic impact analysis which was released on April 24, 2015. Unfortunately, the findings from this analysis determined that Appleton would not be eligible for the variance.

The AWWTP's current WPDES permit expires in September, 2015. A decision must be made to the planned path for compliance in advance of the next permit's expiration date (2020). Professional engineering work initiated in the fall of 2013 will provide the Utility with an extensive evaluation of existing AWWTP treatment capabilities and process optimization opportunities. This work also provides new treatment improvement recommendations that will effectively comply with low-level phosphorus standards. WQT and AM are also being evaluated as off-site alternative methods for regulatory compliance. The Utility will be provided a final technical document late 2015 with a suite of options including pairing alternatives that provide the most cost effective path(s) for regulatory compliance. The information compiled within this document will be used for the basis of capital planning in future budget years. Monies allocated in 2016 will be used to refine chemical treatment and plant optimization, act upon recommendations contained within the consultant report, and evaluate opportunities that may be available through WQT and AM.

Discussion of operating cost impact:

Non-compliance could result in regulatory fines, a compliance schedule and / or a moratorium on development. Operating impacts will have costs associated with them when the regulatory standards and associated treatment improvements are established in years following the Facilities Study.

DEPARTMENT	PHASE	2016	2017	2018	2019	2020	Total
Wastewater	Design	-	-	500,000	3,000,000	-	$ 3,500,000
	Equipment	-	-	-	-	22,000,000	$ 22,000,000
Total - Wastewater Capital Projects		$ -	$ -	$ 500,000	$ 3,000,000	$ 22,000,000	$ 25,500,000

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	-	-	500,000	3,000,000	-	$ 3,500,000
Land Acquisition	-	-	-	-	-	$ -
Construction	-	-	-	-	22,000,000	$ 22,000,000
Other - Equipment	-	-	-	-	-	$ -
Total	$ -	$ -	$ 500,000	$ 3,000,000	$ 22,000,000	$ 25,500,000
Operating Cost Impact	N/Q *	N/Q *	N/Q *	N/Q *	N/Q *	N/Q *

* N/Q = Not Quantifiable

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Wastewater Sludge Storage Options

PROJECT DESCRIPTION

Justification:

Wastewater plant biosolids storage deficiencies have occurred over the past several years. This deficiency has triggered the need for Appleton City Council resolutions to investigate options to address the deficiency and comply with the 180 day biosolids storage requirement under code NR 204. More recently the Wisconsin Department of Natural Resources has proposed more stringent agricultural nutrient management standards for land on which biosolids are applied. These new standards could have significant implications to municipal biosolids management programs. Each of the aforementioned have caused the Utility to consider various treatment options that could provide cost effective storage options and end-use diversification for AWWTP biosolids. Composting was evaluated because it alters Appleton wastewater biosolids classification under NR 204 from a Class-B to a Class-A material. Successful composting would also reduce storage needs and allow the wastewater facility to meet the 180-day storage requirement while generating a product that is appealing to a number of markets including residents, nurseries, and commercial landscapers. The composting provides greater flexibility in scheduling land application of Class B biosolids by maximizing available storage which reduces costs.

Since 2008, the Appleton Department of Public Works and Wastewater Utility have worked with the Outagamie County Solid Waste Department to seek cooperative solutions to AWWTP biosolids, curbside leaf / yard waste materials, and landfill cover needs. The Utility received authorization from Common Council in 2009 to begin the engineering phase of a large-scale compost pilot project at the Outagamie County Landfill. A compost facility plan was developed and approved by the DNR which provided operational guidelines to demonstrate the feasibility and assess costs for a cooperative composting operation. Compost pad construction was completed in September 2010. Since the pad construction, approximately 45,000 cubic yards of compost material has been processed as part of eight individual batches. In October 2015, the Biosolids Composting Facility will be permitted as part of the AWWTP's Wisconsin Pollutant Discharge Elimination System (WPDES) permit. Feasibility of a long-term composting program will continue to be evaluated as markets are researched and developed. The 2016 budget establishes funding for professional compost marketing services which are to be used to complete updated market research, identify buyer scenarios (single vs. multiple point) as a function of regional product demand and current compost production, and provide the City with assistance on developing cost comparisons between current operational expenses vs. options to reduce cost. If composting proves to be unsuccessful, funds will be used for design/architecture planning for a biosolids building expansion.

Discussion of operating cost impact:

Since 2013, costs related to composting have been included in the biosolids O&M budget. O&M costs for continued land application of biosolids will closely follow cost increases in fuel and viable application sites. Significant program cost increases would be expected if limitations to on-site sludge storage required landfilling during a period when traditional land application is not feasible. The compost option eliminates that need by providing additional 180-day storage capacity. Developing compost markets may provide the ability to offset future operational costs through bulk compost sales.

DEPARTMENT COST SUMMARY

DEPARTMENT	PHASE	2016	2017	2018	2019	2020	Total
Wastewater & Facilities	Engineering	-	-	-	405,074	-	$ 405,074
	Construction	-	-	-	-	3,755,032	$ 3,755,032
Total - Wastewater Capital Projects		$ -	$ -	$ -	$ 405,074	$ 3,755,032	$ 4,160,106

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Engineering	-	-	-	405,074	-	$ 405,074
Construction	-	-	-	-	3,755,032	$ 3,755,032
Other	-	-	-	-	-	$ -
Total	$ -	$ -	$ -	$ 405,074	$ 3,755,032	$ 4,160,106
Operating Cost Impact	NQ *	NQ *	NQ *	NQ *	NQ *	$ -

* N/Q = Not Quantifiable

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Additional Vehicle for Station Six

PROJECT DESCRIPTION
Justification:

Fire District Six is positioned in a growth area of the far northeast quadrant of the City. Due to the physical layout of the community, additional staffing and equipment is required to meet expected response times for the **minimum** initial response staffing of emergency incidents. To maintain response capability, another engine is required. It is anticipated that this unit would provide coverage on the far north side of the community.

Discussion of operating cost impact:

The initial operating costs include salaries and fringe benefits for nine additional employees along with funding for repair, maintenance, and replacement costs of the vehicle. In the first year, the operating costs also include funds to equip the vehicle.

DEPARTMENT	PHASE	2016	2017	2018	2019	2020	Total
Fire	Equipment	-	-	610,000	-	-	$ 610,000
Total - Public Safety Capital Projects Fund		$ -	$ -	$ 610,000	$ -	$ -	$ 610,000

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	-	-	-	-	-	$ -
Land Acquisition	-	-	-	-	-	$ -
Construction	-	-	-	-	-	$ -
Other	-	-	610,000		-	$ 610,000
Total	$ -	$ -	$ 610,000	$ -		$ 610,000
Operating Cost Impact	$ -	$ -	$ 1,046,937	$ 972,256	$ 1,001,423	$ 3,020,616

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Emergency Vehicle Traffic Preemption Upgrade

PROJECT DESCRIPTION

Justification:

The City implemented an emergency vehicle preemption (EVP) system in 1992. EVP is a system that allows control of specific intersections during emergency response. By controlling the intersection, the Fire Department can respond more safely as well as reducing response times to emergency incidents. The current EVP uses infrared (IR) light technology. The system includes emitters mounted on emergency vehicles and detectors and phase selectors at the intersection. EVP has been installed and maintained by the Traffic Division of the Department of Public Works.

The current upgrade would transition EVP from IR to a GPS-based system. The GPS-based system delivers reliable, accurate EVP from greater distances in a wider range of environments — including around corners and at intersections with obstructed views. It leverages GPS technology and highly secure radio communications to help emergency responders move through intersections more quickly and safely. Combining GPS technology with central management software provides remote, real-time system management and monitoring to improve performance, reduce maintenance costs, and enhance overall traffic safety. With additional central management control, the system could be offered to other response agencies such as Gold Cross Ambulance, Kaukauna and Grand Chute Fire Departments. The potential also exists to add GPS units in the future to DPW snow plows to improve the snow removal process.

The project began in 2014 with installation of the fire apparatus vehicle units, central management software, and the upgrade of twenty intersections. An additional twenty intersections were upgraded in 2015 with another twenty planned for both 2016 and 2017. During the upgrade process, the City continues to utilize existing IR equipment providing continued EVP at the unimproved intersections. Upon completion of the project, the IR EVP equipment will be removed and the complete GPS system will be utilized.

Discussion of operating cost impact:

Ongoing system maintenance would be handled through the normal EVP maintenance process that is currently occurring within the DPW Traffic Engineering Division, and annual software maintenance will be approximately $2,500 annually.

DEPARTMENT COST SUMMARY

DEPARTMENT	PHASE	2016	2017	2018	2019	2020	Total
Fire	Equipment	130,895	136,131	-	-	-	$ 267,026
DPW	Installation	15,911	16,000	-	-	-	$ 31,911
Total - Public Safety Capital Projects Fund		$ 146,806	$ 152,131	$ -	$ -	$ -	$ 298,937

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	-	-	-	-	-	$ -
Land Acquisition	-	-	-	-	-	$ -
Construction	130,895	136,131	-	-	-	$ 267,026
Other	15,911	16,000	-	-	-	$ 31,911
Total	$ 146,806	$ 152,131	$ -	$ -	$ -	$ 298,937
Operating Cost Impact	$ 2,500	$ 2,500	$ 2,500	$ 2,500	$ 2,500	$ 12,500

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Training Tower Repairs/Upgrade

PROJECT DESCRIPTION

Justification:

The training tower at Fire Station # 6 was built in 2003. Since that time, numerous fire instructors and students that have utilized the structure have identified a number of modifications that are becoming increasingly necessary in order to maintain it in proper repair.

In 2015, the department worked on the window repair as many of the existing windows were damaged which allowed the elements and wildlife to damage the tower. Additionally, many of the windows lacked proper locking mechanisms and posed an increased risk/liability of unauthorized individuals getting into the tower and either getting hurt or vandalizing the property. The department worked with a contractor to modify the window openings with a type of frame that would allow us to take windows in and out of the openings to meet the training needs and to give us the ability to replace damaged windows with less expensive windows.

In 2016, this request includes the addition of a flashover simulator on the exterior of the training tower that would serve dual purposes with a modification to pipe smoke into the training tower. This addition would allow us to conduct flashover simulations to educate line personnel on the signs and danger of hostile fire events and to expose newer personnel to a realistic live fire training environment with the safety of a pre-engineered structure. The proposal would also include the modification of the exterior venting of the simulator to be piped into the training tower so that personnel could create scenarios within our tower that would have realistic smoke conditions as well as small amounts of heat that would increase the effectiveness of training with our thermal imaging cameras.

In 2017, these modifications also include replacing the worn blacktop with concrete and converting a small grassy area into a more useable training space by converting it to concrete.

