

**City of Marshall, Michigan  
Capital Improvements Program  
July 1, 2011 Through June 30, 2017**

**Council Members**

**Jim Dyer, Mayor**

Wayne Booton, Council Member Ward 1  
Nick Metzger, Council Member Ward 2  
Brent Williams, Council Member Ward 3  
Ryan Traver, Council Member Ward 4  
Jody Mankerian, Council Member Ward 5  
Kathy Miller, Council Member At Large

**City Administration**

Tom Tarkiewicz, City Manager  
Sandra Bird, Clerk-Treasurer  
James Schwartz, Police Chief  
Robert Kiessling, Fire Chief  
Carl Fedders, Director of Public Services  
Natalie Huestis, Director of Community Services



# Capital Improvements Program

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**July 1, 2011 through June 30, 2017**  
**City of Marshall**  
**Update to Capital Improvements Program**  
**Schedule**

<u>Date</u>	<u>Activity</u>
September 8, 2010	Meet with Directors and Department Heads to discuss CIP update process. Distribute materials for actual CIP update.
September 9, 2010 – September 30, 2010	Department Heads work on updates to CIP; submit to Finance Department on or before September 30.
October 1, 2010 – October 12, 2010	Preliminary CIP document assembled by Finance Department based on detail submitted by Department heads.
October 13, 2010 – October 15, 2010	Preliminary CIP document reviewed by City Manager and Finance Director.
October 19, 2010	Draft CIP reviewed by City Manager and Directors (at Director's meeting).
November 1-5, 2010	Draft CIP distributed to Planning Commission.
November 10, 2010	Planning Commission sets public hearing
November 29 - December 3, 2010	Draft (revised if necessary) CIP document distributed to Planning Commission.
December 8, 2010	Planning Commission holds public hearing on CIP and submits formal recommendation to City Council.
January 3, 2011	Council receives CIP and recommendations by Planning Commission and schedules public hearing for January 18, 2011.
January 18, 2011	City Council holds public hearing on CIP and adopts the CIP.

## **City of Marshall Capital Improvements Program**

This year's Capital Improvements Program (CIP) provides an opportunity for the various stakeholders in the City of Marshall to come together and prepare a plan of the City's capital improvement needs for the next six years. These stakeholders include the City Council, city administration along with department heads, and the citizens of Marshall. While not all of these needs will be met, as resources are scarce, the CIP provides a way to prioritize these needs and allocate resources to best meet the various demands.

### ***What is the Capital Improvements Program?***

The CIP is a six-year plan identifying capital projects to be funded over that period. Included in the plan is the year in which the capital item/project will be funded, the duration of the item/project, the source of funding, and the impact, if any, on operational costs once the capital item/project is acquired. All items/projects are prioritized as explained later in this section.

### ***What is a Capital Improvements Item/Project?***

As used in the City of Marshall CIP, a capital improvements item/project is defined as a major, non-recurring expenditure that incorporates any of the following:

1. The acquisition of land for a public purpose.
2. Any construction of a new facility including engineering design and other pre-construction costs with an estimated cost in excess of \$5,000.
3. A non-reoccurring rehabilitation or major repair of all or part of a building, its grounds, a facility, or its equipment, provided that such costs are more than \$5,000 and the improvement will have a useful life of ten years or more.
4. Purchase of major equipment valued in excess of \$5,000 with a useful life of three years or more.
5. Major studies requiring the employment of outside professional consultants in excess of \$5,000.
6. All projects funded substantially from the proceeds of a debt obligation.

These factors should be used to determine if a project should be considered as part of the CIP. If there is uncertainty as to whether a project or expenditure should be included in the CIP, please include it and it will be reviewed during the compilation process.

### ***Why develop a Capital Improvements Program?***

By developing a CIP the City of Marshall is showing fiscal responsibility. A CIP focuses attention on the long-term issues and implications of these needs with regard to financing resources. The CIP demonstrates fiscal responsibility and planning to:

1. City Council
2. Citizens
3. Rating Agencies
4. Municipal Bond Authorities

Further, a CIP facilitates proper planning for economic development in the broadest sense of the term. It helps establish the future plan for growth with regard to infrastructure, utilities, service needs, parks and recreational needs.

### ***What are the benefits of having a Capital Improvements Program?***

The benefits of a thorough and well-planned CIP are numerous. First and foremost, the CIP is a planning tool which, as mentioned earlier, provides a mechanism to allocate scarce resources

across competing demands. Second, with a “pay-as-you-go” approach to financing capital projects, overall savings can be realized by avoiding interest and other costs associated with issuing debt. Third, the CIP provides an opportunity for the city’s Council, administration, and citizens to come together and prioritize the needs of the community. Finally, the CIP is a budgeting tool. As such, each of the six years of the program provides a snapshot of that year’s potential capital expenditures. Each of these years will be considered individually as that year’s Capital Improvement Budget. Hence, the CIP defines the capital needs of the city for each budget year.

***Who is responsible for the preparation of the CIP?***

The key players in the development of the CIP and their respective roles are as follows:

**City Council**

The City Council has final responsibility of authorizing expenditures of public funds for capital improvement projects. The City Council will be reviewing, conducting public hearings, and adopting the capital improvements program. Once approved, the CIP will be used as a guide for preparing the budget.

**City Manager**

The City Manager has the responsibility for submitting the proposed capital improvements program to the Planning Commission and City Council for their review. It is the responsibility of the City Manager to review the proposed program as to content, timing, coordination and its affect on the overall fiscal policy and abilities of the City.

**Finance Department**

The Finance Department has the responsibility of coordinating the actual preparation of the proposed capital improvements program. The Director of Finance coordinates and reviews individual department projects and prepares the program document. This Department is also responsible for providing supporting information regarding the City’s revenue and expenditure capabilities and limitations.

**Directors and Department Heads**

The Directors and Department Heads have the most knowledge and information concerning the functions and needs of their respective departments. They are responsible for analyzing plans and projects and projecting their costs for inclusion the in CIP. They are also responsible for obtaining the input and approval of proposed projects by the various boards and commissions concerned with their activities. Along with information regarding each project, they are responsible for weighing each project and assigning a priority level which designates the project’s criticality.

**Citizens of Marshall**

The citizens of Marshall have a responsibility to express their concerns and desires as they relate to the CIP through meeting with City Council, staff, and the various boards and advisory committees created by the City.

***How should projects be prioritized?***

This section provides a basis for determining first the significance of a project, and second how this project should be prioritized. Listed below are several criteria to assist in determining the significance of a project:

- relationship to Master Plan For Land Use
- relationship to City Council vision and goals
- relationship to overall community needs
- relationship to other projects
- necessary to fulfill any federal or state judicial or administrative requirements
- impact on annual operating and maintenance costs
- relationship to other community plans
- relationship to source and availability of funds
- relationship to overall fiscal policy and capabilities

Based on the significance of each project, the next step involves assigning a priority ranking to each project. The priority rankings are defined below:

- Priority 1: Project cannot be postponed. It is partially completed, meets an emergency situation or the City is committed by contractual arrangement.
- Priority 2: Project is important and should be carried out as scheduled so as to meet anticipated needs of a current program, to replace unsatisfactory facilities, or to maintain the a program at its current level of performance.
- Priority 3: Project is needed to expand a program or facility; however, the project can wait until funds become available.
- Priority 4: Project identified as ideal for operations but cannot yet be recommended for action. Project can safely be deferred beyond the third (3<sup>rd</sup>) year of the six (6) year projection.

Prior projects already identified in the CIP should be thoroughly reviewed. The document containing the prior projects in the CIP is located in F:/USERS/SHARED/2011-2017 CIP/Prior Year CIP. Make certain that cost projections are updated. Make priority changes when necessary. Submit your updates electronically (highlighting updates) or manually (print out applicable pages and make hand-written corrections) to Finance, along with new project requests.

New projects should be submitted by completing the CIP New Project Request Form attached. The form is available in electronic format. Simply go to F:/USERS/SHARED/2011-2017 CIP/CIP New Project Request Form.

### ***Ongoing Maintenance Costs***

Please pay close attention to quantifying the impact proposed projects will have on operating and maintenance costs including personnel time, equipment, materials and supplies. If a savings will be realized from the project (example: project will reduce chemical costs by \$1,000), this too should be quantified. This information should be included in the "Explanation of Affect on Operations" section of the project record.



## MEMORANDUM

**TO:** Sandra Bird, Clerk/Treasurer, Mayor Jim Dyer and City Council Members

**FROM:** Natalie Huestis, Director of Community Services

**SUBJECT:** Planning Commission recommendation on 2011-2017 Capital Improvements Plan

At their regular meeting on November 10, 2010, commissioner's received the draft Planning Commission portion of the 2011-2017 Capital Improvements Plan. At that time, commissioners had a brief discussion on priority rankings and the history behind splitting the CIP into a smaller version for Planning Commission review. A public hearing was then set and noticed appropriately for December 7, 2010.

The Marshall City Planning Commission held a public hearing at its December 7, 2010 regular meeting. The Planning Commission's role is to review the CIP to make certain it addresses any priorities included in the Master Plan for Future Land Use. There was no public present and no public comments were heard on the CIP. The Planning Commission accepted and recommended Council approval of the CIP with the following changes to the Planning Commission portion of the CIP:

The Marshall City Planning Commission held a public hearing at its December 7, 2010 regular meeting. The Planning Commission's role is to review the CIP to make certain it addresses any priorities included in the Master Plan for Future Land Use. There was no public present and no public comments were heard on the CIP. The Planning Commission accepted and recommended Council approval of the CIP with the following motion:

**MOTION** by Burke Smith, supported by Stevenson, to recommend to the City Council that the Planning Commission's portion of the draft Capital Improvements Program for 2011-2017 be approved with the following change:

1. Brooks Master Plan for Brooks Nature Park – recommendation to be created before any of the projects took place – move to #2 priority.

On a voice vote; **MOTION CARRIED.**



City of Marshall – Planning Commission

# **Capital Improvements Program**

**Expenditures by Department/Fund**

**City of Marshall**  
**Capital Improvements Program**  
 Expenditures by Department/Fund

Record #	Department	Project Title	Priority Ranking	Estimated Useful Life	Source of Funding	2011-2012 Expenditure	2012-2013 Expenditure	2013-2014 Expenditure	2014-2015 Expenditure	2015-2016 Expenditure	2016-2017 Expenditure	Trade In or Grant Share	Total Expenditure
	<b>Downtown Development Authority</b>												
250	Downtown Development Authority	Michigan Avenue Tree Replacement Project - Downtown	1	40	DDA Fund-1/3/Grant Funds/Private Donations	\$25,000	\$0	\$0	\$0	\$0	\$0	\$50,000	\$75,000
197	Downtown Development Authority	Mansion Street/North Alley Parking Lot Reconstruction	2	30	DDA Fund/General Fund	\$50,000	\$0	\$0	\$0	\$0	\$0	\$0	\$50,000
		<b>TOTAL DDA FUND</b>				\$75,000	\$0	\$0	\$0	\$0	\$0	\$50,000	\$125,000
	<b>Electric</b>												
223	Electric	Embankment Project	1	50	Electric Fund - Bond	\$805,000	\$0	\$0	\$0	\$0	\$0	\$0	\$805,000
		<b>TOTAL ELECTRIC FUND</b>				\$805,000	\$0	\$0	\$0	\$0	\$0	\$0	\$805,000
	<b>Local Development Finance Authority</b>												
107	L DFA	Industrial Park Expansion	4	50	L DFA Fund and Bonding	\$0	\$0	\$0	\$0	\$6,000,000	\$0	\$0	\$6,000,000
		<b>TOTAL L DFA FUND</b>				\$0	\$0	\$0	\$0	\$6,000,000	\$0	\$0	\$6,000,000
	<b>Fire/Police</b>												
199	Fire/Police	New Emergency Services Building	1	50	General Fund - Building Authority Bond	\$0	\$6,014,000	\$0	\$0	\$0	\$0	\$0	\$6,014,000
		<b>Total Fire/Police</b>				\$0	\$6,014,000	\$0	\$0	\$0	\$0	\$0	\$6,014,000
	<b>Parks</b>												
124	Parks	Brooks Nature Park Observation Deck	2	20	General Fund and DNRE Grant	\$25,000	\$0	\$0	\$0	\$0	\$0	\$0	\$25,000
199	Parks	Phase V Riverwalk Design	2	20	General Fund 25%/Local Grants 75%	\$0	\$40,000	\$0	\$0	\$0	\$0	\$0	\$40,000
249	Parks	Brooks Nature Park 16 x 20 Shelter	2	20	General Fund	\$10,000	\$0	\$0	\$0	\$0	\$0	\$0	\$10,000
63	Parks	Park Identification Signs	3	25	General Fund	\$0	\$12,000	\$0	\$0	\$0	\$0	\$0	\$12,000
180	Parks	Master Plan for Brooks Nature Park	3	10	General Fund 50% and CRP Grant 50%	\$7,000	\$0	\$0	\$0	\$0	\$0	\$0	\$7,000

**City of Marshall**  
**Capital Improvements Program**  
 Expenditures by Department/Fund

Record #	Department	Project Title	Priority Ranking	Estimated Useful Life	Source of Funding	2011-2012 Expenditure	2012-2013 Expenditure	2013-2014 Expenditure	2014-2015 Expenditure	2015-2016 Expenditure	2016-2017 Expenditure	Trade In or Grant Share	Total Expenditure
187	Parks	Riverwalk Connection to Ketchum Park	3	30	General Fund and DNR Grants	\$0	\$0	\$300,000	\$0	\$0	\$0	\$0	\$300,000
188	Parks	Kalamazoo Riverfront Parks Planning	3	30	General Fund and DNR Grants	\$0	\$0	\$40,000	\$0	\$0	\$0	\$0	\$40,000
190	Parks	Walnut Street Riverwalk	3	50	General Fund	\$0	\$0	\$30,000	\$0	\$0	\$0	\$0	\$30,000
191	Parks	South Ketchum Parking Lot Expansion	3	10	General Fund	\$0	\$0	\$52,000	\$0	\$0	\$0	\$0	\$52,000
193	Parks	Phase I Riverfront Park Development	3	100	General Fund 50% and DNR Grant 50%	\$75,000	\$0	\$0	\$0	\$0	\$0	\$0	\$75,000
174	Parks	Ketchum Park Restroom Near Kids Kingdom	4	25	General Fund	\$0	\$0	\$0	\$0	\$68,000	\$0	\$0	\$68,000
175	Parks	Ketchum Park Parking & Access	4	20	General Fund and DNR Grants	\$0	\$0	\$0	\$0	\$40,000	\$0	\$0	\$40,000
192	Parks	Sherman Court Pond Nature Trail	4	20	General Fund	\$0	\$0	\$5,000	\$5,000	\$5,000	\$0	\$0	\$15,000
		<b>Total Parks</b>				\$117,000	\$52,000	\$427,000	\$5,000	\$133,000	\$0	\$0	\$734,000
		<b>Streets</b>											
200	Streets	New Sidewalk Installation	2	25	General Fund	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$0	\$180,000
		<b>Total Streets</b>				\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$0	\$180,000
		<b>TOTAL GENERAL FUND</b>				\$147,000	\$6,096,000	\$457,000	\$35,000	\$163,000	\$30,000	\$0	\$6,928,000
		<b>Recreation</b>											
159	Recreation	Permanent Pavilion/Grill at Sand Volleyball Courts	3	25	Recreation Fund	\$0	\$7,000	\$0	\$0	\$0	\$0	\$0	\$7,000
		<b>TOTAL RECREATION FUND</b>				\$0	\$7,000	\$0	\$0	\$0	\$0	\$0	\$7,000
		<b>Water</b>											
217	Water	Build New Treatment Plant at Well #5 Site, S. Kalamazoo behind Moonraker	3	50	Water Fund	\$0	\$0	\$0	\$0	\$1,000,000	\$0	\$0	\$1,000,000
		<b>TOTAL WATER FUND</b>				\$0	\$0	\$0	\$0	\$1,000,000	\$0	\$0	\$1,000,000



City of Marshall – Planning Commission

# **Capital Improvements Program**

**Expenditures by Priority/Department-Fund**

**City of Marshall**  
**Capital Improvements Program**  
**Expenditures by Priority/Department-Fund**

Record #	Department	Project Title	Priority Ranking	Estimated Useful Life	Source of Funding	2011-2012 Expenditure	2012-2013 Expenditure	2013-2014 Expenditure	2014-2015 Expenditure	2015-2016 Expenditure	2016-2017 Expenditure	Trade In or Grant Share	Total Expenditure
<b>Priority 1</b>													
250	Downtown Development Authority	Michigan Avenue Tree Replacement Project - Downtown	1	40	DDA Fund-1/3/Grant Funds/Private Donations	\$25,000	\$0	\$0	\$0	\$0	\$0	\$50,000	\$75,000
		<b>Total DDA</b>				\$25,000	\$0	\$0	\$0	\$0	\$0	\$50,000	\$75,000
223	Electric	Embankment Project	1	50	Electric Fund - Bond	\$605,000	\$0	\$0	\$0	\$0	\$0	\$0	\$605,000
		<b>Total Electric</b>				\$605,000	\$0	\$0	\$0	\$0	\$0	\$0	\$605,000
199	Fire/Police	New Emergency Services Building	1	50	General Fund - Building Authority Bond	\$0	\$6,014,000	\$0	\$0	\$0	\$0	\$0	\$6,014,000
		<b>Total Fire/Police</b>				\$0	\$6,014,000	\$0	\$0	\$0	\$0	\$0	\$6,014,000
		<b>TOTAL PRIORITY 1</b>				\$630,000	\$6,014,000	\$0	\$0	\$0	\$0	\$50,000	\$6,694,000
<b>Priority 2</b>													
197	Downtown Development Authority	Mansion Street/North Alley Parking Lot Reconstruction	2	30	DDA Fund/General Fund	\$50,000	\$0	\$0	\$0	\$0	\$0	\$0	\$50,000
		<b>Total DDA</b>				\$50,000	\$0	\$0	\$0	\$0	\$0	\$0	\$50,000
124	Parks	Brooks Nature Park Observation Deck	2	20	General Fund and DNIRE Grant	\$25,000	\$0	\$0	\$0	\$0	\$0	\$0	\$25,000
189	Parks	Phase V Riverwalk Design	2	20	General Fund 25%/Local Grants 75%	\$0	\$40,000	\$0	\$0	\$0	\$0	\$0	\$40,000
249	Parks	Brooks Nature Park 16 x 20 Shelter	2	20	General Fund	\$10,000	\$0	\$0	\$0	\$0	\$0	\$0	\$10,000
		<b>Total Parks</b>				\$35,000	\$40,000	\$0	\$0	\$0	\$0	\$0	\$75,000
200	Streets	New Sidewalk Installation	2	25	General Fund	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$0	\$180,000
		<b>Total Streets</b>				\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$0	\$180,000
		<b>TOTAL PRIORITY 2</b>				\$115,000	\$70,000	\$30,000	\$30,000	\$30,000	\$30,000	\$0	\$305,000



