



5-Year Capital Improvement Program

July 1, 2016 through
June 30, 2021



Cadillac MICHIGAN

Elected Officials and City Administration

Carla Filkins, Mayor
At Large

Shari Spoelman, Mayor Pro-Tem
First Ward

Antoinette Schippers, Councilmember
Second Ward

Matthew Wohlfeill, Councilmember
Third Ward

John Meinhardt, Councilmember
Fourth Ward

City Manager *Marcus Peccia*

Director of Finance *Owen Roberts*

Director of Public Utilities *Jeff Dietlin*

**Director of Public Works and
Engineering** *Bruce DeWitt*

Community Development Director *John Wallace*

City Clerk *Sandra Wasson*

City Treasurer *Keri Lanning*

City Attorney *Mike Homier*
Foster, Swift, Collins & Smith, PC

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CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

What is the 5-Year Capital Improvement Program?

The information that follows represents the City of Cadillac's 5-Year Capital Improvement Program. In it, projects have been identified that need to be addressed over the next five fiscal years. The program serves as a crucial planning component within the City's overall operational management structure. Since its inception, the majority of projects undertaken within the City have come through this planning document. The program provides important information that aids in maintaining the City's critical infrastructure as well as the equipment needed to carry out the delivery of services to the community.

What is a Capital Project?

For the purposes of the Capital Improvement Program, a capital project has been identified by the city as any project that exceeds the City Council purchasing threshold of \$7,500 and has an estimated useful life of greater than one year. This includes items like police cars, fire trucks, streets and other construction projects, parks maintenance equipment, snow plows, street sweepers, etc. This program identifies those projects that meet the criteria above that will be addressed in the next five years.



How is the program developed?

The program is developed in the Financial Services Department using project information submitted by each department within the City. Once all project requests have been received, the requests are reviewed and added to the program where appropriate. Projects identified in previous programs remain in the current program unless a different priority or strategy makes it unnecessary to do so. Once a final proposed document has been completed, the program is distributed to the City Council and is also made available for the public to review. The Council holds work sessions to discuss the program, and citizen input is sought through both the work session and through a public hearing process. Once the public hearing has been completed, the program is finalized and adopted by Council.

How is the 5-Year Capital Improvement Program organized?

The program is developed on a departmental basis. Summaries for the overall program are listed by department in order to help analyze the impact to each fund within the City. The summaries that follow on the next several pages will highlight the annual cost of projects for each department per year, as well as summarize the sources of funding that have been identified each year to complete the related slate of projects. Keep in mind that not all projects that are in this document will be completed. Over the next five years, priorities may change and funding sources may be eliminated making completion of the project imprudent or impossible.

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Program Summary

On a departmental basis, the 5-Year Capital Improvement Program includes the following request levels, presented by fiscal year:

Department	<i>For the fiscal year ending June 30,</i>					Total
	2017	2018	2019	2020	2021	
Complex/Administration	0	23,000	372,000	363,000	0	758,000
Public Safety						
Police	32,000	35,000	33,000	33,000	34,000	167,000
Fire	45,000	128,000	385,000	0	0	558,000
Municipal Parks	9,000	177,500	169,000	32,500	9,000	397,000
Total General Fund	86,000	363,500	959,000	428,500	43,000	1,880,000
Major Streets	137,500	80,000	150,000	350,000	0	717,500
Local Streets	1,252,500	502,500	377,500	187,500	477,500	2,797,500
Cemetery Operating	0	24,000	40,000	59,000	100,000	223,000
Water and Wastewater	3,680,500	634,000	630,500	361,000	696,000	6,002,000
Stores and Garage	283,500	208,500	239,000	350,000	310,000	1,391,000
Information Technology	165,000	70,000	40,000	20,000	40,000	335,000
Industrial Parks	25,000	0	0	0	525,000	550,000
Community Development	250,000	0	0	0	0	250,000
Totals	\$5,880,000	\$1,882,500	\$2,436,000	\$1,756,000	\$2,191,500	\$14,146,000

Source of Funds

It is also important to identify the sources of funding that will be used to fund each year's projects. This helps to determine the viability of each year's requests and serves as a critical planning tool for current and future operating budgets. For the current 5-year program, the following sources of funding have been identified by fiscal year:

Source of Funds	<i>For the fiscal year ending June 30,</i>					Total
	2017	2018	2019	2020	2021	
Current Property Tax Revenues	86,000	268,500	544,000	428,500	43,000	1,370,000
Donations						
Donations Received	0	0	0	0	0	0
Future Donations	0	0	65,000	50,000	0	115,000
Operating Revenues	1,154,000	936,500	949,500	740,000	1,304,100	5,084,100
MVHF	1,390,000	582,500	527,500	537,500	477,500	3,515,000
DWRF	3,000,000	0	0	0	0	3,000,000
Grants	250,000	95,000	0	0	366,900	711,900
Special Assessments	0	0	350,000	0	0	350,000
Totals	\$5,880,000	\$1,882,500	\$2,436,000	\$1,756,000	\$2,191,500	\$14,146,000

* The City will utilize bond financing to fund construction, and the Motor Vehicle Highway Funds will be the revenue source used to repay the debt.

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Projects by Fiscal Year

The following tables identify specific projects that have been requested in each of the five fiscal years included in the current program. The summary lists the department that is making the request, the name of the project, the estimated cost, and the page number that the project details can be found on within this document. The first year of the program will be used in the development of the Annual Operating Budget, a process which will begin shortly after final approval and adoption of the program.

Plan Fiscal Year: 2016-2017			
Department	Project	Cost	Page
Public Safety	POLICE PATROL VEHICLE	32,000	20
Public Safety	FIRE RESCUE VEHICLE	45,000	21
Parks	RIDING LAWN MOWER	9,000	30
Major Street	LEESON STREET (CHESTNUT TO WEST DIVISION)	130,000	44
Major Street	STREET SIGN REPLACEMENT	7,500	45
Local Street	EVART STREET (OAK TO LESTER)	140,000	50
Local Street	HOLLY ROAD (BARBARA TO WREN)	180,000	51
Local Street	EAST GARFIELD STREET (HOLBROOK TO HIGGINS)	240,000	52
Local Street	SIMONS STREET (HARRIS TO BREMER)	240,000	53
Local Street	SELMA STREET (W. DIVISION TO WRIGHT)	200,000	54
Local Street	MARBLE STREET (MITCHELL TO SUNNYSIDE)	180,000	55
Local Street	BLODGETT STREET (LINCOLN TO E. DIVISION)	65,000	56
Local Street	STREET SIGN REPLACEMENT	7,500	57
Water/Wastewater	EVART STREET	50,000	83
Water/Wastewater	HOLLY ROAD	40,000	84
Water/Wastewater	EAST GARFIELD STREET	40,000	85
Water/Wastewater	SIMONS STREET	40,000	86
Water/Wastewater	SELMA STREET	90,000	87
Water/Wastewater	MARBLE STREET	100,000	88
Water/Wastewater	BLODGETT STREET	25,000	89
Water/Wastewater	STAFF CAR	18,000	90
Water/Wastewater	SERVICE TRUCK	27,000	91
Water/Wastewater	MANHOLE REHABILITATION	25,000	92
Water/Wastewater	EMPLOYEE BREAKROOM AND LOCKER FACILITY	40,000	93
Water/Wastewater	WATER WELL MAINTENANCE	25,000	94
Water/Wastewater	ULTRAVIOLET DISINFECTION EQUIPMENT	35,500	95
Water/Wastewater	ATOMIC ABSORPTION SPECTROSCOPY MACHINE	70,000	96
Water/Wastewater	SAW GRANT REPAIRS	25,000	97
Water/Wastewater	AQUA DISK REPAIRS	30,000	98
Water/Wastewater	WATER SUPPLY IMPROVEMENTS	3,000,000	99
Stores & Garage	USED BUCKET TRUCK	75,000	156
Stores & Garage	REGENERATIVE STREET SWEEPER	200,000	157
Stores & Garage	V-PLOW FOR MEDIUM DUTY TRACTOR	8,500	158
IT	COMPUTER REPLACEMENT	20,000	176

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IT	COMPUTER SOFTWARE REPLACEMENT	125,000	177
IT	IT INFRASTRUCTURE	20,000	178
Comm. Dev.	WHITE PINE TRAIL CONNECTOR	250,000	188
Industrial Parks	ENTRANCE SIGNS	25,000	190

Total for FY 2016-2017 \$5,880,000

Plan Fiscal Year: 2017-2018

Department	Project	Cost	Page
General Gov't.	STAFF CAR	23,000	10
Public Safety	POLICE K-9 VEHICLE	35,000	22
Public Safety	SELF-CONTAINED BREATHING APPARATUS (SCBA)	128,000	23
Parks	SHORELINE STABILIZATION	7,500	31
Parks	PROGRAMMABLE PAVILION SIGN	30,000	32
Parks	KENWOOD BATHROOM	140,000	33
Major Street	WEST BREMER STREET (LAKE TO MITCHELL)	80,000	46
Local Street	CRIPPEN STREET (MITCHELL TO PARK)	200,000	58
Local Street	SOUTH STREET (LAKE TO FOUR WINNS TEST CENTER)	75,000	59
Local Street	SMITH STREET (WHEELER TO BURLINGAME)	100,000	60
Local Street	ALDRICH STREET (BOND TO LINDEN)	120,000	61
Local Street	STREET SIGN REPLACEMENT	7,500	62
Cemetery	SPRINKLER SYSTEM UPGRADE	15,000	74
Cemetery	RIDING MOWER	9,000	75
Water/Wastewater	CRIPPEN STREET	60,000	100
Water/Wastewater	SOUTH STREET	40,000	101
Water/Wastewater	SMITH STREET	35,000	102
Water/Wastewater	ALDRICH STREET	40,000	103
Water/Wastewater	WEST BREMER STREET	85,000	104
Water/Wastewater	MUFFLE FURNACE/DRYING OVEN REPLACEMENT	8,000	105
Water/Wastewater	FEW PUMP REPLACEMENT	20,000	106
Water/Wastewater	SEWER JETTER	100,000	107
Water/Wastewater	DUMP TRUCK	75,000	108
Water/Wastewater	CIRCULAR PUMP	15,000	109
Water/Wastewater	RAS PUMP	11,000	110
Water/Wastewater	WATER WELL MAINTENANCE	25,000	111
Water/Wastewater	TWO (2) ENVIRONMENTAL LAB FUME HOODS	20,000	112
Water/Wastewater	MANHOLE REHABILITATION	25,000	113
Water/Wastewater	CUTTER STACK FOR MUFFIN MONSTER	25,000	114
Water/Wastewater	EQ BASIN BLOCK REPLACEMENT/REPAIR	25,000	115
Water/Wastewater	SAW GRANT REPAIRS	25,000	116
Stores & Garage	SINGLE AXLE PLOW TRUCK	160,000	159
Stores & Garage	REPLACEMENT UNDERBODY PLOW	9,500	160
Stores & Garage	REVERSING FRONT PLOW	9,000	161

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Stores & Garage	3/4-TON 4X4 PICKUP TRUCK	30,000	162
IT	IT INFRASTRUCTURE	50,000	179
IT	COMPUTER REPLACEMENT	20,000	180

Total for FY 2017-2018 \$1,882,500

Plan Fiscal Year: 2018-2019			
Department	Project	Cost	Page
General Gov't.	CONCRETE APRON REPLACEMENTS	22,000	11
General Gov't.	COBB STREET SIDEWALK	100,000	12
General Gov't.	CHESTNUT STREET SIDEWALK	75,000	13
General Gov't.	CARMEL STREET SIDEWALK	75,000	14
General Gov't.	PEARL STREET SIDEWALK	100,000	15
Public Safety	POLICE PATROL VEHICLE	33,000	24
Public Safety	FIRE PUMPER	385,000	25
Parks	RIDING LAWN MOWER	9,000	34
Parks	SKATE PARK EQUIPMENT	40,000	35
Parks	PARKING LOT UPGRADES - LAKE AND CHESTNUT ST.	35,000	36
Parks	KENWOOD PARKING LOT	60,000	37
Parks	WALKWAY BRIDGE GAZEBO	25,000	38
Major Street	CARMEL STREET	150,000	47
Local Street	EAST BREMER STREET (MITCHELL TO PARK)	150,000	63
Local Street	CRESTVIEW, EVART AND STIMSON STREETS	220,000	64
Local Street	STREET SIGN REPLACEMENT	7,500	65
Cemetery	CEMETERY ROAD PAVING	40,000	76
Water/Wastewater	COBB & CARMEL STREET	50,000	117
Water/Wastewater	EAST BREMER STREET	85,000	118
Water/Wastewater	CRESTVIEW, EVART AND STIMSON STREETS	90,000	119
Water/Wastewater	WATER WELL MAINTENANCE	25,000	120
Water/Wastewater	3/4 TON, 4X4 SERVICE TRUCK	28,000	121
Water/Wastewater	MOBILE DIESEL AIR COMPRESSOR	20,000	122
Water/Wastewater	MANHOLE REHABILITATION	25,000	123
Water/Wastewater	LAB FRIDGES AND FREEZERS	10,000	124
Water/Wastewater	FERRIC PUMPS	10,000	125
Water/Wastewater	CONCRETE/ASPHALT WORK AT WWTP	175,000	126
Water/Wastewater	TWO SERVICE TRUCKS	55,000	127
Water/Wastewater	BAR SCREENS AT WWTP	50,000	128
Water/Wastewater	BOD INCUBATOR	7,500	129
Stores & Garage	SINGLE AXLE PLOW TRUCK	160,000	163
Stores & Garage	REVERSING FRONT PLOW	9,000	164
Stores & Garage	RIDING LAWN MOWER	10,000	165
Stores & Garage	FOUR POST COLUMN LIFT	35,000	166

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Stores & Garage	SIDEWALK AND PARKING LOT SWEEPER	25,000	167
IT	COMPUTER REPLACEMENT	20,000	181
IT	IT INFRASTRUCTURE	20,000	182

Total for FY 2018-2019 \$2,436,000

Plan Fiscal Year: 2019-2020

Department	Project	Cost	Page
General Gov't.	HEATING AND COOLING RENOVATION	75,000	16
General Gov't.	FIRE GARAGE EXPANSION	258,000	17
General Gov't.	UPGRADE MUNICIPAL COMPLEX RESTROOMS	30,000	18
Public Safety	POLICE PATROL VEHICLE	33,000	26
Parks	SMALL TRACTOR	25,000	39
Parks	SHORELINE STABILIZATION	7,500	40
Major Street	NORTH BOULEVARD	350,000	48
Local Street	COLFAX STREET	180,000	66
Local Street	STREET SIGN REPLACEMENT	7,500	67
Cemetery	RIDING LAWN MOWER	9,000	77
Cemetery	ENTRANCE PILLARS	50,000	78
Water/Wastewater	COLFAX STREET	60,000	130
Water/Wastewater	WATER WELL MAINTENANCE	25,000	131
Water/Wastewater	SOUTH SHORE LIFT STATION BUILDING	8,000	132
Water/Wastewater	MANHOLE REHABILITATION	25,000	133
Water/Wastewater	LABORATORY INCUBATORS	8,000	134
Water/Wastewater	TWO (2) SERVICE TRUCKS	55,000	135
Water/Wastewater	BIO-MAKEUP AIR/FURNACE	25,000	136
Water/Wastewater	PRIMARY DRIVE REPLACEMENT/RENOVATION	45,000	137
Water/Wastewater	SECONDARY DRIVE REPLACEMENT/RENOVATION	60,000	138
Water/Wastewater	RAS PUMPS 1&2 REPLACEMENT	30,000	139
Water/Wastewater	SUNSET/LAKESHORE MAIN REPLACEMENT	20,000	140
Stores & Garage	DUAL AXLE PLOW TRUCK AND FRONT PLOW	205,000	168
Stores & Garage	DUAL WHEEL 29' BUCKET TRUCK	65,000	169
Stores & Garage	SIDEWALK TRACTOR AND ATTACHMENTS	80,000	170
IT	COMPUTER REPLACEMENT	20,000	183

Total for FY 2019-2020 \$1,756,000

Plan Fiscal Year: 2020-2021

Department	Project	Cost	Page
Public Safety	POLICE PATROL VEHICLE	34,000	27
Parks	RIDING LAWN MOWER	9,000	41
Local Street	NELSON STREET (PARK TO HEMLOCK)	120,000	68

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Local Street	MASON STREET (MITCHELL TO PARKING LOT)	90,000	69
Local Street	BURLINGAME STREET (13TH TO FORD)	120,000	70
Local Street	AYERS STREET (WHEELER TO PLETT)	140,000	71
Local Street	STREET SIGN REPLACEMENT	7,500	72
Cemetery	MAINTENANCE GARAGE	100,000	79
Water/Wastewater	NELSON STREET	30,000	141
Water/Wastewater	MASON STREET	10,000	142
Water/Wastewater	BURLINGAME STREET	70,000	143
Water/Wastewater	AUTOCLAVE REPLACEMENT	8,000	144
Water/Wastewater	MAJOR BUILDING EXTERIOR REPAIRS	175,000	145
Water/Wastewater	REVOLUTION BLOWER	200,000	146
Water/Wastewater	ULTRAVIOLET BULBS	40,000	147
Water/Wastewater	SPECTROPHOTOMETER	7,500	148
Water/Wastewater	WATER WELL INSPECTION	25,000	149
Water/Wastewater	AQUA DISK CLOTH	30,000	150
Water/Wastewater	STORAGE BARN	35,000	151
Water/Wastewater	ROTARY SCREW COMPRESSOR	12,500	152
Water/Wastewater	MANHOLE REHABILITATION	25,000	153
Water/Wastewater	3/4 TON, 4X4 SERVICE TRUCK	28,000	154
Stores & Garage	SINGLE AXLE BLADE TRUCK W/ REVERSING PLOW	185,000	171
Stores & Garage	3/4-TON 4X4 PICKUP TRUCK	30,000	172
Stores & Garage	1-TON DUMP TRUCK	50,000	173
Stores & Garage	ALLEY TRACTOR	45,000	174
IT	IT INFRASTRUCTURE	20,000	184
IT	COMPUTER REPLACEMENT	20,000	185
Industrial Parks	JAMES E. POTVIN INDUSTRIAL PARK	525,000	191

Total for FY 2020-2021 \$2,191,500

5-Year Total Capital Improvement Program \$14,146,000

Following these summary pages are the details for the projects included in this Capital Improvement Program. The details will be broken down by each department. A departmental summary page will be first, followed by a project summary page for each project included in the program. This Capital Improvement Program will give the reader insight into the capital needs that the City of Cadillac will face over the next five years. If you have any questions pertaining to this report or would like additional information, please direct your request to the City of Cadillac, Director of Finance, 200 N. Lake Street, Cadillac, MI, 49601, or call the Financial Services Department at (231) 775-0181.

Projects Identified – Municipal Complex/General Government

The following projects have been identified for inclusion in this five-year Capital Improvement Program.

Plan Fiscal Year: 2016-2017

** NO PROJECTS **

	0
Total for FY 2016-2017	\$0

Plan Fiscal Year: 2017-2018

STAFF CAR

	23,000
Total for FY 2017-2018	\$23,000

Plan Fiscal Year: 2018-2019

CONCRETE APRON REPLACEMENTS
 COBB STREET SIDEWALK
 CHESTNUT STREET SIDEWALK
 CARMEL STREET SIDEWALK
 PEARL STREET SIDEWALK

	22,000
	100,000
	75,000
	75,000
	100,000
Total for FY 2018-2019	\$372,000

Plan Fiscal Year: 2019-2020

HEATING AND COOLING RENOVATION
 FIRE GARAGE EXPANSION
 UPGRADE MUNICIPAL COMPLEX RESTROOMS

	75,000
	258,000
	30,000
Total for FY 2019-2020	\$363,000

Plan Fiscal Year: 2020-2021

** NO PROJECTS **

	0
Total for FY 2020-2021	\$0

	\$758,000
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Grand Total for Municipal Complex/General Government

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Program Fiscal Year: **2017-2018**

Project Title: **STAFF CAR**

First Year in CIP: 2005
Project Category: Vehicle Replacement
Department: Administration

Total Project Cost: \$23,000

Project Description: A reliable staff car is essential to providing safe transportation for City staff personnel.

Project Justification and/or Need: Administration staff regularly travel to various out-of-town training sessions and meetings. Scheduled replacements are needed to ensure the availability of a safe, reliable vehicle.

Project Impact/Benefit: A currently-owned 2004 Ford Taurus will be replaced with this new staff vehicle. The new vehicle will facilitate out-of-town travel for other members of City staff as well as elected officials.



Operating Fund Impact: Purchase of this vehicle will facilitate disposal of an older vehicle that was kept beyond its estimated useful life, and will provide a safe, efficient vehicle for staff to use to travel. Overall, project should result in a reduction in annual maintenance costs of approximately \$500.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Current Property Tax Revenues	\$23,000
Total	\$23,000

Program Fiscal Year: **2018-2019**

Project Title: **CONCRETE APRON REPLACEMENTS**

First Year in CIP: 2008
Project Category: Building Maintenance
Department: Municipal Complex

Total Project Cost: \$22,000

Project Description: Replace concrete aprons at east and west entrances to Fire Department equipment bay. Approximately 2,880 square feet will be replaced at an estimated \$7/s.f.

Project Justification and/or Need: Existing aprons are cracked and deteriorating. Continuous operation of heavy fire fighting apparatus will lead to even further deterioration of aprons.

Project Impact/Benefit: Reduce trip and fall hazard and provide smooth and safe area for vehicle testing and maintenance.