Discussion of operating cost impact:

There should be no additional operating costs as a result of these modifications.

DEPARTMENT COST SUMMARY

DEPARTMENT	PHASE	2016	2017	2018	2019	2020	Total
Fire	Flashover Simulator/ Venting Modification	50,000	-	-	-	-	$ 50,000
	Concrete	-	198,600	-	-	-	$ 198,600
Total - Public Safety Capital Projects Fund		$ 50,000	$ 198,600	$ -	$ -	$ -	$ 248,600

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	50,000	-	-	-	-	$ 50,000
Land Acquisition	-	-	-	-	-	$ -
Construction	-	-	-	-	-	$ -
Other	-	198,600	-	-	-	$ 198,600
Total	$ 50,000	$ 198,600	$ -	$ -	$ -	$ 248,600
Operating Cost Impact	$ -	$ -	$ -	$ -	$ -	$ -

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Enterprise Resource Planning (ERP) System

PROJECT DESCRIPTION

Justification:

2016 is the second year of a multi-year project to replace all of the software currently running on the iSeries computer, in anticipation of retiring that computer in 2018 at the end of its useful life. The financial system currently in use is 20 years old and is connected to various other, mostly custom programmed, systems (cash receipting, payroll, utility billing, accounts receivable, etc.). The Assessor's and Asset Management systems are both custom programmed, therefore requiring in-house programming capacity and, because they run on the iSeries, tying us to an older programming language (RPG) for which programmers are increasingly difficult to hire. The number and complexity of the interfaces between all of these programs severely limit our ability to provide the level of customer service the citizens of Appleton expect and managers of City departments need.

The process for implementing new technology not only focuses on the technology itself, but also aims to enhance existing business processes performed by individual departments across the City by enabling them to adopt best practices in their various fields. Technology is intended to enhance departmental business processes by:

- Making them both more efficient and effective
- Improving decision-making by improving access to data and tools with which to analyze it
- Providing enhanced customer service to both internal and external customers
- Streamlining processes to reduce costs

$125,000 was budgeted for consulting services in 2015 to perform a needs assessment, develop detailed specifications for a request for proposal (RFP), and assist us with vendor selection. It has been determined that the replacement project should be managed in 3 separate packages - a traditional ERP package for Finance, Payroll and HR applications, a Computer-Assisted Mass Appraisal (CAMA) system for property assessments and an Enterprise Asset Management (EAM) package for asset management and inventory control. The RFP has been issued and we are on schedule to have a vendor selected for the first phase sometime in the 3rd quarter of 2015.

The 2016 request of $3,000,000 will cover the initial cost of the necessary software, hardware and implementation of the ERP and CAMA systems. We anticipate that any system selected would operate in our current environment of networked virtual servers but that additional server and data storage capacity will be needed. The 2017 request of $400,000 is for the asset management system. At this time, the projected completion with all modules is between the 4th quarter of 2018 and the 1st quarter 2019.

Discussion of operating cost impact:

Hardware and software maintenance for the ERP system that replaces the iSeries would begin in 2017, the second year of ownership of the system, and is estimated at $100,000. In 2018, the annual maintenance on the iSeries and JDEdwards accounting software would cease.

DEPARTMENT COST SUMMARY

DEPARTMENT	PHASE	2016	2017	2018	2019	2020	Total
IT	ERP / CAMA Sys.	3,000,000	-	-	-	-	$ 3,000,000
	Asset Management	-	400,000	-	-	-	$ 400,000
Total - Information Technology Capital Projects Fund		$ 3,000,000	$ 400,000	$ -	$ -	$ -	$ 3,400,000

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	-	-	-	-	-	$ -
Land Acquisition	-	-	-	-	-	$ -
Construction	-	-	-	-	-	$ -
Other	3,000,000	400,000	-	-	-	$ 3,400,000
Total	$ 3,000,000	$ 400,000	$ -	$ -	$ -	$ 3,400,000
Operating Cost Impact	$ -	$ 100,000	$ 61,500	$ 61,500	$ 61,500	$ 20,000

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Information Technology Equipment and Infrastructure

PROJECT DESCRIPTION

Justification:

As the Information Technology Department looks toward the future and continues down the path of upgrading our critical needs and systems, a number of projects need to be undertaken.

In 2016, we're scheduled for our next phone system upgrade, which will upgrade the necessary hardware and software to maintain their working order, as well as building in redundancy that hasn't been programmed in before. It will also allow us to virtualize some of the systems and eliminate more hardware. The amount of this project will be $25,000.

The Appleton Fire Department (AFD) uses the Cisco Telepresence teleconferencing system at all fire stations for training, allowing all Fire units to remain in district and available for emergency response even during training sessions. This project will add a node at the Appleton Police Department, enabling Police members of the Appleton Emergency Operations Command (EOC) to share training with their counterparts at AFD while remaining available for emergency call out. It will also enable Police staff in general to get necessary training on-site and will provide one more communications link for the EOC. $25,000 is being requested for this project.

In recent years, we have replaced all of our individual servers dedicated to particular programs with a small number (currently three) of larger servers running programs that create a virtual server environment. This allows capacity of individual virtual servers to be reconfigured depending on the needs of the various network programs' demands. $35,000 is being requested again this year to continue upgrades to the physical servers in order to support the current versions of software. Once these upgrades have been made, we will be able to upgrade to the latest version of the virtual server operating system at no additional cost, as those upgrades are included in our annual software maintenance fee.

Also requested for 2016 is a planned upgrade of our system security, including spam filters, internet firewall, and remote access.

In January of 2018 our existing EMC Storage Area Network will be 6 years old, the point at which the life expectancy begins to shrink and maintenance becomes a larger problem and we expect to need to replace the aging equipment.

Discussion of operating cost impact:

The phone system, server, security and SAN projects are all upgrades/replacements of existing equipment and software and therefore are not expected to appreciably affect operating costs. The Cisco Telepresence project will add support cost of about $2,000 a year to our current telecommunications support, beginning in the year after installation.

DEPARTMENT COST SUMMARY

DEPARTMENT	PHASE	2016	2017	2018	2019	2020	Total
IT	Phone System Upgrade	25,000	-	-	-	-	$ 25,000
IT	Server Upgrade	35,000	-	-	-	-	$ 35,000
IT	Cisco Telepresence - APD	25,000	-	-	-	-	$ 25,000
IT	SAN Replacement	-	-	350,000	-	-	$ 350,000
IT	Security Upgrade	50,000	-	-	-	-	$ 50,000
Total - Information Technology Capital Projects Fund		$ 135,000	$ -	$ 350,000	$ -	$ -	$ 485,000

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	-	-	-	-	-	$ -
Land Acquisition	-	-	-	-	-	$ -
Construction	-	-	-	-	-	$ -
Other	135,000	-	350,000	-	-	$ 485,000
Total	$ 135,000	$ -	$ 350,000	$ -	$ -	$ 485,000
Operating Cost Impact	$ -	$ 2,000	$ 2,000	$ 2,000	$ 2,000	$ 8,000

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Express Poll - Electronic Pollbook

PROJECT DESCRIPTION

Justification:

New and upcoming electronic voter check-in device reduces wait time for voters, increases accuracy of voter information and improves the election day experience for both voters and workers.
A tablet-based system cost is approximately $1,000 per book. We would plan to place 2-3 at each polling place, for a total of about 36 plus printers for each device (36) to print out the voter #/ballot style slip, about $400 each plus peripherals. Total planned cost of $50,000 to upgrade to an electronic poll book system.

Discussion of operating cost impact:

.
Software and/or maintenance agreement also to consider estimated to be $200 per unit (36) = $7,200/year.

DEPARTMENT COST SUMMARY

DEPARTMENT PHASE	2016	2017	2018	2019	2020	Total
Legal Services Equipment	-	-	50,400	-	-	$ 50,400
Total - City Center Capital Projects Fund	$ -	$ -	$ 50,400	$ -	$ -	$ 50,400

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	-	-	-	-	-	$ -
Land Acquisition	-	-	-	-	-	$ -
Construction	-	-	-	-	-	$ -
Other	-	-	50,400	-	-	$ 50,400
Total	$ -	$ -	$ 50,400	$ -	$ -	$ 50,400
Operating Cost Impact	$ -	$ -	$ 7,200	$ 7,200	$ 7,200	$ 21,600

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Tabulating Machine for Elections

PROJECT DESCRIPTION

Justification:

The current vote tabulating machines, the M100 model, are approaching the end of their useful lives and replacement parts will become increasingly unavailable. The prospective replacement machine is a digital model, the DS200, at an estimated cost of $5,800 per machine. 16 machines are required, one for each of 15 ward voting places plus one spare. With periperhals (modem and jump drive for each machine) and delivery, the total cost is estimated at $95,800.

Discussion of operating cost impact:

An annual maintenance agreement will be required but is not expected to differ substantially from the annual maintenance cost of the existing machines, therefore there is no operating cost impact.

DEPARTMENT COST SUMMARY

DEPARTMENT PHASE	2016	2017	2018	2019	2020	Total
Legal Services Equipment	-	-	95,800	-	-	$ 95,800
Total - City Center Capital Projects Fund	$ -	$ -	$ 95,800	$ -	$ -	$ 95,800

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	-	-	-	-	-	$ -
Land Acquisition	-	-	-	-	-	$ -
Construction	-	-	-	-	-	$ -
Other	-	-	95,800	-	-	$ 95,800
Total	$ -	$ -	$ 95,800	$ -	$ -	$ 95,800
Operating Cost Impact	$ -	$ -	$ -	$ -	$ -	$ -

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: CEA Fuel Site Upgrades

PROJECT DESCRIPTION

Justification:

To meet the laws governing fuel dispensing systems, CEA will need to upgrade the fuel system at the Municipal Services Building. State of Wisconsin Commercial Code 10.500(5) requires the City of Appleton to install tank top containment and below dispenser containment systems, both equipped with sensors to detect for leaks, at the Municipal Services Building fuel site.

This project includes removal of the fuel dispensers and concrete islands, installation of the spill containment devices and monitors, reinstalling or replacing the concrete islands and fuel dispensers, and all associated piping and electrical revisions. It also includes the cost of all permits, testing, certification and training needed for operation of the system. In addition, the cathodic protection anodes in each tank will be replaced while the tanks are exposed, as the sacrificial anodes are near the end of their life.

The City has tried to use other fueling sites in the past, but the lag time between sites made it difficult to manage the data required to initiate preventive maintenance work in a timely manner. Costs were also higher to departments, so they preferred not to use the offsite locations. In addition, many of the retail site roofs are not high enough for our trucks and complaints were received for the large trucks blocking vision to pumps, especially at busy locations.