**City of Marshall**  
**Capital Improvements Program**  
**Expenditures by Priority/Department-Fund**

Record #	Department	Project Title	Priority Ranking	Estimated Useful Life	Source of Funding	2011-2012 Expenditure	2012-2013 Expenditure	2013-2014 Expenditure	2014-2015 Expenditure	2015-2016 Expenditure	2016-2017 Expenditure	Trade In or Grant Share	Total Expenditure
	<b>Priority 3</b>												
63	Parks	Park Identification Signs	3	25	General Fund	\$0	\$12,000	\$0	\$0	\$0	\$0	\$0	\$12,000
180	Parks	Master Plan for Brooks Nature Park	3	10	General Fund 50% and CRP Grant 50%	\$7,000	\$0	\$0	\$0	\$0	\$0	\$0	\$7,000
187	Parks	Riverwalk Connection to Ketchum Park	3	30	General Fund and DNR Grants	\$0	\$0	\$300,000	\$0	\$0	\$0	\$0	\$300,000
188	Parks	Kalamazoo Riverfront Parks Planning	3	30	General Fund and DNR Grants	\$0	\$0	\$40,000	\$0	\$0	\$0	\$0	\$40,000
190	Parks	Walnut Street Riverwalk	3	50	General Fund	\$0	\$0	\$30,000	\$0	\$0	\$0	\$0	\$30,000
191	Parks	South Ketchum Parking Lot Expansion	3	10	General Fund	\$0	\$0	\$52,000	\$0	\$0	\$0	\$0	\$52,000
193	Parks	Phase I Riverfront Park Development	3	100	General Fund 50% and DNR Grant 50%	\$75,000	\$0	\$0	\$0	\$0	\$0	\$0	\$75,000
		<b>Total Parks</b>				\$82,000	\$12,000	\$422,000	\$0	\$0	\$0	\$0	\$516,000
159	Recreation	Permanent Pavilion/Grill at Sand Volleyball Courts	3	25	Recreation Fund	\$0	\$7,000	\$0	\$0	\$0	\$0	\$0	\$7,000
		<b>Total Recreation</b>				\$0	\$7,000	\$0	\$0	\$0	\$0	\$0	\$7,000
217	Water	Build New Treatment Plant at Well #5 Site. S. Kalamazoo behind Moonraker	3	50	Water Fund	\$0	\$0	\$0	\$0	\$1,000,000	\$0	\$0	\$1,000,000
		<b>Total Water</b>				\$0	\$0	\$0	\$0	\$1,000,000	\$0	\$0	\$1,000,000
		<b>TOTAL PRIORITY 3</b>				\$82,000	\$19,000	\$422,000	\$0	\$1,000,000	\$0	\$0	\$1,523,000
	<b>Priority 4</b>												
107	LDFA	Industrial Park Expansion	4	50	LDFA Fund and Bonding	\$0	\$0	\$0	\$0	\$6,000,000	\$0	\$0	\$6,000,000
		<b>Total LDFA</b>				\$0	\$0	\$0	\$0	\$6,000,000	\$0	\$0	\$6,000,000
174	Parks	Ketchum Park Restroom Near Kids Kingdom	4	25	General Fund	\$0	\$0	\$0	\$0	\$88,000	\$0	\$0	\$88,000

**City of Marshall**  
**Capital Improvements Program**  
**Expenditures by Priority/Department-Fund**

Record #	Department	Project Title	Priority Ranking	Estimated Useful Life	Source of Funding	2011-2012 Expenditure	2012-2013 Expenditure	2013-2014 Expenditure	2014-2015 Expenditure	2015-2016 Expenditure	2016-2017 Expenditure	Trade In or Grant Share	Total Expenditure
175	Parks	Ketchum Park Parking & Access	4	20	General Fund and DNR Grants	\$0	\$0	\$0	\$0	\$40,000	\$0	\$0	\$40,000
192	Parks	Sherman Court Pond Nature Trail	4	20	General Fund	\$0	\$0	\$5,000	\$5,000	\$5,000	\$0	\$0	\$15,000
		<i>Total Parks</i>				\$0	\$0	\$5,000	\$5,000	\$133,000	\$0	\$0	\$143,000
		<b>TOTAL PRIORITY 4</b>				\$0	\$0	\$5,000	\$5,000	\$6,133,000	\$0	\$0	\$6,143,000

City of Marshall – Planning Commission

# **Capital Improvements Program**

**Project Description**

**City of Marshall**  
**Capital Improvements Program**  
**Project Description**

Record #	Department	Project Title	Priority Ranking	Project Narrative/Purpose	Impact on Operating Budget
63	Parks	Park Identification Signs	3	Park identification signage for the city's major parks. Signs will promote unified identify for park system and enhance park properties.	Increase to park maintenance
107	L DFA	Industrial Park Expansion	4	Need to move when 3-4 lots have been sold. Will be done in phases as well.	
124	Parks	Brooks Nature Park Observation Deck	2	This will be an elevated deck so that visitors will be able to over look the lake and view the wild life that resides there. It will also comply with ADA and State of Michigan barrier free standards.	Will be an increase in maintenance cost in the future.
159	Recreation	Permanent Pavilion/Grill at Sand Volleyball Courts	3	A covered pavilion w/ bricked in grill will be installed at the Sand Volleyball Courts located at the Marshall Athletic Field. Temporary pavilion was removed. This will make a nice shaded area for players and spectators as they await game time during regular league play and/or tournament play.	Pre-fabricated pavilion w/ grill will have low maintenance. May attract more sand volley ball rentals.
174	Parks	Ketchum Park Restroom Near Kids Kingdom	4	Install a restroom facility for Kids Kingdom Playground.	Increased maintenance and utility costs for restroom.
175	Parks	Ketchum Park Parking & Access	4	Construct 20 car parking area on Water Department property on the South side of Green Street. Construct bridge and boardwalk (400') across Rice Creek wetlands to provide improved access to the East end of Ketchum Park.	\$5000 increase in maintenance costs per year for striping, plowing, keeping bridge & boardwalk treated.
180	Parks	Master Plan for Brooks Nature Park	3	The study will give staff and the Brooks Nature Advisory Group direction on developing this land for public use. The following year the firm selected to develop the plan, will then provide construction documents and when funding becomes available, apply for the permits with the DEQ and DNR. Staff will have the documents necessary to be able to apply for grants.	An enhancement for the Brooks Nature Area Park and guide to its continued development.
187	Parks	Riverwalk Connection to Ketchum Park	3	Riverwalk connection to Ketchum Park, County Park and the Fair Grounds.	Increased maintenance costs-no figures available.
188	Parks	Kalamazoo Riverfront Parks Planning	3	Develop land area for park and activity development as needs and funds are recognized.	Development into Riverfront will increase maintenance and operation costs.
189	Parks	Phase V Riverwalk Design	2	Design next phase of Kalamazoo Riverwalk extending from Kalamazoo Ave. westerly to Pearl St .sub-station area.	None; this is design phase only.

**City of Marshall**  
**Capital Improvements Program**  
**Project Description**

Record #	Department	Project Title	Priority Ranking	Project Narrative/Purpose	Impact on Operating Budget
190	Parks	Walnut Street Riverwalk	3	Construct pedestrian walkway including sidewalk, bridge and lighting from Monroe through Walnut, then to Locust, then to Marshall House for Riverwalk connection.	Increase in operational costs-walkway will require periodic maintenance.
191	Parks	South Ketchum Parking Lot Expansion	3	With the addition of the Kids Kingdom current and future uses of the park area, additional parking is needed. The City could need to purchase additional property and then install storm sewer.	\$500 increase in maintenance costs per year.
192	Parks	Sherman Court Pond Nature Trail	4	Provide soft trails through natural area around pond.	Minor maintenance cost increase. Direct cost associated with proper signage to minimize risk.
193	Parks	Phase I Riverfront Park Development	3	Develop land east of City Garage following the Parks and Recreation Master Plan guidelines	Increased maintenance area would have a direct increase on operational costs.
197	Downtown Development Authority	Mansion Street/North Alley Parking Lot Reconstruction	2	Remove concrete islands within parking lot, remove and replace asphalt, improve sub grade, improve drainage, restripe to increase number of parking spots and improve landscaping.	Reduce labor for snow removal and parking lot maintenance.
199	Fire/Police	New Emergency Services Building	1	Construction of new facility to house the fire, police and ambulance services. Current facility space limitations impact response times and staff safety issues.	Improved safety and response times and increased maintenance costs approximately \$45,563 per year.
200	Streets	New Sidewalk Installation	2	Sidewalks include North Drive from Madison to Marshall Avenue, Pearl from Kalamazoo to Riverwalk Access, Forest Street, O'Keefe, and Woodruff Drives, Sherman from Pristanchia to Verona Road, Hobart from Kalamazoo to Brewer East Drive from Forest to Verona to Michigan, Birch and Mulberry where missing.	Increased cost in the form of sidewalk repairs
217	Water	Build New Treatment Plant at Well #5 Site. S. Kalamazoo behind Moonraker	3	Install water main and build water treatment plant at #5 well site. This would add a backup in case of contamination to other four wells on Green St.	Increase utility use and chemical inventory

**City of Marshall**  
**Capital Improvements Program**  
**Project Description**

Record #	Department	Project Title	Priority Ranking	Project Narrative/Purpose	Impact on Operating Budget
223	Electric	Embankment Project	1	The FERC is requesting that all trees, stumps and root system systems be removed from the earthen embankment between the spillway's. This will require a geotechnical investigation be completed to determine to what extent the embankment must be excavated and replaced. This budgetary number was created assuming the entire embankment would need to be removed and reconstructed. This will be an area for those using the park to take refuge during adverse weather conditions. It will be open on three sides. One side will be closed to help block the wind or rain from those occupying the structure. The ceiling area will be enclosed to keep wild life from using the trusses as a nesting area.	Federal Regulatory Energy Commission (FERC) requirement.
249	Parks	Brooks Nature Park 16 x 20 Shelter	2	Remove and replace existing trees along Michigan Avenue - between Park Avenue and Marshall Avenue; project to include installation of electric outlet at each tree for lighting. Anticipate DDA funds to cover one-third of project cost; private donations and grant funds will be sought.	Will be an increase in maintenance cost in the future.
250	Downtown Development Authority	Michigan Avenue Tree Replacement Project - Downtown	1		Project will include first two years of maintenance for new trees - reduction in maintenance costs for tree trimming, tree removal and replacement.

City of Marshall – Council

# **Capital Improvements Program**

**Expenditures by Department/Fund**

**City of Marshall**  
**Capital Improvements Program**  
 Expenditures by Department/Fund

Record #	Department	Project Title	Priority Ranking	Estimated Useful Life	Source of Funding	2011-2012 Expenditure	2012-2013 Expenditure	2013-2014 Expenditure	2014-2015 Expenditure	2015-2016 Expenditure	2016-2017 Expenditure	Trade in or Grant Share	Total Expenditure
	<b>Airport</b>												
114	Airport	Taxiway Rehabilitation	2	20	Airport Fund 2 1/2%, FAA Allocation 95%, State 2 1/2%	\$8,625	\$0	\$0	\$0	\$0	\$0	\$360,750	\$369,375
202	Airport	AWOS replacement	2	20	Airport Fund 2 1/2%, FAA Allocation 95%, State 2 1/2%	\$1,325	\$0	\$0	\$0	\$0	\$0	\$51,675	\$53,000
203	Airport	Design Parallel Taxiway Rehabilitation	2	1	Airport Fund 2 1/2%, FAA Allocation 95%, State 2 1/2%	\$400	\$0	\$0	\$0	\$0	\$0	\$19,400	\$19,800
204	Airport	Terminal Building Improvements	2	20	Airport Fund 2 1/2%, FAA Allocation 95%, State 2 1/2%	\$0	\$3,750	\$0	\$0	\$0	\$0	\$153,750	\$157,500
205	Airport	Major Improvements or Parallel Runway	2	20	Airport Fund 2 1/2%, FAA Allocation 95%, State 2 1/2%	\$0	\$0	\$0	\$9,500	\$0	\$0	\$9,861	\$19,361
206	Airport	Taxiway Rehabilitation	2	20	Airport Fund 2 1/2%, FAA Allocation 95%, State 2 1/2%	\$0	\$0	\$0	\$0	\$0	\$7,250	\$282,750	\$290,000
		<b>TOTAL AIRPORT FUND</b>				\$10,350	\$3,750	\$0	\$9,500	\$0	\$7,250	\$878,186	\$909,036
	<b>Cemetery Trust</b>												
38	Cemetery	Cemetery Water Distribution System	2	20	Cemetery Trust Fund and General Fund	\$45,000	\$0	\$0	\$0	\$0	\$0	\$0	\$45,000
40	Cemetery	Cemetery Road Paving Project	3	20	Cemetery Trust Fund and General Fund	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$0	\$0	\$50,000
		<b>TOTAL CEMETERY TRUST FUND</b>				\$55,000	\$10,000	\$10,000	\$10,000	\$10,000	\$0	\$0	\$95,000
	<b>Downtown Development Authority</b>												
143	Downtown Development Authority	Parking lot pavement sealing	2	5	DDA Fund	\$0	\$10,000	\$10,000	\$10,000	\$0	\$0	\$0	\$30,000
		<b>TOTAL DDA FUND</b>				\$0	\$10,000	\$10,000	\$10,000	\$0	\$0	\$0	\$30,000
	<b>Electric</b>												
25	Electric	Meter / Relay Calibration	1	3	Electric Fund	\$0	\$0	\$25,000	\$0	\$0	\$0	\$0	\$25,000
168	Electric	Switchgear Expansion	1	25	Electric Fund	\$75,000	\$0	\$0	\$0	\$0	\$0	\$0	\$75,000



**City of Marshall**  
**Capital Improvements Program**  
**Expenditures by Department/Fund**

Record #	Department	Project Title	Priority Ranking	Estimated Useful Life	Source of Funding	2011-2012 Expenditure	2012-2013 Expenditure	2013-2014 Expenditure	2014-2015 Expenditure	2015-2016 Expenditure	2016-2017 Expenditure	Trade In or Grant Share	Total Expenditure
221	Electric	2.4kv Switchgear Replacement Completion	1	30	Electric Fund	\$250,000	\$0	\$0	\$0	\$0	\$0	\$0	\$250,000
225	Electric	Station Battery Replacement	1	20	Electric Fund	\$25,000	\$0	\$0	\$0	\$0	\$0	\$0	\$25,000
229	Electric	Pole Replacement and Line Reconstruction	1	50	Electric Fund - Bond	\$75,000	\$75,000	\$75,000	\$80,000	\$80,000	\$80,000	\$0	\$465,000
230	Electric	Circuit Reclosers and SCADA Operated Sectionalizing	1	20	Electric Fund	\$50,000	\$50,000	\$50,000	\$50,000	\$0	\$0	\$0	\$200,000
231	Electric	Regulators	1	25	Electric Fund	\$55,000	\$55,000	\$55,000	\$55,000	\$0	\$0	\$0	\$220,000
234	Electric	Primary Splice Box for Airport Project	1	30	Electric Fund	\$9,000	\$0	\$0	\$0	\$0	\$0	\$0	\$9,000
4	Electric	Capacitor Banks	2	20	Electric Fund	\$22,000	\$0	\$0	\$0	\$0	\$0	\$0	\$22,000
19	Electric	Raceway/Dam Maintenance	2	20	Electric Fund	\$15,000	\$0	\$15,000	\$0	\$15,000	\$0	\$0	\$45,000
23	Electric	Air Compressor Replacement	2	30	Electric Fund	\$15,000	\$15,000	\$15,000	\$0	\$0	\$0	\$0	\$45,000
28	Electric	Power House Roof Repairs	2	25	Electric Fund	\$0	\$0	\$60,000	\$0	\$0	\$0	\$0	\$60,000
30	Electric	Automated Load Control of Hydro	2	25	Electric Fund	\$50,000	\$0	\$0	\$0	\$0	\$0	\$0	\$50,000
31	Electric	Upgrade Plant #1 House Power Panels	2	30	Electric Fund	\$7,500	\$7,500	\$7,500	\$0	\$0	\$0	\$0	\$22,500
32	Electric	Upgrade Lube Oil Filter Systems on #2 & #5 Engines	2	30	Electric Fund	\$7,500	\$0	\$0	\$0	\$0	\$0	\$0	\$7,500
33	Electric	Upgrade Lube Oil Heating Systems on #2 & #5 Engines	2	30	Electric Fund	\$5,000	\$0	\$0	\$0	\$0	\$0	\$0	\$5,000
46	Electric	Upgrade Engine Protection Systems #2 & #5	2	20	Electric Fund	\$15,000	\$0	\$0	\$0	\$0	\$0	\$0	\$15,000
49	Electric	Engine #3 & #6 gauge panel replacement	2	20	Electric Fund	\$80,000	\$80,000	\$0	\$0	\$0	\$0	\$0	\$160,000
57	Electric	Overhaul East Well pump	2	10	Electric Fund	\$15,000	\$0	\$0	\$0	\$0	\$0	\$0	\$15,000
74	Electric	Overhaul West Well pump	2	10	Electric Fund	\$0	\$15,000	\$0	\$0	\$0	\$0	\$0	\$15,000

**City of Marshall**  
**Capital Improvements Program**  
**Expenditures by Department/Fund**

Record #	Department	Project Title	Priority Ranking	Estimated Useful Life	Source of Funding	2011-2012 Expenditure	2012-2013 Expenditure	2013-2014 Expenditure	2014-2015 Expenditure	2015-2016 Expenditure	2016-2017 Expenditure	Trade In or Grant Share	Total Expenditure
93	Electric	Overhaul #3 Engine Raw Water Pump	2	10	Electric Fund	\$12,000	\$0	\$0	\$0	\$0	\$0	\$0	\$12,000
103	Electric	Installation of Circuit Reclosers	2	10	Electric Fund	\$22,000	\$0	\$0	\$0	\$0	\$0	\$0	\$22,000
147	Electric	Breaker Maintenance	2	5	Electric Fund	\$0	\$0	\$0	\$25,000	\$0	\$0	\$0	\$25,000
170	Electric	Replace Protective Relaying - Generators	2	20	Electric Fund	\$0	\$36,000	\$0	\$0	\$0	\$0	\$0	\$36,000
171	Electric	Replace Protective Relaying - Transformers	2	20	Electric Fund	\$0	\$17,000	\$0	\$0	\$0	\$0	\$0	\$17,000
172	Electric	Replace Protective Relaying - Distribution	2	20	Electric Fund	\$48,000	\$48,000	\$0	\$0	\$0	\$0	\$0	\$96,000
222	Electric	NESHAP/ RICE Compliance	2	25	Electric Fund - Bond	\$251,000	\$124,000	\$0	\$0	\$0	\$0	\$0	\$375,000
224	Electric	Remote Terminal Unit (RTU) Replacement @ Pearl Street Substation and Plant 2	2	10	Electric Fund	\$0	\$60,000	\$25,000	\$0	\$0	\$0	\$0	\$85,000
226	Electric	Distribution Stringing Blocks	2	50	Electric Fund	\$8,000	\$6,000	\$0	\$0	\$0	\$0	\$0	\$14,000
227	Electric	Infrared Camera and Training	2	10	Electric Fund	\$0	\$10,000	\$0	\$0	\$0	\$0	\$0	\$10,000
14	Electric	Recondition #1 Hydro	3	30	Electric Fund	\$0	\$0	\$75,000	\$0	\$0	\$0	\$0	\$75,000
47	Electric	Recondition #3 Hydro	3	30	Electric Fund	\$0	\$0	\$0	\$75,000	\$0	\$0	\$0	\$75,000
64	Electric	Rewind Generator #2	3	30	Electric Fund	\$0	\$0	\$0	\$120,000	\$0	\$0	\$0	\$120,000
72	Electric	Rewind Generator #5	3	30	Electric Fund	\$0	\$0	\$0	\$0	\$132,000	\$0	\$0	\$132,000
165	Electric	Pearl Street Substation Upgrade	3	25	Electric Fund - Bond	\$0	\$0	\$2,000,000	\$3,000,000	\$0	\$0	\$0	\$5,000,000
228	Electric	Circuit Upgrade	3	50	Electric Fund - Bond	\$0	\$1,000,000	\$0	\$0	\$0	\$0	\$0	\$1,000,000
232	Electric	Relocation of Overhead Electric in South Alley between Jefferson Street and Hamilton Street and	3	35	Electric Fund - Bond	\$0	\$0	\$0	\$0	\$400,000	\$0	\$0	\$400,000
233	Electric	Sherman Drive/Wright Lane Upgrade	3	30	Electric Fund - Bond	\$0	\$0	\$3,000,000	\$0	\$0	\$0	\$0	\$3,000,000