Operating Fund Impact: Reduce minor maintenance and repair costs \$500 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Current Property Tax Revenues	\$22,000
Total	\$22,000

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Program Fiscal Year: **2018-2019**

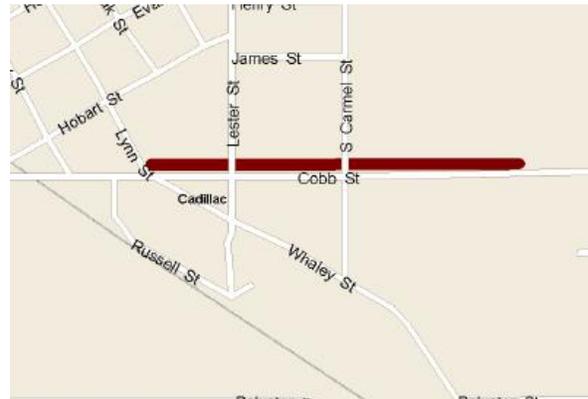
Project Title: **COBB STREET SIDEWALK**

First Year in CIP: 2008
Project Category: Other Infrastructure
Department: General Government

Total Project Cost: \$100,000

Project Description: Construct 1,200 feet of concrete sidewalk connecting hospital area with other medical facilities farther east on Cobb Street. Project would require significant land preparation, including retaining walls and other types of land manipulation required to make the sidewalk feasible.

Project Justification and/or Need: This area sees regular foot traffic and providing this pedestrian traffic with a sidewalk would enhance safety and walkability in the area.



Project Impact/Benefit: Enhance pedestrian safety and ease flow of foot traffic.

Operating Fund Impact: Increase minor maintenance and repair costs \$2,500 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Special Assessments	\$100,000
Total	\$100,000

Program Fiscal Year: **2018-2019**

Project Title: **CHESTNUT STREET SIDEWALK**

First Year in CIP: 2013
Project Category: Other Infrastructure
Department: General Government

Total Project Cost: \$75,000

Project Description: Construct sidewalk along Chestnut Street in the Kenwood Elementary School area.

Project Justification and/or Need: This area sees regular foot traffic and providing this pedestrian traffic with a sidewalk would enhance safety and walkability in the area, especially for young school children that are walking to school.

Project Impact/Benefit: Enhance pedestrian safety and ease flow of foot traffic.

Operating Fund Impact: Increase minor maintenance and repair costs \$2,500 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Special Assessments	\$75,000
Total	<u>\$75,000</u>

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Program Fiscal Year: **2018-2019**

Project Title: **CARMEL STREET SIDEWALK**

First Year in CIP: 2013
Project Category: Other Infrastructure
Department: General Government

Total Project Cost: \$75,000

Project Description: Construct sidewalk along Carmel Street in the Franklin Elementary School area.

Project Justification and/or Need: This area sees regular foot traffic and providing this pedestrian traffic with a sidewalk would enhance safety and walkability in the area, especially for young school children that are walking to school.

Project Impact/Benefit: Enhance pedestrian safety and ease flow of foot traffic.

Operating Fund Impact: Increase minor maintenance and repair costs \$2,500 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Special Assessments	\$75,000
Total	<u>\$75,000</u>

Program Fiscal Year: 2018-2019
Project Title: PEARL STREET SIDEWALK

First Year in CIP: 2008
Project Category: Other Infrastructure
Department: General Government

Total Project Cost: \$100,000

Project Description: Construct 2,600 feet of concrete sidewalk connecting the Lakeview Lutheran Manor area with Mitchell Street. Project would require significant land preparation, including retaining walls and other types of land manipulation required to make the sidewalk feasible.



Project Justification and/or Need: This area sees regular foot traffic and providing this pedestrian traffic with a sidewalk would enhance safety and walkability in the area.

Project Impact/Benefit: Enhance pedestrian safety and ease flow of foot traffic.

Operating Fund Impact: Increase minor maintenance and repair costs \$2,500 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Special Assessments	\$100,000
Total	\$100,000

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Program Fiscal Year: **2019-2020**

Project Title: **HEATING AND COOLING SYSTEM RENOVATION**

First Year in CIP: 2015
Project Category: Building Maintenance
Department: Municipal Complex

Total Project Cost: \$75,000

Project Description: Ongoing maintenance of the municipal complex is essential. Phasing this maintenance aids continuous improvement of the facility.

Project Justification and/or Need: Existing system is in need of modernization.

Project Impact/Benefit:

Operating Fund Impact: It is expected that replacing and renovating the system will help avoid major outages and failures and reduce major annual maintenance costs by up to \$1,500 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Current Property Tax Revenues	\$75,000
Total	\$75,000

Program Fiscal Year: **2019-2020**

Project Title: **FIRE GARAGE EXPANSION**

First Year in CIP: 2016
Project Category: Building Construction
Department: Municipal Complex

Total Project Cost: \$258,000

Project Description: Add approximately 1700 sf addition to garage space including new office space for Fire Marshal. Space would serve as a new space for physical fitness equipment making more apparatus bay space available for emergency equipment.

Project Justification and/or Need: Additional space would enable all City vehicles and equipment to be stored inside, importantly including the HAZMAT and Technical Rescue trailers which are currently stored outside. Could also accommodate a second ambulance when service demands may warrant.

Project Impact/Benefit: Interior storage of equipment prevents damage from the Northern Michigan elements. For example, HAZMAT suits deteriorate much more quickly when they are not stored in a temperature-controlled environment. Project would also enable physical fitness equipment to be available to staff outside of a garage area with frequent operation of diesel engines.

Operating Fund Impact: Interior storage would extend the usable life of the equipment in the trailers, and could also protect other vehicles from damage and wear from being stored outside. Savings could average \$2,000 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Current Property Tax Revenues	\$258,000
Total	\$258,000

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2019-2020**

Project Title: **UPGRADE MUNICIPAL COMPLEX RESTROOMS**

First Year in CIP: 2004
Project Category: Building Maintenance
Department: Municipal Complex

Total Project Cost: \$30,000

Project Description: Ongoing maintenance of the municipal complex is essential. Phasing this maintenance aids continuous improvement of the facility.

Project Justification and/or Need: Existing facility is 37 years old and in need of modernization. Project will encompass floors, lighting, dividers and toilets.

Project Impact/Benefit: Project will include public and employee bathrooms in the Police Department, Fire Department, and Administration, as well as the shower facilities in the police and fire departments.



Operating Fund Impact: It is expected that upgrading the restrooms in the entire facility will reduce minor maintenance costs by approximately \$600 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Current Property Tax Revenues	\$30,000
Total	<u>\$30,000</u>

Projects Identified – Public Safety

The following projects have been identified for inclusion in this five-year Capital Improvement Program.

	Police	Fire
Plan Fiscal Year: 2016-2017		
POLICE PATROL VEHICLE	32,000	
FIRE RESCUE VEHICLE		45,000
Total for FY 2016-2017	\$32,000	\$45,000
Plan Fiscal Year: 2017-2018		
POLICE K-9 VEHICLE	35,000	
SELF-CONTAINED BREATHING APPARATUS (SCBA)		128,000
Total for FY 2017-2018	\$35,000	\$128,000
Plan Fiscal Year: 2018-2019		
POLICE PATROL VEHICLE	33,000	
FIRE PUMPER		385,000
Total for FY 2018-2019	\$33,000	\$385,000
Plan Fiscal Year: 2019-2020		
POLICE PATROL VEHICLE	33,000	
Total for FY 2019-2020	\$33,000	\$0
Plan Fiscal Year: 2020-2021		
POLICE PATROL VEHICLE	34,000	
Total for FY 2020-2021	\$34,000	\$0
Departmental Total	\$167,000	\$558,000
Grand Total for Public Safety		<u>\$725,000</u>

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2016-2017**

Project Title: **VEHICLE REPLACEMENT**

First Year in CIP: 2011
Project Category: Vehicle Replacement
Department: Police



Total Project Cost: \$32,000

Project Description: The patrol vehicle replacement program is designed to replace vehicles by the end of their estimated useful life.

Project Justification and/or Need: Patrol vehicles are used on a daily basis and are often driven 24 hours per day. The estimated useful life of a patrol vehicle is approximately 90,000 miles. A modern and safe fleet is essential to aid public safety personnel in the carrying out of their duties.



Project Impact/Benefit: A regular cycle of patrol vehicle replacement keeps each vehicle that is in service in optimal condition, helping to protect the safety of officers as they carry out their duties.

Operating Fund Impact: Reduce minor maintenance by \$600 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Current Property Tax Revenues	\$32,000
Total	\$32,000

Program Fiscal Year: **2016-2017**

Project Title: **VEHICLE REPLACEMENT**

First Year in CIP: 2005
Project Category: Vehicle Replacement
Department: Fire

Total Project Cost: \$45,000



Project Description: Replace the light rescue vehicle. A 1-ton pickup truck will be used in light rescue for accident scenes as well as towing trailers to sites.

Project Justification and/or Need: The current light rescue truck is a 1994 Ford F-150. The truck is now over 20 years old, and the age of the vehicle has resulted in increasing maintenance costs. This truck was repainted and repaired in 2007 to extend its useful life another 5-8 years.



Project Impact/Benefit: The light rescue vehicle enhances operational efficiency and reduces response time.

Operating Fund Impact: Reduce minor maintenance by \$1,000 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Current Property Tax Revenues	\$45,000
Total	\$45,000

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2017-2018**

Project Title: **POLICE K-9 VEHICLE**

First Year in CIP: 2013
Project Category: Vehicle Replacement
Department: Police



Total Project Cost: \$35,000

Project Description: Replace the K-9 Patrol Vehicle which currently has about 100,000 miles and is nearing its estimated useful lifespan.

Project Justification and/or Need: Current K-9 patrol vehicle is a 2006 Dodge Durango. It currently has about 100,000 miles and the estimated useful lifespan of a patrol vehicle is 90,000 miles. Providing the K-9 officer with a modern, safe, and reliable patrol vehicle is essential in helping carry out the enforcement duties conducted by this officer. A reliable vehicle is essential because engine failure could also risk the life of the K-9 during harsh weather conditions.



Project Impact/Benefit: A regular cycle of patrol vehicle replacement keeps each front line vehicle that is in service in optimal condition, helping to protect the safety of officers as they carry out their duties, and adding the needed reliability for a specialty vehicle such as this. In addition, a reliable K-9 vehicle reduces miles and eases the stress on the front line police patrol vehicle fleet.

Operating Fund Impact: Reduce minor maintenance by \$1,000 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Current Property Tax Revenues	\$35,000
Total	\$35,000

Program Fiscal Year: **2017-2018**

Project Title: **SELF-CONTAINED BREATHING APPARATUS (SCBA)**

First Year in CIP: 2016
Project Category: Equipment Replacement
Department: Fire

Total Project Cost: \$128,000



Project Description: Replace current SCBA with new equipment that meets current standards. Purchase will include tracking software for emergency responders, integrated communications system, and building exiting aids.

Project Justification and/or Need: SCBA standards are updated every five years. The department's current SCBA meet the standards from 2002, and lack some of the basic safety and functional feature of more modern equipment. SCBA bottles have a maximum service life of 15 years before mandatory replacement as enforced by the Department of Transportation. Finally, severe use requirements have aged the current SCBA extensively causing increased maintenance costs and frequent and extended out-of-service incidents.



Project Impact/Benefit: New SCBA will have the features to allow current firefighters to work faster, longer, and safer. The provides a community benefit as well, as the department is able to provide a higher degree of safety through more capable firefighters, as well as decreased loss from fire because of the higher effectiveness of department personnel.

Operating Fund Impact: Reduce minor maintenance by \$2,000 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Grant	\$95,000
Current Property Tax Revenues	\$33,000
Total	\$128,000

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2018-2019**

Project Title: **VEHICLE REPLACEMENT**

First Year in CIP: 2014
Project Category: Vehicle Replacement
Department: Police



Total Project Cost: \$33,000

Project Description: The patrol vehicle replacement program is designed to replace vehicles by the end of their estimated useful life.

Project Justification and/or Need: Patrol vehicles are used on a daily basis and are often driven 24 hours per day. The estimated useful life of a patrol vehicle is approximately 90,000 miles. A modern and safe fleet is essential to aid public safety personnel in the carrying out of their duties.



Project Impact/Benefit: A regular cycle of patrol vehicle replacement keeps each vehicle that is in service in optimal condition, helping to protect the safety of officers as they carry out their duties.

Operating Fund Impact: Reduce minor maintenance by \$600 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Current Property Tax Revenues	\$33,000
Total	\$33,000

Program Fiscal Year: **2018-2019**

Project Title: **FIRE PUMPER**

First Year in CIP: 2010
Project Category: Vehicle Replacement
Department: Fire

Total Project Cost: \$385,000



Project Description: Replace Engine #1 which is a 2000 Alexis Pumper. It will be approximately 16 years old at time of replacement.

Project Justification and/or Need: Fire engines are typically replaced between 15 and 20 years of use.

Project Impact/Benefit: A more reliable pumper would increase safety for both the firefighters that depend on it and to the citizens that are being served by the fire department.

Operating Fund Impact: Reduce minor maintenance by \$1,000 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Current Property Tax Revenues	\$385,000
Total	<u>\$385,000</u>

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2019-2020**

Project Title: **VEHICLE REPLACEMENT**

First Year in CIP: 2015
Project Category: Vehicle Replacement
Department: Police



Total Project Cost: \$33,000

Project Description: The patrol vehicle replacement program is designed to replace vehicles by the end of their estimated useful life.

Project Justification and/or Need: Patrol vehicles are used on a daily basis and are often driven 24 hours per day. The estimated useful life of a patrol vehicle is approximately 90,000 miles. A modern and safe fleet is essential to aid public safety personnel in the carrying out of their duties.



Project Impact/Benefit: A regular cycle of patrol vehicle replacement keeps each vehicle that is in service in optimal condition, helping to protect the safety of officers as they carry out their duties.

Operating Fund Impact: Reduce minor maintenance by \$600 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Current Property Tax Revenues	\$33,000
Total	\$33,000

Program Fiscal Year: **2020-2021**

Project Title: **VEHICLE REPLACEMENT**

First Year in CIP: 2016
Project Category: Vehicle Replacement
Department: Police



Total Project Cost: \$34,000

Project Description: The patrol vehicle replacement program is designed to replace vehicles by the end of their estimated useful life.

Project Justification and/or Need: Patrol vehicles are used on a daily basis and are often driven 24 hours per day. The estimated useful life of a patrol vehicle is approximately 90,000 miles. A modern and safe fleet is essential to aid public safety personnel in the carrying out of their duties.



Project Impact/Benefit: A regular cycle of patrol vehicle replacement keeps each vehicle that is in service in optimal condition, helping to protect the safety of officers as they carry out their duties.

Operating Fund Impact: Reduce minor maintenance by \$600 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Current Property Tax Revenues	\$34,000
Total	\$34,000

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Projects Identified – Municipal Parks

The following projects have been identified for inclusion in this five-year Capital Improvement Program.

Plan Fiscal Year: 2016-2017

RIDING LAWN MOWER	9,000
Total for FY 2016-2017	\$9,000

Plan Fiscal Year: 2017-2018

SHORELINE STABILIZATION	7,500
PROGRAMMABLE PAVILION SIGN	30,000
KENWOOD BATHROOM	140,000
Total for FY 2017-2018	\$177,500

Plan Fiscal Year: 2018-2019

RIDING LAWN MOWER	9,000
SKATE PARK EQUIPMENT	40,000
PARKING LOT UPGRADES - LAKE AND CHESTNUT ST.	35,000
KENWOOD PARKING LOT	60,000
WALKWAY BRIDGE GAZEBO	25,000
Total for FY 2018-2019	\$169,000

Plan Fiscal Year: 2019-2020

SMALL TRACTOR	25,000
SHORELINE STABILIZATION	7,500
Total for FY 2019-2020	\$32,500

Plan Fiscal Year: 2020-2021

RIDING LAWN MOWER	9,000
Total for FY 2020-2021	\$9,000

Grand Total for Municipal Parks	\$397,000
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CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2016-2017**

Project Title: **RIDING LAWN MOWER**

First Year in CIP: 2011
Project Category: Equipment Replacement
Department: Municipal Parks

Total Project Cost: \$9,000

Project Description: Riding lawn mowers are used almost daily during the mowing season. Reliable equipment is essential to properly maintain the city parks.

Project Justification and/or Need: Current unit is five years old and is requiring increasing maintenance and repairs. Reliability is also a factor as the equipment ages. Maintenance costs for this equipment make purchasing a new mower the best option. Mowers are regularly replaced on a six-year schedule.



Project Impact/Benefit: A new mower with hydrostatic drive and a 52-inch floating deck will enable the Parks Crew to continue to beautifully maintain the City's signature system of parks.

Operating Fund Impact: Reduce minor maintenance costs by \$500 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Current Property Tax Revenues	\$9,000
Total	\$9,000

Program Fiscal Year: **2017-2018**

Project Title: **SHORELINE STABILIZATION**

First Year in CIP: 2013
Project Category: Improvements
Department: Municipal Parks

Total Project Cost: \$7,500

Project Description: Project will place new rip rap along City-owned shoreline around Lake Cadillac.

Project Justification and/or Need: Constant wave action along the shoreline is causing the shoreline to erode in many areas. Placement of additional rip rap will mitigate some of the eroding effects of this situation.

Project Impact/Benefit: Erosion will be significantly reduced thereby minimizing the rate of deterioration of the shoreline.



Operating Fund Impact: Placement of rip rap will cost approximately \$1,000 in the year of placement, and may reduce minor ongoing lakeshore maintenance costs by an immaterial amount.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Current Property Tax Revenues	\$7,500
Total	\$7,500

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2017-2018**

Project Title: **PROGRAMMABLE PAVILION SIGN**

First Year in CIP: 2016
Project Category: Improvements
Department: Municipal Parks

Total Project Cost: \$30,000

Project Description: Retrofit existing pavilion sign to a programmable electronic sign.

Project Justification and/or Need: Upgrade would allow a larger message to be placed on the sign and updating the message would be more efficient.

Project Impact/Benefit: Better information disseminated to community.

Operating Fund Impact: Increase electric expense \$500 per year, but increases would be offset by higher efficiency in changing sign messaging.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Current Property Tax Revenues	\$30,000
Total	<u>\$30,000</u>

Program Fiscal Year: **2017-2018**
 Project Title: **KENWOOD BATHROOM**

First Year in CIP: 2011
Project Category: Improvements
Department: Municipal Parks

Total Project Cost: \$140,000

Project Description: Demolish two (2) old bathroom facilities and build new facilities at the Kenwood Boat Launch and Beach location.

Project Justification and/or Need: Current restrooms are over 30 years old and have major cracking in the foundation as well as other significant issues. Current facility does not comply with Americans with Disabilities Act (ADA) barrier-free standards. Build new ADA-compliant facility.

Project Impact/Benefit: New facility will be ADA-compliant and improve the experience of park visitors.



Operating Fund Impact: Reduce minor maintenance costs by \$1,500 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Current Property Tax Revenues	\$140,000
Total	\$140,000

** Grant funds and private donations will also be sought for this project.*

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2018-2019**

Project Title: **RIDING LAWN MOWER**

First Year in CIP: 2014
Project Category: Equipment Replacement
Department: Municipal Parks

Total Project Cost: \$9,000

Project Description: Riding lawn mowers are used almost daily during the mowing season. Reliable equipment is essential to properly maintain the city parks. The City currently uses Exmark brand mowers, but they will no longer make this model.

Project Justification and/or Need: Current unit is five years old and is requiring increasing maintenance and repairs. Reliability is also a factor as the equipment ages. Maintenance costs for this equipment make purchasing a new mower the best option. Mowers are regularly replaced on a six-year schedule.



Project Impact/Benefit: A new mower with hydrostatic drive and a 52-inch floating deck will enable the Parks Crew to continue to beautifully maintain the City's signature system of parks.

Operating Fund Impact: Reduce minor maintenance costs by \$500 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Current Property Tax Revenues	\$9,000
Total	\$9,000

Program Fiscal Year: **2018-2019**
 Project Title: **SKATE PARK EQUIPMENT**

First Year in CIP: 2005
Project Category: Equipment Additions
Department: Municipal Parks

Total Project Cost: \$40,000

Project Description: Purchase additional equipment to expand Chris Blackburn Skate Park.

Project Justification and/or Need: Phase 1 of the skate park was completed in 2004. Additional equipment was installed in 2007 and 2009. The remaining equipment will come as part of this project.

Project Impact/Benefit: Expand offering of recreational skateboarding equipment at the skate park, providing additional activities for area youth.

Operating Fund Impact: Increase maintenance costs by \$500 per year.



Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Future Donations	\$40,000
Total	\$40,000

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2018-2019**

Project Title: **PARKING LOT UPGRADES - CHESTNUT AND LAKE STREETS**

First Year in CIP: 2003
Project Category: Improvements
Department: Municipal Parks

Total Project Cost: \$35,000

Project Description: Adequate public parking is needed to accommodate users of the lakefront park system. These parking lots are in need of repair to ensure ongoing usability.

Project Justification and/or Need: Parking lots will need an overlay of blacktop as well as new curb and gutter. These are two of the heaviest used parking lots providing access to lakefront recreation activities. The drainage of the lots will also be improved.



Project Impact/Benefit: Two high-use parking lots will be improved. This will enhance the visual impact of the prominent lots for the parks system and will reduce maintenance costs as well.

