

**City of East Lansing**

**Capital Improvements Program**

**2018-2024**

**Adopted:**

# **City of East Lansing**

## **Capital Improvements Program**

**2018-2024**

Mayor Mark Meadows  
Mayor Pro Tem Erik Altmann  
Councilmember Ruth Beier  
Councilmember Shanna Draheim  
Councilmember Aaron Stephens

### **Primary Policies**

The City shall continue to maintain its buildings, park and recreation facilities, utilities, streets and sidewalks at a level adequate to protect its capital investment and make the repairs on the worst building, utilities, streets and sidewalks a top priority, while implementing asset management principles to extend the service life of the City's capital assets at the lowest cost with balanced investment across the community.

The City shall actively promote the implementation of City Council's Strategic Priorities and the City's Comprehensive Plans in order to improve the quality of life and desirability of living in East Lansing.

## User's Guide

The purpose of this document is to present the City of East Lansing, Michigan, Capital Improvements Program (CIP) for fiscal years 2018-2024.

The text explains the statutory basis for the CIP, the process City staff followed to plan for and create the program, and the funding sources for program projects. The tables list projects completed during the current fiscal year and those projected out for the next six years and the source used or proposed to fund the projects.

It should also be noted that this document is, by State law, intended to provide a **“general order of priority”** for the projects listed. In addition, the cost estimates that are provided are the best available at the time of this publication. Cost estimates and project descriptions may change slightly from year to year as they are fine tuned and better information becomes available. **The final budget adopted by City Council may vary from the projects and priorities listed in this document due to financial conditions, Council priorities, or other reasons.**

Any questions with regard to this document may be directed to members of the City Council or the staff of the Department of Planning, Building and Development at (517) 319-6941.

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## **I. INTRODUCTION**

### **A. Purpose**

The purpose of the CIP is to guide the development and maintenance of necessary public improvements within a framework of sound planning and responsible fiscal management. The programming process serves as a focus for discussion of public needs and priorities in context with the financial resources of the City. Programming physical improvements helps ensure that projects are developed and implemented in accordance with the community's needs, without creating instability in the City's finances. Programming also helps ensure that various projects will be compatible and complementary with one another and will conform to overall community goals. Through the programming process, the City is also better able to take advantage of Federal or State funding programs that become available.

### **B. State Law**

Under Act 285 of the Michigan Public Acts of 1931, the Municipal Planning Act, the City must annually prepare and adopt of a CIP. The City Council has appointed the City Manager to prepare the CIP to assist them in the development of the budget. Pursuant to Section 125.39 of the Act, the City Manager:

"shall prepare coordinated and comprehensive programs of public structures and improvements. The City Manager shall annually prepare such a program for the ensuing 6 years, which program shall show those public structures and improvements, in the general order of their priority, which in the City Manager's judgment will be needed or desirable and can be undertaken within the 6-year period. The above comprehensive coordinated programs shall be based upon the requirements of the community for all types of public improvements, and, to that end, each agency or department of such municipality concerned with such improvements shall upon request furnish the commission with lists, plans and estimates of time and cost of public structures and improvements within the purview of such department."

### **C. City Code**

As part of its annual revision, the City Manager requests other City commissions, boards and staff to submit updated and new project information for the CIP. The projects and scheduling presented in this CIP reflect this input in conjunction with the goals and objectives of the Comprehensive Plan.

**The CIP is provided by the City Manager as a recommendation for physical improvements to be considered in the annual City Budget process.**

The CIP identifies all public structures or improvements which will be needed or are desired over a six-year programming period. The CIP also presents funding priorities and strategies for consideration by Council.

## **II. OVERVIEW OF CAPITAL IMPROVEMENTS PROGRAMMING**

### **A. Eligible Projects**

The Capital Improvements Program does not contain all capital expenditures that are proposed or anticipated to be made by the City. Specifically, CIP projects or activities are limited to the following categories:

- 1. Acquisition:** The acquisition of land, structures or facilities for long-term public use. Costs include appraisal, survey and legal fees; demolition; initial remodeling and repair work; and initial purchases of equipment and furnishings.
- 2. Construction:** The construction, development, expansion, and major maintenance of public buildings, streets, parks, utilities or other public facilities to expand or improve the provision of public services. Costs include architectural, engineering and legal fees; and the equipment and furnishings purchased as part of the construction projects.

Not included in these definitions is the purchase of capital equipment which is not part of an overall acquisition or construction project, such as the replacement of fire trucks. Although operational and maintenance expenses resulting from a project are important considerations, they are not budgeted through the CIP process.

These tasks for programming Capital Improvements are explained in detail below and are repeated annually with a six-year projection.

#### **Task #1: Prepare Inventory and Needs Assessment**

The inventory and needs assessment is the most involved task in relation to preparing the CIP. First an inventory of each City building, street, water line, sewer line and related facility must be completed. Any future facilities or infrastructure needs identified through the City's Comprehensive Planning process are also included in the inventory. Maintenance records are then used to identify facilities that may need to be reconstructed or upgraded. Section IV-A and IV-B of this report provides additional detail on the inventory and needs assessment process used by the various Departments in preparing the Capital Improvements Program.

#### **Task #2: Project Schedule and Cost Estimate**

The schedule and cost estimate for each of the projects identified within the inventory and needs assessment are prepared by City leadership staff. This includes but is not limited to, the Director of Public Works, who is responsible for water, sewer, solid waste, and transportation related items; the Director of Parks, Recreation, Arts and Facilities, who is responsible for building, parks, and recreation infrastructure related items; and the Director of Planning Building and Development, who is responsible for parking, economic development, and neighborhood re-development related items. The schedule and cost estimate of each of the projects identified

within the first task must be prepared by the Director of Parks, Recreation, Arts and Facilities, the City's Engineering staff, or by a consultant engineer working for the Department of Public Works.

**Task #3: Project Revenue and Budget**

The revenue and budget for the projects identified in the CIP are projected out over six years. Ideally, revenue projections are developed by using estimates based upon the City Manager's budget model, with direction from the Finance Director.

**Task #4: Analyze Financing Sources**

Financing sources for each project are identified by the responsible Department or staff person and may include multiple sources such as the general fund, federal or state grants, special assessments, general obligation or revenue bonds, and tax increment financing.

**Task #5 Prioritizing**

The projects identified in the inventory and needs assessment are prioritized by the responsible department, according to the priorities they have identified. Those priorities may include items such as available funding, level of need for the resource or facility, or the ability of the improvement to minimize or reduce operating costs.

**Task #6: Capital Improvements Program Approval Process**

The City Council will first hold a public hearing on the draft document. After all questions are answered and any recommended changes are made, the Council will approve the CIP.

**III. FUNDING SOURCES**

**A. General Fund (GF)**

General fund monies are primarily derived from local property taxes, state revenue sharing, fines, fees, and charges to other funds. Based upon administrative and operational expenses and committed bond payments, the amount of funds available for capital improvements has varied from year to year. Over the past several years, these funds have dropped significantly for several reasons. Over the past decade the City has experienced an over \$2 million per year decline in state revenue sharing (\$4 million per year if revenue sharing kept pace with inflation). Taxable Value declined 11.2% from 2009 to 2013 before it began to increase in 2014. Currently it has not reached the Taxable Value level of 2009.

**B. Street Fund (SF)**

Major and Local Street Fund monies are allocated based on a formula devised to distribute a representative portion of the State Gas and Weight Taxes collected to each municipal road agency. However, even with a proposed increases in State funding, the amount of this funding

continues to be inadequate to properly maintain the road network. The funds are collected from State excise taxes included in gasoline prices and vehicle licensing fees. The State continues to discuss potential changes to the current funding sources and the amounts allocated to each municipality in an attempt to better fund the current street systems.

**C. Parking Fund (PF)**

Funds generated from the City's parking system are used to maintain the system and if available, expand the parking facilities.

**D. Park Fund (Park)**

Funds generated from the Aquatic Center are used to maintain the center.