Discussion of operating cost impact:

In 2015, CEA added a surcharge of $.05 per gallon to the fuel charges as a means of covering the borrowing for upgrades to the fuel site. There is no additional operating cost impact to the project at this time.

DEPARTMENT COST SUMMARY

DEPARTMENT	PHASE	2016	2017	2018	2019	2020	Total
CEA	Fuel Containment	-	-	100,000	-	-	$ 100,000
Total - CEA Capital Projects		$ -	$ -	$ 100,000	$ -	$ -	$ 100,000

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	-	-	-	-	-	$ -
Land Acquisition	-	-	-	-	-	$ -
Construction	-	-	100,000	-	-	$ 100,000
Other	-	-	-	-	-	$ -
Total	$ -	$ -	$ 100,000	$ -	$ -	$ 100,000
Operating Cost Impact	$ -	$ -	$ -	$ -	$ -	$ -

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Digital Radios (6.5kHz narrow banding)

PROJECT DESCRIPTION

Justification:

The Federal Communication Commission (FCC) has required that all existing licensees convert existing 25 kHz radio systems to 12.5 kHz narrow banding efficiency technology by January 1, 2013, which the City of Appleton has done. In addition to the 12.5 kHz requirement, the FCC expects that licensees will be required to further narrowband to a bandwidth of 6.25 kHz. This deadline has not yet been established but the year 2020 has been talked about throughout the industry. If an agency is not in compliance with the narrow banding mandate by the given deadline the FCC may issue fines and or cancel licenses.

Recognizing that the new narrow banding deadline is approaching, CEA is requesting to upgrade the existing radio system to a ETSI (European Telecommunications Standards Institute) DMR (Digital Mobile Radio) open standard, 6.25 kHz system in 2016 . This upgrade will not only help us meet the new requirements, but will also offer many advantages over the existing analog VHF radios. Some of the advantages include improved city wide coverage, radio to radio texting, individual talk groups (plow trucks , refuse trucks etc.), radio over IP address and GPS capabilities. If the new system is not purchased in 2016, CEA will need to spend approximately $7,500 each year on labor and equipment to continue outfitting vehicles with the outdated radios.

This project includes the replacement of desktop units (9), portable handheld radios (26) and the upgrades to the base stations and repeaters. All existing vehicle radios will be purchased and replaced through CEA.

Discussion of operating cost impact:

There is no operating cost impact as a result of this project.

DEPARTMENT COST SUMMARY

DEPARTMENT	PHASE	2016	2017	2018	2019	2020	Total
DPW	Digital Radios	79,000	-	-	-	-	$ 79,000
Total - Public Works Capital Projects Fund		$ 79,000	$ -	$ -	$ -	$ -	$ 79,000

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	-	-	-	-	-	$ -
Land Acquisition	-	-	-	-	-	$ -
Construction	-	-	-	-	-	$ -
Other	79,000	-	-		-	$ 79,000
Total	$ 79,000	$ -	$ -	$ -	$ -	$ 79,000
Operating Cost Impact	$ -	$ -	$ -	$ -	$ -	$ -

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Survey Instrument Replacements

PROJECT DESCRIPTION

Justification:

Survey Instrument Replacements - Robotic Total Station or GPS Units

These instruments would be replacements for our oldest robotic units that will be approximately 10 years old at their proposed times of replacement (2016, 2018). Robotic total stations and GPS units both provide improved functionality and efficiency over a standard total station instrument, with an added benefit of single-user operation in those situations where workload or staffing levels dictate. Our current robotic stations have provided numerous opportunities for one-person survey work, which has allowed us to reduce our survey backlog as well as reduce our need for overtime. A GPS Unit would also allow for single user operation and would primarily be used for field data collection. Unlike typical survey instruments, the GPS uses satellite links to provide spatially accurate data collection with high degrees of accuracy. The GPS unit would provide a much more efficient method for collection of widespread infrastructure data, which could be used for verification and updates to City records as well as incorporation into the City's expanding GIS program. We will utilize input from various City staff to evaluate which type of instrument will best meet the needs of the City prior to making any purchases. Included in this survey instrument update is all the necessary software and necessary auxiliary equipment .

Discussion of operating cost impact:

These survey instruments would allow us to more efficiently utilize existing staff to complete a larger volume of work without the need for additional survey staff.

DEPARTMENT COST SUMMARY

DEPARTMENT	PHASE	2016	2017	2018	2019	2020	Total
DPW	Robotic Total Station / GPS	35,000	-	30,000	-	-	$ 65,000
Total - Public Works Capital Projects Fund		$ 35,000	$ -	$ 30,000	$ -	$ -	$ 65,000

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	-	-	-	-	-	$ -
Land Acquisition	-	-	-	-	-	$ -
Construction	-	-	-	-	-	$ -
Other	35,000	-	30,000	-	-	$ 65,000
Total	$ 35,000	$ -	$ 30,000	$ -	$ -	$ 65,000
Operating Cost Impact	$ -	$ -	$ -	$ -	$ -	$ -

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: DPW Equipment - Sweeper Replacement

PROJECT DESCRIPTION

Justification:

High Efficiency Sweeper Upgrade ($70,000) -- Changing part of the fleet over from mechanical sweepers to vacuum sweepers at the time of their scheduled replacement will help the City to continue with proper stormwater management practices and make progress in the reduction of nonpoint source pollution.The Citywide Stormwater Mangagement Plan, updated in 2014, indicates the City will continue to investigate possible upgrades to its Sweeper program for innovations in program practices and technology. A sweeper upgrade from Mechanical to High Efficiency is shown in 2020, per the Citywide SWMP Implementation Plan.

Discussion of operating cost impact:

Since the purchase price of a vacuum sweeper is higher than that of a conventional mechanical sweeper, the annual amortized replacement cost, charged as an operating expense, will also be somewhat higher. Frequency of repair and efficiency of operation are unknown at this time but will be evaluated prior to replacing the next mechanical sweeper.

DEPARTMENT COST SUMMARY

DEPARTMENT	PHASE	2016	2017	2018	2019	2020	Total
Stormwater	Sweeper Upgrades	-	-	-	-	70,000	$ 70,000
Total - Stormwater Capital Projects		$ -	$ -	$ -	$ -	$ 70,000	$ 70,000

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	-	-	-	-	-	$ -
Land Acquisition	-	-	-	-	-	$ -
Construction	-	-	-	-	-	$ -
Other	-	-	-	-	70,000	$ 70,000
Total	$ -	$ -	$ -	$ -	$ 70,000	$ 70,000
Operating Cost Impact	NQ *	NQ *	NQ *	NQ *	NQ *	$ -

* NQ = Not Quantifiable

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Pressure Zone Control Valve Stations

PROJECT DESCRIPTION

Justification:

A Water Distribution Master Planning study was completed in 2007. The study identified a need for installation of four pressure zone control valve (PRV) stations between the three water distribution system pressure zones. These pressure zones serve all elevations of the city service area and are "valved off" from each other, serving as individual tower/pipe networks in isolation from each other. Pressure zone control valves provide connection of the zones for emergency backup, fire flow, and maintenance purposes. Without the installation of control valves, some areas of the city are at increased risk of negative pressure and public notice warnings (e.g. boil water orders) in the event of a tower outage, large water main break, or fire. The three pressure zones include: A) Main Pressure Zone, B) Ridgeway Pressure Zone, and C) North Pressure Zone. The study identified the following pressure zone connections utilizing PRVs:

Two PRVs between the North Zone / Ridgeway Zone
One PRV between Ridgeway Zone / Main Zone
One PRV between North Zone / Main Zone

A PRV between the North Zone / Ridgeway Zone was constructed at Moss Rose Lane and completed in 2010. The PRV between Ridgeway and Main is currently in progress. The second of the two North Zone / Ridgeway Zone connections is planned for 2016. The North / Main PRV is planned for design/construction in 2019 period. This PRV connection has been moved to 2019 based upon an update of the original master plan.

PRV Stations include piping, valves, meters, pumping and Supervisory Control and Data Acquisition (SCADA) controls for remote monitoring and control from the Water Treatment Plant by Plant Operators. Water may be transferred between zones.

Discussion of operating cost impact:

The four pressure zone control valve stations are new facilities that will require upkeep and periodic SCADA system upgrade. The ongoing operating cost is estimated to be $2,500 annually at each station.

DEPARTMENT COST SUMMARY

DEPARTMENT PHASE	2016	2017	2018	2019	2020	Total
Water Utility Station # 3						
Land	-	-	70,000	-	-	$ 70,000
Engineering	-	-	40,000	-	-	$ 40,000
Construction	-	-	240,000	-	-	$ 240,000
Total - Water Treatment Capital Projects	$ -	$ -	$ 350,000	$ -	$ -	$ 350,000

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	-	-	40,000	-	-	$ 40,000
Land Acquisition	-	-	70,000	-	-	$ 70,000
Construction	-	-	240,000	-	-	$ 240,000
Other	-	-	-	-	-	$ -
Total	$ -	$ -	$ 350,000	$ -	$ -	$ 350,000
Operating Cost Impact	$ -	$ -	$ 5,000	$ 5,000	$ 5,000	$ 15,000

CITY OF APPLETON 2015 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION	
Project Title:	Replacement of Radio Read System for Water Meters

PROJECT DESCRIPTION

Justification:

The City of Appleton currently has 27,738 remote read water meters. These meters were first installed beginning in 1999, with installation completed in 2005. Because technology has advanced so far beyond our current system, replacement parts are no longer available from the manufacturers. In the interim, staff has worked innovatively with other communities to acquire their obsolete meter parts. However, we are now at a critical stage to evaluate our options.

Replacement of our current system provides us an opportunity to gain some efficiencies to our meter reading/billing system while improving customer service. Customer service improvements that are now standard to available systems include:

Daily or weekly review of high/low readings by staff and explore options for customers to review as well
Easily accessible on-line, including usage, billing and payment options with historical data
Conversion of cubic feet to gallons
Opportunity to explore costs and options for monthly billing
Hourly consumption data available for use during billing dispute investigations
Improved account information
Reduced costs for reading meters for final billings

Approximately $7.9 million dollars will be spent in years 2013 – 2017 for the new meter system.

Discussion of operating cost impact:

All new meters will be installed with existing DPW employees during the 4 years of installation (2013-2017). There will be a need of an additional 1.5 meter techs ($113,160) along with the 3.5 FTE's of current staff to install all 27,738 meters.