Operating Fund Impact: Reduce minor maintenance costs by \$500 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Current Property Tax Revenues	\$35,000
Total	<u>\$35,000</u>

Program Fiscal Year: **2018-2019**
 Project Title: **KENWOOD PARK LOT PAVING**

First Year in CIP: 2004
Project Category: Improvements
Department: Municipal Parks

Total Project Cost: \$60,000

Project Description: Improve the Kenwood Park area by paving the existing parking lot.

Project Justification and/or Need: The north side of Kenwood Park is more active with the addition of the volleyball courts. This results in increased traffic in the area, and dust becomes an issue on hot, dry summer days. Paving across from the Kenwood Beach area may also provide for overflow parking for boaters and swimmers.



Project Impact/Benefit: Project will reduce dust in an increasingly high traffic area. Paving a dirt parking lot will also eliminate substantial ongoing maintenance of a dirt lot.

Operating Fund Impact: Eliminate minor maintenance costs of \$1,000 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Current Property Tax Revenues	\$60,000
Total	\$60,000

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2018-2019**

Project Title: **WALKWAY BRIDGE GAZEBO**

First Year in CIP: 2007
Project Category: Improvements
Department: Municipal Parks

Total Project Cost: \$25,000

Project Description: Construct and install a gazebo cover for the walkway bridge on the McKellop Walkway.

Project Justification and/or Need: The new walkway bridge was designed for a gazebo addition at the mid-span. This will complete the project as originally planned.

Project Impact/Benefit: The addition of the gazebo will enhance the overall beauty of the walkway bridge and provide a protected area for the individuals to view Lake Cadillac and the headwaters of the Clam River.



Operating Fund Impact: Increase minor maintenance costs by \$500 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Future Donations	\$25,000
Total	\$25,000

Program Fiscal Year: **2019-2020**
 Project Title: **SMALL TRACTOR**

First Year in CIP: 2016
Project Category: New Equipment
Department: Municipal Parks

Total Project Cost: \$25,000

Project Description: Purchase small tractor to aid in removing items like seaweed and leaves, and assist in moving shoreline rocks as necessary.

Project Justification and/or Need: Add efficiency to park maintenance operations.

Project Impact/Benefit: Enhanced park space for users.

Operating Fund Impact: Purchase would add up to \$2,000 in operational costs per year for items like repairs and fuel for the tractor.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Current Property Tax Revenues	\$25,000
Total	\$25,000

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2019-2020**

Project Title: **SHORELINE STABILIZATION**

First Year in CIP: 2015
Project Category: Improvements
Department: Municipal Parks

Total Project Cost: \$7,500

Project Description: Project will place new rip rap along City-owned shoreline around Lake Cadillac.

Project Justification and/or Need: Constant wave action along the shoreline is causing the shoreline to erode in many areas. Placement of additional rip rap will mitigate some of the eroding effects of this situation.

Project Impact/Benefit: Erosion will be significantly reduced thereby minimizing the rate of deterioration of the shoreline.



Operating Fund Impact: Placement of rip rap will cost approximately \$1,000 in the year of placement, and may reduce minor ongoing lakeshore maintenance costs by an immaterial amount.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Current Property Tax Revenues	\$7,500
Total	<u>\$7,500</u>

Program Fiscal Year: **2020-2021**
 Project Title: **RIDING LAWN MOWER**

First Year in CIP: 2016
Project Category: Equipment Replacement
Department: Municipal Parks

Total Project Cost: \$9,000

Project Description: Riding lawn mowers are used almost daily during the mowing season. Reliable equipment is essential to properly maintain the city parks. The City currently uses Exmark brand mowers, but they will no longer make this model.



Project Justification and/or Need: Current unit is five years old and is requiring increasing maintenance and repairs. Reliability is also a factor as the equipment ages. Maintenance costs for this equipment make purchasing a new mower the best option. Mowers are regularly replaced on a six-year schedule.

Project Impact/Benefit: A new mower with hydrostatic drive and a 52-inch floating deck will enable the Parks Crew to continue to beautifully maintain the City’s signature system of parks.

Operating Fund Impact: Reduce minor maintenance costs by \$500 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Current Property Tax Revenues	\$9,000
Total	\$9,000

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Projects Identified – Major Streets

The following projects have been identified for inclusion in this five-year Capital Improvement Program.

Plan Fiscal Year: 2016-2017

LEESON STREET (CHESTNUT TO WEST DIVISION)	130,000
STREET SIGN REPLACEMENT	7,500
Total for FY 2016-2017	\$137,500

Plan Fiscal Year: 2017-2018

WEST BREMER STREET (LAKE TO MITCHELL)	80,000
Total for FY 2017-2018	\$80,000

Plan Fiscal Year: 2018-2019

CARMEL STREET	150,000
Total for FY 2018-2019	\$150,000

Plan Fiscal Year: 2019-2020

NORTH BOULEVARD	350,000
Total for FY 2019-2020	\$350,000

Plan Fiscal Year: 2020-2021

** NO PROJECTS **	0
Total for FY 2020-2021	\$0

Grand Total for Major Streets	\$717,500
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CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2016-2017**

Project Title: **LEESON STREET**

First Year in CIP: 2011
Project Category: Infrastructure Reconstruction
Department: Major Street

Total Project Cost: \$130,000

Project Description: Remove and replace a section of Leeson Street from Chestnut Street to West Division Street.

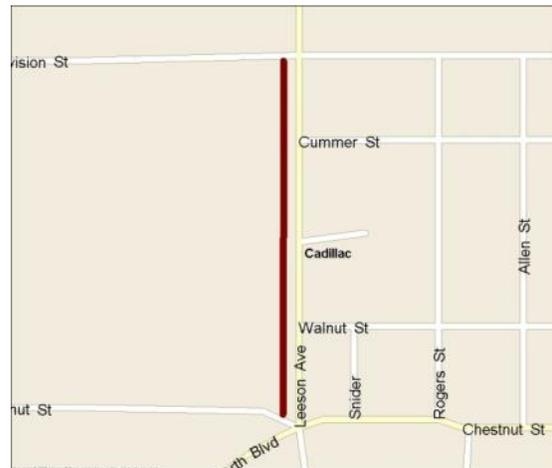
Project Justification and/or Need: The existing street will be removed and replaced with eight inches of gravel and three inches of hot mixed asphalt. The streets with the lowest ratings are the highest priority for repair. Currently this street has a rating of 3 out of 10. By FY2017 it is expected to further deteriorate and be in need of repair. This project will replace 1300 feet of street at an estimated \$100 per foot.

Project Impact/Benefit: Street replacement improves the drivability of the neighborhood and reduces annual maintenance costs related to deteriorated road surfaces.

Operating Fund Impact: Reduce maintenance and repair costs by \$1,000 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Motor Vehicle Highway Funds	\$130,000
Total	\$130,000



Program Fiscal Year: **2016-2017**

Project Title: **STREET SIGN REPLACEMENT**

First Year in CIP: 2015
Project Category: Signage Improvements
Department: Major Street

Total Project Cost: \$7,500

Project Description: Upgrade intersection street signs with newly designed signs.

Project Justification and/or Need: Existing street signs are white 4-inch lettering on a green background. Many of these signs have become faded over the years and need to be replaced as part of the routine maintenance program. The intent of this program is to design a street sign that blends with the existing “Way-Finding” signs. Initially there were 156 major street intersections that needed replaced. Overall replacement should be complete with this year’s project.



Project Impact/Benefit: Enhanced appearance and consistency of signage throughout the City.

Operating Fund Impact: Reduce maintenance and repair costs by \$500 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Motor Vehicle Highway Funds	\$7,500
Total	\$7,500

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2017-2018**

Project Title: **WEST BREMER STREET**

First Year in CIP: 2006
Project Category: Infrastructure Reconstruction
Department: Major Street

Total Project Cost: \$80,000

Project Description: Remove and replace a section of W. Bremer Street from Lake Street to Mitchell Street.

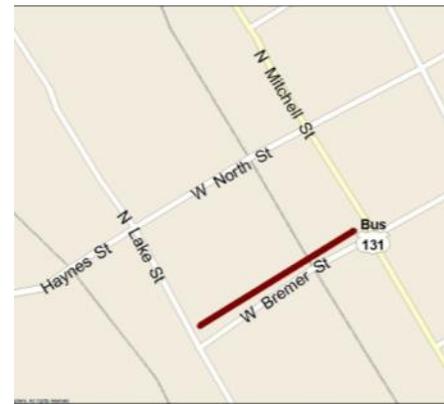
Project Justification and/or Need: The existing street will be removed and replaced with eight inches of gravel and three inches of hot mixed asphalt. The streets with the lowest ratings are the highest priority for repair. Currently this street has a rating of 2 out of 10. By FY2018 it is expected to further deteriorate and be in need of repair. This project will replace 400 feet of street at an estimated \$200 per foot.

Project Impact/Benefit: Street replacement improves the drivability of the neighborhood and reduces annual maintenance costs related to deteriorated road surfaces.

Operating Fund Impact: Reduce maintenance and repair costs by \$1,000 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Motor Vehicle Highway Funds	\$80,000
Total	\$80,000



Program Fiscal Year: **2018-2019**
 Project Title: **CARMEL STREET**

First Year in CIP: 2013
Project Category: Infrastructure Reconstruction
Department: Major Street

Total Project Cost: \$150,000

Project Description: Remove and replace a section of Carmel Street from Cobb Street to James Street.

Project Justification and/or Need: The existing has a rating of 3 out of 10 and is in need of repair. This project will replace 2500 feet of street at an estimated \$100 per foot.

Project Impact/Benefit: Street replacement improves the drivability of the neighborhood and reduces annual maintenance costs related to deteriorated road surfaces.

Operating Fund Impact: Reduce maintenance and repair costs by \$1,000 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Motor Vehicle Highway Funds	\$150,000
Total	\$150,000



CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2019-2020**

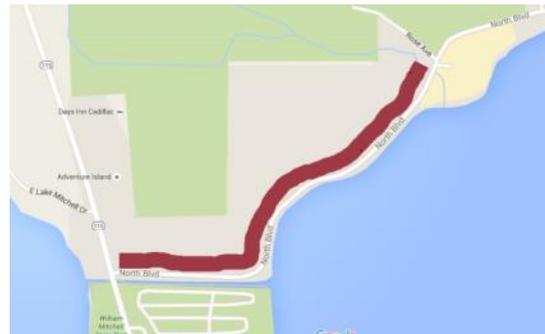
Project Title: **NORTH BOULEVARD**

First Year in CIP: 2014
Project Category: Infrastructure Reconstruction
Department: Major Street

Total Project Cost: \$350,000

Project Description: Remove and replace a section of North Boulevard from Kenwood Park to M-115.

Project Justification and/or Need: The existing street will be removed and replaced with 3” of hot mixed asphalt. The streets with the lowest ratings are the highest priority for repair. Currently this street has a rating of 3 out of 10. This street will also need subgrade undercutting. This project will replace 5000’ of street at an estimated cost of \$70 per foot.



Project Impact/Benefit: Street replacement improves the drivability of the neighborhood and reduces annual maintenance costs related to deteriorated road surfaces.

Operating Fund Impact: Reduce maintenance and repair costs by \$1,000 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Motor Vehicle Highway Funds	\$350,000
Total	\$350,000

Projects Identified – Local Streets

The following projects have been identified for inclusion in this five-year Capital Improvement Program.

Plan Fiscal Year: 2016-2017

EVART STREET (OAK TO LESTER)	140,000
HOLLY ROAD (BARBARA TO WREN)	180,000
EAST GARFIELD STREET (HOLBROOK TO HIGGINS)	240,000
SIMONS STREET (HARRIS TO BREMER)	240,000
SELMA STREET (W. DIVISION TO WRIGHT)	200,000
MARBLE STREET (MITCHELL TO SUNNYSIDE)	180,000
BLODGETT STREET (LINCOLN TO E. DIVISION)	65,000
STREET SIGN REPLACEMENT	7,500
Total for FY 2016-2017	\$1,252,500

Plan Fiscal Year: 2017-2018

CRIPPEN STREET (MITCHELL TO PARK)	200,000
SOUTH STREET (LAKE TO FOUR WINNS TEST CENTER)	75,000
SMITH STREET (WHEELER TO BURLINGAME)	100,000
ALDRICH STREET (BOND TO LINDEN)	120,000
STREET SIGN REPLACEMENT	7,500
Total for FY 2017-2018	\$502,500

Plan Fiscal Year: 2018-2019

EAST BREMER STREET (MITCHELL TO PARK)	150,000
CRESTVIEW, EVART AND STIMSON STREETS	220,000
STREET SIGN REPLACEMENT	7,500
Total for FY 2018-2019	\$377,500

Plan Fiscal Year: 2019-2020

COLFAX STREET	180,000
STREET SIGN REPLACEMENT	7,500
Total for FY 2019-2020	\$187,500

Plan Fiscal Year: 2020-2021

NELSON STREET (PARK TO HEMLOCK)	120,000
MASON STREET (MITCHELL TO PARKING LOT)	90,000
BURLINGAME STREET (13TH TO FORD)	120,000
AYERS STREET (WHEELER TO PLETT)	140,000
STREET SIGN REPLACEMENT	7,500
Total for FY 2020-2021	\$477,500

Grand Total for Local Streets \$2,797,500

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2016-2017**

Project Title: **EVART STREET**

First Year in CIP: 2009
Project Category: Infrastructure Reconstruction
Department: Local Street

Total Project Cost: \$140,000

Project Description: Remove and replace a section of Ewart Street from Oak Street to Lester Street.

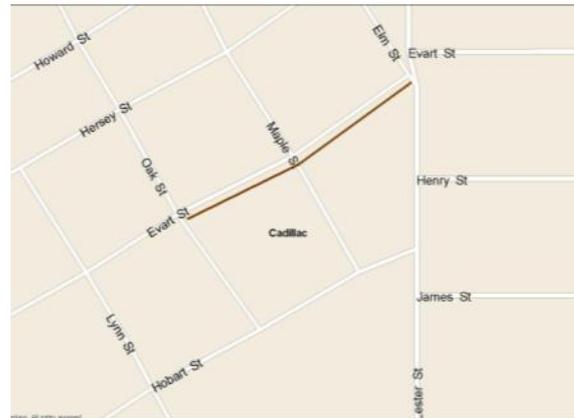
Project Justification and/or Need: This street has a current rating of 2 out of 10 and is in need of repair. This project will replace 700 feet of street at an estimated cost of \$200 per foot. It was last resurfaced 35 years ago.

Project Impact/Benefit: Project will improve drivability and appearance, while also reducing annual maintenance costs of a deteriorated road surface.

Operating Fund Impact: Reduce maintenance and repair costs by \$1,000 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Motor Vehicle Highway Funds	\$140,000
Total	\$140,000



Program Fiscal Year: **2016-2017**

Project Title: **HOLLY ROAD**

First Year in CIP: 2003
Project Category: Infrastructure Reconstruction
Department: Local Street

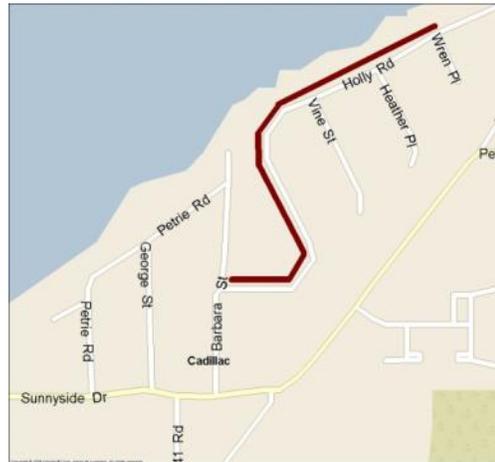
Total Project Cost: \$180,000

Project Description: Repair and resurface a section of Holly Road from Barbara Street to Wren Street.

Project Justification and/or Need: This street has a current rating of 2 out of 10 and is in need of repair. This project will crush and shape existing street and resurface it with three inches of hot mixed asphalt. 3,000 feet of street will be repaired at an estimated cost of \$60 per foot.

Project Impact/Benefit: Project will improve drivability and appearance, while also reducing annual maintenance costs of a deteriorated road surface.

Operating Fund Impact: Reduce maintenance and repair costs by \$1,000 per year.



Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Motor Vehicle Highway Funds	\$180,000
Total	\$180,000

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2016-2017**

Project Title: **EAST GARFIELD STREET**

First Year in CIP: 2006
Project Category: Infrastructure Reconstruction
Department: Local Street

Total Project Cost: \$240,000

Project Description: Remove and replace a section of East Garfield Street from Holbrook Street to Higgins Street.

Project Justification and/or Need: This street has a current rating of 2 out of 10 and is in need of repair. This project will replace 1,200 feet of street at an estimated cost of \$200 per foot.

Project Impact/Benefit: Project will improve drivability and appearance, while also reducing annual maintenance costs of a deteriorated road surface.

Operating Fund Impact: Reduce maintenance and repair costs by \$1,000 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Motor Vehicle Highway Funds	\$240,000
Total	\$240,000



Program Fiscal Year: **2016-2017**

Project Title: **SIMONS STREET**

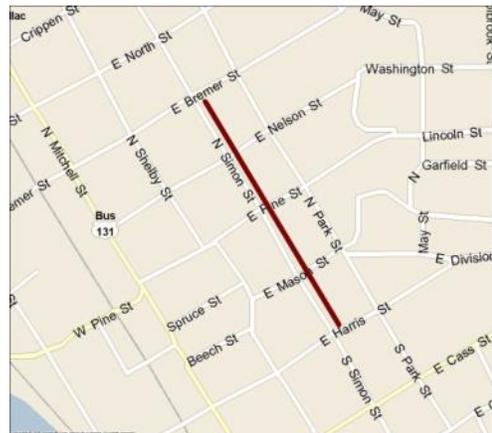
First Year in CIP: 2013
Project Category: Infrastructure Reconstruction
Department: Local Street

Total Project Cost: \$240,000

Project Description: Remove and replace a section of Simons Street from Harris Street to Bremer Street.

Project Justification and/or Need: This street has a current rating of 2 out of 10 and is in need of repair. This project will replace 1200 feet of street at an estimated cost of \$200 per foot.

Project Impact/Benefit: Project will improve drivability and appearance, while also reducing annual maintenance costs of a deteriorated road surface.



Operating Fund Impact: Reduce maintenance and repair costs by \$1,000 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Motor Vehicle Highway Funds	\$240,000
Total	\$240,000

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2016-2017**

Project Title: **SELMA STREET**

First Year in CIP: 2003
Project Category: Infrastructure Reconstruction
Department: Local Street

Total Project Cost: \$200,000

Project Description: Remove and replace a section of Selma Street from West Division Street to Wright Street.

Project Justification and/or Need: This street has a current rating of 2 out of 10 and is in need of repair. This project will replace 1,000 feet of street at an estimated cost of \$200 per foot.

Project Impact/Benefit: Project will improve drivability and appearance, while also reducing annual maintenance costs of a deteriorated road surface.

Operating Fund Impact: Reduce maintenance and repair costs by \$1,000 per year.



Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Motor Vehicle Highway Funds	\$200,000
Total	\$200,000

Program Fiscal Year: **2016-2017**
 Project Title: **MARBLE STREET**

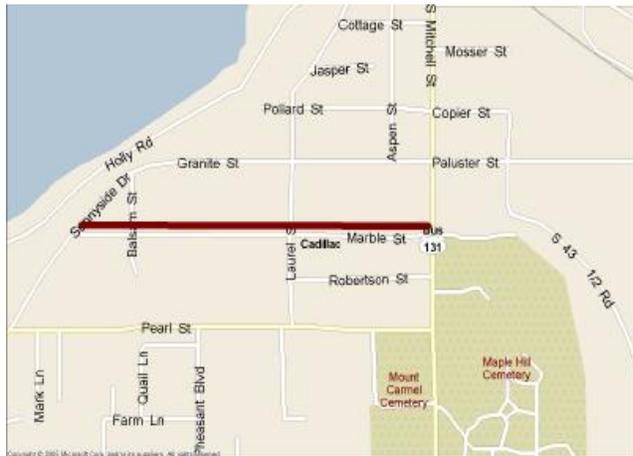
First Year in CIP: 2008
Project Category: Infrastructure Reconstruction
Department: Local Street

Total Project Cost: \$180,000

Project Description: Repair and resurface a section of Marble Street from Mitchell Street to Sunnyside Drive.

Project Justification and/or Need: This street has a current rating of 3 out of 10 and is in need of repair. This project will repair and resurface 3,000 feet of street at an estimated cost of \$60 per foot.

Project Impact/Benefit: Project will improve drivability and appearance, while also reducing annual maintenance costs of a deteriorated road surface.



Operating Fund Impact: Reduce maintenance and repair costs by \$1,000 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Motor Vehicle Highway Funds	\$180,000
Total	\$180,000

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2016-2017**

Project Title: **BLODGETT STREET**

First Year in CIP: 2004
Project Category: Infrastructure Reconstruction
Department: Local Street

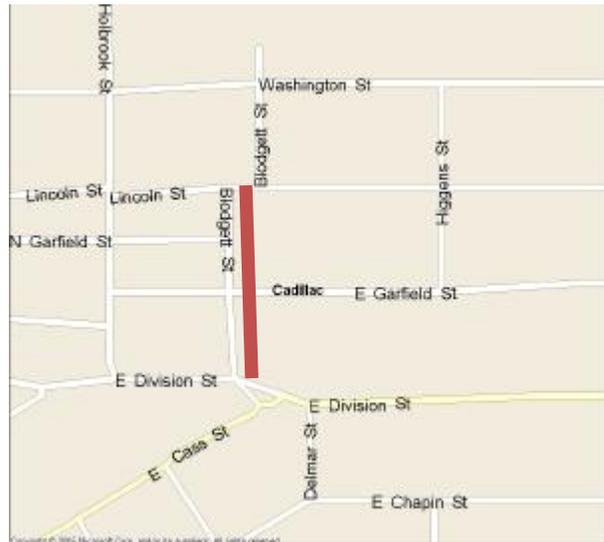
Total Project Cost: \$65,000

Project Description: Remove and replace a section of Blodgett Street from Lincoln Street to East Division Street.