**City of Marshall**  
**Capital Improvements Program**  
**Expenditures by Department/Fund**

Record #	Department	Project Title	Priority Ranking	Estimated Useful Life	Source of Funding	2011-2012 Expenditure	2012-2013 Expenditure	2013-2014 Expenditure	2014-2015 Expenditure	2015-2016 Expenditure	2016-2017 Expenditure	Trade In or Grant Share	Total Expenditure
235	Electric	Stuart Lake Circuit Underground Upgrade	3	30	Electric Fund - Bond	\$0	\$800,000	\$0	\$0	\$0	\$0	\$0	\$800,000
21	Electric	Upgrade Transformer in South Substation	4	30	Electric Fund	\$0	\$0	\$0	\$0	\$200,000	\$0	\$0	\$200,000
90	Electric	Retrofit Breakers in Plant #1 Switchgear	4	30	Electric Fund	\$0	\$0	\$50,000	\$50,000	\$50,000	\$0	\$0	\$150,000
		<b>TOTAL ELECTRIC FUND</b>				\$1,112,000	\$2,398,500	\$5,452,500	\$3,455,000	\$877,000	\$800,000	\$0	\$13,375,000
	<b>General Fund</b>												
246	Chapel	Chapel Ramp	1	20	General Fund	\$15,000	\$0	\$0	\$0	\$0	\$0	\$0	\$15,000
247	Chapel	Chapel Painting and Repairs	1	5	General Fund	\$12,000	\$0	\$0	\$0	\$0	\$0	\$0	\$12,000
		<b>Total Chapel</b>				\$27,000	\$0	\$0	\$0	\$0	\$0	\$0	\$27,000
76	Fire	Structural Fire Fighting Protective Clothing Purchase	1	10	General Fund or FEIMA Grant with a 5% match	\$8,500	\$9,000	\$9,500	\$10,000	\$10,500	\$11,000	\$0	\$59,500
153	Fire	Personal Alert Safety System (P.A.S.S. Device) Replacement	1	5	General Fund	\$0	\$0	\$0	\$0	\$12,250	\$0	\$0	\$12,250
154	Fire	Radio Replacement	1	20	General Fund	\$10,300	\$0	\$0	\$0	\$0	\$0	\$0	\$10,300
220	Fire	Replace 5" Supply Line Fire Hose	1	20	General Fund	\$6,000	\$6,000	\$6,000	\$0	\$0	\$0	\$0	\$18,000
		<b>Total Fire</b>				\$24,800	\$15,000	\$15,500	\$10,000	\$22,750	\$11,000	\$0	\$99,050
55	Parks	Paving North Ketchum Park Parking Lot	1	20	General Fund	\$20,000	\$0	\$0	\$0	\$0	\$0	\$0	\$20,000
207	Parks	Mulch Installation	1	10	General fund	\$8,000	\$0	\$0	\$0	\$0	\$0	\$0	\$8,000
208	Parks	Brooks Memorial Fountain Upgrades	1	15	Brooks Memorial Fountain Maintenance-General Fund	\$5,000	\$0	\$0	\$0	\$0	\$0	\$0	\$5,000
12	Parks	Purchase New Playground Equipment	2	25	General Fund	\$45,000	\$0	\$0	\$0	\$0	\$0	\$0	\$45,000
183	Parks	North Ketchum Park Time Locks With New Doors	2	30	General Fund	\$9,000	\$0	\$0	\$0	\$0	\$0	\$0	\$9,000

**City of Marshall**  
**Capital Improvements Program**  
**Expenditures by Department/Fund**

Record #	Department	Project Title	Priority Ranking	Estimated Useful Life	Source of Funding	2011-2012 Expenditure	2012-2013 Expenditure	2013-2014 Expenditure	2014-2015 Expenditure	2015-2016 Expenditure	2016-2017 Expenditure	Trade In or Grant Share	Total Expenditure
		<b>Total Parks</b>				\$87,000	\$0	\$0	\$0	\$0	\$0	\$0	\$87,000
236	Police	Protective Vests	1	5	General Fund or Grant	\$0	\$0	\$0	\$4,000	\$5,000	\$0	\$0	\$9,000
238	Police	Police Vehicle Change-over	1	10	General Fund	\$6,000	\$12,000	\$6,000	\$6,000	\$5,000	\$5,000	\$3,200	\$43,200
240	Police	Rugged Computers	1	5	General Fund	\$5,380	\$0	\$0	\$0	\$0	\$0	\$0	\$5,380
237	Police	Forensic Equipment	2	15	General Fund or Grant	\$0	\$9,500	\$0	\$0	\$0	\$0	\$0	\$9,500
239	Police	Police Protective Shelter / Equipment Storage	2	20	General Fund	\$7,000	\$0	\$0	\$0	\$0	\$0	\$0	\$7,000
		<b>Total Police</b>				\$18,380	\$21,500	\$6,000	\$10,000	\$10,000	\$5,000	\$3,200	\$74,080
198	Streets	Union Street Drainage Improvements	1	20	General Fund	\$65,000	\$0	\$0	\$0	\$0	\$0	\$0	\$65,000
29	Streets	Sidewalk Repair	2	25	General Fund	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$0	\$60,000
178	Streets	Storage Rack for Salt Spreaders and Dump Box Covers	2	30	General Fund	\$0	\$0	\$8,000	\$0	\$0	\$0	\$0	\$8,000
41	Streets	Sidewalk Ramp Installation	3	50	General Fund	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$0	\$60,000
		<b>Total Streets</b>				\$85,000	\$20,000	\$28,000	\$20,000	\$20,000	\$20,000	\$0	\$193,000
2	Town Hall	Windows	1	30	General Fund	\$12,000	\$12,000	\$0	\$0	\$0	\$0	\$0	\$24,000
44	Town Hall	Town Hall Repairs	2	10	General Fund	\$13,500	\$0	\$0	\$0	\$0	\$0	\$0	\$13,500
43	Town Hall	Soft Water System for Town Hall	3	10	General Fund	\$27,850	\$0	\$0	\$0	\$0	\$0	\$0	\$27,850
		<b>Total Town Hall</b>				\$53,350	\$12,000	\$0	\$0	\$0	\$0	\$0	\$65,350
		<b>TOTAL GENERAL FUND</b>				\$295,530	\$69,500	\$49,500	\$40,000	\$52,750	\$36,000	\$3,200	\$545,480

**City of Marshall**  
**Capital Improvements Program**  
**Expenditures by Department/Fund**

Record #	Department	Project Title	Priority Ranking	Estimated Useful Life	Source of Funding	2011-2012 Expenditure	2012-2013 Expenditure	2013-2014 Expenditure	2014-2015 Expenditure	2015-2016 Expenditure	2016-2017 Expenditure	Trade In or Grant Share	Total Expenditure
<b>MVH Local/Major Streets</b>													
212	Streets	Street Sign Replacement	1	15	Major/Local Streets	\$14,000	\$14,000	\$14,000	\$14,000	\$0	\$0	\$0	\$56,000
56	Streets	Bridge Replacement-Monroe Street @ Rice Creek	2	30	MVH Major/MDOT grant	\$0	\$0	\$27,500	\$0	\$0	\$0	\$443,650	\$471,150
67	Streets	Bridge Replacement-Marshall Ave @ Kalamazoo River	2	30	MVH Major/MDOT grant	\$0	\$0	\$61,500	\$0	\$0	\$0	\$1,011,750	\$1,073,250
209	Streets	Local Street Rehabilitation	2	30	Local Streets	\$130,000	\$130,000	\$130,000	\$130,000	\$130,000	\$130,000	\$130,000	\$910,000
210	Streets	W. Mansion Street Reconstruction and Hughes Street Rehabilitation	2	30	Major Streets	\$37,500	\$93,750	\$0	\$0	\$0	\$0	\$375,000	\$506,250
211	Streets	North Drive and East Drive Rehabilitation	2	30	Major Streets	\$0	\$0	\$37,500	\$93,750	\$0	\$0	\$375,000	\$506,250
213	Streets	Drainage Improvements	2	20	Major/Local Streets	\$12,500	\$0	\$0	\$0	\$0	\$0	\$0	\$12,500
60	Streets	Washington/Elm Improvements	3	30	MVH Local	0	\$237,000	\$0	\$0	\$0	\$0	\$0	\$237,000
<b>TOTAL MVH LOCAL/MAJOR STREETS FUNDS</b>						\$194,000	\$474,750	\$270,500	\$237,750	\$130,000	\$130,000	\$2,335,400	\$3,772,400
<b>Marshall House</b>													
53	Marshall House	Apartment Remodelling - 100 Units	1	15	Marshall House Fund and Bond Issuance Building Authority	\$113,266	\$110,292	\$107,319	\$104,346	\$101,373	\$98,399	\$0	\$634,995
70	Marshall House	Annual Vacancy Maintenance	1	5	Marshall House Fund	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$0	\$60,000
<b>TOTAL MARSHALL HOUSE FUND</b>						\$123,266	\$120,292	\$117,319	\$114,346	\$111,373	\$108,399	\$0	\$694,995
<b>Motor Pool</b>													
248	Motor Pool	Vehicle Lift with Support Jacks	2	20	Motor Pool & DART	\$0	\$0	\$40,000	\$0	\$0	\$0	\$0	\$40,000
251	Motor Pool	Diagnostic Software and Equipment	2	3	Motor Pool & DART	\$0	\$6,000	\$0	\$0	\$0	\$0	\$0	\$75,000
179	Motor Pool	Painting of DPW Building	3	20	Motor Pool	\$25,000	\$0	\$0	\$0	\$0	\$0	\$0	\$25,000

**City of Marshall**  
**Capital Improvements Program**  
**Expenditures by Department/Fund**

Record #	Department	Project Title	Priority Ranking	Estimated Useful Life	Source of Funding	2011-2012 Expenditure	2012-2013 Expenditure	2013-2014 Expenditure	2014-2015 Expenditure	2015-2016 Expenditure	2016-2017 Expenditure	Trade In or Grant Share	Total Expenditure
		TOTAL MOTOR POOL FUND				\$25,000	\$6,000	\$40,000	\$0	\$0	\$0	\$0	\$140,000
		<b>Public Services Building Operations</b>											
181	PSB Operations	PSB Parking Lot and Drive Crack Filling, Patching, and Sealing	2	20	Department Cost Allocation/Rents	\$23,000	\$0	\$0	\$0	\$0	\$0	\$0	\$23,000
182	PSB Operations	PSB Environmental Reclamation Project	2		Department Cost Allocation/Rents	\$155,000	\$0	\$0	\$0	\$0	\$0	\$0	\$155,000
		TOTAL DEPARTMENT COST ALLOCATIONS-VARIOUS FUNDS				\$178,000	\$0	\$0	\$0	\$0	\$0	\$0	\$178,000
		<b>Recreation</b>											
58	Recreation	Replacement of Athletic Field Light System	3	15	Recreation Fund - Bond	\$0	\$0	\$0	\$0	\$300,000	\$0	\$0	\$300,000
77	Recreation	Seal Coating & Striping Athletic Field Parking Lot	3	5	Recreation Fund	\$0	\$0	\$7,500	\$0	\$0	\$0	\$0	\$7,500
82	Recreation	Athletic Field Sign	4	20	Recreation Fund	\$0	\$8,000	\$0	\$0	\$0	\$0	\$0	\$8,000
122	Recreation	Dug Outs	4	10	Recreation Fund	\$0	\$0	\$41,200	\$0	\$0	\$0	\$0	\$41,200
		TOTAL RECREATION FUND				\$0	\$8,000	\$48,700	\$0	\$300,000	\$0	\$0	\$356,700
		<b>Waste Water</b>											
45	Waste Water	4" Emergency By Pass Pump	1	15	Waste Water Fund	\$14,000	\$0	\$0	\$0	\$0	\$0	\$0	\$14,000
132	Waste Water	I & I Study (Inflow and Infiltration)	1	15	Waste Water Fund	\$0	\$0	\$60,000	\$0	\$0	\$0	\$0	\$60,000
134	Waste Water	Gear Box Replacement	1	20	Waste Water Fund	\$25,000	\$0	\$0	\$0	\$0	\$0	\$0	\$25,000
241	Waste Water	New Driveway/Electric Gate	1	30	Waste Water Fund	\$30,000	\$0	\$0	\$0	\$0	\$0	\$0	\$30,000
244	Waste Water	Wastewater SCADA Replacement	1	10	Waste Water Fund	\$130,000	\$0	\$0	\$0	\$0	\$0	\$0	\$130,000
11	Waste Water	Primary Sludge Pump	2	20	Waste Water Fund	\$0	\$0	\$20,000	\$0	\$0	\$0	\$0	\$20,000

**City of Marshall**  
**Capital Improvements Program**  
 Expenditures by Department/Fund

Record #	Department	Project Title	Priority Ranking	Estimated Useful Life	Source of Funding	2011-2012 Expenditure	2012-2013 Expenditure	2013-2014 Expenditure	2014-2015 Expenditure	2015-2016 Expenditure	2016-2017 Expenditure	Trade In or Grant Share	Total Expenditure
34	Waste Water	Raw Sludge Tank Mixer	2	20	Waste Water Fund	\$0	\$20,000	\$0	\$0	\$0	\$0	\$0	\$20,000
51	Waste Water	Valve Replacement	2	30	Waste Water Fund	\$20,000	\$20,000	\$0	\$0	\$0	\$0	\$0	\$40,000
66	Waste Water	Replace High School Lift Station	2	25	Waste Water Fund	\$0	\$90,000	\$0	\$0	\$0	\$0	\$0	\$90,000
69	Waste Water	Replace Industrial Park Lift Station	2	25	Waste Water Fund	\$0	\$0	\$125,000	\$0	\$0	\$0	\$0	\$125,000
157	Waste Water	Crack Sealing and Seal Coating WWTP Drive	2	10	Waste Water Fund	\$0	\$9,300	\$0	\$0	\$0	\$0	\$0	\$9,300
242	Waste Water	Stand-by Generator	2	30	Waste Water Fund	\$275,000	\$0	\$0	\$0	\$0	\$0	\$0	\$275,000
243	Waste Water	In-line Muffin Monster Exchange	2	5	Waste Water Fund	\$0	\$8,150	\$8,150	\$0	\$0	\$0	\$0	\$16,300
52	Waste Water	Electrical Controls Replacement	3	30	Waste Water Fund	\$0	\$0	\$65,000	\$0	\$0	\$0	\$0	\$65,000
		<b>TOTAL WASTE WATER FUND</b>				\$494,000	\$147,450	\$278,150	\$0	\$0	\$0	\$0	\$919,600
	<b>Water</b>												
245	Water	S. Linden Water Main Replacement	1	40	Water Fund	\$125,000	\$0	\$0	\$0	\$0	\$0	\$0	\$125,000
196	Water	Valve/Hydrant Replacement	2	50	Water Fund-Revenue Bond	\$30,000	\$0	\$0	\$0	\$0	\$0	\$0	\$30,000
214	Water	Replace Water Main and Services on N. Marshall from Michigan to Forest	2	30	Water Fund	\$300,000	\$0	\$0	\$0	\$0	\$0	\$0	\$300,000
215	Water	Replace Water Main and Services on W. Mansion St.	2	30	Water Fund	\$0	\$140,000	\$0	\$0	\$0	\$0	\$0	\$140,000
216	Water	Black top driveway at the Water Treatment Plant	2	20	Water Fund	\$15,000	\$0	\$0	\$0	\$0	\$0	\$0	\$15,000
218	Water	Replace 4" Water Main on S. Marshall, Jefferson, S. Eagle and Brewer	2	30	Water Fund	\$0	\$0	\$530,000	\$0	\$0	\$0	\$0	\$530,000
17	Water	Replace Chlorine Gas with Sodium Hypochlorite	3	20	Water Fund	\$0	\$0	\$0	\$100,000	\$0	\$0	\$0	\$100,000
59	Water	Install New Water Service on Washington & Elm	3	30	Water Fund	0	\$45,000	\$0	\$0	\$0	\$0	\$0	\$45,000

City of Marshall  
Capital Improvements Program  
 Expenditures by Department/Fund

Record #	Department	Project Title	Priority Ranking	Estimated Useful Life	Source of Funding	2011-2012 Expenditure	2012-2013 Expenditure	2013-2014 Expenditure	2014-2015 Expenditure	2015-2016 Expenditure	2016-2017 Expenditure	Trade In or Grant Share	Total Expenditure
73	Water	Replace Well House #4	3	30	Water Fund	\$0	\$0	\$0	\$30,000	\$0	\$0	\$0	\$30,000
		<b>TOTAL WATER FUND</b>				\$470,000	\$185,000	\$530,000	\$130,000	\$0	\$0	\$0	\$1,315,000



City of Marshall – Council

# **Capital Improvements Program**

**Expenditures by Priority/Department-Fund**

**City of Marshall**  
**Capital Improvements Program**  
**Expenditures by Priority/Department-Fund**

Record #	Department	Project Title	Priority Ranking	Estimated Useful Life	Source of Funding	2011-2012 Expenditure	2012-2013 Expenditure	2013-2014 Expenditure	2014-2015 Expenditure	2015-2016 Expenditure	2016-2017 Expenditure	Trade In or Grant Share	Total Expenditure
	<b>Priority 1</b>												
25	Electric	Meter / Relay Calibration	1	3	Electric Fund	\$0	\$0	\$25,000	\$0	\$0	\$0	\$0	\$25,000
168	Electric	Switchgear Expansion	1	25	Electric Fund	\$75,000	\$0	\$0	\$0	\$0	\$0	\$0	\$75,000
221	Electric	2.4kv Switchgear Replacement Completion	1	30	Electric Fund	\$250,000	\$0	\$0	\$0	\$0	\$0	\$0	\$250,000
225	Electric	Station Battery Replacement	1	20	Electric Fund	\$25,000	\$0	\$0	\$0	\$0	\$0	\$0	\$25,000
229	Electric	Pole Replacement and Line Reconstruction	1	50	Electric Fund - Bond	\$75,000	\$75,000	\$75,000	\$80,000	\$80,000	\$80,000	\$0	\$465,000
230	Electric	Circuit Reclosers and SCADA Operated Sectionalizing	1	20	Electric Fund	\$50,000	\$50,000	\$50,000	\$50,000	\$0	\$0	\$0	\$200,000
231	Electric	Regulators	1	25	Electric Fund	\$55,000	\$55,000	\$55,000	\$55,000	\$0	\$0	\$0	\$220,000
234	Electric	Primary Splice Box for Airport Project	1	30	Electric Fund	\$9,000	\$0	\$0	\$0	\$0	\$0	\$0	\$9,000
		<b>Total Electric</b>				\$539,000	\$180,000	\$205,000	\$185,000	\$80,000	\$80,000	\$0	\$1,269,000
246	Chapel	Chapel Ramp	1	20	General Fund	\$15,000	\$0	\$0	\$0	\$0	\$0	\$0	\$15,000
247	Chapel	Chapel Painting and Repairs	1	5	General Fund	\$12,000	\$0	\$0	\$0	\$0	\$0	\$0	\$12,000
		<b>Total Chapel</b>				\$27,000	\$0	\$0	\$0	\$0	\$0	\$0	\$27,000
76	Fire	Structural Fire Fighting Protective Clothing Purchase	1	10	General Fund or FEMA Grant with a 5% match	\$8,500	\$9,000	\$9,500	\$10,000	\$10,500	\$11,000	\$0	\$58,500
153	Fire	Personal Alert Safety System (P.A.S.S. Device) Replacement	1	5	General Fund	\$0	\$0	\$0	\$0	\$12,250	\$0	\$0	\$12,250
154	Fire	Radio Replacement	1	20	General Fund	\$10,300	\$0	\$0	\$0	\$0	\$0	\$0	\$10,300
220	Fire	Replace 5" Supply Line Fire Hose	1	20	General Fund	\$6,000	\$6,000	\$6,000	\$0	\$0	\$0	\$0	\$18,000
		<b>Total Fire</b>				\$24,800	\$15,000	\$15,500	\$10,000	\$22,750	\$11,000	\$0	\$99,050