**E. Water Fund (WF)**

The Water Fund monies are derived primarily from user fees for City water services. This fund can only be used to maintain and improve the water system

**F. Sewer Fund (SW)**

The Sewer Fund monies are derived primarily from user fees for City sewer services. This fund can only be used to maintain and improve the sewer system

**G. Special Assessment (SA)**

Capital improvements that benefit particular properties, rather than the community as a whole, may be financed more equitably by special assessment; that is, by those who directly benefit. Local improvements often financed by this method include street improvements (including pavement, curb and gutter, sidewalks, etc.), sanitary and storm sewers, and water mains. These types of improvements are often needed to serve new developments. This method was used most recently to finance street and utility improvements to the Coolidge and Coleman Road extensions and the installation of utilities and alley reconstruction projects.

**H. Solid Waste Fund (SWF)**

The Solid Waste Management Fund accounts for landfill tipping fees, refuse and yard waste collection and recycling services. Property taxes currently allocated at 1.8250 mills account for the majority of the fund's income. Charges for Services, Interest Income and other Financing Sources make up the remainder of income for the fund.

**I. Natural Resource Trust Fund (MNRTF)**

The Michigan Natural Resources Trust Fund (MNRTF) provides funding for natural resource protection and outdoor recreation. By law, no more than 25 percent of the Trust Fund revenues



available for appropriation each year can be used for development, therefore the majority of funding is allocated for acquisition projects.

**J. Community Development Block Grant (CDBG) Program or State Revolving Fund (SRF)**

CDBG monies are funds from the Federal government allocated to cities to finance public improvements and programs which serve to eliminate blight and to principally benefit low and moderate income persons.

The total 2017-2018 Block Grant allocation to the City is \$413,150. The Community Development Advisory Committee approved their recommendations and forwarded them on to City Council as part of the budget process. The estimated amount for 2018-2019 is \$413,150.

**L. Michigan Department of Transportation (MDOT)**

The State Transportation Improvement Program (STIP) is a federally mandated planning document that lists surface transportation projects that the state plans to fund with federal aid. It provides information on the programs and projects to which state and local transportation agencies have committed to over the next four years, and verifies that transportation resources are available and sufficient to finance them. Included are all federal-aid transit projects, rural federal-aid road projects, federal-aid road projects in small urban areas, and state trunkline projects located within MPO areas. By federal law the STIP list must be:

- Consistent with the state long-range plan
- Financially constrained
- Cover at least four years
- Provide for input from the public
- Meet air quality conformity regulation

The primary source of funding for Michigan's transportation programs are federal funds provided under multi-year federal authorization acts. Federal surface transportations funds are generated from federal motor fuel taxes and certain excise taxes, and distributed to states by formula. The STIP is a compilation of transportation projects that will be authorized for funding in fiscal years 2015-2020. Financially constrained means the total cost of the listed projects cannot exceed available funds; so for a project to be listed in the STIP it has to have identified funding within the four-year period covered by the document. This makes the STIP an important reference used by the Federal Highway Administration (FHWA) and the Federal Transit Administration (FTA) in approving the use of federal funds for transportation projects in Michigan. Projects must be in the STIP to move forward to completion.

**M. Tax Increment Financing (TIF)**

The City utilizes Tax Increment Financing (TIF) for a variety of development projects. TIF is the utilization of the incremental increase in tax revenue generated from a new project that is greater in value from the development it replaces. The City has three entities that have the ability to

utilize TIF: Downtown Development Authority (DDA), Brownfield Redevelopment Authority (BRA), and Local Development Finance Authority (LDFA). The specific use of TIF revenue varies between these three entities, but generally provides for the use of TIF revenue to complete public components of a project. These components include a wide range of activities such as streets and parking (DDA), environmental remediation (BRA), and business development services (LDFA). The legal basis and regulations of TIF are provided for through Michigan law.

#### **N. Donation and Other (DON)**

As traditional sources for capital improvements become restricted, private and other non-traditional fund sources offer an opportunity to bridge funding gaps. It is anticipated that the City will begin to look to private funding sources to assist in the overall financing of many public improvements. Private sources are particularly attractive for projects with high visibility such as the Fountain Square improvements at the University Place/Marriott on M.A.C. Avenue. The City also looks at many other creative ways to fund small capital improvement projects through methods such as small grants and “crowd funding”, a method by which a small amount of money is raised from a large number of people to fund a project. This process was recently used to raise money to improve the alley off Ann Street Plaza.

#### **O. Bonding (B)**

Many expensive projects are financed with General Obligation Bonds, which are then paid off through the General Fund revenues. General Obligation Bonds are bonds issued by the City which are backed by the full faith and credit of the City. Excluding revenue bonds, which are assumed to be self-liquidating, a City is permitted to issue bonds totaling up to 10 percent of the City's assessed value.

### **IV. STATUS REPORT**

#### **A. Inventory**

An inventory is kept for all Capital Improvement items to assure that the provisions for maintenance and replacement are made.

##### **1. Water and Sewer Utility Inventory**

The Department of Public Works has prepared an inventory of the water and sanitary sewer system. There are four basic facets of the water utility: water lines, valves, meters, and fire hydrants. For the sanitary sewer utility, the data file simply contains information on sewer lines. The sewer lines may consist of combined sanitary and storm sewer lines or separate sanitary sewer lines.

The information for the utility database consists basically of mapped data. This mapped data for sewers includes information on pipe diameter, pipe length, manholes and catch basins. Specific project files include data on pipe material and the date the pipe is installed.

The water database contains specific information dealing with water valves, meters, fire hydrants and includes items such as an identification number, size and pipe material. In addition to being filed according to a specific project improvement, information is also included in a mapped database.

## **2. Local and Major Streets Inventory**

The local and major streets inventory and analysis is completed by using the “Roadsoft” program, developed by the Michigan Department of Transportation. The program contains an assessment of street conditions based upon pavement type, pavement width, its condition, and similar characteristics. These factors may change along each street segment and block.

## **3. City Building Inventory**

The Government Buildings Division has building profiles which contain information on the approximate size of the building in square feet, the date in which the building was constructed, including additions to the building, and the assessment of the general condition of the building.

A thorough analysis of elements of the buildings (City Hall, Fire Station, Library, etc.) including assessments of the structures, roofs, HVAC, plumbing, electrical, floors, walls, etc. was completed in 2005. Included within the assessments are targeted dates for replacement of various elements.

## **4. Parking System Inventory**

The most recent facility assessment was performed in FY2016 and a facility restoration project will commence in FY2018 and continue into FY2019. That work follows the FY2017 project that replaced the Parking Access Revenue Control system (gated lot equipment), the multi-space meters (adding Valley Court and City Hall), and replace the single space meters with new smart meters that will accept credit cards and allow for payment with smart phones. Also in FY2017 and FY2018 the parking deck in the MAC garage was reconstructed because of severe deterioration. The new Center City garage will be constructed in FY2018 and FY2019.

## **5. Park and Recreation Facilities Inventory**

An inventory of existing park and recreation facilities was completed in 2006 as part of the 2007 update to the City of East Lansing 5-Year Parks Plan. The inventory was conducted over a two-month period, during which time the park plan consultants visited each park and recreation facility and observed and evaluated specific site criteria. Recommendations were made and these were used to develop policy statements, action priorities and a 5-Year Action Program for the City Parks and Recreation system.

## **6. Downtown Inventory**

Downtown improvements have been implemented in conjunction with redevelopment projects that have taken place during the past few years. Additional bike loops, landscaping, and the

installation of new litter and recycling containers throughout is currently being implemented throughout the downtown. In future years similar improvements will take place in other areas of the downtown.

## **B. Needs Assessment**

To determine CIP needs for East Lansing, it is necessary to distinguish between expansion or improvement needs and repair and replacement needs. The need for improved facilities is based upon the level of service the City finds desirable. In general, repair or replacement projects are designed to alleviate the need for more costly replacement of entire systems.