Project Justification and/or Need: This street has a rating of 2 out of 10 and is in need of repair. This project will replace 650 feet of street at an estimated cost of \$100 per foot.

Project Impact/Benefit: Project will improve drivability and appearance, while also reducing annual maintenance costs of a deteriorated road surface.

Operating Fund Impact: Reduce maintenance and repair costs by \$1,000 per year.



Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Motor Vehicle Highway Funds	\$65,000
Total	\$65,000

Program Fiscal Year: **2016-2017**
 Project Title: **STREET SIGN REPLACEMENT**

First Year in CIP: 2012
Project Category: Signage Improvements
Department: Local Street

Total Project Cost: \$7,500

Project Description: Upgrade intersection street signs with newly designed signs.

Project Justification and/or Need: Existing street signs are white 4-inch lettering on a green background. Many of these signs have become faded over the years and need to be replaced as part of the routine maintenance program. The intent of this program is to design a street sign that blends with the existing “Way-Finding” signs. Initially there were 244 local street intersections that needed replaced. Overall replacement is approximately 80% complete prior to this year’s project.



Project Impact/Benefit: Enhanced appearance and consistency of signage throughout the City.

Operating Fund Impact: Reduce maintenance and repair costs by \$500 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Motor Vehicle Highway Funds	\$7,500
Total	\$7,500

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2017-2018**

Project Title: **CRIPPEN STREET**

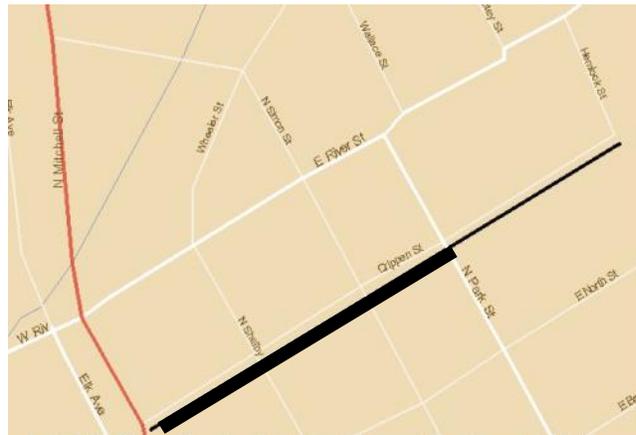
First Year in CIP: 2003
Project Category: Infrastructure Reconstruction
Department: Local Street

Total Project Cost: \$200,000

Project Description: Remove and replace a section of Crippen Street from Mitchell Street to Park Street.

Project Justification and/or Need: This street has a current rating of 3 out of 10 and is need of repair. This project will replace 1,050 feet of street at an estimated cost of \$200 per foot.

Project Impact/Benefit: Project will improve drivability and appearance, while also reducing annual maintenance costs of a deteriorated road surface.



Operating Fund Impact: Reduce maintenance and repair costs by \$1,000 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Motor Vehicle Highway Funds	\$200,000
Total	\$200,000

Program Fiscal Year: **2017-2018**

Project Title: **SOUTH STREET**

First Year in CIP: 2005
Project Category: Infrastructure Reconstruction
Department: Local Street

Total Project Cost: \$75,000

Project Description: Remove and replace a section of South Street from Lake Street to the Four Winns Test Center.

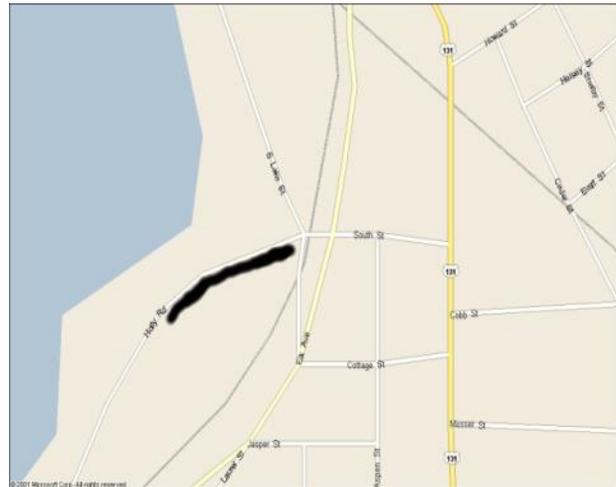
Project Justification and/or Need: This street has a current rating of 3 out of 10 and is in need of repair. This project will replace 500 feet of street at an estimated cost of \$150 per foot.

Project Impact/Benefit: Project will improve drivability and appearance, while also reducing annual maintenance costs of a deteriorated road surface.

Operating Fund Impact: Reduce maintenance and repair costs by \$1,000 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Motor Vehicle Highway Funds	\$75,000
Total	\$75,000



CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2017-2018**

Project Title: **SMITH STREET**

First Year in CIP: 2009
Project Category: Infrastructure Reconstruction
Department: Local Street

Total Project Cost: \$100,000

Project Description: Remove and replace a section of Smith Street from Wheeler Street to Burlingame Street.

Project Justification and/or Need: This street has a current rating of 2 out of 10 and is in need of repair. This project will replace 1,000 feet of street at an estimated cost of \$100 per foot. It was last resurfaced in 1980.

Project Impact/Benefit: Project will improve drivability and appearance, while also reducing annual maintenance costs of a deteriorated road surface.



Operating Fund Impact: Reduce maintenance and repair costs by \$1,000 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Motor Vehicle Highway Funds	\$100,000
Total	\$100,000

Program Fiscal Year: **2017-2018**

Project Title: **ALDRICH STREET**

First Year in CIP: 2006
Project Category: Infrastructure Reconstruction
Department: Local Street

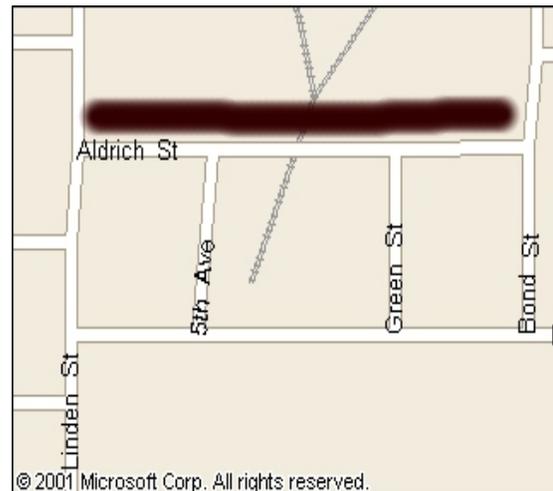
Total Project Cost: \$120,000

Project Description: Repair and resurface a section of Aldrich Street from Bond Street to Linden Street.

Project Justification and/or Need: This street has a current rating of 3 out of 10 and is in need of repair. This project will repair and resurface 1,200 feet of street at an estimated cost of \$100 per foot.

Project Impact/Benefit: Project will improve drivability and appearance, while also reducing annual maintenance costs of a deteriorated road surface.

Operating Fund Impact: Reduce maintenance and repair costs by \$1,000 per year.



Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Motor Vehicle Highway Funds	\$120,000
Total	\$120,000

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2017-2018**

Project Title: **STREET SIGN REPLACEMENT**

First Year in CIP: 2012
Project Category: Signage Improvements
Department: Local Street

Total Project Cost: \$7,500

Project Description: Upgrade intersection street signs with newly designed signs.

Project Justification and/or Need: Existing street signs are white 4-inch lettering on a green background. Many of these signs have become faded over the years and need to be replaced as part of the routine maintenance program. The intent of this program is to design a street sign that blends with the existing “Way-Finding” signs. Initially there were 244 local street intersections that needed replaced. Overall replacement is approximately 90% complete prior to this year’s project.



Project Impact/Benefit: Enhanced appearance and consistency of signage throughout the City.

Operating Fund Impact: Reduce maintenance and repair costs by \$500 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Motor Vehicle Highway Funds	\$7,500
Total	<hr/> \$7,500

Program Fiscal Year: **2018-2019**
 Project Title: **EAST BREMER STREET**

First Year in CIP: 2003
Project Category: Infrastructure Reconstruction
Department: Local Street

Total Project Cost: \$150,000

Project Description: Remove and replace a section of East Bremer Street from Mitchell Street to Park Street.

Project Justification and/or Need: This street has a current rating of 3 out of 10 and is in need of repair. This project will replace 1,000 feet of street at an estimated cost of \$150 per foot.

Project Impact/Benefit: Project will improve drivability and appearance, while also reducing annual maintenance costs of a deteriorated road surface.

Operating Fund Impact: Reduce maintenance and repair costs by \$1,000 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Motor Vehicle Highway Funds	\$150,000
Total	\$150,000



CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2018-2019**

Project Title: **CRESTVIEW, EVART AND STIMSON STREETS**

First Year in CIP: 2013
Project Category: Infrastructure Reconstruction
Department: Local Street

Total Project Cost: \$220,000

Project Description: Remove and replace a section of Crestview Street from Evart Street to Stimson Street, Evart Street from Carmel Street to the east end of the street, and Stimson Street from Carmel Street to the east end of the street.

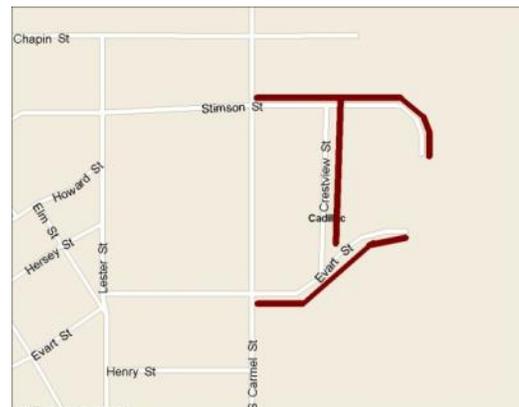
Project Justification and/or Need: These streets have a rating of 3 out of 10 and are in need of repair. This project will replace 2200 feet of street at an estimated cost of \$100 per foot.

Project Impact/Benefit: Project will improve drivability and appearance, while also reducing annual maintenance costs of a deteriorated road surfaces.

Operating Fund Impact: Reduce maintenance and repair costs by \$1,000 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Motor Vehicle Highway Funds	\$220,000
Total	\$220,000



Program Fiscal Year: **2018-2019**
 Project Title: **STREET SIGN REPLACEMENT**

First Year in CIP: 2014
Project Category: Signage Improvements
Department: Local Street

Total Project Cost: \$7,500

Project Description: Upgrade intersection street signs with newly designed signs.

Project Justification and/or Need: Existing street signs are white 4-inch lettering on a green background. Many of these signs have become faded over the years and need to be replaced as part of the routine maintenance program. The intent of this program is to design a street sign that blends with the existing “Way-Finding” signs. Initially there were 244 local street intersections that needed replaced. Overall replacement is approximately 95% complete prior to this year’s project.



Project Impact/Benefit: Enhanced appearance and consistency of signage throughout the City.

Operating Fund Impact: Reduce maintenance and repair costs by \$500 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Motor Vehicle Highway Funds	\$7,500
Total	\$7,500

CITY OF CADILLAC

Capital Improvement Program
For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2019-2020**
Project Title: **COLFAX STREET**

First Year in CIP: 2013
Project Category: Infrastructure Reconstruction
Department: Local Street

Total Project Cost: \$180,000

Project Description: Remove and replace a section of Colfax Street from W. Division Street to Wright Street.

Project Justification and/or Need: This street has a rating of 3 out of 10 and is in need of repair. This project will replace 1200 feet of street at an estimated cost of \$150 per foot.

Project Impact/Benefit: Project will improve drivability and appearance, while also reducing annual maintenance costs of a deteriorated road surface.



Operating Fund Impact: Reduce maintenance and repair costs by \$1,000 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Motor Vehicle Highway Funds	\$180,000
Total	\$180,000

Program Fiscal Year: **2019-2020**

Project Title: **STREET SIGN REPLACEMENT**

First Year in CIP: 2015
Project Category: Signage Improvements
Department: Local Street

Total Project Cost: \$7,500

Project Description: Upgrade intersection street signs with newly designed signs.

Project Justification and/or Need: Existing street signs are white 4-inch lettering on a green background. Many of these signs have become faded over the years and need to be replaced as part of the routine maintenance program. The intent of this program is to design a street sign that blends with the existing “Way-Finding” signs. Initially there were 244 local street intersections that needed replaced. This year should complete the replacement project.



Project Impact/Benefit: Enhanced appearance and consistency of signage throughout the City.

Operating Fund Impact: Reduce maintenance and repair costs by \$500 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Motor Vehicle Highway Funds	\$7,500
Total	\$7,500

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2020-2021**

Project Title: **NELSON STREET**

First Year in CIP: 2016
Project Category: Infrastructure Reconstruction
Department: Local Street

Total Project Cost: \$120,000

Project Description: Remove and replace a section of Nelson Street from Park Street to Hemlock Street.

Project Justification and/or Need: Street has a current rating of 3 out of 10 and is in need of repair. This project will replace 600 feet of street at an estimated cost of \$200 per foot. The street was last resurfaced 40 years ago.

Project Impact/Benefit: Project will improve drivability and appearance, while also reducing annual maintenance costs of a deteriorated road surface.



Operating Fund Impact: Reduce maintenance and repair costs by \$1,000 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Motor Vehicle Highway Funds	\$120,000
Total	\$120,000

Program Fiscal Year: **2020-2021**
 Project Title: **MASON STREET**

First Year in CIP: 2016
Project Category: Infrastructure Reconstruction
Department: Local Street

Total Project Cost: \$90,000

Project Description: Remove and replace a section of Mason Street from Mitchell Street to the parking lot.

Project Justification and/or Need: Street has a current rating of 3 out of 10 and is in need of repair. This project will replace 300 feet of street at an estimated cost of \$300 per foot. The street was last resurfaced 40 years ago.

Project Impact/Benefit: Project will improve drivability and appearance, while also reducing annual maintenance costs of a deteriorated road surface.



Operating Fund Impact: Reduce maintenance and repair costs by \$1,000 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Motor Vehicle Highway Funds	\$90,000
Total	\$90,000

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2020-2021**

Project Title: **BURLINGAME STREET**

First Year in CIP: 2016
Project Category: Infrastructure Reconstruction
Department: Local Street

Total Project Cost: \$120,000

Project Description: Remove and replace a section of Burlingame Street from 13 Street to Ford Street.

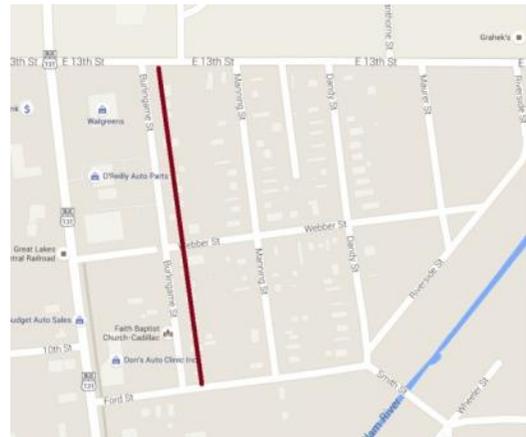
Project Justification and/or Need: Street has a current rating of 3 out of 10 and is in need of repair. This project will replace 1200 feet of street at an estimated cost of \$100 per foot.

Project Impact/Benefit: Project will improve drivability and appearance, while also reducing annual maintenance costs of a deteriorated road surface.

Operating Fund Impact: Reduce maintenance and repair costs by \$1,000 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Motor Vehicle Highway Funds	\$120,000
Total	\$120,000



Program Fiscal Year: **2020-2021**

Project Title: **AYERS STREET**

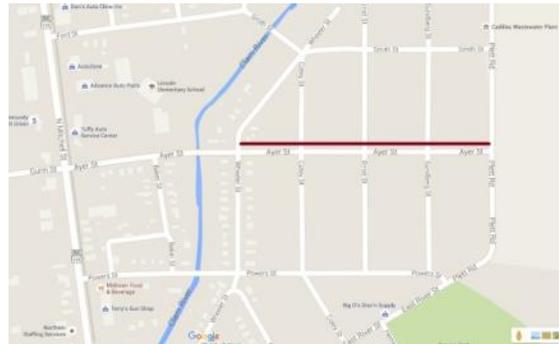
First Year in CIP: 2016
Project Category: Infrastructure Reconstruction
Department: Local Street

Total Project Cost: \$140,000

Project Description: Remove and replace a section of Ayers Street from Wheeler Street to Plett Road.

Project Justification and/or Need: Street has a current rating of 3 out of 10 and is in need of repair. This project will replace 1400 feet of street at an estimated cost of \$100 per foot.

Project Impact/Benefit: Project will improve drivability and appearance, while also reducing annual maintenance costs of a deteriorated road surface.



Operating Fund Impact: Reduce maintenance and repair costs by \$1,000 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Motor Vehicle Highway Funds	\$140,000
Total	\$140,000

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2020-2021**

Project Title: **STREET SIGN REPLACEMENT**

First Year in CIP: 2016
Project Category: Signage Improvements
Department: Local Street

Total Project Cost: \$7,500

Project Description: Upgrade intersection street signs with newly designed signs.

Project Justification and/or Need: Existing street signs are white 4-inch lettering on a green background. Many of these signs have become faded over the years and need to be replaced as part of the routine maintenance program. The intent of this program is to design a street sign that blends with the existing “Way-Finding” signs. Initially there were 244 local street intersections that needed replaced. Overall replacement should be complete in the prior year but funds may be needed to make final or additional replacements.



Project Impact/Benefit: Enhanced appearance and consistency of signage throughout the City.

Operating Fund Impact: Reduce maintenance and repair costs by \$500 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Motor Vehicle Highway Funds	\$7,500
Total	<u>\$7,500</u>

Projects Identified – Cemetery Operating

The following projects have been identified for inclusion in this five-year Capital Improvement Program.

Plan Fiscal Year: 2016-2017

** NO PROJECTS **

	0
Total for FY 2016-2017	\$0

Plan Fiscal Year: 2017-2018

SPRINKLER SYSTEM UPGRADE
 RIDING MOWER

	15,000
	9,000
Total for FY 2017-2018	\$24,000

Plan Fiscal Year: 2018-2019

CEMETERY ROAD PAVING

	40,000
Total for FY 2018-2019	\$40,000

Plan Fiscal Year: 2019-2020

RIDING LAWN MOWER
 ENTRANCE PILLARS

	9,000
	50,000
Total for FY 2019-2020	\$59,000

Plan Fiscal Year: 2020-2021

MAINTENANCE GARAGE

	100,000
Total for FY 2020-2021	\$100,000

	\$223,000
Grand Total for Cemetery	\$223,000

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2017-2018**

Project Title: **SPRINKLER SYSTEM ENHANCEMENTS**

First Year in CIP: 2015
Project Category: Equipment Replacement
Department: Cemetery

Total Project Cost: \$15,000

Project Description: Install irrigation well and pump to supply water for cemetery.

Project Justification and/or Need: Installing a well at the cemetery would reduce watering costs.

Project Impact/Benefit: Reduce watering costs and enhance appearance of cemetery.

Operating Fund Impact: Reduce minor maintenance costs by \$2,500 per year.



Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Cemetery Perpetual Care Fund Contribution	\$15,000
Total	\$15,000

Program Fiscal Year: **2017-2018**

Project Title: **RIDING LAWN MOWER**

First Year in CIP: 2010
Project Category: Equipment Replacement
Department: Cemetery

Total Project Cost: \$9,000

Project Description: Riding lawn mowers are used almost daily during the mowing season. Reliable equipment is essential to properly maintain the cemetery.

Project Justification and/or Need: Current unit is five years old and is requiring increasing maintenance and repairs. Reliability is also a factor as the equipment ages. Maintenance costs for this equipment make purchasing a new mower the best option. Mowers are regularly replaced on a six-year schedule.



Project Impact/Benefit: A new mower with hydrostatic drive and a 52-inch floating deck will enable the cemetery maintenance crew to beautifully maintain the City’s cemetery with a high level of efficiency and productivity.

Operating Fund Impact: Reduce minor maintenance costs by \$500 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Cemetery Operating Revenues	\$9,000
Total	<u>\$9,000</u>

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2018-2019**

Project Title: **PAVING**

First Year in CIP: 2004
Project Category: Reconstruction
Department: Cemetery

Total Project Cost: \$40,000

Project Description: A portion of the cemetery road system will be repaved.

Project Justification and/or Need: The road system in the cemetery is in need of repaving, and the remaining portion of gravel road needs to be paved. It is planned to pave about 1/3 of the system with funds committed to this project.

Project Impact/Benefit: The age of existing paved roads and the need to pave existing gravel roads makes this a necessary project.

Operating Fund Impact: Reduce minor maintenance costs by \$500 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Cemetery Operating Revenues	\$40,000
Total	<u>\$40,000</u>



Program Fiscal Year: **2019-2020**

Project Title: **RIDING LAWN MOWER**

First Year in CIP: 2013
Project Category: Equipment Replacement
Department: Cemetery

Total Project Cost: \$9,000

Project Description: Riding lawn mowers are used almost daily during the mowing season. Reliable equipment is essential to properly maintain the cemetery.