**City of Marshall**  
**Capital Improvements Program**  
**Expenditures by Priority/Department-Fund**

Record #	Department	Project Title	Priority Ranking	Estimated Useful Life	Source of Funding	2011-2012 Expenditure	2012-2013 Expenditure	2013-2014 Expenditure	2014-2015 Expenditure	2015-2016 Expenditure	2016-2017 Expenditure	Trade In or Grant Share	Total Expenditure
55	Parks	Paving North Ketchum Park Parking Lot	1	20	General Fund	\$20,000	\$0	\$0	\$0	\$0	\$0	\$0	\$20,000
207	Parks	Mutch installation	1	10	General fund	\$8,000	\$0	\$0	\$0	\$0	\$0	\$0	\$8,000
208	Parks	Brooks Memorial Fountain Upgrades	1	15	Brooks Memorial Fountain Maintenance-General Fund	\$5,000	\$0	\$0	\$0	\$0	\$0	\$0	\$5,000
		<b>Total Parks</b>				\$33,000	\$0	\$0	\$0	\$0	\$0	\$0	\$33,000
236	Police	Protective Vests	1	5	General Fund or Grant	\$0	\$0	\$0	\$4,000	\$5,000	\$0	\$0	\$9,000
238	Police	Police Vehicle Change-over	1	10	General Fund	\$6,000	\$12,000	\$6,000	\$6,000	\$5,000	\$5,000	\$3,200	\$43,200
240	Police	Rugged Computers	1	5	General Fund	\$5,380	\$0	\$0	\$0	\$0	\$0	\$0	\$5,380
		<b>Total Police</b>				\$11,380	\$12,000	\$6,000	\$10,000	\$10,000	\$5,000	\$3,200	\$57,580
198	Streets	Union Street Drainage Improvements	1	20	General Fund	\$65,000	\$0	\$0	\$0	\$0	\$0	\$0	\$65,000
212	Streets	Street Sign Replacement	1	15	Major/Local Streets	\$14,000	\$14,000	\$14,000	\$14,000	\$0	\$0	\$0	\$56,000
		<b>Total Streets</b>				\$79,000	\$14,000	\$14,000	\$14,000	\$0	\$0	\$0	\$121,000
2	Town Hall	Windows	1	30	General Fund	\$12,000	\$12,000	\$0	\$0	\$0	\$0	\$0	\$24,000
		<b>Total Town Hall</b>				\$12,000	\$12,000	\$0	\$0	\$0	\$0	\$0	\$24,000
53	Marshall House	Apartment Remodelling - 100 Units	1	15	Marshall House Fund and Bond Issuance Building Authority	\$113,266	\$110,292	\$107,319	\$104,346	\$101,373	\$98,399	\$0	\$634,995
70	Marshall House	Annual Vacancy Maintenance	1	5	Marshall House Fund	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$0	\$60,000
		<b>Total Marshall House</b>				\$123,266	\$120,292	\$117,319	\$114,346	\$111,373	\$108,399	\$0	\$694,995
45	Waste Water	4" Emergency By Pass Pump	1	15	Waste Water Fund	\$14,000	\$0	\$0	\$0	\$0	\$0	\$0	\$14,000
132	Waste Water	I & I Study (inflow and infiltration)	1	15	Waste Water Fund	\$0	\$0	\$60,000	\$0	\$0	\$0	\$0	\$60,000

**City of Marshall**  
**Capital Improvements Program**  
**Expenditures by Priority/Department-Fund**

Record #	Department	Project Title	Priority Ranking	Estimated Useful Life	Source of Funding	2011-2012 Expenditure	2012-2013 Expenditure	2013-2014 Expenditure	2014-2015 Expenditure	2015-2016 Expenditure	2016-2017 Expenditure	Trade In or Grant Share	Total Expenditure
134	Waste Water	Gear Box Replacement	1	20	Waste Water Fund	\$25,000	\$0	\$0	\$0	\$0	\$0	\$0	\$25,000
241	Waste Water	New Driveway/Electric Gate	1	30	Waste Water Fund	\$30,000	\$0	\$0	\$0	\$0	\$0	\$0	\$30,000
244	Waste Water	Wastewater SCADA Replacement	1	10	Waste Water Fund	\$130,000	\$0	\$0	\$0	\$0	\$0	\$0	\$130,000
		<b>Total Waste Water</b>				\$199,000	\$0	\$60,000	\$0	\$0	\$0	\$0	\$259,000
245	Water	S. Linden Water Main Replacement	1	40	Water Fund	\$125,000	\$0	\$0	\$0	\$0	\$0	\$0	\$125,000
		<b>Total Water</b>				\$125,000	\$0	\$0	\$0	\$0	\$0	\$0	\$125,000
		<b>TOTAL PRIORITY 1</b>				\$1,173,446	\$353,292	\$417,819	\$333,346	\$224,123	\$204,399	\$3,200	\$2,709,625
		<b>Priority 2</b>											
114	Airport	Taxiway Rehabilitation	2	20	Airport Fund 2 1/2%, FAA Allocation 95%, State 2 1/2%	\$8,625	\$0	\$0	\$0	\$0	\$0	\$380,750	\$389,375
202	Airport	AWOS replacement	2	20	Airport Fund 2 1/2%, FAA Allocation 95%, State 2 1/2%	\$1,325	\$0	\$0	\$0	\$0	\$0	\$51,675	\$53,000
203	Airport	Design Parallel Taxiway Rehabilitation	2	1	Airport Fund 2 1/2%, FAA Allocation 95%, State 2 1/2%	\$400	\$0	\$0	\$0	\$0	\$0	\$19,400	\$19,800
204	Airport	Terminal Building Improvements	2	20	Airport Fund 2 1/2%, FAA Allocation 95%, State 2 1/2%	\$0	\$3,750	\$0	\$0	\$0	\$0	\$153,750	\$157,500
205	Airport	Major Improvements or Parallel Runway	2	20	Airport Fund 2 1/2%, FAA Allocation 95%, State 2 1/2%	\$0	\$0	\$0	\$9,500	\$0	\$0	\$9,861	\$19,361
206	Airport	Taxiway Rehabilitation	2	20	Airport Fund 2 1/2%, FAA Allocation 95%, State 2 1/2%	\$0	\$0	\$0	\$0	\$0	\$7,250	\$282,750	\$290,000
		<b>Total Airport</b>				\$10,350	\$3,750	\$0	\$9,500	\$0	\$7,250	\$878,186	\$909,036
38	Cemetery	Cemetery Water Distribution System	2	20	Cemetery Trust Fund and General Fund	\$45,000	\$0	\$0	\$0	\$0	\$0	\$0	\$45,000
		<b>Total Cemetery</b>				\$45,000	\$0	\$0	\$0	\$0	\$0	\$0	\$45,000
143	Downtown Development Authority	Parking lot pavement sealing	2	5	DDA Fund	\$0	\$10,000	\$10,000	\$10,000	\$0	\$0	\$0	\$30,000

**City of Marshall**  
**Capital Improvements Program**  
**Expenditures by Priority/Department-Fund**

Record #	Department	Project Title	Priority Ranking	Estimated Useful Life	Source of Funding	2011-2012 Expenditure	2012-2013 Expenditure	2013-2014 Expenditure	2014-2015 Expenditure	2015-2016 Expenditure	2016-2017 Expenditure	Trade In or Grant Share	Total Expenditure
		<b>Total DDA</b>				\$0	\$10,000	\$10,000	\$10,000	\$0	\$0	\$0	\$30,000
4	Electric	Capacitor Banks	2	20	Electric Fund	\$22,000	\$0	\$0	\$0	\$0	\$0	\$0	\$22,000
19	Electric	Raceway/Dam Maintenance	2	20	Electric Fund	\$15,000	\$0	\$15,000	\$0	\$15,000	\$0	\$0	\$45,000
23	Electric	Air Compressor Replacement	2	30	Electric Fund	\$15,000	\$15,000	\$15,000	\$0	\$0	\$0	\$0	\$45,000
28	Electric	Power House Roof Repairs	2	25	Electric Fund	\$0	\$0	\$60,000	\$0	\$0	\$0	\$0	\$60,000
30	Electric	Automated Load Control of Hydro	2	25	Electric Fund	\$50,000	\$0	\$0	\$0	\$0	\$0	\$0	\$50,000
31	Electric	Upgrade Plant #1 House Power Panels	2	30	Electric Fund	\$7,500	\$7,500	\$7,500	\$0	\$0	\$0	\$0	\$22,500
32	Electric	Upgrade Lube Oil Filter Systems on #2 & #5 Engines	2	30	Electric Fund	\$7,500	\$0	\$0	\$0	\$0	\$0	\$0	\$7,500
33	Electric	Upgrade Lube Oil Heating Systems on #2 & #5 Engines	2	30	Electric Fund	\$5,000	\$0	\$0	\$0	\$0	\$0	\$0	\$5,000
46	Electric	Upgrade Engine Protection Systems #2 & #5	2	20	Electric Fund	\$15,000	\$0	\$0	\$0	\$0	\$0	\$0	\$15,000
49	Electric	Engine #3 & #6 gauge panel replacement	2	20	Electric Fund	\$80,000	\$80,000	\$0	\$0	\$0	\$0	\$0	\$160,000
57	Electric	Overhaul East Well pump	2	10	Electric Fund	\$15,000	\$0	\$0	\$0	\$0	\$0	\$0	\$15,000
74	Electric	Overhaul West Well pump	2	10	Electric Fund	\$0	\$15,000	\$0	\$0	\$0	\$0	\$0	\$15,000
93	Electric	Overhaul #3 Engine Raw Water Pump	2	10	Electric Fund	\$12,000	\$0	\$0	\$0	\$0	\$0	\$0	\$12,000
103	Electric	Installation of Circuit Reclosers	2	10	Electric Fund	\$22,000	\$0	\$0	\$0	\$0	\$0	\$0	\$22,000
147	Electric	Breaker Maintenance	2	5	Electric Fund	\$0	\$0	\$0	\$25,000	\$0	\$0	\$0	\$25,000
170	Electric	Replace Protective Relaying - Generators	2	20	Electric Fund	\$0	\$36,000	\$0	\$0	\$0	\$0	\$0	\$36,000
171	Electric	Replace Protective Relaying - Transformers	2	20	Electric Fund	\$0	\$17,000	\$0	\$0	\$0	\$0	\$0	\$17,000

**City of Marshall**  
**Capital Improvements Program**  
**Expenditures by Priority/Department-Fund**

Record #	Department	Project Title	Priority Ranking	Estimated Useful Life	Source of Funding	2011-2012 Expenditure	2012-2013 Expenditure	2013-2014 Expenditure	2014-2015 Expenditure	2015-2016 Expenditure	2016-2017 Expenditure	Trade In or Grant Share	Total Expenditure
172	Electric	Replace Protective Relaying - Distribution	2	20	Electric Fund	\$48,000	\$48,000	\$0	\$0	\$0	\$0	\$0	\$96,000
222	Electric	NESHAP/ RICE Compliance	2	25	Electric Fund - Bond	\$251,000	\$124,000	\$0	\$0	\$0	\$0	\$0	\$375,000
224	Electric	Remote Terminal Unit (RTU) Replacement @ Pearl Street Substation and Plant 2	2	10	Electric Fund	\$0	\$60,000	\$25,000	\$0	\$0	\$0	\$0	\$85,000
226	Electric	Distribution Stringing Blocks	2	50	Electric Fund	\$8,000	\$6,000	\$0	\$0	\$0	\$0	\$0	\$14,000
227	Electric	Infrared Camera and Training	2	10	Electric Fund	\$0	\$10,000	\$0	\$0	\$0	\$0	\$0	\$10,000
		<b>Total Electric</b>				\$573,000	\$418,500	\$122,500	\$25,000	\$15,000	\$0	\$0	\$1,154,000
12	Parks	Purchase New Playground Equipment	2	25	General Fund	\$45,000	\$0	\$0	\$0	\$0	\$0	\$0	\$45,000
183	Parks	North Ketchum Park Time Locks With New Doors	2	30	General Fund	\$9,000	\$0	\$0	\$0	\$0	\$0	\$0	\$9,000
		<b>Total Parks</b>				\$54,000	\$0	\$0	\$0	\$0	\$0	\$0	\$54,000
237	Police	Forensic Equipment	2	15	General Fund or Grant	\$0	\$9,500	\$0	\$0	\$0	\$0	\$0	\$9,500
239	Police	Police Protective Shelter / Equipment Storage	2	20	General Fund	\$7,000	\$0	\$0	\$0	\$0	\$0	\$0	\$7,000
		<b>Total Police</b>				\$7,000	\$9,500	\$0	\$0	\$0	\$0	\$0	\$16,500
44	Town Hall	Town Hall Repairs	2	10	General Fund	\$13,500	\$0	\$0	\$0	\$0	\$0	\$0	\$13,500
		<b>Total Town Hall</b>				\$13,500	\$0	\$0	\$0	\$0	\$0	\$0	\$13,500
29	Streets	Sidewalk Repair	2	25	General Fund	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$0	\$60,000
178	Streets	Storage Rack for Salt Spreaders and Dump Box Covers	2	30	General Fund	\$0	\$0	\$8,000	\$0	\$0	\$0	\$0	\$8,000
56	Streets	Bridge Replacement-Monroe Street @ Rice Creek	2	30	MVH Major/MDOT grant	\$0	\$0	\$27,500	\$0	\$0	\$0	\$0	\$443,650
67	Streets	Bridge Replacement-Marshall Ave @ Kalamazoo River	2	30	MVH Major/MDOT grant	\$0	\$0	\$61,500	\$0	\$0	\$0	\$0	\$1,011,750

**City of Marshall**  
**Capital Improvements Program**  
**Expenditures by Priority/Department-Fund**

Record #	Department	Project Title	Priority Ranking	Estimated Useful Life	Source of Funding	2011-2012 Expenditure	2012-2013 Expenditure	2013-2014 Expenditure	2014-2015 Expenditure	2015-2016 Expenditure	2016-2017 Expenditure	Trade In or Grant Share	Total Expenditure
209	Streets	Local Street Rehabilitation	2	30	Local Streets	\$130,000	\$130,000	\$130,000	\$130,000	\$130,000	\$130,000	\$130,000	\$910,000
210	Streets	W. Mansion Street Reconstruction and Hughes Street Rehabilitation	2	30	Major Streets	\$37,500	\$63,750	\$0	\$0	\$0	\$0	\$375,000	\$506,250
211	Streets	North Drive and East Drive Rehabilitation	2	30	Major Streets	\$0	\$0	\$37,500	\$63,750	\$0	\$0	\$375,000	\$506,250
213	Streets	Drainage Improvements	2	20	Major/Local Streets	\$12,500	\$0	\$0	\$0	\$0	\$0	\$0	\$12,500
		<b>Total Streets</b>				\$190,000	\$233,750	\$274,500	\$233,750	\$140,000	\$140,000	\$2,335,400	\$3,547,400
248	Motor Pool	Vehicle Lift with Support Jacks	2	20	Motor Pool & DART	\$0	\$0	\$40,000	\$0	\$0	\$0	\$0	\$40,000
251	Motor Pool	Diagnostic Software and Equipment	2	3	Motor Pool & DART	\$0	\$6,000	\$0	\$0	\$0	\$0	\$0	\$75,000
		<b>Total Motor Pool</b>				\$0	\$6,000	\$40,000	\$0	\$0	\$0	\$0	\$115,000
181	PSB Operations	PSB Parking Lot and Drive Crack Filling, Patching, and Sealing	2	20	Department Cost Allocation/Rents	\$23,000	\$0	\$0	\$0	\$0	\$0	\$0	\$23,000
182	PSB Operations	PSB Environmental Reclamation Project	2		Department Cost Allocation/Rents	\$155,000	\$0	\$0	\$0	\$0	\$0	\$0	\$155,000
		<b>Total PSB Operations</b>				\$178,000	\$0	\$0	\$0	\$0	\$0	\$0	\$178,000
11	Waste Water	Primary Sludge Pump	2	20	Waste Water Fund	\$0	\$0	\$20,000	\$0	\$0	\$0	\$0	\$20,000
34	Waste Water	Raw Sludge Tank Mixer	2	20	Waste Water Fund	\$0	\$20,000	\$0	\$0	\$0	\$0	\$0	\$20,000
51	Waste Water	Valve Replacement	2	30	Waste Water Fund	\$20,000	\$20,000	\$0	\$0	\$0	\$0	\$0	\$40,000
68	Waste Water	Replace High School Lift Station	2	25	Waste Water Fund	\$0	\$90,000	\$0	\$0	\$0	\$0	\$0	\$90,000
69	Waste Water	Replace Industrial Park Lift Station	2	25	Waste Water Fund	\$0	\$0	\$125,000	\$0	\$0	\$0	\$0	\$125,000
157	Waste Water	Crack Sealing and Seal Coating WWTP Drive	2	10	Waste Water Fund	\$0	\$9,300	\$0	\$0	\$0	\$0	\$0	\$9,300
242	Waste Water	Stand-by Generator	2	30	Waste Water Fund	\$275,000	\$0	\$0	\$0	\$0	\$0	\$0	\$275,000

**City of Marshall**  
**Capital Improvements Program**  
**Expenditures by Priority/Department-Fund**

Record #	Department	Project Title	Priority Ranking	Estimated Useful Life	Source of Funding	2011-2012 Expenditure	2012-2013 Expenditure	2013-2014 Expenditure	2014-2015 Expenditure	2015-2016 Expenditure	2016-2017 Expenditure	Trade In or Grant Share	Total Expenditure
243	Waste Water	In-line Muffin Monster Exchange	2	5	Waste Water Fund	\$0	\$8,150	\$8,150	\$0	\$0	\$0	\$0	\$16,300
		<b>Total Waste Water</b>				\$295,000	\$147,450	\$153,150	\$0	\$0	\$0	\$0	\$595,600
196	Water	Valve/Hydrant Replacement	2	50	Water Fund-Revenue Bond	\$30,000	\$0	\$0	\$0	\$0	\$0	\$0	\$30,000
214	Water	Replace Water Main and Services on N. Marshall from Michigan to Forest	2	30	Water Fund	\$300,000	\$0	\$0	\$0	\$0	\$0	\$0	\$300,000
215	Water	Replace Water Main and Services on W. Mansion St.	2	30	Water Fund	\$0	\$140,000	\$0	\$0	\$0	\$0	\$0	\$140,000
216	Water	Black top driveway at the Water Treatment Plant	2	20	Water Fund	\$15,000	\$0	\$0	\$0	\$0	\$0	\$0	\$15,000
218	Water	Replace 4" Water Main on S. Marshall, Jefferson, S. Eagle and Brewer	2	30	Water Fund	\$0	\$0	\$530,000	\$0	\$0	\$0	\$0	\$530,000
		<b>Total Water</b>				\$345,000	\$140,000	\$530,000	\$0	\$0	\$0	\$0	\$1,015,000
		<b>TOTAL PRIORITY 2</b>				\$1,710,850	\$668,950	\$1,130,150	\$278,250	\$155,000	\$147,250	\$3,213,586	\$7,673,036
		<b>Priority 3</b>											
40	Cemetery	Cemetery Road Paving Project	3	20	Cemetery Trust Fund and General Fund	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$0	\$0	\$50,000
		<b>Total Cemetery</b>				\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$0	\$0	\$50,000
14	Electric	Recondition #1 Hydro	3	30	Electric Fund	\$0	\$0	\$75,000	\$0	\$0	\$0	\$0	\$75,000
47	Electric	Recondition #3 Hydro	3	30	Electric Fund	\$0	\$0	\$0	\$75,000	\$0	\$0	\$0	\$75,000
64	Electric	Rewind Generator #2	3	30	Electric Fund	\$0	\$0	\$0	\$120,000	\$0	\$0	\$0	\$120,000
72	Electric	Rewind Generator #5	3	30	Electric Fund	\$0	\$0	\$0	\$0	\$132,000	\$0	\$0	\$132,000
165	Electric	Pearl Street Substation Upgrade	3	25	Electric Fund - Bond	\$0	\$0	\$2,000,000	\$3,000,000	\$0	\$0	\$0	\$5,000,000
228	Electric	Circuit Upgrade	3	50	Electric Fund - Bond	\$0	\$1,000,000	\$0	\$0	\$0	\$0	\$0	\$1,000,000