### **1. Utilities**

The City has 94 miles of watermain with planned upgrades to the existing distribution system to continue to meet the needs of the existing service area. The age of the water lines range from one to 70 years old. When watermain replacements are needed, plans and specifications are developed and a public bidding process is conducted. Each year approximately 10 to 20 valves are typically replaced through routine maintenance and construction projects. Yearly expenditures for maintenance of the water system typically average \$100,000 per year.

The sewer system continues to require the greatest need for major improvements. The basic problem with the maintenance of the sewer system relates to the fact that breaks in the sewer lines cannot be anticipated or forecast with any great deal of certainty. The City has addressed the need to eliminate the environmental pollution created by the combined sewer overflow into the Red Cedar River. This was accomplished with the construction of the Combined Sewer Overflow (CSO) system Control Project. This was a three phase project. The project consisted of constructing a tunnel to intercept the additional combined sewage, which is primarily storm water, and transporting it to a large retention basin for primary treatment. The water is then pumped to the Water Resource Recovery Facility for treatment until flows subside to normal levels and adequate capacity is available in the existing system. The funds to cover this project were provided by a low interest loan from the State of Michigan Revolving Loan Fund. Increases in the sewer rates will continue to be needed in the future to pay for additional upgrades and improvements to the system.

The City analyzes sewer lines through televising and cleaning. Any problems that are encountered are scheduled for routine maintenance or correction. An average of \$150,000 per year is projected for these repairs, which is done through contractual services.

The City's Water Resource Recovery Facility has made significant improvements over the years but because of the ongoing wear on mechanical and electrical equipment there is a continual need to replace equipment and upgrade technology in the plant. The City continues to review and schedule upgrades to increase capacity and improve efficiency. The plant is currently designed to handle flows in the range of about 20 million gallons per day. Average flows are now about 12 million gallons per day. The current plant has sufficient capacity to meet the City's existing needs, but to better meet the environmental and future development needs, we will continue to improve the technology and add additional capacity for the future.

## **2. Major and Local Streets**

The City has 63.83 miles of local streets, 21.59 miles of major streets, and seven miles of State highways. Much of the funding available for the maintenance and improvement of these streets in the past came from funds distributed through Public Act 51 - Gasoline Tax Funds.

The City intends on adding to the street system with the extension of Coleman Road from West Road to Wood Street which is currently in the preliminary planning stages. The City is working with neighboring jurisdictions, property owners and developers regarding funding and construction timing for street improvement projects.

## **3. Parks and Recreation**

The City of East Lansing has nearly 490 acres of parks, recreation and open space property. These properties are discussed in the Parks, Recreation, Open Space and Greenways Plan. This plan contains a five-year proposed capital improvement program and must be updated every five years in order to be eligible for funds from the Michigan Department of Natural Resources Grant Programs. The latest plan was completed in 2015 and outlines the City of East Lansing parks and recreation program for the years 2015-2019.

## **4. Parking**

Staff constantly evaluates ideas which could improve the operational and financial aspects of the parking system in terms of operational savings, increased revenue, and alternative management structure. The Parking Division has obtained the services of an engineering consultant to evaluate the garages and develop a needs assessment and bid out and manage any required repairs. The Parking Division operates under a 5-Year Parking Master Plan on financial, maintenance and operational matters.

## **V. CAPITAL IMPROVEMENT POLICIES**

In reviewing capital improvements, the City's Master Plan has been a major policy document used in evaluating the Capital Improvements Program. The Master Plan, which was adopted by the Planning Commission in 2006 and currently in the process of being updated, is a broad based policy document for the physical, economic and social development of the City. One of the key methods for implementing the Plan's proposals lies in the City's schedule of public improvements as expressed in the annual CIP.

The following is a general guideline used in preparing the CIP:

1. The City will develop a multi-year plan for capital improvements, update it annually and continue to increase the percentage of the City's Community Development Block Grant (CDBG) allocations committed for capital improvements.

2. The City shall, to the extent possible, designate that funding for second and third priority projects be given a higher priority and leverage City resources with private or other fund sources.
3. The City will maintain its physical assets at a level adequate to protect the City's capital investment and to minimize future maintenance and replacement costs.
4. The City will use the following criteria to evaluate the relative merit of each capital project:
  - a. capital improvements which preserve the City's infrastructure;
  - b. capital improvements which foster the vitality and physical improvement of the downtown;
  - c. capital improvements which preserve the residential character of the community;
  - d. capital improvements which improve the City's parks and its recreational facilities; and
  - e. projects which are environmentally advantageous to both the natural and human habitat.
5. Priority will be given to those capital improvements which:
  - a. implement a component of the Master Plan;
  - b. are part of an approved replacement schedule;
  - c. reduce either the cost of operations or energy consumption; and
  - d. support neighborhood preservation efforts in an area where the majority of households are of low and moderate income.
6. No project will be considered for capital funding if:
  - a. the project violates the principles and concepts of the Master Plan; and
  - b. the project is duplicative of other public or private services.

## **VI. SUMMARY**

Table 1 is a six-year projection on spending for various functional areas of the City's Capital Stock. Table 2 is the City's bonded indebtedness and payment schedule for the next six years.

If the City is to achieve the goals and objectives presented in the Master Plan, it will be necessary to make a firm financial commitment to capital improvements through a variety of means in ensuing years. The improvement or replacement of existing public facilities and the development of needed new facilities must be weighed equally with the continued provision of local programs and services in allocating local resources. If existing facilities are allowed to deteriorate, it could result in more severe financial pressures in the future when breakdowns occur. Failure to provide new facilities could impede growth or diminish the desirability, and thus the value, of existing development.

One major emphasis in the last few years has been the repair and replacement of primary public facilities – streets, including curbing and sidewalks, sewers and water lines. These projects are a high priority as the Master Plan recognizes that the maintenance of such facilities is vital to the goal of preserving the quality of existing neighborhoods in the City.

**2018-2024**

**Capital Improvements Program**

**APPENDIX**



Capital Improvement Item	2018 Proposed	2018 Actual	Fund Source	2019 Proposed	2020 Proposed	2021 Proposed	2022 Proposed	2023 Proposed	2024 Proposed	Not Funded (NF)	General Fund (GF)	Street Fund (SF)	Parking Fund (PF)	Park Fund (Park)	Water Fund (WF)	Sewer Fund (SEF)	Library Fund (LF)	Special Assmt. (SA)	Solid Waste Fund (SWF)	Natural Resource Trust Fund (NRTF)	CBDG or *State Revolving Fund (SRF)	MDOT	DDA/BRA TIF (TIF)	Donation, Grant or Other (DON)	Bond (B)	
<b>Municipal/Public Facilities</b>																										
City Hall																										
<b>Security Upgrade to City Hall Including</b>																										
1	Construct ADA parking on Abbot Road	30,000	-																							
2	Remove wallpaper and paint courtrooms, court lobby, secured corridor, jury room and offices	40,000	8,624	GF																						
3	Replace carpet in court secured corridor	15,000	15,000	GF																						
4	Engineering fee for lift to replace freight elevator	20,000	5,100	GF																						
5	Install new lift in place of freight elevator	500,000	145,000	GF																						
6	ADA door openers for Courtrooms	-	7,200	GF																						
7	City hall ADA site plan improvements	-	230,000	GF																						
8	Rebuild main air handler and return air	-	7,720	GF																						
9	Facility condition assessment: including electrical, HVAC, plumbing, life safety needs, etc.	20,000	-		30,000						30,000															
10	Site wayfinding signage	20,000	-			20,000					20,000															
11	Interior wayfinding signage	15,000	-			15,000					15,000															
12	Proximaty card system	35,000	-			35,000					35,000															
13	Egress lighting to meet code requirements	130,000	-			130,000					130,000															
14	Fire alarm system to meet code requirements	97,000	-			97,000					97,000															
15	Replace central interior stairwell handrails					25,000					25,000															
16	Install stand alone air unit in court IT room					23,000					23,000															
17	Replace jail cell locks					25,000					25,000															
18	Renovate police women's locker room					110,000					110,000															
19	Replace city hall AHU						58,000				58,000															
20	Replace carpet and paint - community events, communications, and pre-sentencing offices and paint second floor hallways						40,000				40,000															
21	Replace carpet and paint conference room A						10,000				10,000															
22	Replace carpet and paint police administration office						50,000				50,000															
23	Re-paint and re-carpet 1st floor offices and common area						100,000				100,000															
24	Upgrade energy management system							50,000			50,000															
25	New pew cushions or chairs for courtrooms							10,000			10,000															
26	Upgrade Interior of elevator car (cosmetic)							10,000			10,000															
27	Replace trash compactor							30,000			30,000															
28	Boiler replacement								200,000		200,000															
<b>SUBTOTAL</b>		<b>922,000</b>	<b>418,644</b>		<b>30,000</b>	<b>480,000</b>	<b>258,000</b>	<b>100,000</b>	<b>200,000</b>		<b>1,038,000</b>	<b>30,000</b>														
Library																										
29	New Boiler				100,000												100,000									
33	Resurface and expand parking lot				75,000												75,000									
30	Repair and replacement of sidewalks and handicap ramp	partially completed in 2016 (20,000)		Library		25,000											25,000									
31	Replacing existing chiller with 410A refrigerant, scroll compressors							100,000									100,000									
<b>Technology Projects</b>																										
32	New self checkout stations				30,000				30,000								60,000									
<b>SUBTOTAL</b>		<b>0</b>	<b>0</b>		<b>205,000</b>	<b>25,000</b>		<b>100,000</b>	<b>30,000</b>								<b>360,000</b>								<b>0</b>	
Fire Station																										
34	Exterior lighting replacement	10,000	-																							
35	Facility condition assessment	10,000	-																							
36	Multi-zone AHU w/hot water coil	23,000	-																							