Project Justification and/or Need: Current unit is five years old and is requiring increasing maintenance and repairs. Reliability is also a factor as the equipment ages. Maintenance costs for this equipment make purchasing a new mower the best option. Mowers are regularly replaced on a six-year schedule.



Project Impact/Benefit: A new mower with hydrostatic drive and a 52-inch floating deck will enable the cemetery maintenance crew to beautifully maintain the City’s cemetery with a high level of efficiency and productivity.

Operating Fund Impact: Reduce minor maintenance costs by \$500 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Cemetery Operating Revenues	\$9,000
Total	\$9,000

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2019-2020**

Project Title: **ENTRANCE PILLAR RECONSTRUCTION**

First Year in CIP: 2004
Project Category: Reconstruction
Department: Cemetery

Total Project Cost: \$50,000

Project Description: Pillars at the south entrance to Maple Hill Cemetery will be removed and replaced with new ones.

Project Justification and/or Need: Currently only one pillar remains at the south entrance. It is proposed to be relocated to the south property corner and then install two new marble pillars at the south gate.

Project Impact/Benefit: Project will enhance the visual appearance of the cemetery. Donors will have the opportunity to give to a project.



Operating Fund Impact: Reduce minor maintenance costs by \$500 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Future Donations	\$50,000
Total	<u>\$50,000</u>

Program Fiscal Year: **2020-2021**
Project Title: **MAINTENANCE GARAGE**

First Year in CIP: 2014
Project Category: New Construction
Department: Cemetery

Total Project Cost: \$100,000

Project Description: Replace existing garage/office at Maple Hill Cemetery with a larger garage to accommodate all cemetery maintenance vehicles and equipment.

Project Justification and/or Need: Current structure is very old and needs to be updated. Building is not well insulated and is difficult and costly to heat. Electrical system is not up to current building codes.

Project Impact/Benefit: Project will enable all cemetery vehicles and equipment to be stored inside, thereby protecting equipment from the elements and extending useful lives. Utilities costs will be lessened as well.

Operating Fund Impact: Reduce minor maintenance and utilities costs by \$1,000 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Cemetery Operating Revenues	\$100,000
Total	\$100,000

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Projects Identified – Water and Wastewater

The following projects have been identified for inclusion in this five-year Capital Improvement Program.

Plan Fiscal Year: 2016-2017

EVART STREET	50,000
HOLLY ROAD	40,000
EAST GARFIELD STREET	40,000
SIMONS STREET	40,000
SELMA STREET	90,000
MARBLE STREET	100,000
BLODGETT STREET	25,000
STAFF CAR	18,000
SERVICE TRUCK	27,000
MANHOLE REHABILITATION	25,000
EMPLOYEE BREAKROOM AND LOCKER FACILITY	40,000
WATER WELL MAINTENANCE	25,000
ULTRAVIOLET DISINFECTION EQUIPMENT	35,500
ATOMIC ABSORPTION SPECTROSCOPY MACHINE	70,000
SAW GRANT REPAIRS	25,000
AQUA DISK REPAIRS	30,000
WATER SUPPLY IMPROVEMENTS	3,000,000
Total for FY 2016-2017	\$3,680,500

Plan Fiscal Year: 2017-2018

CRIPPEN STREET	60,000
SOUTH STREET	40,000
SMITH STREET	35,000
ALDRICH STREET	40,000
WEST BREMER STREET	85,000
MUFFLE FURNACE/DRYING OVEN REPLACEMENT	8,000
FEW PUMP REPLACEMENT	20,000
SEWER JETTER	100,000
DUMP TRUCK	75,000
CIRCULAR PUMP	15,000
RAS PUMP	11,000
WATER WELL MAINTENANCE	25,000
TWO (2) ENVIRONMENTAL LAB FUME HOODS	20,000
MANHOLE REHABILITATION	25,000
CUTTER STACK FOR MUFFIN MONSTER	25,000
EQ BASIN BLOCK REPLACEMENT/REPAIR	25,000
SAW GRANT REPAIRS	25,000
Total for FY 2017-2018	\$634,000

Plan Fiscal Year: 2018-2019

COBB & CARMEL STREET	50,000
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CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

EAST BREMER STREET	85,000
CRESTVIEW, EVART AND STIMSON STREETS	90,000
WATER WELL MAINTENANCE	25,000
3/4 TON, 4X4 SERVICE TRUCK	28,000
MOBILE DIESEL AIR COMPRESSOR	20,000
MANHOLE REHABILITATION	25,000
LAB FRIDGES AND FREEZERS	10,000
FERRIC PUMPS	10,000
CONCRETE/ASPHALT WORK AT WWTP	175,000
TWO SERVICE TRUCKS	55,000
BAR SCREENS AT WWTP	50,000
BOD INCUBATOR	7,500
Total for FY 2018-2019	\$630,500

Plan Fiscal Year: 2019-2020

COLFAX STREET	60,000
WATER WELL MAINTENANCE	25,000
SOUTH SHORE LIFT STATION BUILDING	8,000
MANHOLE REHABILITATION	25,000
LABORATORY INCUBATORS	8,000
TWO (2) SERVICE TRUCKS	55,000
BIO-MAKEUP AIR/FURNACE	25,000
PRIMARY DRIVE REPLACEMENT/RENOVATION	45,000
SECONDARY DRIVE REPLACEMENT/RENOVATION	60,000
RAS PUMPS 1&2 REPLACEMENT	30,000
SUNSET/LAKESHORE MAIN REPLACEMENT	20,000
Total for FY 2019-2020	\$361,000

Plan Fiscal Year: 2020-2021

NELSON STREET	30,000
MASON STREET	10,000
BURLINGAME STREET	70,000
AUTOCLAVE REPLACEMENT	8,000
MAJOR BUILDING EXTERIOR REPAIRS	175,000
REVOLUTION BLOWER	200,000
ULTRAVIOLET BULBS	40,000
SPECTROPHOTOMETER	7,500
WATER WELL INSPECTION	25,000
AQUA DISK CLOTH	30,000
STORAGE BARN	35,000
ROTARY SCREW COMPRESSOR	12,500
MANHOLE REHABILITATION	25,000
3/4 TON, 4X4 SERVICE TRUCK	28,000
Total for FY 2020-2021	\$696,000

Grand Total for Water and Wastewater \$6,002,000

Program Fiscal Year: **2016-2017**
 Project Title: **EVART STREET**

First Year in CIP: 2009
Project Category: Infrastructure Reconstruction
Department: Water and Wastewater

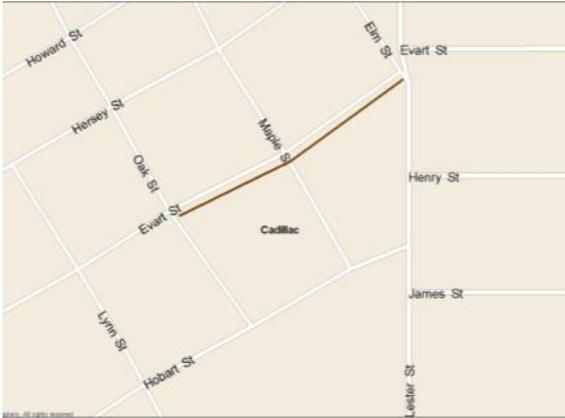
Total Project Cost: \$50,000

Project Description: Replace water and sewer infrastructure below the street surface while it is torn up. This project includes the section of Evert Street between Oak Street and Lester Street.

Project Justification and/or Need: This street will be reconstructed this year, and it is prudent to replace underlying utility infrastructure while a street is torn up.

Project Impact/Benefit: Enhance water quality and improve the delivery of utility services.

Operating Fund Impact: Reduce minor maintenance costs by \$500 per year.



Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$50,000
Total	\$50,000

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2016-2017**

Project Title: **HOLLY ROAD**

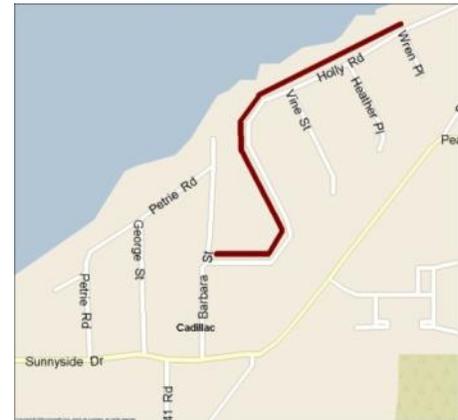
First Year in CIP: 2013
Project Category: Infrastructure Reconstruction
Department: Water and Wastewater
Total Project Cost: \$40,000

Project Description: Replace several sewer connection points below the street surface while it is torn up. This project includes the section of Holly Road between Wren Street and Barbara Street.

Project Justification and/or Need: This street will be reconstructed this year, and it is prudent to replace underlying utility infrastructure while a street is torn up.

Project Impact/Benefit: Enhance water quality and improve the delivery of utility services.

Operating Fund Impact: Reduce minor maintenance costs by \$500 per year.



Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$40,000
Total	\$40,000

Program Fiscal Year: **2016-2017**

Project Title: **EAST GARFIELD STREET**

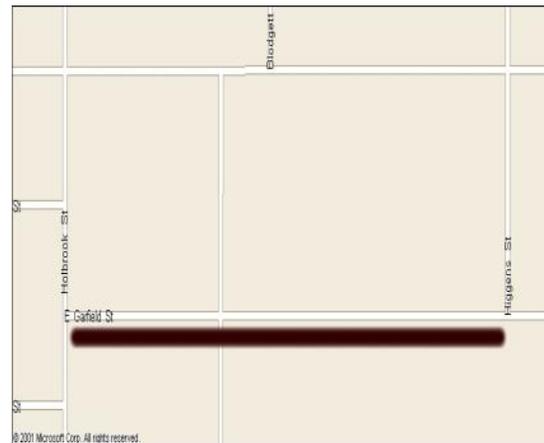
First Year in CIP: 2007
Project Category: Infrastructure Reconstruction
Department: Water and Wastewater

Total Project Cost: \$40,000

Project Description: Replace water and sewer infrastructure below the street surface while it is torn up. This project includes the section of E. Garfield Street between Holbrook Street and Higgins Street.

Project Justification and/or Need: This street will be reconstructed this year, and it is prudent to replace underlying utility infrastructure while a street is torn up.

Project Impact/Benefit: Enhance water quality and improve the delivery of utility services.



Operating Fund Impact: Reduce minor maintenance costs by \$500 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$40,000
Total	\$40,000

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2016-2017**

Project Title: **SIMONS STREET**

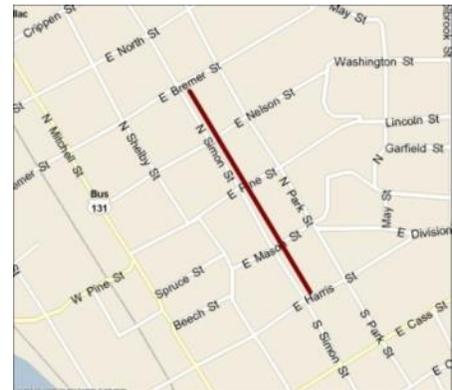
First Year in CIP: 2013
Project Category: Infrastructure Reconstruction
Department: Water and Wastewater

Total Project Cost: \$40,000

Project Description: Replace water and sewer infrastructure below the street surface while it is torn up. This project includes the section of Simons Street between E. Harris Street and E. Bremer Street.

Project Justification and/or Need: This street will be reconstructed this year, and it is prudent to replace underlying utility infrastructure while a street is torn up.

Project Impact/Benefit: Enhance water quality and improve the delivery of utility services.



Operating Fund Impact: Reduce minor maintenance costs by \$500 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$40,000
Total	\$40,000

Program Fiscal Year: **2016-2017**
 Project Title: **SELMA STREET**

First Year in CIP: 2003
Project Category: Infrastructure Reconstruction
Department: Water and Wastewater

Total Project Cost: \$90,000

Project Description: Replace water and sewer infrastructure below the street surface while it is torn up. This project includes the section of Selma Street between W. Division Street and Wright Street.

Project Justification and/or Need: This street will be reconstructed this year, and it is prudent to replace underlying utility infrastructure while a street is torn up.

Project Impact/Benefit: Enhance water quality and improve the delivery of utility services.

Operating Fund Impact: Reduce minor maintenance costs by \$500 per year.



Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$90,000
Total	\$90,000

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2016-2017**

Project Title: **MARBLE STREET**

First Year in CIP: 2013
Project Category: Infrastructure Reconstruction
Department: Water and Wastewater

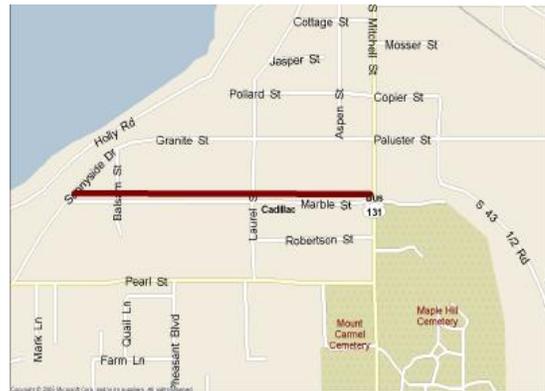
Total Project Cost: \$100,000

Project Description: Replace all 6” sewer infrastructure below the street surface with 8” sewer main while it is torn up.

Project Justification and/or Need: This street will be reconstructed this year, and it is prudent to replace underlying utility infrastructure while a street is torn up.

Project Impact/Benefit: Enhance water quality and improve the delivery of utility services.

Operating Fund Impact: Reduce minor maintenance costs by \$1,500 per year.



Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$100,000
Total	\$100,000

Program Fiscal Year: **2016-2017**

Project Title: **BLODGETT STREET**

First Year in CIP: 2004
Project Category: Infrastructure Reconstruction
Department: Water and Wastewater

Total Project Cost: \$25,000

Project Description: Replace water and sewer infrastructure below the street surface while it is torn up. This project includes the section of Blodgett Street between Lincoln Street and E. Division Street.

Project Justification and/or Need: This street will be reconstructed this year, and it is prudent to replace underlying utility infrastructure while a street is torn up.

Project Impact/Benefit: Enhance water quality and improve the delivery of utility services.

Operating Fund Impact: Reduce minor maintenance costs by \$500 per year.



Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$25,000
Total	\$25,000

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2016-2017**

Project Title: **STAFF CAR**

First Year in CIP: 2010
Project Category: Equipment Replacement
Department: Water and Wastewater

Total Project Cost: \$18,000

Project Description: Replace 2007 Ford Taurus that will be nearly ten years old.

Project Justification and/or Need: Current staff vehicle is used primarily by director but also is used to transport various staff to locations around the state for training and licensing classes and tests.

Project Impact/Benefit: Replacement will maintain a safe fleet of vehicles to protect employee safety and reduce maintenance costs.



Operating Fund Impact: Newer vehicle will reduce minor maintenance costs by \$500.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$18,000
Total	\$18,000

Program Fiscal Year: **2017-2018**
 Project Title: **SERVICE TRUCK**

First Year in CIP: 2012
Project Category: Equipment Replacement
Department: Water and Wastewater

Total Project Cost: \$27,000

Project Description: The service truck most in need of replacement will be sold and replaced.

Project Justification and/or Need: Vehicle will be approximately 15 years old and in need of replacement.

Project Impact/Benefit: Maintenance costs will be reduced as aged vehicles are upgraded.

Operating Fund Impact: Reduce maintenance costs \$2,000 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$27,000
Total	\$27,000



CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2016-2017**

Project Title: **MANHOLE REHABILITATION**

First Year in CIP: 2011
Project Category: Infrastructure Reconstruction
Department: Water and Wastewater

Total Project Cost: \$25,000

Project Description: Rehabilitate existing sanitary manholes with an epoxy spray liner to extend life. This will be an ongoing project where manholes in most urgent need of repair and rehabilitation will be identified and addressed as funding allows. It is estimated that each manhole will cost between \$2,500 and \$5,000 to rehabilitate.



Project Justification and/or Need: Rehabilitation of existing structures will ensure the structural integrity of aging manholes thereby preventing collapse and enhancing access and worker safety.

Project Impact/Benefit: Project will help reduce the number of sewer back-up claims and ensure compliance with all DEQ regulations.

Operating Fund Impact: Reduce minor maintenance costs by \$500 per year and reduce overtime calls and sewer claims.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$25,000
Total	\$25,000

Program Fiscal Year: **2016-2017**

Project Title: **EMPLOYEE BREAK ROOM AND LOCKER FACILITY**

First Year in CIP: 2011
Project Category: Building and Grounds
Department: Water and Wastewater

Total Project Cost: \$40,000

Project Description: Project would add changing facilities on the grounds of the waste water treatment plant and provide enhanced break room facilities for departmental employees.

Project Justification and/or Need: Current facilities at the plant are small and deficient. Project would improve working conditions for waste water and laboratory employees.

Project Impact/Benefit: Providing employees with on-site changing facilities would enable them to leave uniforms at work, reducing the potential for carrying home any contaminated materials that may have gotten on the uniforms throughout the course of the day.

Operating Fund Impact: Increase minor maintenance and operating costs by \$1,000 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$40,000
Total	\$40,000

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2016-2017**

Project Title: **WATER WELL MAINTENANCE**

First Year in CIP: 2011
Project Category: Equipment Maintenance
Department: Water and Wastewater

Total Project Cost: \$25,000

Project Description: New well system will have been online for five (5) years. This project would be beginning of rotation of annual well inspections so that each well is inspected every 5-6 years. Inspection would cost an estimated \$10,000 with the remainder of project costs resulting from potential repairs or parts replacement.

Project Justification and/or Need: A 6-year inspection cycle insures that each well is regularly inspected for potential problems. This preventative maintenance schedule will improve the life cycle of the well system and insure that the wells are able to continually provide water to the system.



Project Impact/Benefit: Costly repairs can result from a failure to regularly engage in preventative maintenance activities with infrastructure assets like the City's well system.

Operating Fund Impact: Reduce minor maintenance costs by \$1,000 per year due and reduce chances for catastrophic failures or major repair costs.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$25,000
Total	\$25,000

Program Fiscal Year: **2016-2017**

Project Title: **ULTRAVIOLET DISINFECTION EQUIPMENT**

First Year in CIP: 2013
Project Category: Equipment Replacement
Department: Water and Wastewater

Total Project Cost: \$35,500

Project Description: Replacement of ultraviolet (UV) lamps.

Project Justification and/or Need: Replace UV consumables to ensure equipment is operating at maximum efficiency.

Project Impact/Benefit: Equipment will operate at high efficiency and will help keep the plant in compliance with discharge permits.

Operating Fund Impact: Reduce minor maintenance costs by \$500 per year due to higher-efficiency operations with newer equipment.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$35,500
Total	<u>\$35,500</u>

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2016-2017**

Project Title: **ATOMIC ABSORPTION SPECTROSCOPY MACHINE**

First Year in CIP: 2011
Project Category: Equipment Replacement
Department: Water and Wastewater

Total Project Cost: \$70,000

Project Description: Replacement of atomic absorption spectroscopy (AAS) machine.

Project Justification and/or Need: Current AAS machine will be over fifteen (15) years old at the time of replacement. Both the water and waste water departments utilize this machine on a daily basis for monitoring influent and effluent for NPDES permitting, industrial pretreatment program, lead and copper analyses, etc.



Project Impact/Benefit: Monitoring the lead and copper levels in drinking water provided to users is very important for public health. Monitoring metals flowing into and out of the waste water treatment plant helps make sure that these metals are being properly removed during the treatment process prior to discharging the treated water. This helps protect the environment and aquatic life that is impacted by the plant's discharge.

Operating Fund Impact: Reduce minor maintenance costs by \$1,000 per year due to repair costs. The annual maintenance contract that currently costs approximately \$8,000 per year may go down as well.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$70,000
Total	\$70,000

Program Fiscal Year: **2016-2017**

Project Title: **INFRASTRUCTURE REPAIRS (SAW GRANT)**

First Year in CIP: 2016
Project Category: Infrastructure Reconstruction
Department: Water and Wastewater

Total Project Cost: \$25,000

Project Description: Repair significant sewer infrastructure failures that were identified while televising sewer lines in conjunction with Stormwater, Asset Management, and Wastewater (SAW) grant activities.

Project Justification and/or Need: Infrastructure failures could cause major system issues and need to be repaired.

Project Impact/Benefit: Repairs will improve system stability and reliability, mitigate risk of failures and flow issues, as well as reduce ongoing maintenance costs.

Operating Fund Impact: Reduce minor maintenance costs by \$1,000 per year due to elimination of other repair costs.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$25,000
Total	\$25,000

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2016-2017**

Project Title: **AQUA DISK REPAIRS**

First Year in CIP: 2016
Project Category: Equipment Repair/Replacement
Department: Water and Wastewater

Total Project Cost: \$30,000

Project Description: Replace old Aqua Disk Cloth.

Project Justification and/or Need: Aqua Disk cloths have a finite useful life and need to be replaced based on schedule.

Project Impact/Benefit: New cloth will provide better filtration and yield cleaner effluent.

Operating Fund Impact: Reduce minor maintenance costs by \$500 per year due to repair costs.



Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$30,000
Total	\$30,000

Program Fiscal Year: **2016-2017 (Multi-Year Project)**

Project Title: **WATER SUPPLY IMPROVEMENTS PHASE II**

First Year in CIP: 2006
Project Category: Infrastructure Reconstruction
Department: Water and Wastewater

Total Project Cost: \$3,500,000

Project Description: The wells used to supply water to City utility customers will be replaced. Pump controls and chlorination system will be replaced. New chemical feed buildings will be needed.