**City of Marshall**  
**Capital Improvements Program**  
**Expenditures by Priority/Department-Fund**

Record #	Department	Project Title	Priority Ranking	Estimated Useful Life	Source of Funding	2011-2012 Expenditure	2012-2013 Expenditure	2013-2014 Expenditure	2014-2015 Expenditure	2015-2016 Expenditure	2016-2017 Expenditure	Trade In or Grant Share	Total Expenditure
232	Electric	Relocation of Overhead Electric in South Alley between Jefferson Street and Hamilton Street and Upgrade	3	35	Electric Fund - Bond	\$0	\$0	\$0	\$0	\$400,000	\$0	\$0	\$400,000
233	Electric	Sherman Drive/Wright Lane Upgrade	3	30	Electric Fund - Bond	\$0	\$0	\$3,000,000	\$0	\$0	\$0	\$0	\$3,000,000
235	Electric	Stuart Lake Circuit Underground Upgrade	3	30	Electric Fund - Bond	\$0	\$800,000	\$0	\$0	\$0	\$0	\$0	\$800,000
		<b>Total Electric</b>				\$0	\$1,800,000	\$5,075,000	\$3,195,000	\$532,000	\$0	\$0	\$10,602,000
41	Streets	Sidewalk Ramp Installation	3	50	General Fund	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$0	\$60,000
60	Streets	Washington/Elm Improvements	3	30	MVH Local	0	\$237,000	\$0	\$0	\$0	\$0	\$0	\$237,000
		<b>Total Streets</b>				\$10,000	\$247,000	\$10,000	\$10,000	\$10,000	\$10,000	\$0	\$297,000
43	Town Hall	Soft Water System for Town Hall	3	10	General Fund	\$27,850	\$0	\$0	\$0	\$0	\$0	\$0	\$27,850
		<b>Total Town Hall</b>				\$27,850	\$0	\$0	\$0	\$0	\$0	\$0	\$27,850
179	Motor Pool	Painting of DPW Building	3	20	Motor Pool	\$25,000	\$0	\$0	\$0	\$0	\$0	\$0	\$25,000
		<b>Total Motor Pool</b>				\$25,000	\$0	\$0	\$0	\$0	\$0	\$0	\$25,000
58	Recreation	Replacement of Athletic Field Light System	3	15	Recreation Fund - Bond	\$0	\$0	\$0	\$0	\$300,000	\$0	\$0	\$300,000
77	Recreation	Seal Coating & Striping Athletic Field Parking Lot	3	5	Recreation Fund	\$0	\$0	\$7,500	\$0	\$0	\$0	\$0	\$7,500
		<b>Total Recreation</b>				\$0	\$0	\$7,500	\$0	\$300,000	\$0	\$0	\$307,500
52	Waste Water	Electrical Controls Replacement	3	30	Waste Water Fund	\$0	\$0	\$65,000	\$0	\$0	\$0	\$0	\$65,000
		<b>Total Waste Water</b>				\$0	\$0	\$65,000	\$0	\$0	\$0	\$0	\$65,000
17	Water	Replace Chlorine Gas with Sodium Hypochlorite	3	20	Water Fund	\$0	\$0	\$0	\$100,000	\$0	\$0	\$0	\$100,000
59	Water	Install New Water Service on Washington & Elm	3	30	Water Fund	0	\$45,000	\$0	\$0	\$0	\$0	\$0	\$45,000

**City of Marshall**  
**Capital Improvements Program**  
**Expenditures by Priority/Department-Fund**

Record #	Department	Project Title	Priority Ranking	Estimated Useful Life	Source of Funding	2011-2012 Expenditure	2012-2013 Expenditure	2013-2014 Expenditure	2014-2015 Expenditure	2015-2016 Expenditure	2016-2017 Expenditure	Trade In or Grant Share	Total Expenditure
73	Water	Replace Well House #4	3	30	Water Fund	\$0	\$0	\$0	\$30,000	\$0	\$0	\$0	\$30,000
		<b>Total Water</b>				\$0	\$45,000	\$0	\$130,000	\$0	\$0	\$0	\$175,000
		<b>TOTAL PRIORITY 3</b>				\$72,850	\$2,102,000	\$5,167,500	\$3,345,000	\$852,000	\$10,000	\$0	\$11,549,350
		<b>Priority 4</b>											
21	Electric	Upgrade Transformer in South Substation	4	30	Electric Fund	\$0	\$0	\$0	\$0	\$200,000	\$0	\$0	\$200,000
90	Electric	Retrofit Breakers in Plant #1 Switchgear	4	30	Electric Fund	\$0	\$0	\$50,000	\$50,000	\$50,000	\$0	\$0	\$150,000
		<b>Total Electric</b>				\$0	\$0	\$50,000	\$50,000	\$250,000	\$0	\$0	\$350,000
82	Recreation	Athletic Field Sign	4	20	Recreation Fund	\$0	\$8,000	\$0	\$0	\$0	\$0	\$0	\$8,000
122	Recreation	Dug Outs	4	10	Recreation Fund	\$0	\$0	\$41,200	\$0	\$0	\$0	\$0	\$41,200
		<b>Total Recreation</b>				\$0	\$8,000	\$41,200	\$0	\$0	\$0	\$0	\$49,200
		<b>TOTAL PRIORITY 4</b>				\$0	\$8,000	\$91,200	\$50,000	\$250,000	\$0	\$0	\$398,200

City of Marshall – Council

# **Capital Improvements Program**

Project Description

**City of Marshall**  
**Capital Improvements Program**  
**Project Description**

Record #	Department	Project Title	Priority Ranking	Project Narrative/Purpose	Impact on Operating Budget
2	Town Hall	Windows	1	Repair North & West windows and install interior storms.	Energy efficiency
4	Electric	Capacitor Banks	2	To provide quality electricity to our customers while reducing kvar charges.	Capacitors save money by releasing system capacity, reducing power losses, improving voltage conditions and eliminating power factor penalties. Power losses are directly connected to environmental load, lowering losses is also an environmental gain.
11	Waste Water	Primary Sludge Pump	2	To replace 34 year old pumps.	\$1,000 depreciation.
12	Parks	Purchase New Playground Equipment	2	New playground equipment will be needed to replace equipment and to meet accessibility standards as indicated in the Parks & Rec Master Plan.	No effect on operational revenues and expenditures anticipated.
14	Electric	Recondition #1 Hydro	3	Improve the efficiency of the hydro power supply generated by the river flow.	\$2,500 depreciation expense per year.
17	Water	Replace Chlorine Gas with Sodium Hypochlorite	3	Replace chlorine gas used for disinfecting the water with sodium hypochlorite. This is for safety reason. Presently the City is in compliance with MDEQ but regulations could change.	Increase in operational costs because sodium hypochlorite is a more expensive alternative. \$5,000 depreciation.
19	Electric	Raceway/Dam Maintenance	2	Maintain the structures for safe & efficient operations to meet FERC mandates/licensing. This is a 5-year maintenance program of the concrete structures.	No direct cost or savings. \$750 depreciation.
21	Electric	Upgrade Transformer in South Substation	4	The transformer is circa 1972 that tests okay as of now but will need replacement in the future.	No direct cost or savings. \$6,666 depreciation.
23	Electric	Air Compressor Replacement	2	Replace one air compressor each of the years listed. This is necessary to maintain the air supply for proper control and starting of the diesel engines.	No direct cost or savings. \$500 depreciation.
25	Electric	Meter / Relay Calibration	1	Regular inspection and maintenance of relays is paramount in protecting electrical systems from unscheduled outages. Relays will nuisance trip when set too low or if not coordinated, the wrong relay may trip and bring down a large portion of the system. Many factors can influence the operation of protective relays. These include changes in load, replacement of equipment, dust or dirt from the environment or age.	To provide a safe efficient operation we do meter calibration to maintain accuracy, relay calibration to maintain safety and protection of the distribution lines and infrastructure.
28	Electric	Power House Roof Repairs	2	Maintain existing facilities.	Deferring maintenance of the structure could result in more costly damage and repairs.
29	Streets	Sidewalk Repair	2	Repair to existing sidewalks throughout the City.	Reduce liability risk associated with tripping hazards.
30	Electric	Automated Load Control of Hydro	2	FERC & MDNR are requesting an automated Run of River operation be installed and maintained. This will maintain the water level through the hydro plant, even when unattended, to meet these requirements.	No direct cost. Indirect savings by meeting FERC licensing recommendations.

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Record #	Department	Project Title	Priority Ranking	Project Narrative/Purpose	Impact on Operating Budget
31	Electric	Upgrade Plant #1 House Power Panels	2	Maintain the equipment for safe and efficient operation by upgrading fuse-type panels with newer circuit breaker panels through a 4-year program. Old panels and wiring have been in place for 50+ years and could become a fire hazard.	No direct cost or savings.
32	Electric	Upgrade Lube Oil Filter Systems on #2 & #5 Engines	2	Upgrade piece meal systems with new, more efficient equipment.	Reduction in electric usage/charges due to a more energy efficient system. Indirect savings due to better filtering of the lube oils (use oil longer, less wear on the equipment).
33	Electric	Upgrade Lube Oil Heating Systems on #2 & #5 Engines	2	Upgrade piece meal systems with new, more efficient equipment.	Reduction in electric usage/charges due to a more energy efficient system.
34	Waste Water	Raw Sludge Tank Mixer	2	Replace the worn out gear box and mixer. The mixing of raw biosolids are done prior to the thickening process.	Adequate replacement now will save on continual repair costs, \$2,000 depreciation.
38	Cemetery	Cemetery Water Distribution System	2	Replacing the current water distribution system will eliminate line breaks which will result in reduced water usage as a result of the leaks.	Will reduce water loss and maintenance costs due to the age of the current system. Needs to be done prior to road paving.
40	Cemetery	Cemetery Road Paving Project	3	Finishing the drives in the cemetery will provide a clean and solid surface during inclement weather for those visiting their loved ones during a funeral service.	Will reduce the need to haul in gravel to build up the drives so that visitors to the cemetery will not be driving or stepping in the mud.
41	Streets	Sidewalk Ramp Installation	3	Repair of 100 sidewalk ramps at intersections under the City's jurisdiction which do not currently have a handicap accessible ramp.	Increased pedestrian safety.
43	Town Hall	Soft Water System for Town Hall	3	This project will improve the water quality throughout Town Hall. While our water supply in the City of Marshall is very good, the delivery of the water is equally important. In other words, we must upgrade the pipes to ensure good, quality water. The project will also include the replacement of water pipes in the basement of Town Hall that are badly deteriorated and soon to fail. We can ill afford to flood the basement of this building.	The water system throughout Town Hall is extremely old and consists of a myriad of aged pipes. We have been told that a soft water system will extend the life of these water tanks by many years. The service located in the basement is presently galvanized and is soon going to need to be replaced because it is deteriorating so badly. The cost to install the water softener system includes replacement of the old pipes located in the basement. Reduce cleaning of fixtures.
44	Town Hall	Town Hall Repairs	2	Various repairs to Town Hall: -building wall at rear public entrance; -roof above gas water heater in police garage leaking; -exterior windows peeling and some window sills need replacing. Upon completion of repairs, paint all windows, trim and police garage.	None given.

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Record #	Department	Project Title	Priority Ranking	Project Narrative/Purpose	Impact on Operating Budget
45	Waste Water	4" Emergency By Pass Pump	1	The City has a 3" bypass pump that is 10 years old and a 6" pump that is 33 years old. The City depends on these pumps for emergencies such as lift station bypassing and for pumping and cleaning the tanks at the wastewater plant. These pumps are in good working order, however as they age we need to keep a dependable pump at our facility in case of that emergency.	\$800 depreciation.
46	Electric	Upgrade Engine Protection Systems #2 & #5	2	To allow a small work force to operate the equipment as needed by MSCPA and the customers of the City of Marshall.	Due to the limited work force and the anticipated equipment, it is felt engine protection systems should be upgraded closer to today's standards and technology. With only one operator per shift, it is difficult to be with all of the engines at the same time and to catch a sudden drop in pressure or an increase in temperature before damage is done.
47	Electric	Recondition #3 Hydro	3	Improve the efficiency of the hydro power supply generated by the river flow.	\$2,500 depreciation expense per year.
49	Electric	Engine #3 & #6 gauge panel replacement	2	One panel replacement each year will modernize control packages for engine control of the city's two newest, largest and most economical engines most requested to run by MSCPA. It will incorporate PLC control and graphic units using touch screen display, a data highway suitable for SCADA interface, one touch start/stop sequence, critical alarm and shutdown inputs, vibration monitoring and fuel/air ratio.	Presumed savings unknown.
51	Waste Water	Valve Replacement	2	Replace 30 year old valves at the WWTP to ensure quality treatment. Parts for current valves no longer available.	\$1,333 annual depreciation expense. Planned purchase could reduce unanticipated costs if current valves failed.
52	Waste Water	Electrical Controls Replacement	3	Current controls are 30 years old and replacement parts are no longer available	\$2,167 depreciation.
53	Marshall House	Apartment Remodeling - 100 Units	1	Remove old and replace with new cabinets, countertops and floor coverings with vinyl base. Current items from original construction in 1979.	Depreciation expense of \$103,000 annually. Repayment of principal and interest for 15 year debt issue.
55	Parks	Paving North Ketchum Park Parking Lot	1	Asphalt paving of parking lot adjacent to skate park, play structure and restrooms located in north Ketchum Park.	\$300 increase in maintenance costs per year.
56	Streets	Bridge Replacement-Monroe Street @ Rice Creek	2	Replacing of 100 year-old structure utilizing 95% match from MDOT grant.	Increase safety and load handling of the bridge.
57	Electric	Overhaul East Well pump	2	Recommended every 10 years by Peerless Midwest. Replace unsatisfactory facilities to maintain the agency program at current level of performance. This is recommended by yearly testing.	\$1500 depreciation expense annually
58	Recreation	Replacement of Athletic Field Light System	3	The current lights on diamond #1 & #2 are approaching the end of their expected life. The entire system should be replaced.	No effect on operational expenditures.

**City of Marshall**  
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Record #	Department	Project Title	Priority Ranking	Project Narrative/Purpose	Impact on Operating Budget
59	Water	Install New Water Service on Washington & Elm	3	Install water mains on Elm from Washington to Clinton and on Washington from Elm to the fairgrounds. This project would coincide with installation of curb, gutter, draining and street improvements.	Long term increase for maintenance of additional water main offset by potential increased revenue as more customers hook into the city water system. \$1,500 depreciation.
60	Streets	Washington/Elm Improvements	3	Install curb and gutter, asphalt paving and drainage improvements on Elm from Washington to Clinton and on Washington from Elm to the fairgrounds. This project would coincide with installation of water main.	Reduce labor spent on repairing erosion problems.
64	Electric	Rewind Generator #2	3	The insulation is showing signs of aging. It is beginning to lose some of its insulating properties and will need to be replaced eventually in order to continue operating the equipment.	\$4,000 depreciation expense per year.
67	Streets	Bridge Replacement-Marshall Ave @ Kalamazoo River	2	Replacing of 100 year-old structure utilizing 95% match from MDOT grant.	Increase safety and load handling of the bridge.
68	Waste Water	Replace High School Lift Station	2	Due to the age and on-going maintenance to the lift station replacement is recommended. Soft start motors will save on electric and a new type of station would eliminate confined space.	Lift station installed in 1971; newer pumps will reduce maintenance and electric costs. The risk for injury due to confined space is eliminated producing an indirect savings for confined space equipment use/needs & lost productivity. \$3,600 depreciation.
69	Waste Water	Replace Industrial Park Lift Station	2	Due to the age and on-going maintenance to the lift station (located adjacent South Kalamazoo) replacement is recommended. Soft start motors will save on electric and a new type of station would eliminate confined space.	Lift station installed in 1972; newer pumps will reduce maintenance and electric costs. The risk for injury due to confined space is eliminated producing an indirect savings for confined space equipment use/needs & lost productivity. \$5,000 depreciation.
70	Marshall House	Annual Vacancy Maintenance	1	Carpeting, painting, vinyl and (4) ADA tub replacements when units become vacant.	
72	Electric	Rewind Generator #5	3	The insulation is showing signs of aging. It is beginning to lose some of its insulating properties and will need to be replaced eventually in order to continue operating the equipment.	\$4,400 depreciation expense per year.
73	Water	Replace Well House #4	3	Replace the extra small well house that currently houses the #4 well.	Increased cost for heating a larger building. \$1,000 depreciation.
74	Electric	Overhaul West Well pump	2	Recommended every 10 years by Peerless Midwest. Replace unsatisfactory facilities to maintain the agency program at current level of performance. This is recommended by yearly testing.	\$1,500 depreciation per year

**City of Marshall**  
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**Project Description**

Record #	Department	Project Title	Priority Ranking	Project Narrative/Purpose	Impact on Operating Budget
76	Fire	Structural Fire Fighting Protective Clothing Purchase	1	With our turn-out gear being quickly outdated and non-compliant, it is imperative to set up a program to not only keep our fire fighters in current gear but to lessen the financial burden of having to make a one time purchase. This CIP should be placed in perpetuity so as to keep up with the ever changing standards and rules for protective clothing.	Currently the State of Michigan has mandated that all structural fire fighting protective clothing must meet or exceed the 2000 edition of the National Fire Protection Association's standard for structural fire fighting protective clothing. 24 of our fire fighters have this gear. 10 of our fire fighters are issued the 1997 edition of the N.F.P.A. standard for gear or in a combination thereof.
77	Recreation	Seal Coating & Striping Athletic Field Parking Lot	3	Seal coating the asphalt parking lot of the Athletic Field. Over \$62,000 of grant money was used to pave the parking lot in the summer of 2007. Seal coating is general maintenance to ensure the life of the parking lot and will help protect the investment made by the City of Marshall and the Cronin Foundation.	None expected. This is a general maintenance to ensure the life of the parking lot.
82	Recreation	Athletic Field Sign	4	The purchase of signage at the Athletic Field Complex would provide identification for those traveling to Marshall to use the facility and provide identification as a City of Marshall facility. Signage would also add a touch of professionalism.	No effect on operations.
90	Electric	Retrofit Breakers in Plant #1 Switchgear	4	Switchgear is 1950's vintage that tests okay now but will need replacement in the future. Retrofitting of modern breakers in place of original is deemed to be the most cost effective way of bringing old gear up to date.	No direct cost or savings. \$3,333 depreciation.
93	Electric	Overhaul #3 Engine Raw Water Pump	2	This pump was originally installed in 1973 as part of the engine support system. The pump and motor were overhauled in 1996 and the pump only in 2003. Recommended service interval of 10 years as suggested by professional consultant. This is recommended by yearly testing.	No direct cost or savings; will maintain generating equipment for safe and efficient operation.
103	Electric	Installation of Circuit Reclosers	2	Reclosers will re-energize circuits automatically helping to increase overall system reliability and prevent temporary faults from becoming permanent outages by clearing the fault. This system will reduce customer outage time. An auto reclosure is a circuit breaker equipped with a mechanism that can automatically close the breaker after it has been opened due to a fault.	Reduction of customer outage time.
114	Airport	Taxiway Rehabilitation	2	Design Taxiway Rehabilitation and Entitlements used for Taxiway Rehabilitation.	
122	Recreation	Dug Outs	4	To complete recent renovations to Athletic Field, dug outs for diamonds #1 & #2 can provide additional safety and protection to players, add a professional element to the facility and will be visually pleasing which may help expand programming.	Potential increased revenue by attracting additional tournaments.



**City of Marshall**  
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Record #	Department	Project Title	Priority Ranking	Project Narrative/Purpose	Impact on Operating Budget
132	Waste Water	I & I Study (Inflow and Infiltration)	1	An I & I Study will determine where the infiltration and inflow areas are in the City's Sewer System. This will allow us to budget in the future the repairs of the City's sewers.	The I & I Study will help us identify where the repairs will be needed and all the infiltration that we can prevent going into the sewers will save the City money by not treating ground water at the Wastewater Plant.
134	Waste Water	Gear Box Replacement	1	Replace gearboxes (stabilize sludge tank)	\$1,250 depreciation.
143	Downtown Development Authority	Parking lot pavement sealing	2	Pavement sealing program for all city owned or maintained parking lots to extend life of the pavement. 50/50 split Total cost \$10,000 each year	Reduction in maintenance on deteriorating parking lots.
147	Electric	Breaker Maintenance	2	Circuit breakers are mechanical devices that require periodic maintenance to ensure proper operation. A popular misconception is that if a circuit breaker has not tripped due to an over current it is in original condition. In fact, a circuit breaker that sits without opening over long periods can have performance issues. The lubrication of the mechanism, which is vital for its proper operation, can degrade or dry over time and affect the circuit breaker's ability to operate properly. A circuit breaker also can be damaged or degraded after interrupting a fault.	To provide a safe efficient operation breakers are disassembled, inspected, cleaned, lubricated, reassembled and tested to ensure proper operation. If a breaker were to fail, major damage to switchgear, buildings and possibly employees could be expected.
153	Fire	Personal Alert Safety System (P.A.S.S. Device) Replacement	1	P.A.S.S. devices attached to turn out gear, are a means by which if a fire fighter becomes incapacitated, trapped, or disoriented, the device can activate an audible alarm, either automatically (motionless for 30 seconds) or manually (by the fire fighter), to let others know that the fire fighter is in distress and needs assistance. Our P.A.S.S. devices currently have a time weighted thermal exposure alarm (so many degrees times so many minutes), too. This notifies the fire fighter that they are in an atmosphere that's exceeding the protection limits of their turn out gear. This project is renewed every 5 years to be in compliance with manufacturer's recommendation and MIOSHA standards.	Our current inventory of P.A.S.S. Devices, purchased in 2004, are quickly reaching their end of life. Grace Industries, the manufacturer of our Super PASS II, lists in their instruction and maintenance guide that the device needs to be retired from service 3-5 years from the date of purchase, depending on use and abuse. This is supported by N.F.P.A 1982, 2007 edition and is adopted by MIOSHO by reference (1998 edition) in Part 74, Standards for Fire Fighting.