DEPARTMENT COST SUMMARY

DEPARTMENT	PHASE	2016	2017	2018	2019	2020	Total
Public Works	Replacement of Automated Meter Reading system	1,920,059	486,729	-	-	-	$ 2,406,788
Total - Water Distribution Capital Projects		$ 1,920,059	$ 486,729	$ -	$ -	$ -	$ 2,406,788

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	-	-	-	-	-	$ -
Land Acquisition	-	-	-	-	-	$ -
Construction	-	-	-	-	-	$ -
Other	1,920,059	486,729	-	-	-	$ 2,406,788
Total	$ 1,920,059	$ 486,729	$ -	$ -	$ -	$ 2,406,788
Operating Cost Impact	$ 51,100	$ 69,923	$ -	$ -	$ -	$ 121,023

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Tower Mixer Installations

PROJECT DESCRIPTION
Justification:

New regulatory requirements for disinfection by-product were promulgated in 2012. Well-mixed tanks consume fewer disinfectant chemicals and produce fewer disinfection by-products. Effective water turnover and reduced water age are key in maintaining concentrations below regulatory limits. By mixing the stored water in reservoirs, consistent dispersion of disinfectant throughout the tank volume, including constant replacement at the walls, the bottom and tank floor, where bacterial growth would potentially flourish due to lack of disinfectant, is achieved. In the summer season, stratification by temperatures in elevated reservoirs can occur, reducing water turnover. Older water will rise in the tank and eventually the disinfectant will dissipate, as temperatures build throughout the season. Installation of mixers mitigates stratification issues and short-circuiting (a poor hydraulic condition, in which large volumes of water are static and small volumes move through a tank rapidly, that allows for bacterial growth), producing a uniform water temperature while reducing water age.

Discussion of operating cost impact:

The mixers will require annual maintenance to optimize life-cycle terms. Some mixers are powered electrically and the combined O+M and power consumption is estimated at $2500 per tower annually.

DEPARTMENT COST SUMMARY

DEPARTMENT PHASE	2016	2017	2018	2019	2020	Total
Water Utility North Tower	-	60,000	-	-	-	$ 60,000
Total - Water Treatment Capital Projects	$ -	$ 60,000	$ -	$ -	$ -	$ 60,000

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	-	-	-	-	-	$ -
Land Acquisition	-	-	-	-	-	$ -
Construction	-	60,000	-	-	-	$ 60,000
Other	-	-	-	-	-	$ -
Total	$ -	$ 60,000	$ -	$ -	$ -	$ 60,000
Operating Cost Impact	$ 2,500	$ 2,500	$ 5,000	$ 5,000	$ 5,000	$ 20,000

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Aeration Blower #3 Replacement

PROJECT DESCRIPTION

Justification:

The wastewater treatment plant utilizes air blowers to deliver oxygen to the plant mircrolife. The plant has an inventory of 80,000 lbs of microlife that treat wastewater. There are four blowers in the aeration process that can deliver air to the online aeration. Of the blowers, #3 Blower was placed into service in 1992. This 700 horsepower positive displacement blower is currently not operational because it is in need of repair to the electrical variable speed equipment. Due to advances in aeration blower technology, the unit is not efficient enough to consider repairs and replacement is warranted. This was a similar conclusion to the one reached by Focus on Energy for the replacement of the #2 Blower in 2009.

The replacement blower will be capable of introduce enough air into the liquid that it can support microlife in the five million gallon volume aeration tanks. The new blower will be linked to sensors in the tank. Data from the tanks will be read by a programmable logic controller that will drive the process. This control loop would allow motors to run based on biological demand rather than a fixed setting.

The 2017 construction project would involve the decommissioning of the existing blower, engineering services to create bidding documents and construction management. The blower and instruments will also need to be incorporated in the facility's Supervisory Control and Data Acquisition (SCADA) system.

Discussion of operating cost impact:

Electrical costs have a potential for being reduced. The proposed blower also provides sound redundancy for the aging aeration system.

DEPARTMENT COST SUMMARY

DEPARTMENT	PHASE	2016	2017	2018	2019	2020	Total
Wastewater	Consulting	-	145,000	-	-	-	$ 145,000
	Contractor	-	920,000	-	-	-	$ 920,000
Total - Wastewater Capital Projects		$ -	$ 1,065,000	$ -	$ -	$ -	$ 1,065,000

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning		145,000	-	-	-	$ 145,000
Land Acquisition	-	-	-	-	-	$ -
Construction		920,000	-	-	-	$ 920,000
Other	-	-	-	-	-	$ -
Total	$ -	$ 1,065,000	$ -	$ -	$ -	$ 1,065,000
Operating Cost Impact	$ -	$ -	$ -	$ -	$ -	$ -

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Bar Screen #1 Gate Valve Replacement

PROJECT DESCRIPTION

Justification:

Screening equipment is the physical process used to remove large debris and materials from the incoming raw sewage. In 2015, two new bar screens were installed in place of two that had surpassed their useful life, and this replacement also improved the hydraulic capacity and screening capabilities of the AWWTP.

In the process of the bar screen replacement, the gate valves that control flow through the screens were evaluated and deemed to be in good condition for Bar Screen #1. The gates for Bar Screen #2 were replaced with new ones due to the restructuring of the flow pattern through the process. Upon further investigation, it was determined towards the end of the project that the gates for Bar Screen #1 were at the end of their useful life. The bottom seals have deteriorated and the gates allow water to leak into the channel when they are closed.

Since the project had already run beyond the original proposed completion date, the decision was made to replace the gates under a separate contract for the following year instead of creating a change order that would extend the life of the original bar screen project.

This gate valve replacement will be the last phase of the expansion of screening capacity and capabilities.

Discussion of operating cost impact:

There is no anticipated operating cost impact to this project.

DEPARTMENT COST SUMMARY

DEPARTMENT	PHASE	2016	2017	2018	2019	2020	Total
Wastewater	Contractor	125,000	-	-	-	-	$ 125,000
Total - Wastewater Capital Projects		$ 125,000	$ -	$ -	$ -	$ -	$ 125,000

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	-	-	-	-	-	$ -
Land Acquisition	-	-	-	-	-	$ -
Construction	125,000	-	-	-	-	$ 125,000
Other	-	-	-	-	-	$ -
Total	$ 125,000	$ -	$ -	$ -	$ -	$ 125,000
Operating Cost Impact	$ -	$ -	$ -	$ -	$ -	$ -

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Belt Filter Press Electrical Improvements

PROJECT DESCRIPTION

Justification:

The AWWTP utilizes three Ashbrook Simon Hartley Winkle presses (Type 84 Size 3 / 2.0 meter) or belt filter presses (BFPs) to dewater anaerobically digested sludge. Each BFP has run times in excess of 4,000 hours per year. Over the past 25 years these BFPs have provided effective mechanical dewatering with minimal overall maintenance. These units were installed in the 1990's and were reconditioned in the late 2000's. The reconditioning work was completed by original equipment manufacturer (OEM) and focused on mechanical and structural component deficiencies which resulted from accumulated wear after nearly 20 years of continuous operation.

The late 2000's reconditioning work was not intended to go beyond the priority repairs identified at that time. Therefore, the original functioning electrical hard wire relays remained untouched and are still in use today. However, these existing relays do not provide the diverse functional capabilities offered with current technologies. This includes the ability to fully integrate BFP unit processes with the existing supervisory control and data acquisition (SCADA) computer operating system. To accomplish this, the existing hard wire relay system would require replacement by a programmable logic controller (PLC) and new relay modules.

Since the original installation of the BFPs, there have been unit processes that have become obsolete (i.e. lime pasteurization process phased out by anaerobic digestion as part of 1994 plant upgrades), including improvements to the solids dewatering polymer batch system. These former treatment processes and ancillary chemical feed systems formally shared common electrical control panels. An artifact of past improvements and upgrades is remnant electrical wiring which remains within the existing BFP control cabinets. Improperly identified or terminated wires have interfered with electrical troubleshooting and have also been responsible for phantom equipment alarms.

This CIP is designed to simultaneously upgrade the outdated hard wire relays with PLC technology and address the remnant electrical wiring from past upgrade and improvement projects.

Discussion of operating cost impact:

Enhanced and expanded functionality will aid in decreasing associated dewatering operational costs through improvements to reliability, reduced chemical feed use, and reduced equipment maintenance.

DEPARTMENT	PHASE	2016	2017	2018	2019	2020	Total
Wastewater	Design	15,000	-	-	-		$ 15,000
	Equipment	100,000	-	-	-	-	$ 100,000
Total - Wastewater Capital Projects		$ 115,000	$ -	$ -	$ -	$ -	$ 115,000

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	15,000	-	-	-	-	$ 15,000
Land Acquisition	-	-	-	-	-	$ -
Construction	100,000	-	-	-	-	$ 100,000
Other - Equipment	-	-	-	-	-	$ -
Total	$ 115,000	$ -	$ -	$ -	$ -	$ 115,000
Operating Cost Impact	N/Q *	N/Q *	N/Q *	N/Q *	N/Q *	N/Q *

* N/Q = Not Quantifiable

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Effluent Pump Firm Capacity

PROJECT DESCRIPTION

Justification:

The wastewater treatment plant has a 102 Million Gallons per Day (MGD) pump capacity. During wet weather events, infiltration and inflow (I&I) affects the wastewater collection system. As a result, the wastewater treatment plant must treat the combined sewer and I&I flow. There have been multiple wet weather events that have pushed the treatment facility to pump at and above 102 MGD.

To provide firm effluent pumping capabilities of 102 MGD at high flow conditions, it necessary to further improve the effluent pump station #1 pumping capacity. Firm pumping capacity of 102 MGD requires that total pumping capacity be 127 MGD. An additional pump or group of submersible pumps capable of pumping a flow rate of 25 MGD would need to be added.

The Department of Natural Resources requires that pumping capacity be designed to meet expected flow conditions with one unit out of service. By adding the additional pumping capabilities at effluent pumping station #1 this requirement would be met.

Discussion of operating cost impact:

Operating costs will only be realized when the constructed pump runs. This pump use will only occur during rain and/ or maintenance events.

DEPARTMENT COST SUMMARY

DEPARTMENT PHASE		2016	2017	2018	2019	2020	Total
Wastewater	Consulting	-	125,000	-	-	-	$ 125,000
	Contractor	-	750,000	-	-	-	$ 750,000
WW Utility Capital Projects		-	875,000	-	-	-	875,000
Wastewater	Contractor	-	1,000,000	-	-	-	$ 1,000,000
DNR Replacement Fund		-	1,000,000	-	-	-	1,000,000
Total - Wastewater Capital Projects		$ -	$ 1,875,000	$ -	$ -	$ -	$ 1,875,000

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	-	125,000	-	-	-	$ 125,000
Land Acquisition	-	-	-	-	-	$ -
Construction	-	1,750,000	-	-	-	$ 1,750,000
Other	-	-	-	-	-	$ -
Total	$ -	$ 1,875,000	$ -	$ -	$ -	$ 1,875,000
Operating Cost Impact		$ 5,000	$ 5,000	$ 5,000	$ 5,000	$ 20,000

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Receiving Station Improvements

PROJECT DESCRIPTION

Justification:

The AWWTP began accepting hauled wastes from out of the Appleton sewer service area in 1999. The program intent is to use available treatment capacity to offset community treatment expenses with the acceptance of wastes. The current four year average annual revenue generated from this program exceeds $700,000. Since January 1, 2010 authorized haulers are billed by the Utilities based on a tier rate system determined by each waste's strength and volumes discharged. Wastes were formerly charged a flat rate based on volume only. The tier rate structure is designed to more effectively cover the costs of treatment, overhead, repair, and future improvements.