Capital Improvement Item	2018 Proposed	2018 Actual	Fund Source	2019 Proposed	2020 Proposed	2021 Proposed	2022 Proposed	2023 Proposed	2024 Proposed	Not Funded (NF)	General Fund (GF)	Street Fund (SF)	Parking Fund (PF)	Park Fund (Park)	Water Fund (WF)	Sewer Fund (SEF)	Library Fund (LF)	Special Assmt. (SA)	Solid Waste Fund (SWF)	Natural Resource Trust Fund (NRTF)	CBDG or *State Revolving Fund (SRF)	MDOT	DDA/BRA TIF (TIF)	Donation, Grant or Other (DON)	Bond (B)	
37 Replace truck bay heater	8,000	-																								
38 Replace Boiler	-	100,000	GF																							
39 Automated Overhead Door Closer	10,000	-		35,000							35,000															
40 Replace main AHU	52,000	-			55,000					55,000																
41 Remote door lock	10,000	-			10,000					10,000																
42 Energy management system						65,000				65,000																
43 Interior renovation including kitchen and administration area					25,000	150,000				175,000																
<b>SUBTOTAL</b>	<b>123,000</b>	<b>100,000</b>		<b>35,000</b>	<b>90,000</b>	<b>215,000</b>				<b>305,000</b>	<b>35,000</b>															
<b>Department of Public Works</b>																										
44 Replace munchkin boiler				85,000																					85,000	
45 Replace south overhead door				10,000																					10,000	
<b>SUBTOTAL</b>	<b>0</b>	<b>0</b>		<b>95,000</b>																					<b>95,000</b>	
<b>Hannah Community Center</b>																										
46 Roof replacement	160,000	440,000	GF																							
47 Basement pool ceiling concrete repair				20,000							20,000															
48 Gymnasium emergency exit concrete stairway replacement				15,000							15,000															
49 Theater sound & lighting upgrades	50,000	6,000	GF	50,000	64,000					64,000	25,000														25,000	
50 Fitness equipment replacement	20,000	-			120,000					120,000																
51 Tuck pointing	12,000	-			33,200					33,200																
52 Concrete masonry analysis					11,000					11,000																
53 Upgrade duct work in pool basement					35,000					35,000																
54 Replace rear service entry pavement					10,000	100,000				110,000																
55 Replace emergency management system	100,000	-			10,000	90,000				100,000																
56 Renovate restrooms					50,000	50,000				100,000																
57 1st & 2nd floor technology (projectors, screens, etc.)	85,000	-			45,000	45,000	45,000	45,000		180,000																
58 Swimming pool renovations						200,000				200,000																
59 3rd floor access improvements including covered fire escape	150,000	-				150,000	1,000,000			1,150,000																
60 Add canopy over front entry doors							45,000			45,000																
61 Replace front entrance doors							30,000			30,000																
62 Whole building generator							200,000			200,000																
63 Replace pool water recirculation pump	15,000	-					20,000			20,000																
64 Resurface parking lots	30,000	-					100,000			100,000																
65 Construct parking lot on south side of building									100,000	100,000																
<b>SUBTOTAL</b>	<b>622,000</b>	<b>446,000</b>		<b>85,000</b>	<b>378,200</b>	<b>635,000</b>	<b>1,440,000</b>	<b>45,000</b>	<b>100,000</b>	<b>2,598,200</b>	<b>60,000</b>														<b>25,000</b>	
<b>Valley Court Community Center</b>																										
66 Repair retaining wall behind building	25,000	-			50,000					50,000																
67 Tuck pointing					15,000					15,000																
68 Roof replacement								50,000		50,000																
69 HVAC replacement									25,000	25,000																
<b>SUBTOTAL</b>	<b>25,000</b>	<b>0</b>			<b>65,000</b>			<b>50,000</b>	<b>25,000</b>	<b>140,000</b>																
<b>Board of Water and Light Building</b>																										
70 Roof, eves, soffit replacement	50,000	-			65,000					65,000																
71 Interior Improvements						150,000				150,000																
<b>SUBTOTAL</b>	<b>50,000</b>	<b>0</b>			<b>65,000</b>	<b>150,000</b>				<b>215,000</b>																
<b>Pump House</b>																										
72 Remove overgrown landscaping	5,000	-																								
73 Roof, eve & soffit replacement				22,500						22,500																
74 Repair historic windows & install storm windows					20,000					20,000																
75 Replace east entry door and side lights					10,000					10,000																
<b>SUBTOTAL</b>	<b>5,000</b>	<b>0</b>		<b>22,500</b>	<b>30,000</b>					<b>10,000</b>	<b>42,500</b>															
<b>Aquatic Center</b>																										
76 Replace gate	8,000	-																								
77 Replace dumpster screen	5,000	-																								
78 Replace boiler with condensing boiler	44,000	155,000	GF																							
79 Equipment reserve for typical replacement needs	25,000	-		25,000	25,000	25,000	25,000	25,000	25,000					150,000												
80 Replace awning					30,000					30,000																