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Record #	Department	Project Title	Priority Ranking	Project Narrative/Purpose	Impact on Operating Budget
154	Fire	Radio Replacement	1	The Marshall Fire Department has 6 mobile and 7 portable radios that are not capable of narrow banding. When the FCC begins this process, the 13 radios listed will lose about half of their ability to transmit and receive messages. There is also an estimated 3% per year increase in cost, which has been included.	In 2013 the FCC will begin narrow banding the VHF frequency that the Marshall Fire Department is currently using. When that takes place, it will become difficult to communicate with the surrounding Townships. That inability to communicate becomes a safety issue when fire department personnel are unable to receive critical information in a timely manner. Not being able to transmit or receive safety warnings places our personnel at great risk, both on the way to the fire and on the fire ground.
157	Waste Water	Crack Sealing and Seal Coating WWTP Drive	2	It has been 10 years since any work has been done on the WWTP's drive, and needs to be done to preserve the drive.	
165	Electric	Pearl Street Substation Upgrade	3	The current equipment is reaching a size that if one transformer is out of service generation is utilized to prevent overloading the other transformer. Future distribution lines need to be 12kv and we are out of available breakers now. This project will depend on many variables and fits nicely into priority 3. If we don't have the money we probably don't have the need.	Anticipated load growth may substitute this project to service our customers in a safe efficient manner.
168	Electric	Switchgear Expansion	1	This switchgear expansion is for the additional feeder being built to the Industrial Park started in fiscal year 08/09. Partially completed project	For additional load growth.
170	Electric	Replace Protective Relaying - Generators	2	The Short Circuit/Device Coordination/Arc Flash/Shock Hazard Study dated May, 2009 recommends micro-processor based protective relaying be installed on generators that don't currently have protection. This relaying will open the circuit breaker in the event of a fault that could harm equipment and personnel.	Current generation has little or no protection at this time.
171	Electric	Replace Protective Relaying - Transformers	2	Microprocessor based protective relaying will be installed on transformers that do not currently have protection and replace current electro/mechanical relays on other transformers. This relaying will open the circuit breaker or breakers in the event of a fault that could harm equipment and personnel and provide feedback to the SCADA to assist the operator in locating or preventing faults.	Replace electro/mechanical relays with microprocessor-based relays. This should reduce costs of calibration and maintenance and offer increased protection for equipment and personnel.
172	Electric	Replace Protective Relaying - Distribution	2	Microprocessor based protective relaying will be installed on all distribution circuits replacing electro/mechanical relays. This relaying will open the circuit breaker or breakers in the event of a fault that could harm equipment and personnel and provide feedback to the SCADA to assist the operator in locating or preventing outages.	Replace electro/mechanical relays with microprocessor-based relays. This should reduce costs of calibration and maintenance and offer increased protection for equipment and personnel.

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Record #	Department	Project Title	Priority Ranking	Project Narrative/Purpose	Impact on Operating Budget
178	Streets	Storage Rack for Salt Spreaders and Dump Box Covers	2	This structure will allow the salt spreaders and 5 yard cover boxes to be hung off steel I-beams outside when not in use. It will allow the driver to load and unload a salt spreader and dump box covers by themselves when needed.	Will allow a quicker change over of equipment when needed which will increase employee productivity. If a salt box is removed, the equipment needs to be taken to Engine 6 building to use the crane.
179	Motor Pool	Painting of DPW Building	3	The finish is fading on the exterior walls and there are holes that need to be sealed up to prevent water damage. The surface of the metal siding needs to be washed, primed, and finish.	Preserve the building through preventive maintenance and thereby reducing the possibility of any future major repairs.
181	PSB Operations	PSB Parking Lot and Drive Crack Filling, Patching, and Sealing	2	The parking lot is to the point where it needs to under go some major repairs. Staff is suggesting a two prong approach; the first year, cut out the areas with major damage, and then the following year cap the whole parking lot with approximately an inch of asphalt.	
182	PSB Operations	PSB Environmental Reclamation Project	2	80% of the contaminated soils will be removed and a oxygenation agent added to stimulate bacterial action to hopefully eliminate the rest of the contamination. The area will be repaved and additional parking created to cap the area. There is approximately 2,000 yards of material to be removed and replaced.	If city can get an industrial closure than maintenance costs associated with monitoring the site will be eliminated in future budgets.
183	Parks	North Keitchum Park Time Locks With New Doors	2	The restrooms have been vandalized so many times the frames and doors need to be replaced and time lock added. The time lock will allow the bathroom doors to lock at a preset time. The bathrooms are being changed to unisex so they will have a occupied/unoccupied lock set. Pull handle on the outside.	Reduce maintenance costs due to vandalism.
196	Water	Valve/Hydrant Replacement	2	A number of valve and hydrants throughout the city are in need of replacement to aid in emergency services and flushing.	Reduction in maintenance to structure and increase in water quality.
198	Streets	Union Street Drainage Improvements	1	There has been an ongoing drainage issue at the corner of Mulberry Street and Union Street for some time. Project will increase capacity of drainage basin on Union Street and install protective fence.	Reduction in maintenance
202	Airport	AWOS replacement	2	The existing AWOS equipment will need to be replaced to address the lack of new replacement parts.	Reduction in replacement parts for old AWOS system
203	Airport	Design Parallel Taxiway Rehabilitation	2	Design cost for parallel runway	None
204	Airport	Terminal Building Improvements	2	The existing terminal building, due to it's age, requires improvements to maintain the use of the building. This includes a new roof, as well as general improvements	Reduction in maintenance expenses
205	Airport	Major Improvements or Parallel Runway	2	The existing taxiway has a PCI of 63 and rehabilitation of approximately 113,700 sq ft of pavement is planned	Reduction in maintenance expenses
206	Airport	Taxistreet Rehabilitation	2	The most recent PCI rated these pavements between 41-55, indicating the need for rehabilitation. Since these pavements service the majority of the hangers on the field, they need to be maintained free of debris	Reduction in maintenance expenses

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Record #	Department	Project Title	Priority Ranking	Project Narrative/Purpose	Impact on Operating Budget
207	Parks	Mulch installation	1	As suggested by the recent playground inspection new mulch should be install in all playstructure throughout the city	Potential reduction in accident liability
208	Parks	Brooks Memorial Fountain Upgrades	1	Installation of a filter and Automatic Chlorinator and portable vacuum filter with accessories	Reduction in maintenance expenses
209	Streets	Local Street Rehabilitation	2	Road repaving and rehabilitation. Locations to be determined.	Reduction in maintenance cost
210	Streets	W. Mansion Street Reconstruction and Hughes Street Rehabilitation	2	Updating pavement, curb, sidewalk, and drainage from of W Mansion Street from Plum Street to S. Kalamazoo Avenue. Hughes Street Mill and Fill Design to be completed in FY 2011-2012. construction in MDOT FY 2012	Reduction in maintenance cost
211	Streets	North Drive and East Drive Rehabilitation	2	North Drive and East Drive from Michigan Avenue to N. Kalamazoo Avenue Reconstruction. Design to be completed in FY 2013-2014. construction in MDOT FY 2014	Reduction in maintenance cost
212	Streets	Street Sign Replacement	1	Unfunded federal mandate requires that the agencies responsible for sign maintenance declare a program by 2012 and be in compliance by 2015. Signs will be replaced by City crews one quadrant per year.	none
213	Streets	Drainage Improvements	2	Correct to the drainage system in three location: NE corner of Spruce St and Marshall Avenue (\$3,000); North side of Liberty and Michigan Avenue (\$7,500); and NE corner of Grand and Michigan Avenue (\$2,000).	Reduction in trouble calls
214	Water	Replace Water Main and Services on N. Marshall from Michigan to Forest	2	Increased water quality issues and water main that is old and wearing out needs to be replaced. Changing water main to 8" ductile iron pipe will help both flow and quality.	Reduction in maintenance to structure and increase in water quality.
215	Water	Replace Water Main and Services on W. Mansion St.	2	Replace aging water main on W. Mansion from Kalamazoo to Plum St. This project would coincide with street improvements.	Reduction in maintenance to structure and increase in water quality.
216	Water	Black top driveway at the Water Treatment Plant	2	Pave driveway at the Water Plant to become compliant with City Code.	None
218	Water	Replace 4" Water Main on S. Marshall, Jefferson, S. Eagle and Brewer	2	Replace existing 4" cast iron water main in five locations. Upgrade to ductile iron pipe	Reduction in maintenance to structure and increase in water quality.

**City of Marshall**  
**Capital Improvements Program**  
**Project Description**

Record #	Department	Project Title	Priority Ranking	Project Narrative/Purpose	Impact on Operating Budget
220	Fire	Replace 5" Supply Line Fire Hose	1	<p>Fire hose, as with most other equipment, can only last so long before having to be replaced. We are approaching that time when we are starting to see a gradual failure of our 5" supply line hose. By purchasing our hose in increments of 10 we can restock of inventory of hose.</p>	<p>Presently, approximately 15 lengths of our current inventory of 25 lengths of our Large Diameter Hose are approaching 18 to 25 years old, with the other 10 lengths being less than 10 years old. We are experiencing pin holes or failure of some of these hoses every year that we conducted our hose test in the past few years. Testing is conducted as required by N.F.P.A and I.S.O. We are presently down to 2500' from 3,000' of 5" hose on our one engine that we use as our 2<sup>nd</sup> due to connect from the hydrant to our 1<sup>st</sup> due engine. We would like to maintain 3,000' so as to reach some areas of the City that are not serviced by hydrants. The 500' of hose that has pin holes, but still sustains the test pressure. It has been placed on our 1<sup>st</sup> due engine as auxiliary or backup hose, thus giving us a total of 3000' of hose, but not on one engine. By purchasing 30 lengths of hose we can update our inventory to have fairly new hose on our 2<sup>nd</sup> due engine and place the older but still tested remaining hose on our 1<sup>st</sup> due engine.</p>
221	Electric	2.4kv Switchgear Replacement Completion	1	<p>The original budgetary figures were quoted using IEC standard switchgear, which we are finding out, is not an acceptable practice in the United States.</p>	
222	Electric	NESHAP/ RICE Compliance	2	<p>National Emission Standards for Hazardous Air Pollutants (NESHAP) for Reciprocating Internal Combustion Compression Ignition (CI) Engines (RICE). As required by 40CFR63 Subpart A and Subpart ZZZZ will require the installation and testing of catalysts on each exhaust system. Fiscal year 2012 will complete our two most economical and largest units, with remainder being completed before the deadline of May 2013.</p>	EPA regulations.

**City of Marshall**  
**Capital Improvements Program**  
**Project Description**

Record #	Department	Project Title	Priority Ranking	Project Narrative/Purpose	Impact on Operating Budget
224	Electric	Remote Terminal Unit (RTU) Replacement @ Pearl Street Substation and Plant 2	2	<p>The term RTU is short for <i>remote terminal unit</i>. In Supervisory Control and Data Acquisition (SCADA) systems, an RTU is a device installed at a remote location that collects data, codes the data into a format that is transmittable and transmits the data back to a central station, or master. An RTU also collects information from the master device and implements processes that are directed by the master. RTUs are equipped with input channels for sensing or metering, output channels for control, indication or alarms and a communications port. Our current RTU's were installed in 1995 when we installed the G&amp;W DACScan system. In 2005 we installed the current system from Survalent Technology Corporation using the existing RTU's. These units are beginning to experience troubles with locking up and not being able to handle the current data communication let alone any additional data from the new relaying.</p>	
225	Electric	Station Battery Replacement	1	<p>Due to the age and critical nature of the battery banks, which are relied on to operate relays and breakers, staff feels they both should be replaced at this time.</p>	<p>The current battery chargers are 25 and 30 years old. The newer one has been having trouble for the past two years and needs replacing. The battery banks themselves are 20-year lead acid batteries, installed in 1994. These batteries are starting to show signs of deterioration in the plates and cracking on the top covers of several cells at the posts. Due to the age and critical nature of the battery banks to operate relays and breakers in an outage staff feels they both should be replaced at this time</p>
226	Electric	Distribution Stringing Blocks	2	<p>A stringing block is used to support and allow movement of a cable that is being installed. A cable stringing block assembly has a frame and axle assembly configured to hold a non-conducting sheave wheel. The sheave wheel is fabricated of a durable polymeric material. In one embodiment, the sheave wheel is self-lubricating, having a coefficient of friction less than 0.5. A handle is optionally affixed to the frame structure to facilitate transport of the block assembly. In another embodiment, a spring-biased fly gate facilitates side-loading of the cable. The cast aluminum frame can be anodized to disguise its appearance from scrap aluminum thieves and provide additional weather protection.</p>	<p>We currently borrow Coldwater's stringing blocks. When we need to string wire we must send employees to pick them up and to take them back, utilizing valuable time.</p>

**City of Marshall**  
**Capital Improvements Program**  
**Project Description**

Record #	Department	Project Title	Priority Ranking	Project Narrative/Purpose	Impact on Operating Budget
227	Electric	Infrared Camera and Training	2	With thermal imaging (Infrared), power line maintenance technicians locate overheating joints and parts, a telltale sign of their failure, to eliminate potential hazards. All objects emit a certain amount of black body radiation as a function of their temperatures.	System reliability and the reduction of an annual expense of \$2,000 for a consultant to perform these services.
228	Electric	Circuit Upgrade	3	New poles and reconductor 3 phase from corner of High St & E Prospect east to N Liberty, north on Liberty to Forest, west on Forest to N Marshall, north on N Marshall to North Drive, west on North Drive to dead-end pole. High St from E Prospect north to Forest currently only single phase.	
229	Electric	Pole Replacement and Line Reconstruction	1	Most of the older poles in the City of Marshall are Creosote treated poles and have a life expectancy of 30 - 40 years. However, Creosote, is not environmentally acceptable by today's standards. In most recent history, the City has purchased Penta and CCA treated poles. Many of the poles in the City of Marshall's electric system have aged way beyond 60 years and are in desperate need of replacement. We would like to implement a plan to replace several poles and conductor (if needed) per year to get the poles in the system more environmentally friendly and safe.	System reliability with a reduction in maintenance and overtime trouble calls.
230	Electric	Circuit Reclosers and SCADA Operated Sectionalizing	1	Auto-reclosers are used in coordinated protection schemes for overhead line power distribution circuits. Auto-recloser/sectionizing switches will make several pre-programmed attempts to re-energize the line unlike blown fuses which require manual replacement. Auto-reclosers are made in single-phase and three-phase versions. Controls for the auto-reclosers range from the original electromechanical systems to digital electronics with metering and SCADA functions.	System reliability with a reduction in maintenance cost and overtime trouble calls.
231	Electric	Regulators	1	To maintain the voltage at the customer's service within the acceptable range, electrical distribution utilities use regulating equipment at electrical substations or along the distribution line. At a substation, the step-down transformer will have an automatic on-load tap changer, allowing the ratio between transmission voltage and distribution voltage to be adjusted in steps. For long distribution circuits, automatic voltage regulators may be mounted on poles of the distribution line. These are autotransformers again with on-load tap changers to adjust the ratio depending on the observed voltage changes. At each customer's service, the step-down transformer has up to five taps to allow some range of adjustment, usually ±5% of the nominal voltage. Since these taps are not automatically controlled, they are only used to adjust the long-term average voltage at the service and do not regulate the voltage seen by the utility customer.	Increase quality of electricity.

**City of Marshall**  
**Capital Improvements Program**  
**Project Description**

Record #	Department	Project Title	Priority Ranking	Project Narrative/Purpose	Impact on Operating Budget
232	Electric	Relocation of Overhead Electric in South Alley between Jefferson Street and Hamilton Street and Eagle Street to Grand Street to Underground.	3	The relocation of the overhead power lines in the South Alley between Jefferson and Hamilton and Grand and Eagle will complete the project that was started in 2007. This relocation will aid in fire responses and also help to clean up the rear facades of the business downtown.	Increase safety.
233	Electric	Sherman Drive/Wright Lane Upgrade	3	The underground electric in this neighborhood originated in the mid 1960's. Generally speaking underground electric becomes unreliable after 20 years and reaches the end of its life at approximately 25 – 35 years. Due to the age of the infrastructure, we recommended replacing existing primary and secondary lines.	System reliability with a reduction in maintenance and overtime trouble calls.
234	Electric	Primary Splice Box for Airport Project	1	In order to install underground electric line only certain distances are allowed. In order to break these long distances into manageable pieces a splice box is needed. These are for a project currently in progress and are needed to connect the current lines with the new lines for reliability purposes in the industrial park.	Redundancy in the circuit that provides power to the industrial park.
235	Electric	Stuart Lake Circuit Underground Upgrade	3	From Homer Rd go south on 18 ½ Mile Rd (Stuart Lake Road) 2650' replacing existing primary wire with new 4/0 copper wire (15kv) in 6" conduit.	
236	Police	Protective Vests	1	Protective armor vests are worn by all personnel wearing a uniform. It is a contractual agreement that the City of Marshall provide the vests. It is also an industry standard to provide and wear the protective armor.	This is an officer safety issue and one that has proven to reduce or eliminate injuries and also saved lives. This has significant savings should a catastrophic event occur.
237	Police	Forensic Equipment	2	To purchase a drying chamber, latent print developer, cyanoacrylate chamber. This will provide expedited lab results and should help in earlier identification and apprehension of suspects.	This will allow MPD to process evidence locally and reduce the time and man hours of case investigation and transporting evidence to forensic other labs.
238	Police	Police Vehicle Change-over	1	To purchase all new equipment other than radios for the new vehicles beginning in 2011. This is due to the crown Victoria no longer be produced, therefore a new design vehicle will be utilized. This will not allow the current equipment to change-over to the new design.	Provide safety equipment and emergency equipment to all new vehicles.
239	Police	Police Protective Shelter / Equipment Storage	2	To provide safe cover for all personnel while at the shooting range in the event of inclement weather. This will also be used as storage of range materials with exception of firearms or ammunition. It is also agreed upon with the Street Department to share the facility for their storage and protective cover as well.	Will provide man hour savings with storage of equipment on site. Original estimate was \$10,000, but can be built on site at the reduced cost.



**City of Marshall**  
**Capital Improvements Program**  
**Project Description**

Record #	Department	Project Title	Priority Ranking	Project Narrative/Purpose	Impact on Operating Budget
240	Police	Rugged Computers	1	(2) Rugged laptops to be installed in the last 2 patrol vehicles. These will be the same that are already in the other patrol cars. These will replace current laptops that are not rugged, in need of repair, and not equipped with updated software. This project will serve two purposes. The new paved driveway straight out to Industrial Road will make the WWTP more accessible and visible to the public and to visitors and delivery personnel. The electric gate will satisfy Homeland Security measures that require the gate to remain secured when the plant is staffed with only one operator.	Equipment used in the patrol vehicle. Will save on time and equipment when responding to calls, and report writing.
241	Waste Water	New Driveway/Electric Gate	1		Eliminate need for grading by the Street Dept. and in repairs to vehicle suspension, steering and tires. Electric gate will create an indirect savings from operator productivity by not having to open and close the gate when working alone.
242	Waste Water	Stand-by Generator	2	MDNRE requires two sources of electric power for the plant. We currently have two feeds but they essentially come from the same source. In the event of a major outage we would not have power. A back-up generator to run the entire plant will satisfy this requirement. The project included designs and construction cost.	Allow for seamless operation of plant in the event of power failure.
243	Waste Water	In-line Muffin Monster Exchange	2	Replacement 11-year old cutters in two in-line Muffin Monsters. These grind primary sludge prior to pumping and processing to breakdown inorganic material. The grinders save wear on the pumps and thickening equipment and help prevent plugging. This is done as an exchange program with the manufacturer similar to a core exchange.	Extends life of more expensive pumps and thickening equipment and reduces maintenance and down time.
244	Waste Water	Wastewater SCADA Replacement	1	Our current SCADA system is obsolete and replacement parts are largely unavailable. The proposed system will utilize new technology and more powerful radio modems for increased reliability.	The proposed system will increase the reliability of the alarm system at the plant and lift stations. This will mean better response to alarm conditions and decrease the likelihood of sanitary sewer overflows and sewer backups. We will also be eliminating four phone lines dedicated to modems at two of the lift stations. \$13,000 depreciation.
245	Water	S. Linden Water Main Replacement	1	The water main along S. Linden Street from Hanover to Industrial Road is the last remaining 6 inch cast iron water main in the area. Because of this fact the water quality is very bad and the city has received multiple request for flushing which occurs weekly. The proposed project replaces the existing main with an 8" ductile iron main.	Reduction in lost water from flushing.
246	Chapel	Chapel Ramp	1	To be able to lease the building, a ramp needs to be installed to comply with ADA and Michigan Barrier Free requirements.	Will increase maintenance costs slightly to maintain structure.