Authorized haulers deliver waste to the AWWTP receiving station via tanker truck, then discharge to one (1) of two (2) locations depending upon the waste characteristics or strength. Wastes defined as "low strength" are discharged to the treatment headworks. Wastes characterized as "high strength" are required to discharge to receiving station tanks located inside of L-Building. Wastes from the receiving station tanks are fed directly to the anaerobic digesters where they are more cost effectively treated and provide the opportunity for methane gas production and biogas utilization. Nearly all are high strength wastes from food based industries located outside the Appleton sewer service area.

The current receiving station program is limited in waste capacity, surveillance, sampling, and provides few options to fully optimize digester gas production from various waste substrates. An engineering study performed in early 2012 developed a preliminary plan that addressed deficiencies and designed a station upgrade that would re-purpose an abandoned 185,000 gallon tank to increase capacity. Upgrading the facility will allow for extended hours of operation and the ability to increase revenues through tipping fees and enhanced biogas utilization. As AWWTP proves out gas utilization, there will be a desire to increase biogas generation to reduce energy expenditures in addition to increasing associated revenues from tipping fees.

Discussion of operating cost impact:

Project will increase capacity and revenues through tipping fees and expanded biogas utilization.

DEPARTMENT COST SUMMARY

DEPARTMENT	PHASE	2016	2017	2018	2019	2020	Total
Wastewater	Engineering	-	-	200,000	-	-	$ 200,000
	Construction	-	-	-	2,000,000	-	$ 2,000,000
Total - Wastewater Capital Projects		$ -	$ -	$ 200,000	$ 2,000,000	$ -	$ 2,200,000

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	-	-	200,000	-	-	$ 200,000
Land Acquisition	-	-	-	-	-	$ -
Construction	-	-	-	2,000,000	-	$ 2,000,000
Other	-	-	-	-	-	$ -
Total	$ -	$ -	$ 200,000	$ 2,000,000	$ -	$ 2,200,000
Operating Cost Impact	$ -	$ -	$ -	$ -	$ -	$ -

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Appleton Memorial Park - Master Plan

PROJECT DESCRIPTION

Justification:

The last master plan for Appleton Memorial Park was developed in 2015. Significant changes have been made to the park since the last master planning efforts were completed in 2005. Changes include two stormwater ponds, naturalization of the stormwater channel through the park, construction of the Miracle League Field, new restroom facility to service the west end of the ball diamond complex, and additional playground equipment near the Miracle League Field. Another major change in the park was the termination of the agreement between the City of Appleton and the Gardens of the Fox Cities. With the termination of this agreement, the 35 acres on the west end of the park, the Scheig Center and surrounding gardens became the sole responsibility of the Parks, Recreation and Facilities Management Department.

The 2015 master plan included the following recommendations. (Please also refer to the Appleton Memorial Park - Ball Diamonds) CIP request for recommendations to the ball diamond facilities and amenities).

2016 - Entry signage
2017 - Design for parking lot and pavilion on southside of Witzke Boulevard
2018 - Replacement of parking lot (west end near Scheig Center). Parking lot has reached its expected life
New lot will reconfigured to improve functionality and service to park visitors
2018 - Construction of a new pavilion/restroom/amphitheater facility to replace existing facilities
2020 - Trail construction throughout park. Includes trail fitness equipment
2020 - Construction of parking area on southside of park to be accessed from Northland Avenue

Discussion of operating cost impact:

Any impacts to the operating costs of the park will be addressed when the specific projects identified in the master plan are included in the Department's 5-Year Capital Improvement Program.

DEPARTMENT COST SUMMARY

DEPARTMENT	PHASE	2016	2017	2018	2019	2020	Total
PRFMD	Parking Lot	-	35,000	425,000	-	-	$ 460,000
	Signage	40,000	-	-	-	-	$ 40,000
	Pavillion	-	40,000	425,000	-	-	$ 465,000
	Southside Parking	-	-	-	15,000	100,000	$ 115,000
	Trail	-	-	-	15,000	150,000	$ 165,000
Total - Capital Projects Fund		$ 40,000	$ 75,000	$ 850,000	$ 30,000	$ 250,000	$ 1,245,000

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	-	75,000	-	30,000	-	$ 105,000
Land Acquisition	-	-	-	-	-	$ -
Construction	40,000	-	850,000	-	250,000	$ 1,140,000
Other	-	-	-	-	-	$ -
Total	$ 40,000	$ 75,000	$ 850,000	$ 30,000	$ 250,000	$ 1,245,000
Operating Cost Impact	$ -	$ -	$ -	$ -	$ -	$ -

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Appleton Memorial Park/Athletic Fields

PROJECT DESCRIPTION

Justification:

The Parks and Recreation Department commissioned a study of the athletic facilities at Appleton Memorial Park in 2001. The study became necessary because of the aging condition of the softball complex and baseball diamond, the development of diamonds #4 - #6, increased demand for concession opportunities, utility areas and irrigation to maintain turf standards. The study was also commissioned to review the need for athletic facilities at Appleton Memorial Park relative to the development of USA Youth Sports Complex and other athletic facilities in the community. The study involved soliciting feedback from the various user groups. The improvements suggested by the user groups were noted in the study and the Department developed a program to address those improvements. A concept plan for future improvements to the athletic complex was approved by the Council in 2004. Improvements totaling $500,000 were completed in 2007 -2008 and included new field lighting, irrigation, and improved bleacher seating. A $85,000 grant was secured from the Fox Cities Convention and Visitors Bureau Capital Development Program for the improvements. The Miracle League Field was added in 2009 to provide a fully accessible ball diamond for children with special needs. In 2012, plans were updated to address the current stormwater issues, facility functionality, additional facilities, aging building and building systems and future needs. Funding was included in the 2013 Parks, Recreation and Facilities Management Department Capital Projects Fund to construct a new restroom building on the west end of the ball diamond complex as identified in early plans and also evaluate the Jones Building to determine options for improved functionality. The new restroom building was completed in June 2014 and the evaluation of the Jones Building recommended demolition and construction of a new facility that better meets the current and future needs of the facility and address the building system concerns. The ball diamond complex is a popular location for youth and adult baseball/softball tournaments and the Department will be submitting a grant application to the Fox Cities Convention and Visitors Bureau to assist with the replacement of the Jones Building. Other improvements to the ball diamond complex are also included based on previous plans, studies and user needs.

This project funding request includes:
2017 - Design of Jones Building and hardscape areas including walkways
2018 - Demolition and replacement of the Jones Building including walkways/Irrigation to diamonds #1 & #3
2018 - Install scoreboards
2019 - Upgrade ball diamond backstop, line fences and outfield fences for Diamond 4/Upgrade field lights #7
2019 - Add irrigation of #5, #6 and #7

Discussion of operating cost impact:

The demolition and replacement of the Jones Building is not anticipated to increase operational costs since the building will be new with updated components. Some of the operational costs may be recovered from increased revenues from concession sales and facility rental because of its improved functionality.

DEPARTMENT COST SUMMARY

DEPARTMENT	PHASE	2016	2017	2018	2019	2020	Total
PRFMD	Design	-	75,000		-	-	$ 75,000
	Construction	-	-	700,000	-	-	$ 700,000
	Irrigation	-	-	-	80,000	-	$ 80,000
	Diamond #7 Lights	-	-	-	120,000	-	$ 120,000
	Fence upgrades	-	-	-	25,000	-	$ 25,000
	Scoreboards	$ -	$ -	$ 65,000	$ -	$ 100,000	$ 165,000
Total - PRFMD Capital Projects Fund		$ -	$ 75,000	$ 765,000	$ 225,000	$ 100,000	$ 1,165,000

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	-	-	-	-	-	$ -
Land Acquisition	-	-	-	-	-	$ -
Construction	-	75,000	765,000	225,000	100,000	$ 1,165,000
Other	-	-	-	-	-	$ -
Total	$ -	$ 75,000	$ 765,000	$ 225,000	$ 100,000	$ 1,165,000
Operating Cost Impact	$ -	$ -	$ -	$ -	$ -	$ -

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Erb Park/Pool Renovation

PROJECT DESCRIPTION

Justification:

Erb Pool was constructed in 1979 and the structures and mechanical components of the pools are now 37 years old and have reached the end of their useful life expectancy. Major water loss was experienced in 2015 prompted more analysis. Assessments have concluded that the main pool basin and gutters are failing in numerous areas of the pool. In addition, the mechanical equipment and piping is in poor condition and in need of replacement. In addition to the poor condition of the aquatic facilities, the pavilion and parking lots are also in need of replacement. The general pavilion structure is old with an aging electrical system and failing building components. The restrooms in the pavilion are small and do not meet accessibility requirements under the Americans with Disabilities Act (ADA).

In 2014 and 2015 a significant amount of public input was gathered. The open house, surveys and trends for aquatics have identified a shift towards splash pads and pools with more play value. The public overwhelmingly seeks play value and safety for children. Overall 64.21% of the responses indicated that a splash pad was a desired amenity in Appleton. During our analysis we also recognized there are six pools and two lakes provided by surrounding communities within about a 10 mile radius. At the time Erb and Mead pools were constructed these other options were not available.

This CIP requests monies to keep Erb Pool operational in 2016 while simultaneously developing plans for a new splash pad, parking lot replacement and pavilion upgrade. Upon closing at the end of summer in 2016, demolition would be conducted and the new structure and features would be constructed in anticipation of a 2017 opening, thus not having any downtime at this location for aquatics usage.

Overall, trends indicate Cities installing splash pads in various locations improve quality of life and community enrichment. This plan also seeks to install splash pads at Memorial Park, Telulah Park and Pierce Park in future years while continuing to operate and invest in Mead Pool. Within five years Mead Pool will require upgrades as the facilities and equipment age. An assessment will be done in future years to replace any failing systems to maintain and enhance the features at Mead Pool.

Discussion of operating cost impact:

The changes proposed would decrease operational costs. During design we will be able to calculate the savings based on final design, but initially monies will be realized from operational, maintenance and utilities expenses. Splash pads have lower operational costs including staffing, maintenance and utilities.