Capital Improvement Item	2018 Proposed	2018 Actual	Fund Source	2019 Proposed	2020 Proposed	2021 Proposed	2022 Proposed	2023 Proposed	2024 Proposed	Not Funded (NF)	General Fund (GF)	Street Fund (SF)	Parking Fund (PF)	Park Fund (Park)	Water Fund (WF)	Sewer Fund (SEF)	Library Fund (LF)	Special Assmt. (SA)	Solid Waste Fund (SWF)	Natural Resource Trust Fund (NRTF)	CBDG or *State Revolving Fund (SRF)	MDOT	DDA/BRA TIF (TIF)	Donation, Grant or Other (DON)	Bond (B)	
81 Replace pool liner	75,000	-			125,000					125,000																
82 Replace pools and falls play feature	75,000	-			125,000					125,000																
83 Replace shower stalls					25,000					25,000																
84 Fence replacement program (5 yr)	10,000	-			10,000	10,000	10,000	10,000	10,000	50,000																
85 Landscaping (complete replacement)	10,000	-			15,000	15,000	15,000	15,000	15,000	75,000																
86 Replace funbrellas	15,000	-			10,000	10,000	10,000	10,000	10,000	50,000																
87 Seal/resurface softball complex/aquatic center parking lot					100,000	150,000				250,000																
88 Natural area management						25,000				25,000																
89 Refurbish fiberglass slides					100,000	100,000	40,000			240,000																
90 Renovate restrooms/bathhouse facility							150,000			150,000																
91 Replace entry sign								10,000		10,000																
92 Roof repair									150,000	150,000																
<b>SUBTOTAL</b>	<b>267,000</b>	<b>155,000</b>		<b>25,000</b>	<b>565,000</b>	<b>335,000</b>	<b>250,000</b>	<b>70,000</b>	<b>210,000</b>	<b>1,305,000</b>				<b>150,000</b>												
<b>Softball Complex</b>																										
93 Restroom partition replacement	10,000	-			20,000					20,000																
94 Fence repair/replacement program	15,000	-			15,000	15,000	15,000	15,000	15,000	75,000																
95 Shade structures for dugouts	10,000	-			10,000	10,000	10,000	10,000		40,000																
96 Scoreboard replacement program	10,000	-			15,000	15,000	15,000	15,000		60,000																
97 Playground							100,000			100,000																
98 Re-roof restroom/concession building									75,000	75,000																
<b>SUBTOTAL</b>	<b>45,000</b>	<b>0</b>			<b>60,000</b>	<b>40,000</b>	<b>140,000</b>	<b>40,000</b>	<b>90,000</b>	<b>370,000</b>																
<b>Soccer Complex</b>																										
99 Dumpster enclosure	5,000	-																								
100 Replace kiosk(s)	5,000	-																								
101 Resurface parking lot and entry drives					100,000					100,000																
102 Expand parking lots and entry drive					100,000					100,000																
103 Replace scoreboards	15,000	-			15,000	15,000				30,000																
104 Drainage - add drain tiles	15,000	-			50,000	50,000	50,000			150,000																
105 Fence replacement program					10,000	10,000	15,000			35,000																
106 Replace trash receptacles						10,000				10,000																
107 Restroom partition replacement	10,000	-							20,000	20,000																
108 Re-roof concession/team buildings									75,000	75,000																
<b>SUBTOTAL</b>	<b>50,000</b>	<b>0</b>			<b>275,000</b>	<b>85,000</b>	<b>65,000</b>		<b>95,000</b>	<b>520,000</b>																
<b>Park Improvements</b>																										
Neighborhood Park General Improvements																										
109 Improvements to items such as walkways, benches, picnic tables, signage, etc. <b>(These items have been moved to individual parks below for future funding)</b>	72,000	-																								
Playgrounds																										
110 Replace and install poured in place surfacing for tots lots in three parks <b>(These items have been moved to individual parks below for future funding)</b>	35,000	-																								
111 Replace and install poured in place surfacing for playgrounds in 13 parks <b>(These items have been moved to individual parks below for future funding)</b>	110,000	-																								
Abbey Park																										
112 Natural areas management							20,000			20,000																
Abbot Road Park																										
113 Replace bollards, wood signs, trash can, kiosk	10,000	-				10,000				10,000																
114 Nature trail improvements								30,000		30,000																
115 Natural areas management								35,000		35,000																
116 Pave entry drive and parking lot	200,000	-						200,000		200,000																
Albert A. White Park																										
117 Replace bridge	20,000	-																								
118 Nature trail improvements	20,000	-																								
119 Northern tier trail extension through the park				369,000	400,000															300,000				469,000		
120 Construct Overlook Platform and Pathway to Top of Esker									150,000	150,000																
121 Seal parking lots									20,000	20,000																

Capital Improvement Item	2018 Proposed	2018 Actual	Fund Source	2019 Proposed	2020 Proposed	2021 Proposed	2022 Proposed	2023 Proposed	2024 Proposed	Not Funded (NF)	General Fund (GF)	Street Fund (SF)	Parking Fund (PF)	Park Fund (Park)	Water Fund (WF)	Sewer Fund (SEF)	Library Fund (LF)	Special Assmt. (SA)	Solid Waste Fund (SWF)	Natural Resource Trust Fund (NRTF)	CBDG or *State Revolving Fund (SRF)	MDOT	DDA/BRA TIF (TIF)	Donation, Grant or Other (DON)	Bond (B)
Avondale Park																									
122 Tot lot									45,000	45,000															
123 Improvements to items such as walkways, benches, picnic tables, signage, etc.									35,000	35,000															
Bailey Park																									
124 Replace chain link fence	40,000	-																							
125 Park improvements	-	1,570			240,000															180,000	35,000			25,000	
126 Improvements to items such as walkways, benches, picnic tables, sinage, etc.									35,000	35,000															
Burcham Park																									
127 Community solar project	5,000	-																							
128 Park improvement Plan								10,000		10,000															
129 Natural areas management									30,000	30,000															
Medal of Honor Memorial/Veterans Park																									
130 Construction of veterans park	-	12,690	DON	25,000																				25,000	
Dog Park																									
131 Fob entry system	15,000	-			20,000					20,000															
132 Construct ADA pathway from Northern Tier Trail	8,000	-			15,000					15,000															
133 Install park lighting							20,000			20,000															
134 Improvements to items such as walkways, benches, picnic tables, sinage, etc.									50,000	50,000															
Ehinger Park																									
135 Playground								65,000		65,000															
136 Improvements to items such as walkways, benches, picnic tables, sinage, etc.									35,000	35,000															
Emerson Park Access from Neighborhood																									
137 Acquire easement for pedestrian access into park							30,000			30,000															
138 Playground							65,000			65,000															
139 Repave emerson parking lot								8,000		8,000															
140 Improvements to items such as walkways, benches, picnic tables, sinage, etc.									35,000	35,000															
Glencairn Park																									
141 Playground								65,000		65,000															
142 Improvements to items such as walkways, benches, picnic tables, signage, etc.									35,000	35,000															
Hannah Site/Britton Park																									
143 Fence repair	15,000	-			75,000					75,000															
144 Playground								65,000		65,000															
145 Improvements to items such as walkways, benches, picnic tables, signage, etc.									35,000	35,000															
Harrison Meadows Park																									
146 Playground						65,000				65,000															
147 Natural areas management						45,000				45,000															
148 Resurface basketball court							20,000			20,000															
149 Resurface parking lot									25,000	25,000															
150 Improvements to items such as walkways, benches, picnic tables, signage, etc.									35,000	35,000															
Harrison Road Park																									
151 Finish walkway								10,000		10,000															
Hawk Nest Park																									
152 Natural areas management					20,000					20,000															
153 Playground									65,000	65,000															
154 Improvements to items such as walkways, benches, picnic tables, signage, etc.									35,000	35,000															
Henry Fine Park																									
155 Replace walking bridges						25,000				25,000															
156 Wildlife viewing platform at pond and paved access trail						30,000	120,000			150,000															
157 Natural areas management						20,000				20,000															