**City of Marshall**  
**Capital Improvements Program**  
**Project Description**

Record #	Department	Project Title	Priority Ranking	Project Narrative/Purpose	Impact on Operating Budget
247	Chapel	Chapel Painting and Repairs	1	There is deteriorated fascia, clay tiles on the roof need to be sealed to keep the birds out, the paint is flaking off the building and mold is growing. Caulking needs to be replaced in spots. A second lift is needed to be able to work on two vehicles at a time. The proposed lift will consist of four independent towers that will allow the lift mechanisms to be adjusted for the vehicle length. It will be rated for the heaviest vehicle it will be required to lift. The city has a list of vehicles and equipment that is considered emergency in nature and have priority over the lift. If one vehicle is being repaired and it is not considered an emergency vehicle, it has to be moved to make room for the emergency piece of equipment. This takes time and may require overtime to get the piece of equipment or vehicle back in operation. This type of lift can be made	Deter any further deterioration of the building which will increase maintenance costs.
248	Motor Pool	Vehicle Lift with Support Jacks	2		Using two lifts will result in a savings of approximately \$5,000 a year in lost productivity, not only includes the motor pool, but other departments as well that need to readjust their schedules because the lift is in use.
251	Motor Pool	Diagnostic Software and Equipment	2	The current software will only read the error codes, and it will not tell the mechanic what is specifically wrong with the vehicle. Therefore, the mechanic has to spend time calling equipment manufacturers to find out what the code means. In addition, vehicle manufacturers have introduced new codes that are not part of the current software package.	The software and equipment will give the mechanics the necessary information to be able to decide if the vehicle can be fixed in house or need to be sent out.

City of Marshall

# **Capital Improvements Program**

**Priority Summary by Source of Funding**

**All Projects (Planning Commission and Council)**

**City of Marshall**  
**Capital Improvements Program**  
**Priority Summary by Source of Funding**

Record #	Department	Project Title	Priority Ranking	Estimated Useful Life	Source of Funding	2011-2012 Expenditure	2012-2013 Expenditure	2013-2014 Expenditure	2014-2015 Expenditure	2015-2016 Expenditure	2016-2017 Expenditure	Trade In or Grant Share	Total Expenditure
	<b>Priority 1</b>												
246	Chapel	Chapel Ramp	1	20	General Fund	\$15,000	\$0	\$0	\$0	\$0	\$0	\$0	\$15,000
247	Chapel	Chapel Painting and Repairs	1	5	General Fund	\$12,000	\$0	\$0	\$0	\$0	\$0	\$0	\$12,000
250	Downtown Development Authority	Michigan Avenue Tree Replacement Project - Downtown	1	40	DDA Fund-1/3/Grant Funds/Private Donations	\$25,000	\$0	\$0	\$0	\$0	\$0	\$50,000	\$75,000
25	Electric	Meter / Relay Calibration	1	3	Electric Fund	\$0	\$0	\$25,000	\$0	\$0	\$0	\$0	\$25,000
168	Electric	Switchgear Expansion	1	25	Electric Fund	\$75,000	\$0	\$0	\$0	\$0	\$0	\$0	\$75,000
221	Electric	2.4kv Switchgear Replacement Completion	1	30	Electric Fund	\$250,000	\$0	\$0	\$0	\$0	\$0	\$0	\$250,000
223	Electric	Embankment Project	1	50	Electric Fund - Bond	\$805,000	\$0	\$0	\$0	\$0	\$0	\$0	\$805,000
225	Electric	Station Battery Replacement	1	20	Electric Fund	\$25,000	\$0	\$0	\$0	\$0	\$0	\$0	\$25,000
229	Electric	Pole Replacement and Line Reconstruction	1	50	Electric Fund - Bond	\$75,000	\$75,000	\$75,000	\$80,000	\$80,000	\$80,000	\$0	\$465,000
230	Electric	Circuit Reclosers and SCADA Operated Sectionalizing	1	20	Electric Fund	\$50,000	\$50,000	\$50,000	\$50,000	\$0	\$0	\$0	\$200,000
231	Electric	Regulators	1	25	Electric Fund	\$55,000	\$55,000	\$55,000	\$55,000	\$0	\$0	\$0	\$220,000
234	Electric	Primary Splice Box for Airport Project	1	30	Electric Fund	\$9,000	\$0	\$0	\$0	\$0	\$0	\$0	\$9,000
76	Fire	Structural Fire Fighting Protective Clothing Purchase	1	10	General Fund or FEIMA Grant with a 5% match	\$8,500	\$9,000	\$9,500	\$10,000	\$10,500	\$11,000	\$0	\$58,500
153	Fire	Personal Alert Safety System (P.A.S.S. Device) Replacement	1	5	General Fund	\$0	\$0	\$0	\$0	\$12,250	\$0	\$0	\$12,250
154	Fire	Radio Replacement	1	20	General Fund	\$10,300	\$0	\$0	\$0	\$0	\$0	\$0	\$10,300
220	Fire	Replace 5" Supply Line Fire Hose	1	20	General Fund	\$6,000	\$6,000	\$6,000	\$0	\$0	\$0	\$0	\$18,000
199	Fire/Police	New Emergency Services Building	1	50	General Fund - Building Authority Bond	\$0	\$6,014,000	\$0	\$0	\$0	\$0	\$0	\$6,014,000

**City of Marshall**  
**Capital Improvements Program**  
**Priority Summary by Source of Funding**

Record #	Department	Project Title	Priority Ranking	Estimated Useful Life	Source of Funding	2011-2012 Expenditure	2012-2013 Expenditure	2013-2014 Expenditure	2014-2015 Expenditure	2015-2016 Expenditure	2016-2017 Expenditure	Trade In or Grant Share	Total Expenditure
53	Marshall House	Apartment Remodeling - 100 Units	1	15	Marshall House Fund and Bond Issuance Building Authority	\$113,266	\$110,292	\$107,319	\$104,346	\$101,373	\$88,399	\$0	\$634,995
70	Marshall House	Annual Vacancy Maintenance	1	5	Marshall House Fund	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$0	\$60,000
55	Parks	Paving North Ketchum Park Parking Lot	1	20	General Fund	\$20,000	\$0	\$0	\$0	\$0	\$0	\$0	\$20,000
207	Parks	Mulch installation	1	10	General fund	\$8,000	\$0	\$0	\$0	\$0	\$0	\$0	\$8,000
208	Parks	Brooks Memorial Fountain Upgrades	1	15	Brooks Memorial Fountain Maintenance-General Fund	\$5,000	\$0	\$0	\$0	\$0	\$0	\$0	\$5,000
236	Police	Protective Vests	1	5	General Fund or Grant	\$0	\$0	\$0	\$4,000	\$5,000	\$0	\$0	\$9,000
238	Police	Police Vehicle Change-over	1	10	General Fund	\$6,000	\$12,000	\$6,000	\$6,000	\$5,000	\$5,000	\$3,200	\$43,200
240	Police	Rugged Computers	1	5	General Fund	\$5,380	\$0	\$0	\$0	\$0	\$0	\$0	\$5,380
198	Streets	Union Street Drainage Improvements	1	20	General Fund	\$65,000	\$0	\$0	\$0	\$0	\$0	\$0	\$65,000
212	Streets	Street Sign Replacement	1	15	Major/Local Streets	\$14,000	\$14,000	\$14,000	\$14,000	\$0	\$0	\$0	\$56,000
2	Town Hall	Windows	1	30	General Fund	\$12,000	\$12,000	\$0	\$0	\$0	\$0	\$0	\$24,000
45	Waste Water	4" Emergency By Pass Pump	1	15	Waste Water Fund	\$14,000	\$0	\$0	\$0	\$0	\$0	\$0	\$14,000
132	Waste Water	I & J Study (Inflow and Infiltration)	1	15	Waste Water Fund	\$0	\$0	\$60,000	\$0	\$0	\$0	\$0	\$60,000
134	Waste Water	Gear Box Replacement	1	20	Waste Water Fund	\$25,000	\$0	\$0	\$0	\$0	\$0	\$0	\$25,000
241	Waste Water	New Driveway/Electric Gate	1	30	Waste Water Fund	\$30,000	\$0	\$0	\$0	\$0	\$0	\$0	\$30,000
244	Waste Water	Wastewater SCADA Replacement	1	10	Waste Water Fund	\$130,000	\$0	\$0	\$0	\$0	\$0	\$0	\$130,000
245	Water	S. Linden Water Main Replacement	1	40	Water Fund	\$125,000	\$0	\$0	\$0	\$0	\$0	\$0	\$125,000
		<b>TOTAL PRIORITY 1</b>				\$2,003,446	\$6,367,292	\$417,819	\$333,346	\$224,123	\$204,399	\$53,200	\$9,603,625

**City of Marshall**  
**Capital Improvements Program**  
**Priority Summary by Source of Funding**

Record #	Department	Project Title	Priority Ranking	Estimated Useful Life	Source of Funding	2011-2012 Expenditure	2012-2013 Expenditure	2013-2014 Expenditure	2014-2015 Expenditure	2015-2016 Expenditure	2016-2017 Expenditure	Trade In or Grant Share	Total Expenditure
	<b>Priority 2</b>												
114	Airport	Taxiway Rehabilitation	2	20	Airport Fund 2 1/2%, FAA Allocation 95%, State 2 1/2%	\$8,625	\$0	\$0	\$0	\$0	\$0	\$360,750	\$369,375
202	Airport	AWOS replacement	2	20	Airport Fund 2 1/2%, FAA Allocation 95%, State 2 1/2%	\$1,325	\$0	\$0	\$0	\$0	\$0	\$51,675	\$53,000
203	Airport	Design Parallel Taxiway Rehabilitation	2	1	Airport Fund 2 1/2%, FAA Allocation 95%, State 2 1/2%	\$400	\$0	\$0	\$0	\$0	\$0	\$19,400	\$19,800
204	Airport	Terminal Building Improvements	2	20	Airport Fund 2 1/2%, FAA Allocation 95%, State 2 1/2%	\$0	\$3,750	\$0	\$0	\$0	\$0	\$153,750	\$157,500
205	Airport	Major Improvements or Parallel Runway	2	20	Airport Fund 2 1/2%, FAA Allocation 95%, State 2 1/2%	\$0	\$0	\$0	\$9,500	\$0	\$0	\$9,861	\$19,361
206	Airport	Taxiway Rehabilitation	2	20	Airport Fund 2 1/2%, FAA Allocation 95%, State 2 1/2%	\$0	\$0	\$0	\$0	\$0	\$7,250	\$282,750	\$290,000
38	Cemetery	Cemetery Water Distribution System	2	20	Cemetery Trust Fund and General Fund	\$45,000	\$0	\$0	\$0	\$0	\$0	\$0	\$45,000
143	Downtown Development Authority	Parking lot pavement sealing	2	5	DDA Fund	\$0	\$10,000	\$10,000	\$10,000	\$0	\$0	\$0	\$30,000
197	Downtown Development Authority	Mansion Street/North Alley Parking Lot Reconstruction	2	30	DDA Fund/General Fund	\$50,000	\$0	\$0	\$0	\$0	\$0	\$0	\$50,000
4	Electric	Capacitor Banks	2	20	Electric Fund	\$22,000	\$0	\$0	\$0	\$0	\$0	\$0	\$22,000
19	Electric	Raceway/Dam Maintenance	2	20	Electric Fund	\$15,000	\$0	\$15,000	\$0	\$15,000	\$0	\$0	\$45,000
23	Electric	Air Compressor Replacement	2	30	Electric Fund	\$15,000	\$15,000	\$15,000	\$0	\$0	\$0	\$0	\$45,000
28	Electric	Power House Roof Repairs	2	25	Electric Fund	\$0	\$0	\$60,000	\$0	\$0	\$0	\$0	\$60,000
30	Electric	Automated Load Control of Hydro	2	25	Electric Fund	\$50,000	\$0	\$0	\$0	\$0	\$0	\$0	\$50,000
31	Electric	Upgrade Plant #1 House Power Panels	2	30	Electric Fund	\$7,500	\$7,500	\$7,500	\$0	\$0	\$0	\$0	\$22,500
32	Electric	Upgrade Lube Oil Filter Systems on #2 & #5 Engines	2	30	Electric Fund	\$7,500	\$0	\$0	\$0	\$0	\$0	\$0	\$7,500
33	Electric	Upgrade Lube Oil Heating Systems on #2 & #5 Engines	2	30	Electric Fund	\$5,000	\$0	\$0	\$0	\$0	\$0	\$0	\$5,000

**City of Marshall**  
**Capital Improvements Program**  
**Priority Summary by Source of Funding**

Record #	Department	Project Title	Priority Ranking	Estimated Useful Life	Source of Funding	2011-2012 Expenditure	2012-2013 Expenditure	2013-2014 Expenditure	2014-2015 Expenditure	2015-2016 Expenditure	2016-2017 Expenditure	Trade In or Grant Share	Total Expenditure
46	Electric	Upgrade Engine Protection Systems #2 & #5	2	20	Electric Fund	\$15,000	\$0	\$0	\$0	\$0	\$0	\$0	\$15,000
49	Electric	Engine #3 & #6 gauge panel replacement	2	20	Electric Fund	\$80,000	\$80,000	\$0	\$0	\$0	\$0	\$0	\$160,000
57	Electric	Overhaul East Well pump	2	10	Electric Fund	\$15,000	\$0	\$0	\$0	\$0	\$0	\$0	\$15,000
74	Electric	Overhaul West Well pump	2	10	Electric Fund	\$0	\$15,000	\$0	\$0	\$0	\$0	\$0	\$15,000
93	Electric	Overhaul #3 Engine Raw Water Pump	2	10	Electric Fund	\$12,000	\$0	\$0	\$0	\$0	\$0	\$0	\$12,000
103	Electric	Installation of Circuit Reclosers	2	10	Electric Fund	\$22,000	\$0	\$0	\$0	\$0	\$0	\$0	\$22,000
147	Electric	Breaker Maintenance	2	5	Electric Fund	\$0	\$0	\$0	\$25,000	\$0	\$0	\$0	\$25,000
170	Electric	Replace Protective Relaying - Generators	2	20	Electric Fund	\$0	\$36,000	\$0	\$0	\$0	\$0	\$0	\$36,000
171	Electric	Replace Protective Relaying - Transformers	2	20	Electric Fund	\$0	\$17,000	\$0	\$0	\$0	\$0	\$0	\$17,000
172	Electric	Replace Protective Relaying - Distribution	2	20	Electric Fund	\$48,000	\$48,000	\$0	\$0	\$0	\$0	\$0	\$96,000
222	Electric	NESHAP/ RICE Compliance	2	25	Electric Fund - Bond	\$251,000	\$124,000	\$0	\$0	\$0	\$0	\$0	\$375,000
224	Electric	Remote Terminal Unit (RTU) Replacement @ Pearl Street Substation and Plant 2	2	10	Electric Fund	\$0	\$60,000	\$25,000	\$0	\$0	\$0	\$0	\$85,000
226	Electric	Distribution Stringing Blocks	2	50	Electric Fund	\$8,000	\$6,000	\$0	\$0	\$0	\$0	\$0	\$14,000
227	Electric	Infrared Camera and Training	2	10	Electric Fund	\$0	\$10,000	\$0	\$0	\$0	\$0	\$0	\$10,000
248	Motor Pool	Vehicle Lift with Support Jacks	2	20	Motor Pool & DART	\$0	\$0	\$40,000	\$0	\$0	\$0	\$0	\$40,000
251	Motor Pool	Diagnostic Software and Equipment	2	3	Motor Pool & DART	\$0	\$6,000	\$0	\$0	\$0	\$0	\$0	\$75,000
12	Parks	Purchase New Playground Equipment	2	25	General Fund	\$45,000	\$0	\$0	\$0	\$0	\$0	\$0	\$45,000
124	Parks	Brooks Nature Park Observation Deck	2	20	General Fund and DNRE Grant	\$25,000	\$0	\$0	\$0	\$0	\$0	\$0	\$25,000

**City of Marshall**  
**Capital Improvements Program**  
**Priority Summary by Source of Funding**

Record #	Department	Project Title	Priority Ranking	Estimated Useful Life	Source of Funding	2011-2012 Expenditure	2012-2013 Expenditure	2013-2014 Expenditure	2014-2015 Expenditure	2015-2016 Expenditure	2016-2017 Expenditure	Trade In or Grant Share	Total Expenditure
183	Parks	North Ketchum Park Time Locks With New Doors	2	30	General Fund	\$9,000	\$0	\$0	\$0	\$0	\$0	\$0	\$9,000
189	Parks	Phase V Riverwalk Design	2	20	General Fund 25%/Local Grants 75%	\$0	\$40,000	\$0	\$0	\$0	\$0	\$0	\$40,000
249	Parks	Brooks Nature Park 16 x 20 Shelter	2	20	General Fund	\$10,000	\$0	\$0	\$0	\$0	\$0	\$0	\$10,000
237	Police	Forensic Equipment	2	15	General Fund or Grant	\$0	\$9,500	\$0	\$0	\$0	\$0	\$0	\$9,500
239	Police	Police Protective Shelter / Equipment Storage	2	20	General Fund	\$7,000	\$0	\$0	\$0	\$0	\$0	\$0	\$7,000
181	PSB Operations	PSB Parking Lot and Drive Crack Filling, Patching, and Sealing	2	20	Department Cost Allocation/Rents	\$23,000	\$0	\$0	\$0	\$0	\$0	\$0	\$23,000
182	PSB Operations	PSB Environmental Reclamation Project	2		Department Cost Allocation/Rents	\$155,000	\$0	\$0	\$0	\$0	\$0	\$0	\$155,000
29	Streets	Sidewalk Repair	2	25	General Fund	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$0	\$60,000
56	Streets	Bridge Replacement-Monroe Street @ Rice Creek	2	30	MVH Major/MDOT grant	\$0	\$0	\$27,500	\$0	\$0	\$0	\$443,650	\$471,150
67	Streets	Bridge Replacement-Marshall Ave @ Kalamazoo River	2	30	MVH Major/MDOT grant	\$0	\$0	\$61,500	\$0	\$0	\$0	\$1,011,750	\$1,073,250
178	Streets	Storage Rack for Salt Spreaders and Dump Box Covers	2	30	General Fund	\$0	\$0	\$8,000	\$0	\$0	\$0	\$0	\$8,000
200	Streets	New Sidewalk Installation	2	25	General Fund	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$0	\$180,000
209	Streets	Local Street Rehabilitation	2	30	Local Streets	\$130,000	\$130,000	\$130,000	\$130,000	\$130,000	\$130,000	\$130,000	\$910,000
210	Streets	W. Mansion Street Reconstruction and Hughes Street Rehabilitation	2	30	Major Streets	\$37,500	\$93,750	\$0	\$0	\$0	\$0	\$0	\$506,250
211	Streets	North Drive and East Drive Rehabilitation	2	30	Major Streets	\$0	\$0	\$37,500	\$93,750	\$0	\$0	\$375,000	\$506,250
213	Streets	Drainage Improvements	2	20	Major/Local Streets	\$12,500	\$0	\$0	\$0	\$0	\$0	\$0	\$12,500
44	Town Hall	Town Hall Repairs	2	10	General Fund	\$13,500	\$0	\$0	\$0	\$0	\$0	\$0	\$13,500
11	Waste Water	Primary Sludge Pump	2	20	Waste Water Fund	\$0	\$0	\$20,000	\$0	\$0	\$0	\$0	\$20,000