<u>Project Details:</u>	<u>Phase II</u>
Property Purchase	\$100,000
Planning & Engineering	400,000
Construction	2,000,000
Old Well Field Abandonment	700,000
Contingency	250,000
Legal & Professional	50,000
Total	\$3,500,000

Phase I of the project has been completed, with three new wells now online in the system. As planned, the City received assistance through the State of Michigan’s Drinking Water Revolving Fund for the Phase I costs. This provided low-interest loan financing with a loan rate of 2.5%. It is expected that this same financing will be applied for to help finance Phase II. Initial planning and engineering for Phase II has begun.

Project Justification and/or Need: Current wells are 50 years old. New sources of water will provide system reliability, and new equipment will ensure stability and reliability in water delivery. Phase I of the project was for funded through the DWRP program. Phase I reflects the costs of installing a system of three production wells on the new site located on Crosby Road. Additional sites are being pursued and analyzed for completion of Phase II of the system.

Project Impact/Benefit: Project will enhance long-term stability and reliability of water quality and the water delivery system.

Operating Fund Impact: Annual maintenance costs may increase by several thousand dollars per year depending on the option that the City moves forward with. However, lower repair costs should offset the increase.

Multi-Year Project Details:

	<u>2016</u>	<u>2017</u>	<u>Total</u>
Project Costs (See Detail Above)	\$500,000	\$3,000,000	\$3,500,000
Funding Sources			
Low Interest Loan (DWRP/USDA)	\$500,000	\$3,000,000	\$3,500,000

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2017-2018**

Project Title: **CRIPPEN STREET**

First Year in CIP: 2003
Project Category: Infrastructure Reconstruction
Department: Water and Wastewater

Total Project Cost: \$60,000

Project Description: Replace water and sewer infrastructure below the street surface while it is torn up. This project includes the section of Crippen Street between Mitchell Street and Park Street.

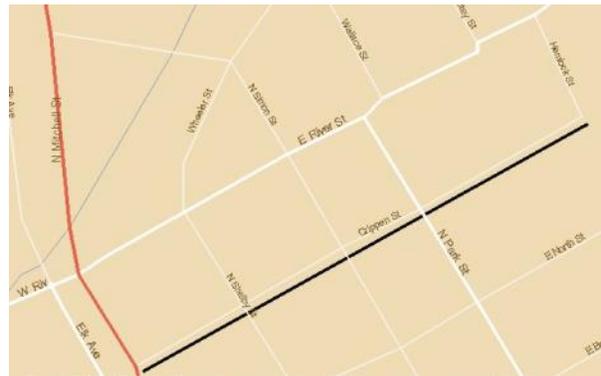
Project Justification and/or Need: This street will be reconstructed this year, and it is prudent to replace underlying utility infrastructure while a street is torn up.

Project Impact/Benefit: Enhance water quality and improve the delivery of utility services.

Operating Fund Impact: Reduce minor maintenance costs by \$500 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$60,000
Total	<u>\$60,000</u>



Program Fiscal Year: **2017-2018**

Project Title: **SOUTH STREET**

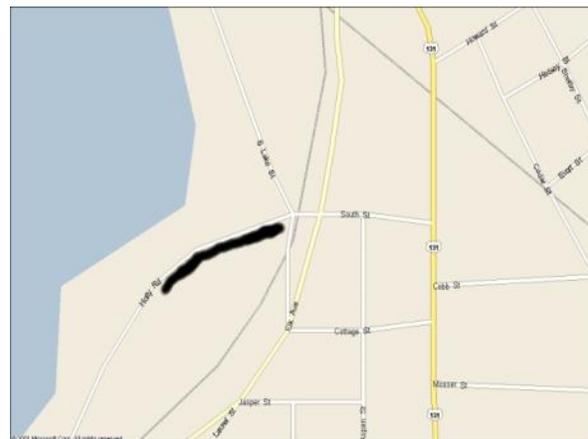
First Year in CIP: 2005
Project Category: Infrastructure Reconstruction
Department: Water and Wastewater

Total Project Cost: \$40,000

Project Description: Replace water and sewer infrastructure below the street surface while it is torn up. This project includes the section of South Street between Lake Street and the Four Winns Test Center.

Project Justification and/or Need: This street will be reconstructed this year, and it is prudent to replace underlying utility infrastructure while a street is torn up.

Project Impact/Benefit: Enhance water quality and improve the delivery of utility services.



Operating Fund Impact: Reduce minor maintenance costs by \$500 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$40,000
Total	\$40,000

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2017-2018**

Project Title: **SMITH STREET**

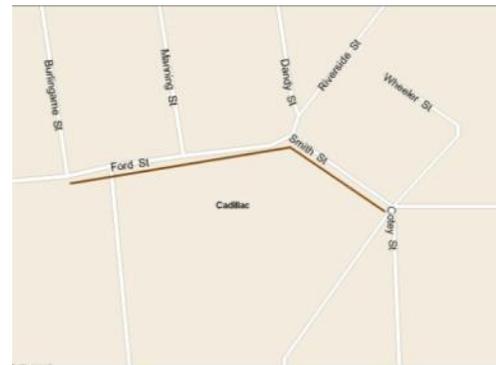
First Year in CIP: 2013
Project Category: Infrastructure Reconstruction
Department: Water and Wastewater

Total Project Cost: \$30,000

Project Description: Replace 4” water main on one block with 6” water main below the street surface while it is torn up. This project includes the section of Smith Street from Wheeler Street to Burlingame Street.

Project Justification and/or Need: This street will be reconstructed this year, and it is prudent to replace underlying utility infrastructure while a street is torn up.

Project Impact/Benefit: Enhance water quality and improve the delivery of utility services.



Operating Fund Impact: Reduce minor maintenance costs by \$500 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$30,000
Total	\$30,000

Program Fiscal Year: **2017-2018**

Project Title: **ALDRICH STREET**

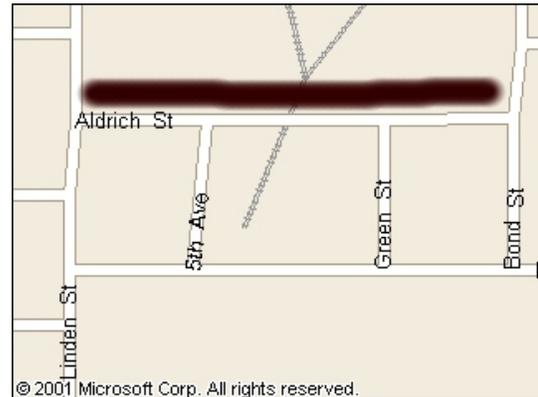
First Year in CIP: 2006
Project Category: Infrastructure Reconstruction
Department: Water and Wastewater

Total Project Cost: \$40,000

Project Description: Replace water and sewer infrastructure below the street surface while it is torn up. This project includes the section of Aldrich Street between Bond Street and Linden Street.

Project Justification and/or Need: This street will be reconstructed this year, and it is prudent to replace underlying utility infrastructure while a street is torn up.

Project Impact/Benefit: Enhance water quality and improve the delivery of utility services.



Operating Fund Impact: Reduce minor maintenance costs by \$500 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$40,000
Total	\$40,000

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2017-2018**

Project Title: **WEST BREMER STREET**

First Year in CIP: 2005
Project Category: Infrastructure Reconstruction
Department: Water and Wastewater

Total Project Cost: \$85,000

Project Description: Replace water and sewer infrastructure below the street surface while it is torn up. This project includes the section of W. Bremer Street located between Lake Street and Mitchell Street.

Project Justification and/or Need: This street will be reconstructed this year, and it is prudent to replace underlying utility infrastructure while a street is torn up.

Project Impact/Benefit: Enhance water quality and improve the delivery of utility services.



Operating Fund Impact: Reduce minor maintenance costs by \$500 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$85,000
Total	\$85,000

Program Fiscal Year: **2017-2018**

Project Title: **MUFFLE FURNACE/DRYING OVEN REPLACEMENT**

First Year in CIP: 2011
Project Category: Equipment Replacement
Department: Water and Wastewater

Total Project Cost: \$8,000

Project Description: Replacement of waste water laboratory muffle furnace and drying oven.

Project Justification and/or Need: Both the muffle furnace and drying oven are more than fifteen (15) years old. Both are essential to the suspended solids/volatile suspended solids testing that must be done daily as part of the NPDES permit requirements from the State of Michigan. Equipment is also used for drying samples for process control, industrial permits, and standardizing reagents.

Project Impact/Benefit: Effluent is regularly monitored to insure that too many suspended solids/volatile suspended solids are not being discharged into the Clam River. This would have a significant negative impact on the river. Upgrading this equipment that is critical to this monitoring will improve and maintain the ability to perform this monitoring.

Operating Fund Impact: Reduce minor maintenance costs by \$500 per year due to higher-efficiency operations with newer equipment.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$8,000
Total	\$8,000

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2017-2018**

Project Title: **FEW PUMP REPLACEMENT**

First Year in CIP: 2011
Project Category: Equipment Replacement
Department: Water and Wastewater

Total Project Cost: \$20,000

Project Description: Replacement of few pump.

Project Justification and/or Need:

Project Impact/Benefit:

Operating Fund Impact: Reduce minor maintenance costs by \$500 per year due to higher-efficiency operations with newer equipment.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$20,000
Total	<u>\$20,000</u>

Program Fiscal Year: **2017-2018**
 Project Title: **SEWER JETTER**

First Year in CIP: 2008
Project Category: Equipment Replacement
Department: Water and Wastewater

Total Project Cost: \$100,000

Project Description: Existing sewer jetter will be replaced.

Project Justification and/or Need: This equipment is needed for unplugging sewer mains. It is needed for smaller sewers and for employees that do not possess a CDL.

Project Impact/Benefit: Project will improve departmental productivity and efficiency.

Operating Fund Impact: Reduce maintenance costs by \$300 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$100,000
Total	\$100,000



CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2017-2018**

Project Title: **DUMP TRUCK**

First Year in CIP: 2010
Project Category: Equipment Acquisition
Department: Water and Wastewater

Total Project Cost: \$75,000

Project Description: Purchase new 10-yard dump truck to be used in the Utilities system.

Project Justification and/or Need: Truck will be used frequently to assist with water and sewer repairs and construction. This type of truck is basic equipment for most utilities.

Project Impact/Benefit: Enhance efficiency and productivity in removing debris from excavations in safe and efficient manner.



Operating Fund Impact: Eliminate cost of renting/leasing dump trucks during maintenance activities. Cost savings will be offset by minor maintenance costs.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$75,000
Total	\$75,000

Program Fiscal Year: **2017-2018**
Project Title: **CIRCULAR PUMP**

First Year in CIP: 2013
Project Category: Equipment Replacement
Department: Water and Wastewater

Total Project Cost: \$15,000

Project Description: Replace existing older equipment.

Project Justification and/or Need: Upgrade and modernize equipment to insure efficient plant operations.

Project Impact/Benefit: Project will help insure good digestion of sludge to yield Class A bio-solids for land application.

Operating Fund Impact: Reduce maintenance costs \$500 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$15,000
Total	<u>\$15,000</u>

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2017-2018**

Project Title: **RETURN ACTIVATED SLUDGE (RAS) PUMP**

First Year in CIP: 2013
Project Category: Equipment Replacement
Department: Water and Wastewater

Total Project Cost: \$11,000

Project Description: Replace existing older equipment.

Project Justification and/or Need: Upgrade and modernize equipment to insure efficient treatment plant operations.

Project Impact/Benefit: Project will improve efficiency and operation of activated sludge process.

Operating Fund Impact: Reduce maintenance costs \$500 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$11,000
Total	<u>\$11,000</u>

Program Fiscal Year: **2017-2018**

Project Title: **WATER WELL MAINTENANCE**

First Year in CIP: 2013
Project Category: Equipment Replacement
Department: Water and Wastewater

Total Project Cost: \$25,000

Project Description: Crosby Road well system will have been online for five (5) years. This project would be beginning of rotation of annual well inspections so that each well is inspected every 5-6 years. Inspection would cost an estimated \$10,000 with the remainder of project costs resulting from potential repairs or parts replacement.



Project Justification and/or Need: A 6-year inspection cycle insures that each well is regularly inspected for potential problems. This preventative maintenance schedule will improve the life cycle of the well system and insure that the wells are able to continually provide water to the system.

Project Impact/Benefit: Costly repairs can result from a failure to regularly engage in preventative maintenance activities with infrastructure assets like the City’s well system.

Operating Fund Impact: Reduce minor maintenance costs by \$1,000 per year due and reduce chances for catastrophic failures or major repair costs.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$25,000
Total	\$25,000

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2017-2018**

Project Title: **TWO (2) ENVIRONMENTAL LAB FUME HOODS**

First Year in CIP: 2013
Project Category: Equipment Replacement
Department: Water and Wastewater

Total Project Cost: \$20,000

Project Description: Replace three wastewater fume hood components (fans, piping, etc.)

Project Justification and/or Need: Current fume hoods do not meet the recommended face velocity (90-110 fps) standards. This has been investigated and is caused by failing fans and incorrect ventilation piping.

Project Impact/Benefit: Issues identified above would be eliminated. Fume hoods are used for acid digestions, pouring up acids/caustics, and drying/burning wastewater samples. All of these can have negative impacts on respiratory systems, eyes, etc. Proper air flow helps address these concerns.

Operating Fund Impact: Proper safety equipment will help ensure employee safety, thereby limiting costs of lost time injuries and their impact on insurance rates.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$20,000
Total	\$20,000

Program Fiscal Year: **2017-2018**

Project Title: **MANHOLE REHABILITATION**

First Year in CIP: 2013
Project Category: Infrastructure Reconstruction
Department: Water and Wastewater

Total Project Cost: \$25,000

Project Description: Rehabilitate existing sanitary manholes with an epoxy spray liner to extend life. This will be an ongoing project where manholes in most urgent need of repair and rehabilitation will be identified and addressed as funding allows. It is estimated that each manhole will cost between \$2,500 and \$5,000 to rehabilitate.



Project Justification and/or Need: Rehabilitation of existing structures will ensure the structural integrity of aging manholes thereby preventing collapse and enhancing access and worker safety.

Project Impact/Benefit: Project will help reduce the number of sewer back-up claims and ensure compliance with all DEQ regulations.

Operating Fund Impact: Reduce minor maintenance costs by \$500 per year and reduce overtime calls and sewer claims.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$25,000
Total	\$25,000

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2017-2018**

Project Title: **CUTTER STACK FOR MUFFIN MONSTER**

First Year in CIP: 2014
Project Category: Equipment Replacement
Department: Water and Wastewater

Total Project Cost: \$25,000

Project Description: Replace cutter stacks in current muffin monster in the Digester.

Project Justification and/or Need: New Cutters will prevent rags from getting into the Digester and clogging pumps.

Project Impact/Benefit: Safety of employees will be enhanced with updated equipment. Health and welfare of the workers and community is an important component of waste water treatment operations.

Operating Fund Impact: Reduced pump maintenance costs of up to \$500 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$25,000
Total	\$25,000

Program Fiscal Year: **2019-2020**

Project Title: **EQ BASIN BLOCK REPLACEMENT/REPAIR**

First Year in CIP: 2015
Project Category: Infrastructure Reconstruction
Department: Water and Wastewater

Total Project Cost: \$25,000

Project Description: Replace basin blocks.

Project Justification and/or Need: The portion of the EQ basin that is above the ground is in terrible shape. The structure is no longer sound due to years of service. The cinder blocks need to be replaced and the roof needs to be caped.

Project Impact/Benefit: Protect system and treatment process integrity and stability.

Operating Fund Impact: Reduce minor maintenance costs by \$1,000 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$25,000
Total	<u>\$25,000</u>

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2017-2018**

Project Title: **INFRASTRUCTURE REPAIRS (SAW GRANT)**

First Year in CIP: 2016
Project Category: Infrastructure Reconstruction
Department: Water and Wastewater

Total Project Cost: \$25,000

Project Description: Repair significant sewer infrastructure failures that were identified while televising sewer lines in conjunction with Stormwater, Asset Management, and Wastewater (SAW) grant activities.

Project Justification and/or Need: Infrastructure failures could cause major system issues and need to be repaired.

Project Impact/Benefit: Repairs will improve system stability and reliability, mitigate risk of failures and flow issues, as well as reduce ongoing maintenance costs.

Operating Fund Impact: Reduce minor maintenance costs by \$1,000 per year due to elimination of other repair costs.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$25,000
Total	\$25,000

Program Fiscal Year: **2018-2019**

Project Title: **COBB AND CARMEL STREETS**

First Year in CIP: 2014
Project Category: Infrastructure Reconstruction
Department: Water and Wastewater

Total Project Cost: \$50,000

Project Description: Replace 1,000 feet of 8” water main while the street is reconstructed.

Project Justification and/or Need: This street will be reconstructed this year, and it is prudent to replace underlying utility infrastructure while a street is torn up.

Project Impact/Benefit: Enhance water quality and improve the delivery of utility services.

Operating Fund Impact: Reduce minor maintenance costs by \$500 per year.



Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$50,000
Total	\$50,000

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2018-2019**

Project Title: **EAST BREMER STREET**

First Year in CIP: 2003
Project Category: Infrastructure Reconstruction
Department: Water and Wastewater

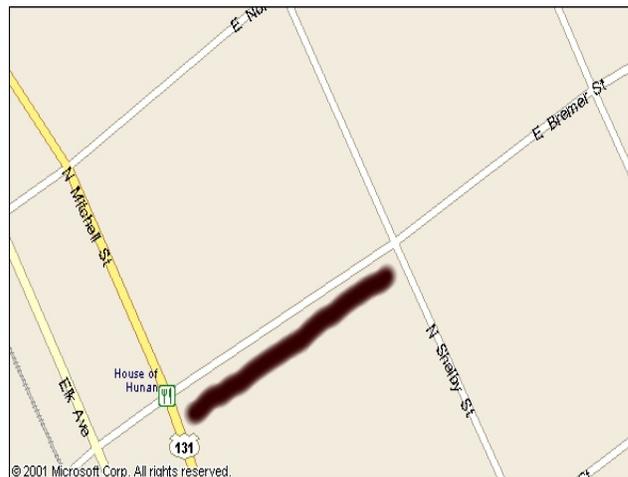
Total Project Cost: \$85,000

Project Description: Replace water and sewer infrastructure below the street surface while it is torn up. This project includes the section of E. Bremer Street between Mitchell Street and Shelby Street.

Project Justification and/or Need: This street will be reconstructed this year, and it is prudent to replace underlying utility infrastructure while a street is torn up.

Project Impact/Benefit: Enhance water quality and improve the delivery of utility services.

Operating Fund Impact: Reduce minor maintenance costs by \$500 per year.



Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$85,000
Total	\$85,000

Program Fiscal Year: **2018-2019**

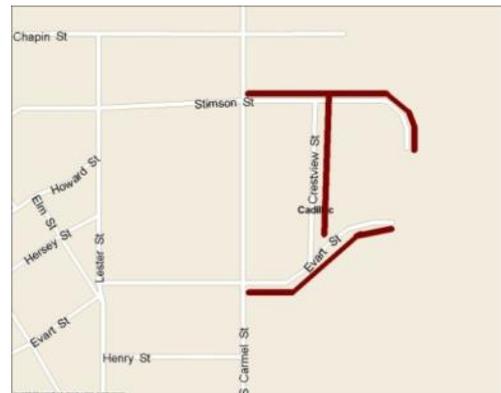
Project Title: **CRESTVIEW, CARMEL AND EVART STREETS**

First Year in CIP: 2013
Project Category: Infrastructure Reconstruction
Department: Water and Wastewater

Total Project Cost: \$90,000

Project Description: Replace 4” water main with 6” water main underneath the Evert and Stimson portion of this project while the street is reconstructed. Overall, this project includes Crestview Street from Evert Street to Stimson Street, Evert Street from Carmel Street to the east end of the street, and Stimson Street from Carmel Street to the east end of the street.

Project Justification and/or Need: This street will be reconstructed this year, and it is prudent to replace underlying utility infrastructure while a street is torn up.



Project Impact/Benefit: Enhance water quality and improve the delivery of utility services.

Operating Fund Impact: Reduce minor maintenance costs by \$500 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$90,000
Total	\$90,000

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2018-2019**

Project Title: **WATER WELL MAINTENANCE**

First Year in CIP: 2014
Project Category: Equipment Replacement
Department: Water and Wastewater

Total Project Cost: \$25,000

Project Description: Crosby Road well system will have been online for five (5) years. This project would be beginning of rotation of annual well inspections so that each well is inspected every 5-6 years. Inspection would cost an estimated \$10,000 with the remainder of project costs resulting from potential repairs or parts replacement.

Project Justification and/or Need: A 6-year inspection cycle insures that each well is regularly inspected for potential problems. This preventative maintenance schedule will improve the life cycle of the well system and insure that the wells are able to continually provide water to the system.



Project Impact/Benefit: Costly repairs can result from a failure to regularly engage in preventative maintenance activities with infrastructure assets like the City's well system.

Operating Fund Impact: Reduce minor maintenance costs by \$1,000 per year due and reduce chances for catastrophic failures or major repair costs.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$25,000
Total	\$25,000

Program Fiscal Year: **2018-2019**

Project Title: **¾-TON, 4X4 SERVICE TRUCK**

First Year in CIP: 2014
Project Category: Equipment Replacement
Department: Water and Wastewater

Total Project Cost: \$28,000

Project Description: Scheduled replacement of existing 4-wheel drive service truck.