DEPARTMENT COST SUMMARY

DEPARTMENT	PHASE	2016	2017	2018	2019	2020	Total
PRFMD	Erb Pool						
	Site Development	1,088,563	-	-	-	-	$ 1,088,563
	Architecture	406,250	-	-	-	-	$ 406,250
	Aquatics	1,137,500	-	650,000	-	650,000	$ 2,437,500
	Design	289,655	-	75,000	-	75,000	$ 439,655
	Mead Pool						
	Improvements	-	-	-	-	500,000	$ 500,000
Total - PRFMD Capital Projects Fund		$ 2,921,968	$ -	$ 725,000	$ -	$ 1,225,000	$ 4,871,968

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	289,655	-	75,000	-	75,000	$ 439,655
Land Acquisition	-	-	-	-	-	$ -
Construction	2,632,313	-	650,000	-	1,150,000	$ 4,432,313
Other	-	-	-	-	-	$ -
Total	$ 2,921,968	$ -	$ 725,000	$ -	$ 1,225,000	$ 4,871,968
Operating Cost Impact	N/Q	N/Q	N/Q	N/Q	N/Q	$ -

N / Q = "Not Quantifiable"

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Park ADA Improvements

PROJECT DESCRIPTION

Justification:

In 2014 and assessment was completed in adherence to the Americans with Disabilities Act Access Guidelines originally passed on July 26, 1990 as Public Law and became effective January 26, 1992. The fundamental goal of the ADA is to ensure equal access to civic life by people with disabilities. The Act comprises five titles prohibiting discrimination against disabled persons within the United States. Title II of the ADA requires state and local governments to make their programs, services and activities accessible to persons with disabilities. It also established physical access requirements for public facilities.

The objectives of the audit was to assess present degrees of adequacy and future accessibility needs for persons with disabilities who may use our public facilities and public recreation facilities and to develop a transition plan to remedy any non-compliance areas. Recreation facilities in the audit area support activities such as pavilions, trails, playgrounds, aquatics, ballfields, golf courses and shoreline access.

This CIP requests funding to address any deficiencies found in the ADA assessment. The improvements to correct any deficiencies are planned over a five year period 2016-2020.

Discussion of operating cost impact:

Since these improvements are changes to existing facilities, there are not operating cost impacts.

DEPARTMENT COST SUMMARY

DEPARTMENT	PHASE	2016	2017	2018	2019	2020	Total
PRFM	ADA Improvements	50,000	50,000	50,000	50,000	50,000	$ 250,000
Total - Facilities Capital Projects Fund		$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 250,000

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning						
Land Acquisition	-	-	-	-	-	$ -
Construction	50,000	50,000	50,000	50,000	50,000	$ 250,000
Other	-	-	-	-	-	$ -
Total	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 250,000
Operating Cost Impact	$ -					$ -

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Park Development

PROJECT DESCRIPTION

Justification:

This funding request includes the development of several park properties that were acquired in previous years but have not been completed because funding was not available, or the Parks, Recreation and Facilities Management Department was coordinating the park development with adjacent property development, other department/City projects, etc. Some of the park development projects listed below may change if coordinating projects/developments are re-aligned.

2018 - Design services for the development of the former water treatment plant (FWTP) - $100,000
2019 - The demolition of the FWTP was completed in 2011. A master plan was developed for this property in 2005 and will be updated with construction occurring in 2019. - $1,500,000
2018 - Design services for the development of the west end of Vulcan Heritage Park that will be coordinated with the Lutz Park to Vulcan Heritage Park riverfront trail - $25,000
2019 - The majority of Vulcan Heritage Park was developed in the early 2000's, but the west end of the park was not developed pending the development of the trail between Lutz Park and Vulcan Heritage Park. This project is scheduled to be coordinated with the construction of the Lutz to Vulcan Trail - $200,000
2019 - Design services for the development of the park property near Fire Station #6. - $25,000
2020 - Development of Park Property near Fire Station #6. - $400,000

Discussion of operating cost impact:

The Department will incur additional operational costs when these parks are developed due to increased turf, playground equipment, walkways, lighting, landscaping, picnic areas and general park property.

DEPARTMENT COST SUMMARY

DEPARTMENT	PHASE	2016	2017	2018	2019	2020	Total
PRFM	FWTP Site	-	-	100,000	1,500,000	-	$ 1,600,000
	Vulcan Heritage	-	-	25,000	200,000	-	$ 225,000
	Fire Station #6	-	-	-	25,000	400,000	$ 425,000
Total - Facilities Capital Projects Fund		$ -	$ -	$ 125,000	$ 1,725,000	$ 400,000	$ 2,250,000

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	-	-	25,000	25,000	-	$ 50,000
Land Acquisition	-	-	-	-	-	$ -
Construction	-	-	100,000	1,700,000	400,000	$ 2,200,000
Other	-	-	-	-	-	$ -
Total	$ -	$ -	$ 125,000	$ 1,725,000	$ 400,000	$ 2,250,000
Operating Cost Impact	$ -	$ -	$ 2,000	$ 12,000	$ 14,500	$ 28,500

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Pavilion/Restroom Improvements

PROJECT DESCRIPTION

Justification:

The Parks, Recreation and Facilities Management Department currently maintains 21 restroom buildings or restroom/pavilion buildings. The restrooms and restroom/pavilion buildings are located in all the community parks and most of the neighborhood parks. Many of the restrooms or restroom/pavilion buildings do not meet current accessibility requirements of the Americans with Disabilities Act (ADA) and some have reached the end of their useful life expectancies. There are also two neighborhood parks without restrooms or restroom/pavilions that have tentatively been identified to receive a restroom or restroom/pavilion in the future.

A comprehensive audit of parks pavilions and restrooms will be completed in 2015. At this time, placeholders have been utilized in this request until the results of the study can be utilized to fully develop this request.

2017 - Design services for pavilion renovations at Schaefer and Peabody Parks - $25,000
2018 - Pavilion renovations at Schaefer and Peabody Parks - $380,000
2018 - Design services for pavilion/restrooms at Summit and Telulah Parks - $25,000
2019 - Pavilion/restroom construction at Summit and Telulah Parks - $380,000
2019 - Design services for pavilion renovations at Jones Park - $35,000
2020 - Pavilion/restroom construction at Jones Parks - $475,000
2020 - Gazebo construction at City Park - $75,000

Discussion of operating cost impact:

These projects would have annual maintenance and upkeep expenses.

DEPARTMENT COST SUMMARY

DEPARTMENT	PHASE	2016	2017	2018	2019	2020	Total
PRFM	Pavilions Renovations/Upgrades Construction	-	25,000	405,000	415,000	550,000	$ 1,395,000
Total - Facilities Capital Projects Fund		$ -	$ 25,000	$ 405,000	$ 415,000	$ 550,000	$ 1,395,000

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	-	25,000	25,000	35,000	-	$ 85,000
Land Acquisition	-	-	-	-	-	$ -
Construction	-	-	380,000	380,000	550,000	$ 1,310,000
Other	-	-	-	-	-	$ -
Total	$ -	$ 25,000	$ 405,000	$ 415,000	$ 550,000	$ 1,395,000
Operating Cost Impact	$ -	$ -	$ 2,000	$ 2,000	$ 4,000	$ 8,000

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Playground Areas

PROJECT DESCRIPTION

Justification:

The Parks, Recreation and Facilities Management Department currently maintains 29 playground areas throughout the City's park system. The playground areas in each park generally include a modular play structure, independent play apparatus such as swing sets, climbers, etc., benches, safety surfacing and access. Several playground areas include multiple modular play structures to address different age groups. The current value of the playground areas is estimated at $1.8 million. Regular upgrades to the playgrounds over the past 15 years have included replacement of outdated and/or unsafe playground equipment, the addition of age appropriate playground equipment, improved safety surfacing and accessibility.

This funding request would continue to replace outdated or unsafe playground equipment as needed and improve accessibility to playgrounds through the addition of walkways and upgrades to equipment to meet Consumer Product Safety Commission guidelines and the Americans with Disabilities Act (ADA) requirements. The request also includes the addition of resilient rubberized/synthetic turf playground surfacing to address a growing need to provide a fully accessible playground in multiply locations throughout the City. The current fully-accessible playgrounds at Appleton Memorial Park, City Park and Derks Parks are extremely popular and requests are regularly received for additional playgrounds with poured-in resilient rubberized surfacing.

2016 - Playground upgrades and rubberized/sythetic turf surfacing at Erb Park - $240,000
2018 - Playground upgrades and rubberized/synthetic surfacing at Appleton Memorial Park Universal Playground- $275,000
2020 - Playground upgrades and rubberized/synthetic surfacing at Pirerce Park - $250,000

Discussion of operating cost impact:

The replacement and/or upgrade of playground equipment is not expected to have any measurable impact on operating costs. Additional pour-in place resilient rubberized safety surfacing will require additional supplies/services funding, but will decrease staff maintenance requirements to maintain the current wood mulch surfacing.

DEPARTMENT COST SUMMARY

DEPARTMENT	PHASE	2016	2017	2018	2019	2020	Total
PRFM	Playground Equipment Upgrades	90,000	-	100,000	-	90,000	$ 280,000
	Rubberized Surfacing	150,000	-	175,000	-	160,000	$ 485,000
Total - Facilities Capital Projects Fund		$ 240,000	$ -	$ 275,000	$ -	$ 250,000	$ 765,000

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	-	-	-	-	-	$ -
Land Acquisition	-	-	-	-	-	$ -
Construction	240,000	-	275,000	-	250,000	$ 765,000
Other	-	-	-	-	-	$ -
Total	$ 240,000	$ -	$ 275,000	$ -	$ 250,000	$ 765,000
Operating Cost Impact	$ -	$ -	$ -	$ -	$ -	$ -

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Reid Golf Course

PROJECT DESCRIPTION

Justification:

A master plan was developed for Reid Golf Course in 1988. The master plan was initiated to address the following concerns: maintenance facilities, clubhouse facilities, parking, safety issues on course (driving range), and course improvements. A new maintenance facility was completed in the early 1990's, the clubhouse was remodeled in the mid-1990's. The master plan was updated in 1995 to address continued parking issues, safety issues on the course and general improvements to the course. The longevity of the irrigation system was noted in the 1995 master planning process and a new irrigation system was installed in 2005. Upgrades to the clubhouse flooring, furniture, pro shop and snack bar were completed in 2012 and 2013. Major course renovations were completed in 2013 in coordination with the construction of two stormwater ponds funded by the Stormwater Utility. This budget includes funding requests to address the following course improvements: to update the master plan to address current and future course needs and requirements. Depending on the outcome of this planning effort, requests for future years may change.