**City of Marshall**  
**Capital Improvements Program**  
**Priority Summary by Source of Funding**

Record #	Department	Project Title	Priority Ranking	Estimated Useful Life	Source of Funding	2011-2012 Expenditure	2012-2013 Expenditure	2013-2014 Expenditure	2014-2015 Expenditure	2015-2016 Expenditure	2016-2017 Expenditure	Trade In or Grant Share	Total Expenditure
34	Waste Water	Raw Sludge Tank Mixer	2	20	Waste Water Fund	\$0	\$20,000	\$0	\$0	\$0	\$0	\$0	\$20,000
51	Waste Water	Valve Replacement	2	30	Waste Water Fund	\$20,000	\$20,000	\$0	\$0	\$0	\$0	\$0	\$40,000
68	Waste Water	Replace High School Lift Station	2	25	Waste Water Fund	\$0	\$90,000	\$0	\$0	\$0	\$0	\$0	\$90,000
69	Waste Water	Replace Industrial Park Lift Station	2	25	Waste Water Fund	\$0	\$0	\$125,000	\$0	\$0	\$0	\$0	\$125,000
157	Waste Water	Crack Sealing and Seal Coating WWTP Drive	2	10	Waste Water Fund	\$0	\$9,300	\$0	\$0	\$0	\$0	\$0	\$9,300
242	Waste Water	Stand-by Generator	2	30	Waste Water Fund	\$275,000	\$0	\$0	\$0	\$0	\$0	\$0	\$275,000
243	Waste Water	In-line Muffin Monster Exchange	2	5	Waste Water Fund	\$0	\$8,150	\$8,150	\$0	\$0	\$0	\$0	\$16,300
196	Water	Valve/Hydrant Replacement	2	50	Water Fund-Revenue Bond	\$30,000	\$0	\$0	\$0	\$0	\$0	\$0	\$30,000
214	Water	Replace Water Main and Services on N. Marshall from Michigan to Forest	2	30	Water Fund	\$300,000	\$0	\$0	\$0	\$0	\$0	\$0	\$300,000
215	Water	Replace Water Main and Services on W. Mansion St.	2	30	Water Fund	\$0	\$140,000	\$0	\$0	\$0	\$0	\$0	\$140,000
216	Water	Black top driveway at the Water Treatment Plant	2	20	Water Fund	\$15,000	\$0	\$0	\$0	\$0	\$0	\$0	\$15,000
218	Water	Replace 4" Water Main on S. Marshall, Jefferson, S. Eagle and Brewer	2	30	Water Fund	\$0	\$0	\$530,000	\$0	\$0	\$0	\$0	\$530,000
		<b>TOTAL PRIORITY 2</b>				\$1,825,950	\$1,038,950	\$1,160,150	\$308,250	\$185,000	\$177,250	\$3,213,586	\$7,978,036
		<b>Priority 3</b>											
40	Cemetery	Cemetery Road Paving Project	3	20	Cemetery Trust Fund and General Fund	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$0	\$0	\$50,000
14	Electric	Recondition #1 Hydro	3	30	Electric Fund	\$0	\$0	\$75,000	\$0	\$0	\$0	\$0	\$75,000
47	Electric	Recondition #3 Hydro	3	30	Electric Fund	\$0	\$0	\$0	\$75,000	\$0	\$0	\$0	\$75,000
64	Electric	Rewind Generator #2	3	30	Electric Fund	\$0	\$0	\$0	\$120,000	\$0	\$0	\$0	\$120,000

**City of Marshall**  
**Capital Improvements Program**  
**Priority Summary by Source of Funding**

Record #	Department	Project Title	Priority Ranking	Estimated Useful Life	Source of Funding	2011-2012 Expenditure	2012-2013 Expenditure	2013-2014 Expenditure	2014-2015 Expenditure	2015-2016 Expenditure	2016-2017 Expenditure	Trade In or Grant Share	Total Expenditure
72	Electric	Rewind Generator #5	3	30	Electric Fund	\$0	\$0	\$0	\$0	\$132,000	\$0	\$0	\$132,000
165	Electric	Pearl Street Substation Upgrade	3	25	Electric Fund - Bond	\$0	\$0	\$2,000,000	\$3,000,000	\$0	\$0	\$0	\$5,000,000
228	Electric	Circuit Upgrade	3	50	Electric Fund - Bond	\$0	\$1,000,000	\$0	\$0	\$0	\$0	\$0	\$1,000,000
232	Electric	Relocation of Overhead Electric in South Alley between Jefferson Street and Hamilton Street and Sherman Drive/Wright Lane Upgrade	3	35	Electric Fund - Bond	\$0	\$0	\$0	\$0	\$400,000	\$0	\$0	\$400,000
233	Electric	Stuart Lake Circuit Underground Upgrade	3	30	Electric Fund - Bond	\$0	\$0	\$3,000,000	\$0	\$0	\$0	\$0	\$3,000,000
235	Electric	Siding of DPW Building	3	20	Motor Pool	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
179	Motor Pool	Park Identification Signs	3	25	General Fund	\$0	\$12,000	\$0	\$0	\$0	\$0	\$0	\$12,000
63	Parks	Master Plan for Brooks Nature Park	3	10	General Fund 50% and CRP Grant 50%	\$7,000	\$0	\$0	\$0	\$0	\$0	\$0	\$7,000
180	Parks	Riverwalk Connection to Ketchum Park	3	30	General Fund and DNR Grants	\$0	\$0	\$300,000	\$0	\$0	\$0	\$0	\$300,000
187	Parks	Kalamazoo Riverfront Parks Planning	3	30	General Fund and DNR Grants	\$0	\$0	\$40,000	\$0	\$0	\$0	\$0	\$40,000
188	Parks	Walnut Street Riverwalk	3	50	General Fund	\$0	\$0	\$30,000	\$0	\$0	\$0	\$0	\$30,000
190	Parks	South Ketchum Parking Lot Expansion	3	10	General Fund	\$0	\$0	\$52,000	\$0	\$0	\$0	\$0	\$52,000
191	Parks	Phase I Riverfront Park Development	3	100	General Fund 50% and DNR Grant 50%	\$75,000	\$0	\$0	\$0	\$0	\$0	\$0	\$75,000
193	Recreation	Replacement of Athletic Field Light System	3	15	Recreation Fund - Bond	\$0	\$0	\$0	\$0	\$300,000	\$0	\$0	\$300,000
58	Recreation	Seal Coating & Striping Athletic Field Parking Lot	3	5	Recreation Fund	\$0	\$0	\$7,500	\$0	\$0	\$0	\$0	\$7,500
77	Recreation	Permanent Pavilion/Grill at Sand Volleyball Courts	3	25	Recreation Fund	\$0	\$7,000	\$0	\$0	\$0	\$0	\$0	\$7,000
159	Streets	Sidewalk Ramp Installation	3	50	General Fund	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$0	\$60,000

**City of Marshall**  
**Capital Improvements Program**  
**Priority Summary by Source of Funding**

Record #	Department	Project Title	Priority Ranking	Estimated Useful Life	Source of Funding	2011-2012 Expenditure	2012-2013 Expenditure	2013-2014 Expenditure	2014-2015 Expenditure	2015-2016 Expenditure	2016-2017 Expenditure	Trade In or Grant Share	Total Expenditure
60	Streets	Washington/Elm Improvements	3	30	MVH Local	0	\$237,000	\$0	\$0	\$0	\$0	\$0	\$237,000
43	Town Hall	Soft Water System for Town Hall	3	10	General Fund	\$27,850	\$0	\$0	\$0	\$0	\$0	\$0	\$27,850
52	Waste Water	Electrical Controls Replacement	3	30	Waste Water Fund	\$0	\$0	\$65,000	\$0	\$0	\$0	\$0	\$65,000
17	Water	Replace Chlorine Gas with Sodium Hypochlorite	3	20	Water Fund	\$0	\$0	\$0	\$100,000	\$0	\$0	\$0	\$100,000
59	Water	Install New Water Service on Washington & Elm	3	30	Water Fund	0	\$45,000	\$0	\$0	\$0	\$0	\$0	\$45,000
73	Water	Replace Well House #4	3	30	Water Fund	\$0	\$0	\$0	\$30,000	\$0	\$0	\$0	\$30,000
217	Water	Build New Treatment Plant at Well #5 Site. S. Kalamazoo behind Moonraker	3	50	Water Fund	\$0	\$0	\$0	\$0	\$1,000,000	\$0	\$0	\$1,000,000
		<b>TOTAL PRIORITY 3</b>				\$129,850	\$2,121,000	\$5,589,500	\$3,345,000	\$1,852,000	\$10,000	\$0	\$13,047,350
		<b>Priority 4</b>											
21	Electric	Upgrade Transformer in South Substation	4	30	Electric Fund	\$0	\$0	\$0	\$0	\$200,000	\$0	\$0	\$200,000
90	Electric	Retrofit Breakers in Plant #1 Switchgear	4	30	Electric Fund	\$0	\$0	\$50,000	\$50,000	\$50,000	\$0	\$0	\$150,000
107	LDFA	Industrial Park Expansion	4	50	LDFA Fund and Bonding	\$0	\$0	\$0	\$0	\$6,000,000	\$0	\$0	\$6,000,000
174	Parks	Ketchum Park Restroom Near Kids Kingdom	4	25	General Fund	\$0	\$0	\$0	\$0	\$68,000	\$0	\$0	\$68,000
175	Parks	Ketchum Park Parking & Access	4	20	General Fund and DNR Grants	\$0	\$0	\$0	\$0	\$40,000	\$0	\$0	\$40,000
192	Parks	Sherman Court Pond Nature Trail	4	20	General Fund	\$0	\$0	\$5,000	\$5,000	\$5,000	\$0	\$0	\$15,000
82	Recreation	Athletic Field Sign	4	20	Recreation Fund	\$0	\$8,000	\$0	\$0	\$0	\$0	\$0	\$8,000
122	Recreation	Dug Outs	4	10	Recreation Fund	\$0	\$0	\$41,200	\$0	\$0	\$0	\$0	\$41,200
		<b>TOTAL PRIORITY 4</b>				\$0	\$8,000	\$96,200	\$55,000	\$6,383,000	\$0	\$0	\$6,542,200

City of Marshall  
**Capital Improvements Program**  
 Priority Summary by Source of Funding

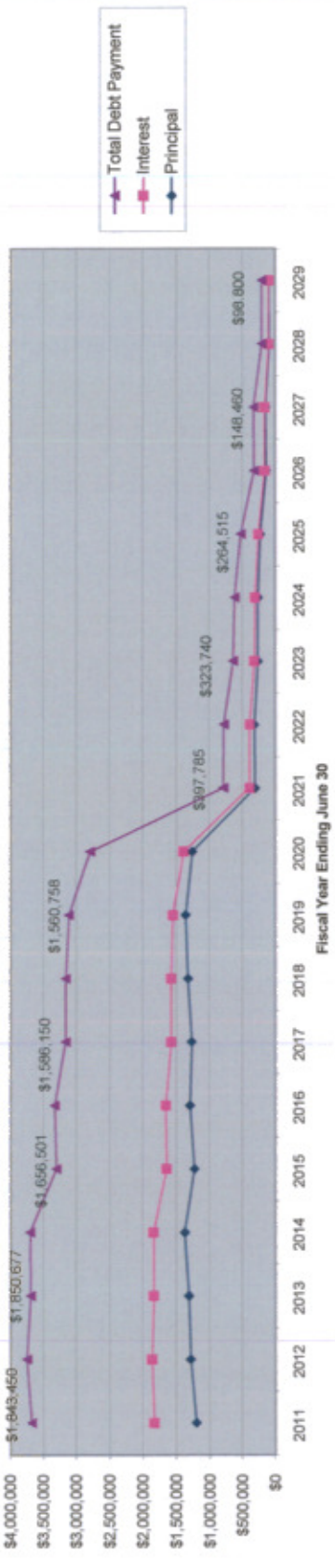
Record #	Department	Project Title	Priority Ranking	Estimated Useful Life	Source of Funding	2011-2012 Expenditure	2012-2013 Expenditure	2013-2014 Expenditure	2014-2015 Expenditure	2015-2016 Expenditure	2016-2017 Expenditure	Trade In or Grant Share	Total Expenditure
						\$3,959,146	\$9,535,242	\$7,263,669	\$4,041,596	\$8,644,123	\$391,649	\$3,266,786	\$37,171,211
	<b>GRAND TOTAL</b>												

City of Marshall, Michigan  
 FY12 - FY17 Capital Improvement Program  
 Proposed Financing Plan for All Priorities by Revenue Source

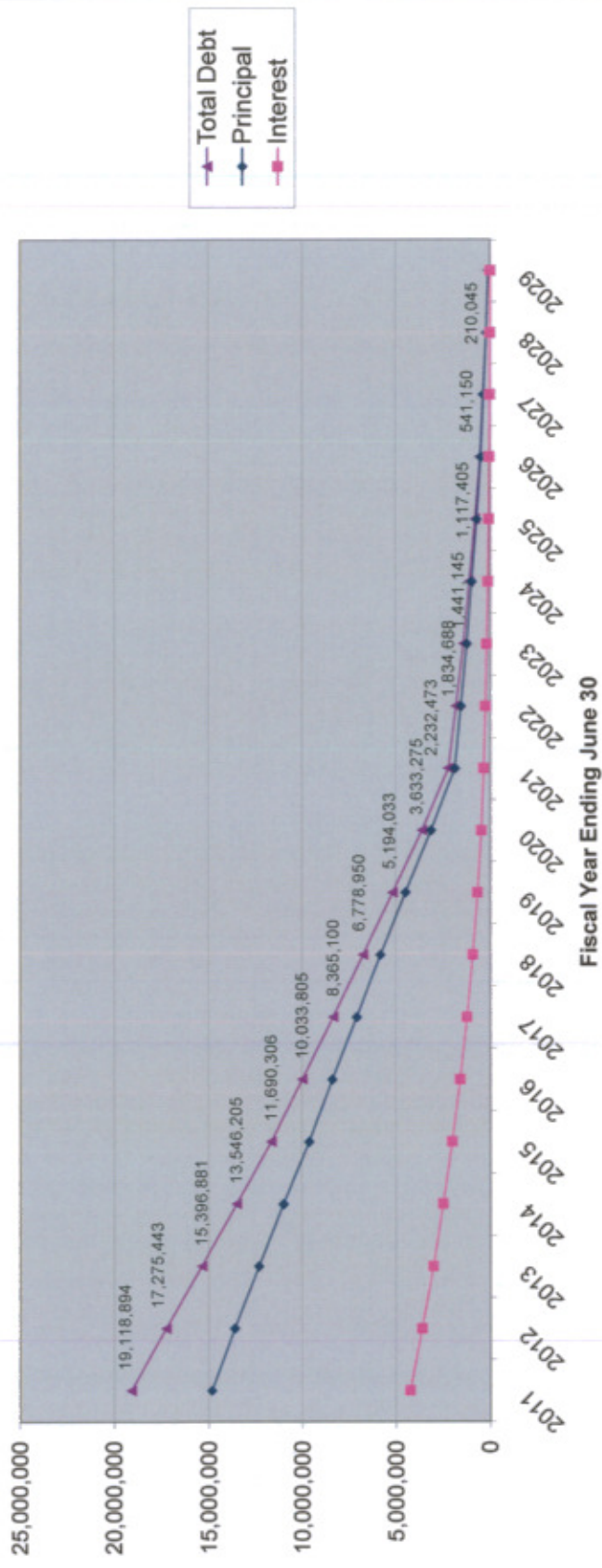
	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	Grants/Trade In/Other	Total
General Fund Revenue	\$ 437,530	\$ 150,500	\$ 506,500	\$ 75,000	\$ 215,750	\$ 66,000	\$ 3,200	\$ 1,454,480
General Fund - Building Authority Bond	-	6,014,000	-	-	-	-	-	6,014,000
Public Svcs. Building - Dept. Allocations	178,000	-	-	-	-	-	-	178,000
Special Projects - Fountain Maintenance	5,000	-	-	-	-	-	-	5,000
MVH-Major & Local	194,000	474,750	270,500	237,750	130,000	130,000	2,335,400	3,772,400
Airport	10,350	3,750	-	9,500	-	7,250	878,186	909,036
Cemetery Trust Revenue	55,000	10,000	10,000	10,000	10,000	-	-	95,000
Recreation Revenue	-	15,000	48,700	-	-	-	-	63,700
Recreation Fund - Bond	-	-	-	-	300,000	-	-	300,000
Downtown Development Auth. Revenue	75,000	10,000	10,000	10,000	-	-	50,000	155,000
Marshall House Revenue	10,000	10,000	10,000	10,000	10,000	10,000	-	60,000
Marshall House - Building Authority Bond	113,266	110,292	107,319	104,346	101,373	98,399	-	634,995
Local Dev Finance Authority Bond	-	-	-	-	6,000,000	-	-	6,000,000
Electric Revenue	786,000	399,500	377,500	375,000	397,000	-	-	2,335,000
Electric Bond	1,131,000	1,999,000	5,075,000	3,080,000	480,000	80,000	-	11,845,000
Waste Water Revenue	494,000	147,450	278,150	-	-	-	-	919,600
Water Revenue	470,000	185,000	-	130,000	-	-	-	785,000
Water Revenue Bond	-	-	530,000	-	1,000,000	-	-	1,530,000
Motor Pool	-	6,000	40,000	-	-	-	-	115,000
<b>Total</b>	<b>\$ 3,959,146</b>	<b>\$ 9,535,242</b>	<b>\$ 7,263,669</b>	<b>\$ 4,041,596</b>	<b>\$ 8,644,123</b>	<b>\$ 391,649</b>	<b>\$ 3,266,786</b>	<b>\$ 37,171,211</b>

Note: Includes all priorities

# CITY OF MARSHALL ANNUAL DEBT PAYMENTS - ALL FUNDS



# CITY OF MARSHALL OUTSTANDING DEBT - ALL FUNDS



**City of Marshall, Michigan  
Total Debt (Principal and Interest)  
Percent of Total Debt Amortized Within Ten Years**

Fiscal Year Ending June 30	Building Authority	General Fund***	MVH-Major	DDA*	LDFA	Electric**	Wastewater***	Water***	Installment Purchase	Total
2011	264,231	15,128	145,923	58,943	168,983	156,370	465,690	538,279	29,905	1,843,450
2012	263,250	14,753	145,375	57,653	168,046	152,290	497,057	550,234	29,906	1,878,562
2013	261,875	19,365	144,478	61,333	128,230	153,025	507,512	544,953	29,906	1,850,677
2014	265,313	18,765	143,220	64,758	130,030	153,588	509,724	540,598	29,905	1,855,899
2015	263,468	18,165		62,918	126,715	153,780	499,656	531,800		1,656,501
2016	266,438	17,550		66,038	123,400	153,645	515,198	526,437		1,668,705
2017	352,938	16,935		68,878	125,085	156,215	405,992	458,108		1,586,150
2018	365,400	16,320		71,428	121,575	157,325	402,598	450,272		1,584,918
2019	376,800	15,660		73,678	117,795	156,135	385,708	434,982		1,560,758
2020	468,000			75,678	114,015	154,815	365,392	222,903		1,400,803
2021				77,395	115,235	60,630		144,525		397,785
2022				78,825	111,245	58,718		144,755		393,543
2023					107,255	61,805		154,680		323,740
2024					103,170	59,680		148,890		311,740
2025					99,085	62,480		102,950		264,515
2026						60,060		103,870		163,930
2027						62,640		104,535		167,175
2028								104,945		104,945
2029								105,100		105,100
<b>\$ 3,147,711 \$ 152,640 \$ 578,995 \$ 817,520 \$ 1,859,864 \$ 1,975,200 \$ 4,554,526 \$ 5,912,816 \$ 119,622 \$ 19,118,894</b>										

Percent Amortized Within Ten Years

100.00%	100.00%	100.00%	80.89%	71.18%	78.43%	100.00%	81.16%	100.00%	88.32%
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\*Does not include parking structure lease payments

\*\*Does not include any portion of MSCPA debt owed by Marshall

\*\*\* Does not include Stanton lease payments