Capital Improvement Item	2018 Proposed	2018 Actual	Fund Source	2019 Proposed	2020 Proposed	2021 Proposed	2022 Proposed	2023 Proposed	2024 Proposed	Not Funded (NF)	General Fund (GF)	Street Fund (SF)	Parking Fund (PF)	Park Fund (Park)	Water Fund (WF)	Sewer Fund (SEF)	Library Fund (LF)	Special Assmt. (SA)	Solid Waste Fund (SWF)	Natural Resource Trust Fund (NRTF)	CBDG or *State Revolving Fund (SRF)	MDOT	DDA/BRA TIF (TIF)	Donation, Grant or Other (DON)	Bond (B)
158 Improvements to items such as walkways, benches, picnic tables, signage, etc. Hidden River Park									35,000	35,000															
159 Tot lot							45,000			45,000															
160 Improvements to items such as walkways, benches, picnic tables, signage, etc. Northern Tier Trail									35,000	35,000															
161 Fence and decking repair/replacement	20,000	-																							
162 Replace kiosks	4,000	-																							
163 Replace signage	4,000	-																							
164 Resurface/rebuild Lake Lansing Road to soccer complex	250,000	-																							
165 Pedestrian Bridge and Trails Improvement Project	-	1,369,697	DON	136,940																				136,940	
166 Install trail from Bogue Street to Hagadorn Road Along North Side of Red Cedar River									500,000	500,000															
167 Extend trail west from soccer complex to Coolidge Road									500,000	500,000															
168 Resurface/rebuild trail from soccer complex to State Road									400,000	400,000															
169 Expand trail south to the Red Cedar River									750,000	750,000															
John M. Patriarche Park																									
170 Youth baseball field improvements	120,000	-		120,000																50,000				70,000	
171 Renovate restroom buildings				100,000						100,000															
172 Replace roof, soffit, and ceiling lights in main pavilion	75,000	-			150,000					150,000															
173 Improve volleyball courts					10,000					10,000															
174 Resurface or reconstruct tennis courts					400,000					400,000															
175 Natural areas management					15,000					15,000															
176 Resurface basketball court						20,000				20,000															
177 Softball field improvements						30,000				30,000															
178 Pave/construct parking lots and drives								300,000	450,000	750,000															
Robert Shaw Park																									
179 Playground						65,000				65,000															
180 Improvements to items such as walkways, benches, picnic tables, signage, etc. Shaw Water Tower Park (Gordon Guyer Park)									35,000	35,000															
181 Playground						65,000				65,000															
182 Improvements to items such as walkways, benches, picnic tables, signage, etc. Stoddard Park									35,000	35,000															
182 Tot Lot						45,000				45,000															
183 Improvements to items such as walkways, benches, picnic tables, signage, etc. Tamarisk Park									35,000	35,000															
184 Resurface Basketball Court	15,000	-			20,000					20,000															
185 Playground						65,000				65,000															
185 Improvements to items such as walkways, benches, picnic tables, signage, etc. Valley Court Park									35,000	35,000															
186 Delta Dental fountain	-	30,000	DON																						
187 Remove tennis courts						30,000				30,000															
188 Playground									65,000	65,000															
189 Improvements to items such as walkways, benches, picnic tables, signage, etc. Wolf Court Park									35,000	35,000															
190 Playground						65,000				65,000															
191 Improvements to items such as walkways, benches, picnic tables, signage, etc.									35,000	35,000															
<b>SUBTOTAL</b>	<b>1,038,000</b>	<b>1,413,957</b>		<b>750,940</b>	<b>1,365,000</b>	<b>580,000</b>	<b>330,000</b>	<b>778,000</b>	<b>3,610,000</b>	<b>6,123,000</b>										<b>530,000</b>	<b>35,000</b>			<b>725,940</b>	

Capital Improvement Item	2018 Proposed	2018 Actual	Fund Source	2019 Proposed	2020 Proposed	2021 Proposed	2022 Proposed	2023 Proposed	2024 Proposed	Not Funded (NF)	General Fund (GF)	Street Fund (SF)	Parking Fund (PF)	Park Fund (Park)	Water Fund (WF)	Sewer Fund (SEF)	Library Fund (LF)	Special Assmt. (SA)	Solid Waste Fund (SWF)	Natural Resource Trust Fund (NRTF)	CDBG or *State Revolving Fund (SRF)	MDOT	DDA/BRA TIF (TIF)	Donation, Grant or Other (DON)	Bond (B)	
<b>Infrastructure Improvement Projects</b>																										
<b>Major Street Improvements</b>																										
192	Alton - Burcham to Saginaw	1,047,835	144,000	SF																						
193	Hagadorn - Haslett to Lake Lansing	404,590	38,000	SF																						
194	127 Sound Wall	75,000	43,000	SF																						
195	Wilson Road - MSU TEDFA	7,586,265	2,275,880	DON	5,310,386																	2,504,745		2,805,641		
196	Harrison and Kalamazoo Signal Upgrade	311,074	27,000	SF	284,074																	284,074				
197	Harrison - Forest to Mt. Hope				236,240							47,248										188,992				
198	Lake Lansing Road Concrete Repairs	50,000	-		172,680							172,680														
199	Burcham, crush and shape 1360, Timberlane to Park Lake				225,000							225,000														
200	Mount Hope, cap and seal one mile				55,000							55,000														
201	Harrison: 4 to 3 diet: Michigan to Grand River				45,000							45,000														
202	Marfitt- Lake Lansing to Abbey - mill and fill				92,000							92,000														
203	Lake Lansing/Coolidge signal instalation and optimization				606,000							155,000										451,000				
204	Ardson bike cut through at Grand River				6,000							6,000														
205	Signal Upgrading				70,000	70,000	70,000	70,000	70,000			420,000														
206	Forest - Harrison to College				431,800							86,360										345,440				
207	Trowbridge - Arbor to Harrison				607,480							121,496										485,984				
208	Unidentified: The projects selected will be based on several issues- available funding from MDOT, the City's roadway evaluation ratings (PASER rating), potential new economic development projects (e.g. Park District, Gateway Project, etc.), and coordinating the street improvements with water and sewer infrastructure work.					550,000	725,000	850,000	865,300	880,875		3,871,175														
<b>SUBTOTAL</b>		<b>9,474,764</b>	<b>2,527,880</b>		<b>7,102,380</b>	<b>1,659,280</b>	<b>795,000</b>	<b>920,000</b>	<b>935,300</b>	<b>950,875</b>		<b>5,296,959</b>										<b>4,260,235</b>		<b>2,805,641</b>		
<b>Local Street Improvements</b>																										
209	Glencairn Neighborhood - Phase 1	500,000	35,000	SF	465,000							465,000														
210	Cornell, Mill and Fill 1500', Beech to Burcham				135,475							135,475														
211	Durand, MF 900', Linden to Snyder				76,500							76,500														
212	East Lansing Dr., Mill and Fill 1236', Merrit Road to Merrit Road				69,915							69,915														
213	Evergreen, MF 870', and concrete, Oakhill to Fern				73,950							73,950														
214	Hitching Post, MF 2600', to Old Mill				245,460							245,460														
215	Stuart, MF 550', Southlawn to north				46,750							46,750														
216	Timberlane, crush and shape, 1180', Burcham to north end				176,530							176,530														
217	Unidentified: The projects selected will be based on several issues - available funding from MDOT, the City's roadway evaluation ratings (PASER rating), and coordinating the street improvement with water and sewer infrastructure work.					583,000	675,000	700,000	712,600	725,400		3,396,000														
<b>SUBTOTAL</b>		<b>500,000</b>	<b>35,000</b>		<b>1,289,580</b>	<b>583,000</b>	<b>675,000</b>	<b>700,000</b>	<b>712,600</b>	<b>725,400</b>		<b>4,685,580</b>														
<b>Sidewalks</b>																										
218	Hazardous Sidewalk Program is included in each Local Street, Major Street and Neighborhood project under General Fund Cost	50,000	50,000	GF	50,000	50,000	50,000	50,000	50,000	50,000		300,000														
219	CDBG - sidewalk and ADA improvements	106,000	106,000	SRF	126,000	106,000	100,000	100,000	100,000	100,000											632,000					
<b>SUBTOTAL</b>		<b>156,000</b>	<b>156,000</b>		<b>176,000</b>	<b>156,000</b>	<b>150,000</b>	<b>150,000</b>	<b>150,000</b>	<b>150,000</b>		<b>300,000</b>									<b>632,000</b>					
<b>Utilities</b>																										
<b>Water</b>																										
220	Abbey Water Tower				140,000											140,000										
221	State Road Water Main	570,000	180,000	WF	390,000											390,000										