Project Justification and/or Need: Vehicle will be more than 15 years old and in need of replacement.

Project Impact/Benefit: Maintenance costs will be reduced as aged vehicles are upgraded.

Operating Fund Impact: Reduce maintenance costs \$1,000 per year.

Funding Source(s) for this Project:



<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$28,000
Total	\$28,000

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2018-2019**

Project Title: **MOBILE DIESEL AIR COMPRESSOR**

First Year in CIP: 2014
Project Category: Equipment Replacement
Department: Water and Wastewater

Total Project Cost: \$20,000

Project Description: Replace existing 1990 Ingersol Rand Air Compressor.

Project Justification and/or Need: Used for routine/emergency service calls, pavement breaking. Current model will be nearly 30 years old and will be in need of replacement.



Project Impact/Benefit: Maintain the high degree of customer satisfaction for service calls and repairs our customers are accustomed to.

Operating Fund Impact: Reduced Maintenance/Repair costs, more fuel efficient.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$20,000
Total	\$20,000

Program Fiscal Year: **2018-2019**

Project Title: **MANHOLE REHABILITATION**

First Year in CIP: 2014
Project Category: Equipment Replacement
Department: Water and Wastewater

Total Project Cost: \$25,000

Project Description: Rehabilitate existing sanitary manholes with an epoxy spray liner to extend life. This will be an ongoing project where manholes in most urgent need of repair and rehabilitation will be identified and addressed as funding allows. It is estimated that each manhole will cost between \$2,500 and \$5,000 to rehabilitate.



Project Justification and/or Need: Rehabilitation of existing structures will ensure the structural integrity of aging manholes thereby preventing collapse and enhancing access and worker safety.

Project Impact/Benefit: Project will help reduce the number of sewer back-up claims and ensure compliance with all DEQ regulations.

Operating Fund Impact: Reduce minor maintenance costs by \$500 per year and reduce overtime calls and sewer claims.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$25,000
Total	\$25,000

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2018-2019**

Project Title: **LAB FRIDGES AND FREEZERS**

First Year in CIP: 2014
Project Category: Equipment Replacement
Department: Water and Wastewater

Total Project Cost: \$10,000

Project Description: Replace wastewater and drinking water lab refrigerators and freezers.

Project Justification and/or Need: The labs need to store samples, reagents and standards at temperatures that must be maintained below six degrees centigrade in order to be compliant with regulations.

Project Impact/Benefit: Properly stored samples, reagents and standards ensure the most accurate results with the least amount of change to the original sample.

Operating Fund Impact: Newer appliances will be more energy efficient and use less energy and require less repairs.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$10,000
Total	\$10,000

Program Fiscal Year: **2018-2019**
Project Title: **FERRIC PUMPS**

First Year in CIP: 2014
Project Category: Equipment Replacement
Department: Water and Wastewater

Total Project Cost: \$10,000

Project Description: Replace Ferric pumps at the waste water plant.

Project Justification and/or Need: Replace worn out ferric pumps.

Project Impact/Benefit: Safety of employees will be enhanced with updating equipment used to pump hazardous materials while also making sure the process of the plant is maintained.

Operating Fund Impact: Reduce maintenance costs of up to \$500 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$10,000
Total	<u>\$10,000</u>

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2018-2019**

Project Title: **CONCRETE/ASPHALT WORK AT WWTP**

First Year in CIP: 2014
Project Category: Infrastructure
Department: Water and Wastewater

Total Project Cost: \$105,000

Project Description: Replace asphalt and concrete at the waste water plant.

Project Justification and/or Need: Parts of the road and concrete work at the waste water plant are starting to show signs of failing.

Project Impact/Benefit: Safety of employees will be enhanced and resurfacing the roads and parking lot areas will protect against damage to equipment.



Operating Fund Impact: Reduce maintenance costs up to \$1,000 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$105,000
Total	\$105,000

Program Fiscal Year: **2018-2019**

Project Title: **TWO (2) SERVICE TRUCKS**

First Year in CIP: 2014
Project Category: Equipment Replacement
Department: Water and Wastewater

Total Project Cost: \$55,000

Project Description: Replace service vehicles.

Project Justification and/or Need: Regular updating of service vehicle fleet enhances efficiency and response to service demand.

Project Impact/Benefit: Enhance productivity and efficiency and eliminate down time and costly repairs associated with older vehicles.

Operating Fund Impact: Decrease maintenance costs up to \$1,000 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$55,000
Total	<u>\$55,000</u>

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2018-2019**

Project Title: **BAR SCREENS AT WWTP**

First Year in CIP: 2014
Project Category: Equipment Replacement
Department: Water and Wastewater

Total Project Cost: \$50,000

Project Description: Replace old bar screens on influent channel at the waste water plant.

Project Justification and/or Need: New bar screens will prevent rags from getting into the plant and clogging pumps.

Project Impact/Benefit: Updating equipment enhances safety of employees and protects ongoing operations at the treatment plant.

Operating Fund Impact: Reduce maintenance costs up to \$500 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$50,000
Total	\$50,000

Program Fiscal Year: **2018-2019**

Project Title: **BIOLOGICAL OXYGEN DEMAND INCUBATOR**

First Year in CIP: 2013
Project Category: Infrastructure Reconstruction
Department: Water and Wastewater

Total Project Cost: \$7,500

Project Description: Replacement of biological oxygen demand (BOD) incubator at waste water treatment plant.

Project Justification and/or Need: The current incubator was purchased in 1999 and will be nearly twenty (20) years old when it is replaced. BOD is monitored daily for the system’s NPDES permit and must be incubated at very specific temperatures to ensure reliable and accurate results.

Project Impact/Benefit: High BOD in effluent could have detrimental effects where discharged, which in Cadillac’s case is the Clam River. BOD needs to be accurately monitored to make sure that low BOD’s are being maintained in the plant’s effluent discharge.

Operating Fund Impact: Reduce minor maintenance costs by \$500 per year and reduce overtime call-ins and sewer claims.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$7,500
Total	<u>\$7,500</u>

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2019-2020**

Project Title: **COLFAX STREET**

First Year in CIP: 2013
Project Category: Infrastructure Reconstruction
Department: Water and Wastewater

Total Project Cost: \$60,000

Project Description: Replace water and sewer infrastructure below the street surface while it is torn up. This project includes the section of Colfax Street located between W. Division Street and Wright Street.

Project Justification and/or Need: This street will be reconstructed this year, and it is prudent to replace underlying utility infrastructure while a street is torn up.

Project Impact/Benefit: Enhance water quality and improve the delivery of utility services.



Operating Fund Impact: Reduce minor maintenance costs by \$500 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$60,000
Total	\$60,000

Program Fiscal Year: **2019-2020**

Project Title: **WATER WELL MAINTENANCE**

First Year in CIP: 2015
Project Category: Equipment Replacement
Department: Water and Wastewater

Total Project Cost: \$25,000

Project Description: Crosby Road well system will have been online for five (5) years. This project would be beginning of rotation of annual well inspections so that each well is inspected every 5-6 years. Inspection would cost an estimated \$10,000 with the remainder of project costs resulting from potential repairs or parts replacement.



Project Justification and/or Need: A 6-year inspection cycle insures that each well is regularly inspected for potential problems. This preventative maintenance schedule will improve the life cycle of the well system and insure that the wells are able to continually provide water to the system.

Project Impact/Benefit: Costly repairs can result from a failure to regularly engage in preventative maintenance activities with infrastructure assets like the City’s well system.

Operating Fund Impact: Reduce minor maintenance costs by \$1,000 per year due and reduce chances for catastrophic failures or major repair costs.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$25,000
Total	\$25,000

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2019-2020**

Project Title: **SOUTH SHORE LIFT STATION BUILDING**

First Year in CIP: 2015
Project Category: Infrastructure Reconstruction
Department: Water and Wastewater

Total Project Cost: \$8,000

Project Description: Fiberglass building is in need of replacement.

Project Justification and/or Need: Enhance system security and operation.

Project Impact/Benefit: Security and protection of critical system equipment.

Operating Fund Impact: Reduce minor maintenance costs minimally.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$8,000
Total	<u>\$8,000</u>

Program Fiscal Year: **2019-2020**

Project Title: **MANHOLE REHABILITATION**

First Year in CIP: 2015
Project Category: Equipment Replacement
Department: Water and Wastewater

Total Project Cost: \$25,000

Project Description: Rehabilitate existing sanitary manholes with an epoxy spray liner to extend life. This will be an ongoing project where manholes in most urgent need of repair and rehabilitation will be identified and addressed as funding allows. It is estimated that each manhole will cost between \$2,500 and \$5,000 to rehabilitate.



Project Justification and/or Need: Rehabilitation of existing structures will ensure the structural integrity of aging manholes thereby preventing collapse and enhancing access and worker safety.

Project Impact/Benefit: Project will help reduce the number of sewer back-up claims and ensure compliance with all DEQ regulations.

Operating Fund Impact: Reduce minor maintenance costs by \$500 per year and reduce overtime calls and sewer claims.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$25,000
Total	\$25,000

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2019-2020**

Project Title: **LABORATORY INCUBATORS**

First Year in CIP: 2015
Project Category: Equipment Replacement
Department: Water and Wastewater

Total Project Cost: \$8,000

Project Description: Replace two (2) laboratory incubators for certified drinking water laboratory.

Project Justification and/or Need: Two of the lab's incubators will be at least 20 years old at the time of replacement. Incubators need to have a very precise temperature range (35 +/- 0.5 degrees) in order to be acceptable for analysis of drinking water microbes. The older the incubator gets, the less precise the temperature.

Project Impact/Benefit: Accurate temperatures will help produce more accurate results for drinking water analysis of both public and private drinking water samples.

Operating Fund Impact: Reduce minor maintenance costs by \$500 annually.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$8,000
Total	\$8,000

Program Fiscal Year: **2019-2020**

Project Title: **TWO (2) SERVICE TRUCKS**

First Year in CIP: 2015
Project Category: Equipment Replacement
Department: Water and Wastewater

Total Project Cost: \$55,000

Project Description: Two service trucks will be in need of scheduled replacement at the end of their useful lives.

Project Justification and/or Need: Both vehicles will be approximately 15 years old and in need of replacement.

Project Impact/Benefit: Maintenance costs will be reduced as aged vehicles are upgraded.

Operating Fund Impact: Reduce maintenance costs \$2,000 per year.



Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$55,000
Total	\$55,000

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2019-2020**

Project Title: **BIO MAKEUP AIR/FURNACE**

First Year in CIP: 2015
Project Category: Infrastructure Reconstruction
Department: Water and Wastewater

Total Project Cost: \$25,000

Project Description: Replace make up air/furnace.

Project Justification and/or Need: The existing furnace is due for replacement.

Project Impact/Benefit: More dependable heating in the Bio building.

Operating Fund Impact: Reduce maintenance and energy consumption should save approximately \$500 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$25,000
Total	<u>\$25,000</u>

Program Fiscal Year: **2019-2020**

Project Title: **PRIMARY DRIVE REPLACEMENT/RENOVATION**

First Year in CIP: 2015
Project Category: Infrastructure Reconstruction
Department: Water and Wastewater

Total Project Cost: \$45,000

Project Description: The existing drive is due for an upgrade, and the tanks are due for renovation and new coating.

Project Justification and/or Need: The primary tanks are the major part of the treatment process.

Project Impact/Benefit: Continue optimal treatment process at the plant.

Operating Fund Impact: Reduce maintenance costs up to \$1,000 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$45,000
Total	<u>\$45,000</u>

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2019-2020**

Project Title: **SECONDARY DRIVE REPLACEMENT/RENOVATION**

First Year in CIP: 2015
Project Category: Infrastructure Reconstruction
Department: Water and Wastewater

Total Project Cost: \$60,000

Project Description: The existing drive is due for an upgrade, and the tanks are due for renovation and new coating.

Project Justification and/or Need: The secondary tanks are the major part of the treatment process.

Project Impact/Benefit: Continue optimal treatment process at the plant.

Operating Fund Impact: Reduce maintenance costs up to \$1,000 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$60,000
Total	<u>\$60,000</u>

Program Fiscal Year: **2019-2020**

Project Title: **RETURN ACTIVATED SLUDGE (RAS) 1&2 REPLACEMENT**

First Year in CIP: 2015
Project Category: Equipment Replacement
Department: Water and Wastewater

Total Project Cost: \$30,000

Project Description: The existing pump 1 and 2 are due for replacement.

Project Justification and/or Need: The pumps are a major component of the activated sludge process. Pumps 3 and 4 have been replaced, and pumps 1 and 2 will need replacement in near future

Project Impact/Benefit: Continue optimal treatment process at the plant.

Operating Fund Impact: Reduce maintenance costs up to \$1,000 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$30,000
Total	<u>\$30,000</u>

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2019-2020**

Project Title: **SUNSET/LAKESHORE MAIN REPLACEMENT**

First Year in CIP: 2014
Project Category: Infrastructure Reconstruction
Department: Water and Wastewater

Total Project Cost: \$20,000

Project Description: Replace 4" cast iron main between Sunset and Lakeshore.

Project Justification and/or Need: The cast iron pipe is at the end of its useful life and has been causing water quality issues and complaints.

Project Impact/Benefit: Reduce the costly repairs that are associated with potential breaks in this line, while also enhancing water quality and service delivery to water customers in the area.

Operating Fund Impact: Reduce maintenance costs up to \$500 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$20,000
Total	\$20,000

Program Fiscal Year: **2020-2021**
Project Title: **NELSON STREET**

First Year in CIP: 2016
Project Category: Infrastructure Reconstruction
Department: Water and Wastewater

Total Project Cost: \$30,000

Project Description: Replace water and sewer infrastructure below the street surface while it is torn up. This project includes the section of Nelson Street located between Park Street and Hemlock Street.

Project Justification and/or Need: This portion of the street will be reconstructed this year, and it is prudent to replace underlying utility infrastructure while a street is torn up.

Project Impact/Benefit: Enhance water quality and improve the delivery of utility services.

Operating Fund Impact: Reduce minor maintenance costs by \$500 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$30,000
Total	<u>\$30,000</u>

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2020-2021**

Project Title: **MASON STREET**

First Year in CIP: 2016
Project Category: Infrastructure Reconstruction
Department: Water and Wastewater

Total Project Cost: \$10,000

Project Description: Replace water and sewer infrastructure below the street surface while it is torn up. This project includes the section of Mason Street located from Mitchell Street to the parking lot.

Project Justification and/or Need: This portion of the street will be reconstructed this year, and it is prudent to replace underlying utility infrastructure while a street is torn up.

Project Impact/Benefit: Enhance water quality and improve the delivery of utility services.



Operating Fund Impact: Reduce minor maintenance costs by \$500 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$10,000
Total	<u>\$10,000</u>

Program Fiscal Year: **2020-2021**
 Project Title: **BURLINGAME STREET**

First Year in CIP: 2016
Project Category: Infrastructure Reconstruction
Department: Water and Wastewater

Total Project Cost: \$70,000

Project Description: Replace water and sewer infrastructure below the street surface while it is torn up. This project includes the section of Burlingame Street located between 13th Street and Ford Street.

Project Justification and/or Need: This portion of the street will be reconstructed this year, and it is prudent to replace underlying utility infrastructure while a street is torn up.

Project Impact/Benefit: Enhance water quality and improve the delivery of utility services.

Operating Fund Impact: Reduce minor maintenance costs by \$500 per year.



Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$70,000
Total	\$70,000

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2020-2021**

Project Title: **AUTOCLAVE REPLACEMENT**

First Year in CIP: 2016
Project Category: Equipment Replacement
Department: Water and Wastewater

Total Project Cost: \$8,000

Project Description: Replace the autoclave in the laboratory.

Project Justification and/or Need: Current unit is ten years old and has had many issues resulting in costly repairs, including shipment out of state since there are no qualified service technicians available locally.

Project Impact/Benefit: Glassware needs to be sterile for proper sample analysis per the City's NPDES permit. Positive bacteriological samples need to be disposed of properly for employee and public safety.

Operating Fund Impact: Reduce repair and maintenance costs, including shipping by approximately \$500 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$8,000
Total	\$8,000

Program Fiscal Year: **2020-2021**

Project Title: **MAJOR BUILDING EXTERIOR REPAIRS**

First Year in CIP: 2016
Project Category: Infrastructure Reconstruction
Department: Water and Wastewater

Total Project Cost: \$175,000

Project Description: Project will repair and refinish building exterior(s) to prevent further brick decay and damage.

Project Justification and/or Need: Exterior brick needs to be surfaced to save it from further degradation.

Project Impact/Benefit: Enhance employee safety, building integrity, and building appearance.

Operating Fund Impact: Reduce maintenance costs to repair damaged sections.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$175,000
Total	\$175,000

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2020-2021**

Project Title: **REVOLUTION BLOWER**

First Year in CIP: 2016
Project Category: Equipment Replacement
Department: Water and Wastewater

Total Project Cost: \$200,000

Project Description: Install an energy efficient Revolution Blower to replace aging centrifugal blower.

Project Justification and/or Need: Current blowers have a very high cost of operation. The revolution blower has an estimated 2-year payback on electrical costs due to the built-in variable flow drive (VFD) and single paddle design.

Project Impact/Benefit: Increase efficiency of air production with considerably less noise.

Operating Fund Impact: Reduced maintenance, reduced electrical costs.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$200,000
Total	<u>\$200,000</u>

Program Fiscal Year: **2020-2021**
Project Title: **ULTRAVIOLET BULBS**

First Year in CIP: 2016
Project Category: Equipment Replacement
Department: Water and Wastewater

Total Project Cost: \$40,000

Project Description: Replace quartz tubes and ultraviolet bulbs in the wastewater treatment plant's ultraviolet (UV) disinfection system.

Project Justification and/or Need: UV bulbs lose intensity over time and won't achieve recommended disinfection. The quartz tubes that encase the bulbs become stained and scratched and lose the transmittance needed for proper disinfection.

Project Impact/Benefit: Improved disinfection will help improve effluent quality.

Operating Fund Impact: Reduce maintenance costs by approximately \$1,000.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$40,000
Total	\$40,000

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2020-2021**

Project Title: **SPECTROPHOTOMETER**

First Year in CIP: 2016
Project Category: Equipment Replacement
Department: Water and Wastewater

Total Project Cost: \$7,500

Project Description: Replace UV/Vis spectrophotometer in laboratory.

Project Justification and/or Need: Current unit is 10-15 years old and will have maintenance issues as it ages.

Project Impact/Benefit: This equipment is used for phosphorous and nitrite analysis. Correct phosphorous analysis allows staff to know how much phosphorous is being released to the environment in conjunction with the city's discharge permit. Proper nitrite analysis allows homeowners to be confident that the water delivered to their home is safe for consumption.

Operating Fund Impact: Reduce maintenance costs by approximately \$500 per year. Proper analysis helps avoid fines related to discharge permit violations. Machine downtime could also result in the loss of contract laboratory revenue.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$7,500
Total	<u>\$7,500</u>

Program Fiscal Year: **2020-2021**

Project Title: **WATER WELL MAINTENANCE**

First Year in CIP: 2016
Project Category: Infrastructure Repair
Department: Water and Wastewater

Total Project Cost: \$25,000

Project Description: Crosby Road well system will have been online for five (5) years. This project would be beginning of rotation of annual well inspections so that each well is inspected every 5-6 years. Inspection would cost an estimated \$10,000 with the remainder of project costs resulting from potential repairs or parts replacement.



Project Justification and/or Need: A 6-year inspection cycle insures that each well is regularly inspected for potential problems. This preventative maintenance schedule will improve the life cycle of the well system and insure that the wells are able to continually provide water to the system.

Project Impact/Benefit: Costly repairs can result from a failure to regularly engage in preventative maintenance activities with infrastructure assets like the City’s well system.

Operating Fund Impact: Reduce minor maintenance costs by \$1,000 per year due and reduce chances for catastrophic failures or major repair costs.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$25,000
Total	\$25,000

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2016-2017**

Project Title: **AQUA DISK REPAIRS**

First Year in CIP: 2016
Project Category: Equipment Repair/Replacement
Department: Water and Wastewater

Total Project Cost: \$30,000

Project Description: Replace old Aqua Disk Cloth.

Project Justification and/or Need: Aqua Disk cloths have a finite useful life and need to be replaced based on schedule.

Project Impact/Benefit: New cloth will provide better filtration and yield cleaner effluent.

Operating Fund Impact: Reduce minor maintenance costs by \$500 per year due to repair costs.



Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$30,000
Total	<u>\$30,000</u>

Program Fiscal Year: **2020-2021**
Project Title: **STORAGE BARN**

First Year in CIP: 2016
Project Category: Building Construction
Department: Water and Wastewater

Total Project Cost: \$35,000

Project Description: Construct new storage building to replace old shed that is undersized and aging.

Project Justification and/or Need: New storage building will provide covered storage for equipment and supplies.

Project Impact/Benefit: Additional storage will aid in prolonging the life of equipment and supplies.

Operating Fund Impact: Reduced equipment maintenance and scrapping damaged supplies could provide an estimated \$500 to \$1,000 in cost savings per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$35,000
Total	<u>\$35,000</u>

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2020-2021**

Project Title: **ROTARY SCREW COMPRESSOR**

First Year in CIP: 2016
Project Category: Equipment Replacement
Department: Water and Wastewater

Total Project Cost: \$12,500

Project Description: Replace existing single stage compressors with new rotary screw compressor.