2017 - Parking lot reconstruction - design $20,000, construction $155,000
2018 - Course master planning - $15,000
2018 - Restroom upgrades - $20,000
2018 - Sand storage for maintenance shop - $20,000
2018 - Card access system for maintenance shop - $10,000
2019 - Paved cart paths - $25,000
2019 - Concession equipment upgrades - $12,500
2019 - Exterior signage - $10,000
2020 - Paved cart paths - $35,000
2020 - Course updates (bunker repairs, drainage, etc.) - $12,500
2020 - Concession equipment upgrades - $10,000

** Note: Some of these items do not meet the capital asset threshold but are included in order to plan for these larger one time costs for the golf course.

Discussion of operating cost impact:

The improvements would not have a significant impact on operational costs.

DEPARTMENT COST SUMMARY

DEPARTMENT	PHASE	2016	2017	2018	2019	2020	Total
PRFM	Paved Paths	-	-	-	25,000	35,000	$ 60,000
	Parking Lot	-	175,000	-	-	-	$ 175,000
	Master Planning**	-	-	15,000	-	-	$ 15,000
	Bathroom Upgrades**	-	-	20,000	-	-	$ 20,000
	Course Renovations**	-	-	-	-	12,500	$ 12,500
	Sand Storage	-	-	20,000	-	-	$ 20,000
	Card Access System	-	-	10,000	-	-	$ 10,000
	Concession Equip. Repl.	-	-	-	12,500	10,000	$ 22,500
	Exterior Sign**	-	-	-	10,000	-	$ 10,000
Total - Reid Municipal Golf Course Capital Projects		$ -	$ 175,000	$ 65,000	$ 47,500	$ 57,500	$ 345,000

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	-	20,000	15,000	-	-	$ 35,000
Land Acquisition	-	-	-	-	-	$ -
Construction	-	155,000	50,000	47,500	57,500	$ 310,000
Other	-	-	-	-	-	$ -
Total	$ -	$ 175,000	$ 65,000	$ 47,500	$ 57,500	$ 345,000
Operating Cost Impact	$ -	$ 250	$ 250	$ 250	$ 250	$ 1,000

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Riverfront Initiatives

PROJECT DESCRIPTION

Justification:

The "Focus Fox River - A Master Plan" identified access to the Fox River as a major need and desire of the community. The plan also addressed the need to provide access from the College Avenue corridor to the riverfront. The Parks, Recreation and Facilities Management Department completed a study of the Fox River and completed the Riverfront Trail Connection Study in 2004 that provided a master plan for trail development along the Fox River. The plan and study identify opportunities for trail development along the entire river corridor, including: redevelopment of the former water treatment plant site and the adjacent WE Energies property; connectivity to the downtown and surrounding neighborhoods through Jones Park; development of Trolley Square Trestle; development of Lawe Street R/R trestle to former Foremost site; and development of trestle near RiverHeath. Significant momentum has developed along the Fox River with the development of Vulcan Heritage Park, Fratellos Restaurant, Paper Discovery Center, Eagle Flats, RiverHeath, Trolley Square and the renovations to the four (4) navigational locks in Appleton. In addition, the Exhibition Center and Library will benefit significantly by improving access and parking to both these facilities for all modes of transportation of the Fox River corridor.

This funding request includes the development of four trail segments along the Fox River as identified in the Riverfront Trail Connection Study. The projects include:
2016 - Design services for the Lutz to Vulcan Heritage Parks Trail (Phase I) - $50,000
2017 - Design services, Trolley Square Trestle - $50,000
2017 - Final design of the Lutz Park to Vulcan Heritage Park Trail (Phase 2) - $100,000
2017 - Construction of trail connection Lutz to Vulcan Heritage Parks Trail (Phase I) - $300,000
2018 - Construction of trail connection between the former water treatment plant and Trolley Square on the abandoned Canadian National R/R trestle - $1,100,000
2019 - Design services, Foremost Trestle Trail - $50,000
2019 - Construction of trail connection between Lutz and Vulcan Heritage Parks - $2,300,000
2020 - Design services for trail connection/access to Jones Park - $50,000
2020 - Construction of Foremost Trestle Trail - $750,000
The development of the individual trail segments may need to be re-prioritized depending on other riverfront

Discussion of operating cost impact:

Additional operating costs will be incurred as additional bicycle/pedestrian trail segments are added and additional parkland is developed.

DEPARTMENT COST SUMMARY

DEPARTMENT	PHASE	2016	2017	2018	2019	2020	Total
							-
PRFM	Trolley Sq. Trestle	-	50,000	1,100,000	-	-	$ 1,150,000
	Lutz to Vulcan Tr. - I	50,000	300,000	-	-	-	$ 350,000
	Lutz to Vulcan Tr. - II	-	100,000	-	2,300,000	-	$ 2,400,000
	Foremost Trestle	-	-	-	50,000	750,000	$ 800,000
	Jones Park Access	-	-	-	-	50,000	$ 50,000
Total - Facilites Capital Projects Fund		$ 50,000	$ 450,000	$ 1,100,000	$ 2,350,000	$ 800,000	$ 4,750,000

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	50,000	150,000	-	50,000	30,000	$ 280,000
Land Acquisition	-	-	-	-	-	$ -
Construction/Demolition	-	300,000	1,100,000	2,300,000	770,000	$ 4,470,000
Other	-	-	-	-	-	$ -
Total	$ 50,000	$ 450,000	$ 1,100,000	$ 2,350,000	$ 800,000	$ 4,750,000
Operating Cost Impact	$ -	$ -	$ 2,500	$ 5,000	$ 7,500	$ 15,000

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Scheig Center

PROJECT DESCRIPTION

Justification:

This funding request includes repairs and or improvements to areas of th existing grounds at the Scheig Center and Memorial Park Gardens. In 2014, the Gardens of the Fox Cities ceased operations and the responsibilities for the operational and capital upkeep of the propery was transferred to the City of Appleton.

There are several areas in need of improvement that are currently in poor condition. These areas include the wood boardwalk, water feature and ponds, outdoor lighting and the memorial. These features are failing and in need of removal, repair or replacement to ensure safety and meet ADA accessability requirements.

This plan recommends removing the wood boardwalk and reconstructing the water feature and ponds. The cost to repair/replace would be significant and the long-term operational costs are significant. Second, this plan recommends removal of the unutilized areas around the perimeter and return those areas back to grass. Much of the outdoor lighting is not operational and in need of selective replacement. Last, the memorial is constructed of a stone base which has developed into an ongoing safety hazard. A long-term solution needs to be developed.

2016 - Remove boardwalk and reconstruct the water feature. - $65,000
2017 - Replace outdoor lighting as required. - $15,000.
2018 - Repair of safety hazards related to stone base of memorial. - $40,000

Discussion of operating cost impact:

Since these projects are renovations or replacements of existing features, there is no operating cost impact to them.

DEPARTMENT COST SUMMARY

DEPARTMENT	PHASE	2016	2017	2018	2019	2020	Total
PRFM	Scheig Center	65,000	15,000	40,000	-	-	$ 120,000
Total - Facilities Capital Projects Fund		$ 65,000	$ 15,000	$ 40,000	$ -	$ -	$ 120,000

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	-	-	-	-	-	$ -
Land Acquisition	-	-	-	-	-	$ -
Construction	65,000	15,000	40,000	-	-	$ 120,000
Other	-	-	-	-	-	$ -
Total	$ 65,000	$ 15,000	$ 40,000	$ -	$ -	$ 120,000
Operating Cost Impact	$ -	$ -	$ -	$ -	$ -	$ -

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Southeast Community Park

PROJECT DESCRIPTION
Justification:

The City of Appleton, City of Menasha and Town of Harrison began discussions in the late 2000's on the joint purchase of a regional community park in the southeast area of Appleton. Since those initial meetings, both entities have decided to move in another direction. A funding request of $100,000 from the Park and Open Space Fund was approved in previous budgets for land acquisition when a 20-25 acre park was being considered. Since those early discussions, the size of the regional park has grown to address a broader community need and inclusion of facilities being affected by other park projects. Preliminary concept plans for the regional park include: a ball diamond complex to address the re-location of the ball diamond at Lions Park if the park would ever be required to be re-purposed for a flood control facility and the re-location of the youth baseball diamond at Telulah Park based on master planning activities. The plans also include: multi-purpose fields to address the increasing demands for lacrosse, rugby, ultimate frisbee, and general open play; disc golf course to address changing facilities in Telulah Park; large event space for community events on the southeast side of Appleton; and recreation facilities (playgrounds, tennis courts, etc.) to address the growing residential communities in the southeast area of Appleton.

2019 - Acquisition of Land for Southeast Community Park. - $1,800,000.
2019 - Design services for Initial site development that would include grading, utilities, road access, parking, pond, sledding hill, etc. - $100,000.
2020 - Initial site development as designed in 2015 - $750,000
2020 - Development of sports complex, including ball diamonds, fences, restrooms, etc.- $750,000
2020 - Development of multi-purpose fields - $750,000

Note that if the Stormwater Utility re-purposes Lions Park to a flood control facility they will provide $500,000 for land acquisition and $500,000 for park improvements towards the acquisition and development of the new southeast community park.

Discussion of operating cost impact:

Additional operational costs would be incurred to address maintenance and operation costs for a large community park.

DEPARTMENT COST SUMMARY

DEPARTMENT	PHASE	2016	2017	2018	2019	2020	Total
PRFM	Community Park:						
	Acquisition	-	-	-	1,800,000	-	$ 1,800,000
	Site Development	-	-	-	100,000	750,000	$ 850,000
	Ball Diamonds	-	-	-	-	750,000	$ 750,000
	Multi-purpose fields	-	-	-	-	750,000	$ 750,000
Facilities Capital Projects		-	-	-	1,900,000	2,250,000	$ 4,150,000
PRFM	Acquisition	-	-	-	300,000	-	$ 300,000
Park Open Space Fund							
Total - Park Development		$ -	$ -	$ -	$ 2,200,000	$ 2,250,000	$ 4,450,000

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	-	-	-	100,000	-	$ 100,000
Land Acquisition	-	-	-	-	-	$ -
Construction	-	-	-	2,100,000	2,250,000	$ 4,350,000
Other	-	-	-	-	-	$ -
Total	$ -	$ -	$ -	$ 2,200,000	$ 2,250,000	$ 4,450,000
Operating Cost Impact				$ 30,000	$ 30,000	$ 60,000

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Statue and Monument Restoration

PROJECT DESCRIPTION

Justification:

The City of Appleton owns several statues and monuments throughout the City. Because of their various locations no one department has been responsible for their upkeep. In 2014, the Parks, Recreation and Facilities Management department collaborated with Sculpture Valley, a non-profit group interested in preserving and enhancing public art. Since 2014, Sculpture Valley has provided an inventory and general condition assessment of the various statues and monuments. These assets are in need of various levels of restoration. This Capital Improvement Plan seeks to preserve and extend the life of the statues and monuments. The monuments and estimated cost of repairs include, but are not limited to the following:

Civil War Memorial (Soldier Square) - $40,000
Spirit of the American Doughboy and Cannon Memorial (South Memorial Drive) - $7,000
Spanish American War Memorial (Pierce Park) - $20,000
Gettysburg Address Monument (Pierce Park) - $2,400
Native American Commemoration Memorial (Pierce Park) - $2,000
Fox River Oracle - Hadzi (Oneida Street) - $9,000
River War Memorial (Scheig Center and Memorial Park Gardens) - $2,500
Metamorphosis (Storage) - $10,000
Houdini Walking Tour Plaques (Throughout City) - $1,000

Estimates provided by Sculpture Valley. Sculpture Valley seeks private donations to assist with restoration costs. Requested funding is based on the probable amount required to preserve and extend the useful life of the statues and monuments and assumes some private funds will be available.