Capital Improvement Item	2018 Proposed	2018 Actual	Fund Source	2019 Proposed	2020 Proposed	2021 Proposed	2022 Proposed	2023 Proposed	2024 Proposed	Not Funded (NF)	General Fund (GF)	Street Fund (SF)	Parking Fund (PF)	Park Fund (Park)	Water Fund (WF)	Sewer Fund (SEF)	Library Fund (LF)	Special Assmt. (SA)	Solid Waste Fund (SWF)	Natural Resource Trust Fund (NRTF)	CBDG or *State Revolving Fund (SRF)	MDOT	DDA/BRA TIF (TIF)	Donation, Grant or Other (DON)	Bond (B)		
222 Glencairn Water Improvements	931,000	37,300	WF	893,000											893,000												
223 Bogue water loop, 640' of 8", Bogue alley to Grand River Alley				194,000											194,000												
224 Cornell water 1500', Beech to Burcham				528,000											528,000												
225 Durand water 900', Linden to Snyder				278,100											278,100												
226 Evergreen water 870', Oakhill to Fern				268,900											268,900												
227 Grand River alley water 250' replace 4" C1 with 2 leads				67,500											67,500												
228 Stuart water 870', Southlawn to north end				156,200											156,200												
229 Emergency BWL interconnect, Michigan/Highland, 211' of 8" to improve interconnect.				68,000											68,000												
230 Radio Meter Read Conversion	100,000	5,000	WF	50,000	100,000	100,000	100,000	100,000	100,000						550,000												
231 Hagadorn Water Tank	260,000	-		320,000											320,000												
232 Burcham Valve Repairs	75,000	5,000	WF		75,000										75,000												
233 Lead and Copper Rule Compliance-Lead component removal					150,000	150,000	150,000	150,000	150,000						750,000												
234 Unidentified: The projects selected will be based on several issues- Water Asset Management Plan, the City's roadway evaluation ratings (PASER rating), and coordinating improvements with sewer infrastructure work					1,500,000	1,800,000	2,260,000	2,327,800	2,397,634						10,285,434												
235 Construct New Water Tower								3,500,000							3,500,000												
Sewer																											
236 Brody and Michigan Interceptor	701,000	52,100	SF																								
237 Spot repairs and lining	240,000	210,000	SF																								
238 Unidentified: The projects selected will be based on several inputs - Sewer Assets Management Plan, CSO study, the City's road way evaluation ratings (PASER rating), and coordinating improvements with water infrastructure work.					2,000,000	2,600,000	3,200,000	3,296,000	3,400,000						14,496,000												
239 CIPP Red Cedar Interceptor Phase 1, 2,401'				650,100											650,100												
240 CIPP Red Cedar Interceptor Phase 1, 3,687'				884,000											884,000												
241 CIPP Red Cedar Interceptor Phase III, 1,790'				430,815											430,815												
242 SRF Michigan/Harrison				3,600,000	5,000,000																8,600,000						
243 SRF Woodingham pump station				1,498,000	7,000,000																8,498,000						
<b>SUBTOTAL</b>																											
	<b>2,877,000</b>	<b>489,400</b>		<b>10,416,615</b>	<b>15,825,000</b>	<b>4,650,000</b>	<b>5,710,000</b>	<b>9,373,800</b>	<b>6,047,634</b>						<b>34,925,049</b>						<b>17,098,000</b>						
Water Resource Recovery Facility																											
235 Interceptor & Head works (Pumping & Grit) & Misc, Facilities Improvements	18,000,000	8,000,000	SEF	12,500,000																	12,500,000						
236 Bio-solids and solids handling				6,300,000	21,000,000																27,300,000						
237 Breaker rebuild				7,000											7,000												
238 Elevator-main building				220,000											220,000												
239 Fork truck				40,000											40,000												
240 Heated storage improvement (floors, shelves, lighting)				30,000											30,000												
241 Piping replacement (drains and compressor lines)				40,000											40,000												
242 Primary tanks overhaul				6,000											6,000												
243 RAS pumps rebuild				10,000											10,000												
244 Roof replacement (north blower, floatation)				700,000											700,000												
245 CSO Facility Repairs				100,000											100,000												
<b>SUBTOTAL</b>																											
	<b>18,000,000</b>	<b>8,000,000</b>		<b>19,953,000</b>	<b>21,000,000</b>										<b>1,153,000</b>						<b>39,800,000</b>						
Solid Waste and Recycling																											
<b>SUBTOTAL</b>																											
IT Projects																											
246 Document Imaging/Management	8,000			8,000	8,000	8,000	8,000	8,000	8,000		40,000																
<b>SUBTOTAL</b>																											
	<b>8,000</b>	<b>0</b>		<b>8,000</b>	<b>8,000</b>	<b>8,000</b>	<b>8,000</b>	<b>8,000</b>	<b>8,000</b>		<b>40,000</b>																
Downtown																											
Sidewalks																											
247 500 Block of Albert Ave.							11,760																11,760				
248 600 Block of Albert Ave.						3,360																	3,360				

Capital Improvement Item	2018 Proposed	2018 Actual	Fund Source	2019 Proposed	2020 Proposed	2021 Proposed	2022 Proposed	2023 Proposed	2024 Proposed	Not Funded (NF)	General Fund (GF)	Street Fund (SF)	Parking Fund (PF)	Park Fund (Park)	Water Fund (WF)	Sewer Fund (SEF)	Library Fund (LF)	Special Assmt. (SA)	Solid Waste Fund (SWF)	Natural Resource Trust Fund (NRTF)	CBDG or *State Revolving Fund (SRF)	MDOT	DDA/BRA TIF (TIF)	Donation, Grant or Other (DON)	Bond (B)		
249 600 Block of E. Grand River Ave.						12,800																	12,800				
250 100 Block of Abbot	72,000	-			72,000																		72,000				
251 100/200 Block of Albert Ave.																											
252 100/200 Block of E. Grand River Ave.				210,000																			210,000				
<b>Bike Loops</b>																											
253 300 Block of E. Grand River Ave.																											
254 400 Block of E. Grand River Ave.							1,800																	1,800			
255 500 Block of E. Grand River Ave.						1,800																		1,800			
256 600 Block of E. Grand River Ave.					3,600																			3,600			
257 100/200 Block of E. Grand River Ave.																								0			
258 Other Areas																											
<b>Landscaping</b>																											
259 300 Block of E. Grand River Ave.								5,500																5,500			
260 400 Block of E. Grand River Ave.	26,292	-					5,500																	5,500			
261 500 Block of E. Grand River Ave.						7,150																		7,150			
262 600 Block of E. Grand River Ave.					3,850																			3,850			
263 100/200 Block of E. Grand River Ave.																								0			
<b>Refuse &amp; Recycling Systems</b>																											
264 300 Block of E. Grand River Ave.																											
265 400 Block of E. Grand River Ave.																											
266 500 Block of E. Grand River Ave.																											
267 600 Block of E. Grand River Ave.																											
268 100/200 Block of E. Grand River Ave.																											
<b>Newspaper Rack Enclosures</b>																											
269 400 Block of E. Grand River Ave.								1,250																1,250			
270 500 Block of E. Grand River Ave.							1,250																	1,250			
271 600 Block of E. Grand River Ave.						1,250																		1,250			
272 100/200 Block of E. Grand River Ave.					1,250																			1,250			
<b>Street Furniture</b>																											
273 300 Block of E. Grand River Ave.								650																650			
274 400 Block of E. Grand River Ave.							200																	200			
275 500 Block of E. Grand River Ave.						1,300																		1,300			
276 600 Block of E. Grand River Ave.					1,300																			1,300			
277 100/200 Block of E. Grand River Ave.																								0			
<b>Amenities/Planters</b>																											
278 300 Block of E. Grand River Ave.								2,400																2,400			
279 400 Block of E. Grand River Ave.							2,400																	2,400			
280 500 Block of E. Grand River Ave.						2,400																		2,400			
281 600 Block of E. Grand River Ave.					2,400																			2,400			
282 100/200 Block of E. Grand River Ave.																								0			
<b>Tobacco/Ash Urns</b>																											
283 300 Block of E. Grand River Ave.									450															450			
284 400 Block of E. Grand River Ave.								450																450			
285 500 Block of E. Grand River Ave.							450																	450			
286 600 Block of E. Grand River Ave.						450																		450			
287 100/200 Block of E. Grand River Ave.					450																			450			
<b>Signage</b>																											
288 Wayfinding Signs					3,000	3,000	3,000	3,000	3,000															15,000			
<b>SUBTOTAL</b>		<b>98,292</b>	<b>0</b>	<b>210,000</b>	<b>87,850</b>	<b>33,510</b>	<b>26,360</b>	<b>13,250</b>	<b>3,450</b>	<b>0</b>														<b>374,420</b>			
<b>Economic Development</b>																											
289 Park District Infrastructure	5,000,000	-		2,500,000	2,500,000					5,000,000																	
290 Center City Infrastructure	500,000	500,000	TIF	2,500,000																				2,500,000			
291 Coleman Road Extension	10,000,000	-		10,000,000						10,000,000																	
<b>SUBTOTAL</b>		<b>15,500,000</b>	<b>500,000</b>	<b>15,000,000</b>	<b>2,500,000</b>					<b>15,000,000</b>														<b>2,500,000</b>			
<b>Parking</b>																											
292 Parking facilities restoration projects	50,000	50,000	PF	200,000	125,000	125,000	125,000	125,000	125,000				825,000														
293 Center City Parking Garage	3,000,000	3,000,000	TIF	16,000,000																				16,000,000			
294 Center City Parking Office/Wayfinding			PF	300,000									300,000														
295 University Place Parking Garage	1,200,000	1,200,000	TIF																								
<b>SUBTOTAL</b>		<b>4,250,000</b>	<b>4,250,000</b>	<b>16,500,000</b>	<b>125,000</b>	<b>125,000</b>	<b>125,000</b>	<b>125,000</b>	<b>125,000</b>				<b>1,125,000</b>											<b>16,000,000</b>			
<b>TOTAL</b>		<b>54,011,056</b>	<b>18,491,881</b>	<b>71,904,015</b>	<b>45,342,330</b>	<b>8,734,510</b>	<b>10,064,360</b>	<b>12,530,950</b>	<b>12,132,359</b>	<b>27,624,200</b>	<b>507,500</b>	<b>9,982,539</b>	<b>1,125,000</b>	<b>150,000</b>	<b>34,925,049</b>	<b>1,153,000</b>	<b>360,000</b>	<b>0</b>	<b>0</b>	<b>530,000</b>	<b>57,565,000</b>	<b>4,260,235</b>	<b>18,874,420</b>	<b>3,651,581</b>			



**Table 2**  
**Schedule of Bonded Indebtedness**  
**FY2018-FY2023**  
 Rev. 01/24/2018

**DEBT SERVICE SCHEDULE (principal and interest)**  
**CITY OF EAST LANSING**

<u>BOND PROJECT</u>	<u>Year Issued</u>	<u>Amount of Issue</u>	<u>Type of Debt</u>	<u>Funding Source</u>	<u>FY2018</u>	<u>FY2019</u>	<u>FY2020</u>	<u>FY2021</u>	<u>FY2022</u>	<u>FY2023</u>	<u>Six-Year Total</u>
Aquatics Center (refinanced 2009)	1998	3,500,000	GOB	Gen/Debt	262,589	262,548	-	-	-	-	525,137
Hannah Center - First Phase (refinanced 2009)	1998	5,500,000	GOB	Gen/Debt	410,717	410,652	-	-	-	-	821,369
Hannah Center - Second Phase	1999	1,500,000	GOB	Gen/Debt	130,330	128,500	-	-	-	-	258,830
SUBTOTAL Debt Millage					803,636	801,700	-	-	-	-	1,605,336
Capital Improvements (refinanced 2016)	2008	795,000	GOLTD	General	58,313	61,400	55,400	54,050	57,700	61,200	348,063
Avondale Square	2010	2,365,000	GOLTD	Gen/CIP	193,600	195,030	191,205	192,380	193,300	193,965	1,159,480
SUBTOTAL GENERAL DEBT SERVICE					1,055,549	1,058,130	246,605	246,430	251,000	255,165	3,112,879
Section 108 Loan	2006	1,500,000	GOLTD	HUD-CDBG	114,788	110,783	106,721	102,611	98,456	94,260	627,619
DDA Refinancing Bonds - City Center	2015	2,850,000	GOLTD	DDA	310,121	316,551	327,179	331,719	340,339	352,805	1,978,714
Methane Extraction System	2009	515,000	GOLTD	Solid Waste	60,175	62,700	-	-	-	-	122,875
Michigan Transportation Bonds	2009	1,540,000	GOLTD	Streets	136,063	137,063	137,600	137,540	137,250	136,730	822,246
<b>ENTERPRISE FUND DEBT</b>											
Lot 1 & 7 Improvements	1997	975,000	LTD. TAX	Parking	86,859	-	-	-	-	-	86,859
City Center/New Ramp (refinanced 2005 and 2015)	2000	12,500,000	LTD. TAX	Parking	900,805	900,065	897,330	827,600	830,400	827,000	5,183,200
Stonehouse Village III/Lot 11 Series A (refinanced 2016)	2007	2,160,000	LTD. TAX	Parking	114,725	103,825	113,125	121,775	125,125	123,325	701,900
Stonehouse Village III Series B (refinanced 2016)	2007	1,550,000	LTD. TAX	Parking	92,879	89,741	90,124	95,162	96,646	96,528	561,080
2011 Bonds Series A Parking Improvements	2011	2,000,000	LTD. TAX	Parking	156,291	156,148	155,462	157,519	156,491	155,148	937,059
MAC Garage Rehab	2016	5,960,000	LTD. TAX	Parking	231,342	361,342	363,963	361,088	362,821	364,153	2,044,709
PARCS Installment Purchase Contract	2016	1,430,000	Installment Loan	Parking	218,319	214,906	216,450	217,906	219,275	215,600	1,302,456
SUBTOTAL PARKING DEBT					1,801,220	1,826,027	1,836,454	1,781,050	1,790,758	1,781,754	10,817,263
Public Service Garage (refinanced 2012)	2003	6,860,000	LTD. TAX	Garage	388,225	385,975	392,125	387,825	388,375	388,625	2,331,150
Public Service Garage (refinanced 2014)	2004	2,500,000	LTD. TAX	Garage	180,988	182,328	178,546	174,764	170,982	177,200	1,064,808
SUBTOTAL GARAGE DEBT					569,213	568,303	570,671	562,589	559,357	565,825	3,395,958
2011 Bonds Series A Water Improvements	2011	1,500,000	LTD. TAX	Water	117,232	117,125	116,610	118,153	117,382	116,375	702,877
Coleman Road Deferred SA (refinanced 2016)	2007	600,000	LTD. TAX	Water/Sewer	38,682	45,747	54,085	62,342	63,559	71,057	335,472
Albert Street Sewer Improvements	2012	1,370,000	LTD. TAX	Sewer	90,475	88,975	92,175	90,225	88,275	91,325	541,450
2013 Relief Sanitary Sewer Installation	2013	2,935,000	LTD. TAX	Sewer	167,489	170,039	167,539	169,989	167,389	169,739	1,012,184
2015 SRF Loan	2015	15,000,000	REV	Sewer	964,406	960,375	965,000	964,125	962,875	961,250	5,778,031
Wilmarth Drain - CSO	2000	660,000	LTD. TAX	Sewer	53,555	56,013	58,163	-	-	-	167,731
CSO Phase III	2004	9,605,000	REV	Sewer	551,346	551,465	551,371	551,065	555,493	554,656	3,315,396
SUBTOTAL WATER AND SEWER					1,983,185	1,989,739	2,004,943	1,955,899	1,954,973	1,964,402	11,853,141
<b>TOTAL DEBT SERVICE/ALL FUNDS</b>					<b>\$ 6,030,314</b>	<b>\$ 6,069,296</b>	<b>\$ 5,230,173</b>	<b>\$ 5,117,838</b>	<b>\$ 5,132,133</b>	<b>\$ 5,150,941</b>	<b>\$ 32,730,695</b>

Total Bonded Indebtedness as of June 30, 2017 was \$55.4 million (principal outstanding)