Discussion of operating cost impact:

No operating cost impact is expected from these renovations.

DEPARTMENT COST SUMMARY

DEPARTMENT	PHASE	2016	2017	2018	2019	2020	Total
PRFM	Various	10,000	10,000	30,000	10,000	10,000	$ 70,000
Total - Facilities Capital Projects Fund		$ 10,000	$ 10,000	$ 30,000	$ 10,000	$ 10,000	$ 70,000

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	-	-	-	-	-	$ -
Land Acquisition	-	-	-	-	-	$ -
Construction	10,000	10,000	30,000	10,000	10,000	$ 70,000
Other	-	-	-	-	-	$ -
Total	$ 10,000	$ 10,000	$ 30,000	$ 10,000	$ 10,000	$ 70,000
Operating Cost Impact	$ -	$ -	$ -	$ -	$ -	$ -

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Telulah Park Improvements

PROJECT DESCRIPTION

Justification:

A master plan for Telulah Park was adopted by the City Council in 2004. The master plan presents a long-range approach to address the many activities currently located in Telulah Park. The plan addresses parking and vehicular access, trails and walkways, the number and location of athletic facilities, the skate park and disc golf course, and development of land at river level that was acquired in 1991.

The pavilion was renovated in 2004. The parking lot was reconstructed in 2006 and the extension of Newberry Trail through Telulah Park was completed in 2007. The extension of Newberry Street through Telulah Park to serve the RiverHeath development will be completed in late 2015/2016 to coincide with the continued development of RiverHeath.

The master plan was re-visited in 2011 as the Parks, Recreation and Facilities Management Department worked with the Friends of Appleton Skate Park to identify a location for a skate park facility, address the re-purposing of the park with the addition of a skate park facility and potential impacts of a SE Appleton community park on the ball diamond, soccer fields and disc golf course and confirm the development of the river level of the park and the connection to RiverHeath based on the most current development and mitigation plans.

In 2014/2015 a new parking lot and skateboard park were constructed in the central area of the park.

2016 - Repaint locomotive (Note that $11,560 to be funded by Balliet Locomotive Special Revenue Fund)
2016 - Construction of trail connection from Riverheath Development to lower Tellulah Park.
2017 - River level development, including parking lot, river access, picnic areas, walkways, lighting, etc.

Discussion of operating cost impact:

Additional operational costs will be incurred with additional park development.

DEPARTMENT COST SUMMARY

DEPARTMENT	PHASE	2016	2017	2018	2019	2020	Total
PRFM	River level development	30,000	300,000	-	-	-	$ 330,000
	Locomotive	2,267	-	-	-	-	$ 2,267
Facilities Capital Projects		32,267	300,000	-	-	-	$ 332,267
PRFM	Locomotive	11,560	-	-	-	-	$ 11,560
Balliet Locomotive		11,560	-	-	-	-	$ 11,560
Total - Facilities Capital Projects Fund		$ 43,827	$ 300,000	$ -	$ -	$ -	$ 343,827

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	20,000	25,000	-	-	-	$ 45,000
Land Acquisition	-	-	-	-	-	$ -
Construction	23,827	275,000	-	-	-	$ 298,827
Other	-	-	-	-	-	$ -
Total	$ 43,827	$ 300,000	$ -	$ -	$ -	$ 343,827
Operating Cost Impact	$ 1,000	$ 3,000	$ 3,000	$ 3,000	$ 3,000	$ 13,000

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Tennis Courts

PROJECT DESCRIPTION

Justification:

The Parks and Recreation Department commissioned a study of all City and area tennis courts in 2004 to assess the condition of the courts, provide cost estimates for renovations, and determine a course of action for providing tennis courts in the community from a regional approach. No significant maintenance was performed between that time and another assessment performed in 2012, which found the courts ranged from poor to good condition. Some courts had reached the end of their useful life, were no longer playable and projected a poor image on their respective parks and neighborhoods. In 2012, the Parks, Recreation and Facilities Management Department developed a plan to address the addition/renovations/removal of tennis courts throughout the entire City of Appleton. The plan established "service areas" throughout the City and identified additional tennis courts, renovations and removals to provide tennis opportunities within each "service area".

In 2015, the budget was approved to install new tennis courts at Highview Park. Because the project was bid overbudget the bids were rejected with the intent to budget and install the courts in 2016.

This budget includes funding to continue implementation of the tennis court plan and includes the following projects over the next 5 years:

2017 - Replacement of tennis courts at Erb Park - $140,000
2018 - Re-surface tennis courts at Linwood and Green Meadows Parks - $100,000
2018 - New tennis courts at Jaycee Park to address a "service area" need - $140,000
2019 - (6) court complex at Telulah Park to address a "service area" need - $250,000
2020 - Remove tennis courts at Colony Oaks Park - $15,000
2020 - Re-surface tennis courts at Summit and Pierce Parks - $100,000

Discussion of operating cost impact:

Repairs and/or renovations of existing facilities are not expected to have any measurable impact on operating costs., but new tennis courts will require some additional supplies and services for maintenance.

DEPARTMENT COST SUMMARY

DEPARTMENT	PHASE	2016	2017	2018	2019	2020	Total
PRFMD	Tennis Courts						
	Maintenance	-	-	100,000	-	100,000	$ 200,000
	Removal	-	-	-	-	15,000	$ 15,000
	Construction	-	140,000	140,000	250,000	-	$ 530,000
Total - PRFMD Capital Projects Fund		$ -	$ 140,000	$ 240,000	$ 250,000	$ 115,000	$ 745,000

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	-	-	-	-	-	$ -
Land Acquisition	-	-	-	-	-	$ -
Construction	-	140,000	240,000	250,000	115,000	$ 745,000
Other	-	-	-	-	-	$ -
Total	$ -	$ 140,000	$ 240,000	$ 250,000	$ 115,000	$ 745,000
Operating Cost Impact	$ -	$ 1,000	$ 2,000	$ 4,000	$ 6,000	$ 13,000

CITY OF APPLETON 2016 BUDGET CAPITAL IMPROVEMENTS PROGRAM
PROJECT REQUEST

IDENTIFICATION
Project Title: Trails and Trail Connections

PROJECT DESCRIPTION

Justification:

The Parks, Recreation and Facilities Management Department has worked closely with the Bicycle and Pedestrian Advisory Committee to identify trails and trail connections in the City of Appleton that meets the growing interest and demand for trails. The identification and construction of trails has often been spurred by residential subdivision developments and completion of trails developed earlier. This funding request will address the trails and/or trail connections listed below:

2016 - Planning Services - Funding for design services to take a comprehensive planning approach that considers all trail segments is necessary to properly plan and prioritize resources to make informed decisions. This planning effort will identify the resources required and challenges to build the trails. In addition, this information is required to apply for grants to assist with offsetting the funding of construction.

2016 - Design Services - Funding for design services has been requested for the Riverview Gardens Trail in the year preceding the scheduled trail construction. In addition to providing the necessary design services for the trail projects, the funding will also address the acquisition of the necessary easements, DNR permits, site surveys, soil testing, etc.

2017 - Riverview Gardens - Funding would be provided to complete the design services for the Riverview Gardens Trail. This trail segment will require additional design services because of its proximity to the river, use of private property, significant grade changes, etc.

2018 - Riverview Gardens - The transition of Riverview Country Club as a golf course to Riverview Gardens and a community-oriented facility has allowed the Parks, Recreation and Facilities Management Department and Bicycle and Pedestrian Advisory Committee to consider Riverview Gardens as an extension of Newberry Trail from the corner of Olde Oneida Street and E. South River Street to the west and provide a connection from Newberry Trail to the South Memorial Drive neighborhood. The gap between Newberry Trail and the South Memorial Drive neighborhood was identified early in the development of a comprehensive trail program and the development of Riverview Gardens provides a unique opportunity to address this gap .

2018 - Design Services - Funding for design services has been requested for the WE Energies Trail.

2019 - WE Energies Trail - This project was first proposed in the late 1990's in the initial stages of the trail development program. The project was met with significant opposition from the neighbors and funding was not pursued. Although the trail was generally opposed by the neighbors in the late 1990's, the trail connection has appeared on trail planning maps since the late 1990's. This project is being submitted for funding in 2019 to follow the re-construction of S. Oneida Street and provide a solid connection to neighborhoods east of Oneida Street.

Discussion of operating cost impact:

Additional operating costs would be required to address the new trails and trail connections.

DEPARTMENT COST SUMMARY

DEPARTMENT	PHASE	2016	2017	2018	2019	2020	Total
PRFM	Master Trail Plan	100,000	-	-	-	-	$ 100,000
	WE Energies Trail	-	-	15,000	250,000	-	$ 265,000
	Riverview Gardens	15,000	50,000	450,000	-	-	$ 515,000
	Holland Pond Loop	-	-	-	-	150,000	$ 150,000
Total - Facilities Capital Projects Fund		$ 115,000	$ 50,000	$ 465,000	$ 250,000	$ 150,000	$ 1,030,000

COST ANALYSIS

Estimated Cash Flows

Components	2016	2017	2018	2019	2020	Total
Planning	115,000	50,000	15,000	-	15,000	$ 195,000
Land Acquisition	-	-	-	-	-	$ -
Construction	-	-	450,000	250,000	135,000	$ 835,000
Other	-	-	-	-	-	$ -
Total	$ 115,000	$ 50,000	$ 465,000	$ 250,000	$ 150,000	$ 1,030,000
Operating Cost Impact	$ -	$ -	$ -			$ -