Project Justification and/or Need: Compressed air is required in the wastewater treatment process. Rotary screw compressors are more efficient to operate.

Project Impact/Benefit: Replacement will enhance safety, reduce plant noise levels, and enhance operational efficiency.

Operating Fund Impact: Reduced maintenance and electrical usage could provide an estimated annual cost savings of \$500.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$12,500
Total	\$12,500

Program Fiscal Year: **2020-2021**

Project Title: **MANHOLE REHABILITATION**

First Year in CIP: 2016
Project Category: Equipment Replacement
Department: Water and Wastewater

Total Project Cost: \$25,000

Project Description: Rehabilitate existing sanitary manholes with an epoxy spray liner to extend life. This will be an ongoing project where manholes in most urgent need of repair and rehabilitation will be identified and addressed as funding allows. It is estimated that each manhole will cost between \$2,500 and \$5,000 to rehabilitate.



Project Justification and/or Need: Rehabilitation of existing structures will ensure the structural integrity of aging manholes thereby preventing collapse and enhancing access and worker safety.

Project Impact/Benefit: Project will help reduce the number of sewer back-up claims and ensure compliance with all DEQ regulations.

Operating Fund Impact: Reduce minor maintenance costs by \$500 per year and reduce overtime calls and sewer claims.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$25,000
Total	\$25,000

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2020-2021**

Project Title: **¾-TON, 4X4 SERVICE TRUCK**

First Year in CIP: 2016
Project Category: Equipment Replacement
Department: Water and Wastewater

Total Project Cost: \$28,000

Project Description: Scheduled replacement of existing 4-wheel drive service truck.

Project Justification and/or Need: Vehicle will be 10-15 years old and in need of replacement.

Project Impact/Benefit: Maintenance costs will be reduced as aged vehicles are upgraded.

Operating Fund Impact: Reduce maintenance costs \$1,000 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$28,000
Total	\$28,000



Projects Identified – Stores and Garage

The following projects have been identified for inclusion in this five-year Capital Improvement Program.

Plan Fiscal Year: 2016-2017

USED BUCKET TRUCK	75,000
REGENERATIVE STREET SWEEPER	200,000
V-PLOW FOR MEDIUM DUTY TRACTOR	8,500
Total for FY 2016-2017	\$283,500

Plan Fiscal Year: 2017-2018

SINGLE AXLE PLOW TRUCK	160,000
REPLACEMENT UNDERBODY PLOW	9,500
REVERSING FRONT PLOW	9,000
3/4-TON 4X4 PICKUP TRUCK	30,000
Total for FY 2017-2018	\$208,500

Plan Fiscal Year: 2018-2019

SINGLE AXLE PLOW TRUCK	160,000
REVERSING FRONT PLOW	9,000
RIDING LAWN MOWER	10,000
FOUR POST COLUMN LIFT	35,000
SIDEWALK AND PARKING LOT SWEEPER	25,000
Total for FY 2018-2019	\$239,000

Plan Fiscal Year: 2019-2020

DUAL AXLE PLOW TRUCK AND FRONT PLOW	205,000
DUAL WHEEL 29' BUCKET TRUCK	65,000
SIDEWALK TRACTOR AND ATTACHMENTS	80,000
Total for FY 2019-2020	\$350,000

Plan Fiscal Year: 2020-2021

SINGLE AXLE BLADE TRUCK W/ REVERSING PLOW	185,000
3/4-TON 4X4 PICKUP TRUCK	30,000
1-TON DUMP TRUCK	50,000
ALLEY TRACTOR	45,000
Total for FY 2020-2021	\$310,000

Grand Total for Stores and Garage \$1,391,000

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2016-2017**

Project Title: **BUCKET TRUCK**

First Year in CIP: 2010
Project Category: Equipment Replacement
Department: Stores and Garage

Total Project Cost: \$75,000

Project Description: Replace existing 1997 bucket truck that is used for forestry program and for repair/replacement of parking lot lighting. A used, later model bucket truck will be pursued for this replacement.

Project Justification and/or Need: Existing unit is used for all tree removals and trimming activities. The boom portion of the truck gets the toughest use and will need major repair work in the next few years. Replacement will reduce costly downtime and repair costs and will enhance the safety of the forestry crew.



Project Impact/Benefit: Enhance employee safety and maintain productivity by reducing down time.

Operating Fund Impact: Reduce minor maintenance costs by \$1,000 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$75,000
Total	\$75,000

Program Fiscal Year: **2016-2017**

Project Title: **REGENERATIVE AIR STREET SWEEPER**

First Year in CIP: 2009
Project Category: Equipment Replacement
Department: Stores and Garage

Total Project Cost: \$200,000

Project Description: A new regenerative air street sweeper will be purchased to replace the current sweeper which will be over 15 years old.



Project Justification and/or Need: This type of sweeper is used for routine street sweeping. Maintenance costs on the existing unit are increasing each year as the working environment is harsh. The city must continue the street sweeping program, and quality sweepers are essential to complete this process.

Project Impact/Benefit: Important street sweeping and catch basin cleaning activities will continue to be possible with reliable, efficient equipment.

Operating Fund Impact: Reduce minor maintenance costs by \$2,500 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$200,000
Total	\$200,000

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2016-2017**

Project Title: **V-PLOW FOR MEDIUM DUTY TRACTOR**

First Year in CIP: 2015
Project Category: Equipment Replacement
Department: Stores and Garage

Total Project Cost: \$8,500

Project Description: Purchase a V-plow to attach to the existing medium duty tractor. Tractor is used to plow alleys in winters and maintain gravel roads, alleys and shoulders in summer.

Project Justification and/or Need: This new plow will extend the usability of the current tractor that is used daily for completing street and alley maintenance.

Project Impact/Benefit: Maintain reliable and safe equipment to accomplish tasks and keep streets safe for our community.



Operating Fund Impact:
Decrease minor maintenance costs by \$500 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$8,500
Total	<hr/> \$8,500

Program Fiscal Year: **2017-2018**

Project Title: **SINGLE AXLE PLOW TRUCK**

First Year in CIP: 2008
Project Category: Equipment Replacement
Department: Stores and Garage

Total Project Cost: \$160,000

Project Description: Plow trucks typically remain in service for 10 years. This project will replace a 10-year old truck. Final cost represents purchase price less an estimated \$10,000 trade-in of current truck. Purchase will include all auxiliary plow: underbody and one-way plows.



Project Justification and/or Need: The existing blade truck that is scheduled to be replaced is 10 years old. Increased maintenance costs are incurred as the trucks age, therefore a regular replacement schedule is prudent. Replacement also helps to increase reliability and reduce downtime, both critical factors during winter snow removal months.

Project Impact/Benefit: Efficiency of winter maintenance activities will be maintained.

Operating Fund Impact: Reduce minor maintenance costs by \$2,500 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$160,000
Total	\$160,000

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2017-2018**

Project Title: **UNDERBODY PLOW**

First Year in CIP: 2013
Project Category: Equipment Replacement
Department: Stores and Garage

Total Project Cost: \$9,500

Project Description: Underbody plows are purchased as part of a plow truck package. They need to be replaced every 5 years.

Project Justification and/or Need: Harsh use dictates replacement of underbody plows every 5 years. These plows are used to blade snow in the winter and gravel roadways in the summer.

Project Impact/Benefit: Regular replacement is critical to be able to perform vital snow removal and gravel road maintenance.



Operating Fund Impact: Reduce minor maintenance costs by \$800 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$9,500
Total	\$9,500

Program Fiscal Year: **2017-2018**
Project Title: **REVERSING FRONT PLOW**

First Year in CIP: 2015
Project Category: Equipment Replacement
Department: Stores and Garage

Total Project Cost: \$9,000

Project Description: Plows are purchased as part of a plow truck package. They need to be replaced every 5 years.

Project Justification and/or Need: These plows are used to blade snow in the winter and gravel roadways in the summer.

Project Impact/Benefit: Regular replacement is critical to be able to perform vital snow removal and gravel road maintenance.

Operating Fund Impact: Reduce minor maintenance costs by \$800 per year.



Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$9,000
Total	\$9,000

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2017-2018**

Project Title: **¾-TON 4X4 PICKUP TRUCK**

First Year in CIP: 2013
Project Category: Equipment Replacement
Department: Stores and Garage

Total Project Cost: \$30,000

Project Description: Replace pickup truck utilized daily for street maintenance activities.

Project Justification and/or Need: Pickup trucks are essential for day-to-day operations in the street department. These trucks typically remain in service for up to 12 years. The condition of older vehicles is reviewed each year, and the one in worst condition is replaced.

Project Impact/Benefit: A regular replacement schedule will help keep down repair and maintenance costs and reduce down time.



Operating Fund Impact: Reduce minor maintenance costs by \$2,500 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$30,000
Total	\$30,000

Program Fiscal Year: **2018-2019**

Project Title: **SINGLE AXLE PLOW TRUCK**

First Year in CIP: 2010
Project Category: Equipment Replacement
Department: Stores and Garage

Total Project Cost: \$160,000

Project Description: Plow trucks typically remain in service for 10 years. This project will replace a 10-year old truck. Final cost represents purchase price less an estimated \$10,000 trade-in of current truck.



Project Justification and/or Need: The existing blade truck that is scheduled to be replaced is 10 years old. Increased maintenance costs are incurred as the trucks age, therefore a regular replacement schedule is prudent. Replacement also helps to increase reliability and reduce downtime, both critical factors during winter snow removal months.

Project Impact/Benefit: Efficiency of winter maintenance activities will be maintained.

Operating Fund Impact: Reduce minor maintenance costs by \$2,500 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$160,000
Total	\$160,000

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2018-2019**

Project Title: **REVERSING FRONT PLOW**

First Year in CIP: 2015
Project Category: Equipment Replacement
Department: Stores and Garage

Total Project Cost: \$9,000

Project Description: Plows are purchased as part of a plow truck package. They need to be replaced every 5 years.

Project Justification and/or Need: These plows are used to blade snow in the winter and gravel roadways in the summer.

Project Impact/Benefit: Regular replacement is critical to be able to perform vital snow removal and gravel road maintenance.

Operating Fund Impact: Reduce minor maintenance costs by \$800 per year.



Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$9,000
Total	\$9,000

Program Fiscal Year: **2018-2019**
 Project Title: **RIDING LAWN MOWER**

First Year in CIP: 2008
Project Category: Equipment Replacement
Department: Stores and Garage

Total Project Cost: \$10,000

Project Description: Riding lawn mowers are used almost daily during the mowing season to mow city property and for grass and weed orders.

Project Justification and/or Need: Current unit is fifteen years old and is requiring increasing maintenance and repairs. Reliability is also a factor as the equipment ages. Maintenance costs for this equipment make purchasing a new mower the best option.

Project Impact/Benefit: A new mower with hydrostatic drive and a 52-inch floating deck will enable the street department maintenance crew to maintain city property with a high level of efficiency and productivity.

Operating Fund Impact: Reduce minor maintenance costs by \$500 per year.



Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$10,000
Total	\$10,000

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2018-2019**

Project Title: **FOUR POST COLUMN LIFT**

First Year in CIP: 2016
Project Category: New Equipment
Department: Stores and Garage

Total Project Cost: \$35,000

Project Description: Purchase and install a four-post column lift for lifting heavy equipment for maintenance.

Project Justification and/or Need: Project will enable city mechanic to lift heavy equipment for inspections and repairs, including equipment for other departmental annual inspection requirements, like fire trucks, etc.

Project Impact/Benefit: Enhances capacity of maintenance staff to perform more thorough inspections by providing adequate lighting and maneuverability to perform repairs.



Operating Fund Impact: Lift will reduce setup time prior to inspections and repairs, and could enable city mechanic to perform additional services for other departments, thereby reducing operational maintenance costs by up to \$2,000 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$35,000
Total	\$35,000

Program Fiscal Year: **2018-2019**

Project Title: **SIDEWALK AND PARKING LOT SWEEPER**

First Year in CIP: 2007
Project Category: Equipment Replacement
Department: Stores and Garage

Total Project Cost: \$25,000

Project Description: A new sidewalk sweeper will be purchased to replace existing unit originally placed in service in 1999.

Project Justification and/or Need: Sidewalk and parking lot sweeping activities are critical in maintaining the visual appearance of the downtown area. This sweeper is operated almost daily from May through October of each year. It has enabled the city to maintain the sidewalks and off-street parking in the downtown business district in a much more efficient and comprehensive manner.



Project Impact/Benefit: Keeping the downtown beautiful in the summer is an important activity in the attraction and retention of both businesses and shoppers. Having the right equipment that operates reliably is important.

Operating Fund Impact: Reduce minor maintenance costs by \$500 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$25,000
Total	\$25,000

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2019-2020**

Project Title: **TANDEM AXLE PLOW TRUCK**

First Year in CIP: 2016
Project Category: Equipment Replacement
Department: Stores and Garage

Total Project Cost: \$205,000

Project Description: Plow trucks typically remain in service for 10 years. This project will replace a truck that has been in service for 5-6 years in excess of that. Final cost represents purchase price less an estimated \$10,000 trade-in of current truck. Purchase includes all plows: underbody, one-way, and wing plow.



Project Justification and/or Need: The existing blade truck that is scheduled to be replaced is about 15 years old. Increased maintenance costs are incurred as the trucks age, therefore a regular replacement schedule is prudent. Replacement also helps to increase reliability and reduce downtime, both critical factors during winter snow removal months.

Project Impact/Benefit: Efficiency of winter maintenance activities will be maintained.

Operating Fund Impact: Reduce minor maintenance costs by \$2,500 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$205,000
Total	\$205,000

Program Fiscal Year: **2019-2020**

Project Title: **DUAL WHEEL 29' BUCKET TRUCK**

First Year in CIP: 2015
Project Category: Equipment Replacement
Department: Stores and Garage

Total Project Cost: \$65,000

Project Description:

Project Justification and/or Need:

Project Impact/Benefit:

Operating Fund Impact:

Decrease minor maintenance costs by \$500 per year.

Funding Source(s) for this Project:



<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$65,000
Total	<hr/> \$65,000

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2019-2020**

Project Title: **SIDEWALK TRACTOR AND ATTACHMENTS**

First Year in CIP: 2016
Project Category: Equipment Replacement
Department: Stores and Garage

Total Project Cost: \$80,000

Project Description: Purchase a medium duty tractor with snow blower and power broom.

Project Justification and/or Need: Replace an old sidewalk tractor and enable the department to update sidewalk plowing methods.

Project Impact/Benefit: New infrastructure, like the Heritage Plaza area and the potential farmer's market covered parking structure present the need for new methods to clear snow. This equipment will also enhance the clearing of snow from bike paths, and other areas that require an industrial blower.



Operating Fund Impact:
Decrease minor maintenance costs by \$500 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$80,000
Total	\$80,000

Program Fiscal Year: **2020-2021**

Project Title: **SINGLE AXLE PLOW TRUCK WITH REVERSING PLOW**

First Year in CIP: 2015
Project Category: Equipment Replacement
Department: Stores and Garage

Total Project Cost: \$185,000

Project Description: Plow trucks typically remain in service for 10 years. This project will replace a truck is well beyond ten years old. Final cost represents purchase price less an estimated \$10,000 trade-in of current truck.



Project Justification and/or Need: The existing blade truck that is scheduled to be replaced is 10 years old. Increased maintenance costs are incurred as the trucks age, therefore a regular replacement schedule is prudent. Replacement also helps to increase reliability and reduce downtime, both critical factors during winter snow removal months.

Project Impact/Benefit: Efficiency of winter maintenance activities will be maintained.

Operating Fund Impact: Reduce minor maintenance costs by \$2,500 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$185,000
Total	\$185,000

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2020-2021**

Project Title: **¾-TON 4X4 PICKUP TRUCK**

First Year in CIP: 2016
Project Category: Equipment Replacement
Department: Stores and Garage

Total Project Cost: \$30,000

Project Description: Replace pickup truck utilized daily for street maintenance activities.

Project Justification and/or Need: Pickup trucks are essential for day-to-day operations in the street department. These trucks typically remain in service for up to 12 years. The condition of older vehicles is reviewed each year, and the one in worst condition is replaced.

Project Impact/Benefit: A regular replacement schedule will help keep down repair and maintenance costs and reduce down time.



Operating Fund Impact: Reduce minor maintenance costs by \$2,500 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$30,000
Total	\$30,000

Program Fiscal Year: 2020-2021
Project Title: 1-TON DUMP TRUCK

First Year in CIP: 2016
Project Category: Equipment Replacement
Department: Stores and Garage

Total Project Cost: \$50,000

Project Description: Replace current dump truck.

Project Justification and/or Need: Replace old equipment used frequently in department operations.

Project Impact/Benefit: Maintain reliable and safe equipment to accomplish tasks and keep streets safe for our community.

Operating Fund Impact:
 Decrease minor maintenance costs by \$500 per year and reduce downtime.



Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$50,000
Total	\$50,000

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2020-2021**

Project Title: **ALLEY TRACTOR**

First Year in CIP: 2013
Project Category: Equipment Replacement
Department: Stores and Garage

Total Project Cost: \$45,000

Project Description: Purchase a medium duty tractor with an adjustable Boss style plow. Tractor is used to plow alleys in winters and maintain gravel roads, alleys and shoulders in summer.

Project Justification and/or Need: This tractor is needed as the current one will be 15 years old and will need to be replaced as the tractor is used daily for completing street and alley maintenance.

Project Impact/Benefit: Maintain reliable and safe equipment to accomplish tasks and keep streets safe for our community.

Operating Fund Impact:

Decrease minor maintenance costs by \$500 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$45,000
Total	\$45,000



Projects Identified – Information Technology

The following projects have been identified for inclusion in this five-year Capital Improvement Program.

Plan Fiscal Year: 2016-2017

COMPUTER REPLACEMENT	20,000
COMPUTER SOFTWARE REPLACEMENT	125,000
IT INFRASTRUCTURE	20,000
Total for FY 2016-2017	\$165,000

Plan Fiscal Year: 2017-2018

IT INFRASTRUCTURE	50,000
COMPUTER REPLACEMENT	20,000
Total for FY 2017-2018	\$70,000

Plan Fiscal Year: 2018-2019

COMPUTER REPLACEMENT	20,000
IT INFRASTRUCTURE	20,000
Total for FY 2018-2019	\$40,000

Plan Fiscal Year: 2019-2020

COMPUTER REPLACEMENT	20,000
Total for FY 2019-2020	\$20,000

Plan Fiscal Year: 2020-2021

IT INFRASTRUCTURE	20,000
COMPUTER REPLACEMENT	20,000
Total for FY 2020-2021	\$40,000

Grand Total for Information Technology	\$335,000
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CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2016-2017**

Project Title: **COMPUTER REPLACEMENT**

First Year in CIP: 2011
Project Category: Equipment Replacement
Department: Information Technology

Total Project Cost: \$20,000

Project Description: Replace desktop computers, laptops, and other computer hardware that has reached the end of its useful life. The estimated useful life of a business-use PC is 4 years.

Project Justification and/or Need: With nearly 70 workstations in service throughout City departments, it is prudent to annually replace a portion of them in order to avoid a huge one-year need.

Project Impact/Benefit: Replacement of computer equipment in a timely fashion increases productivity and efficiency, while also reducing maintenance costs and down time.



Operating Fund Impact: Reduce minor maintenance costs by \$1,000 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$20,000
Total	<u>\$20,000</u>

Program Fiscal Year: **2016-2017**

Project Title: **SOFTWARE REPLACEMENT**

First Year in CIP: 2014
Project Category: Software Replacement
Department: Information Technology

Total Project Cost: \$125,000

Project Description: Replace core software systems responsible for general ledger, payroll, accounts payable, cash receipting, miscellaneous billing, and utility billing.

Project Justification and/or Need: Current system was purchased in 2004 and is now 10 years old. Annual maintenance fees are high with the current package and restrict any additional investment in new capabilities. Purchase will reduce annual maintenance fees by 2/3 and will enable the implementation of additional functionality and customer service.



Project Impact/Benefit: City staff will be able to increase productivity and efficiency by utilizing advancements in software capabilities.

Operating Fund Impact: Reduce annual maintenance fees by over \$20,000 per year and increase staff efficiency by having all core software provided by one vendor.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$125,000
Total	\$125,000

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2016-2017**

Project Title: **IT INFRASTRUCTURE**

First Year in CIP: 2014
Project Category: Equipment Replacement
Department: Information Technology

Total Project Cost: \$20,000

Project Description: General technology infrastructure updates.

Project Justification and/or Need: The City's system of IT infrastructure needs to be updated in order to minimize downtime and optimize operational efficiencies.

Project Impact/Benefit: Each department of the City relies on technology to enhance efficiency and optimize productivity. Regular updates enable the City's departments to take advantage of the latest technological advancements to improve and sustain operating capacities.

Operating Fund Impact: Reduce minor maintenance costs by \$2,500 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$20,000
Total	\$20,000



Program Fiscal Year: **2017-2018**

Project Title: **IT INFRASTRUCTURE**

First Year in CIP: 2013
Project Category: Equipment Replacement
Department: Information Technology

Total Project Cost: \$50,000

Project Description: General technology infrastructure updates.

Project Justification and/or Need: The City’s system of IT infrastructure needs to be updated in order to minimize downtime and optimize operational efficiencies.

Project Impact/Benefit: Each department of the City relies on technology to enhance efficiency and optimize productivity. Regular updates enable the City’s departments to take advantage of the latest technological advancements to improve and sustain operating capacities.

Operating Fund Impact: Reduce minor maintenance costs by \$2,500 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$50,000
Total	\$50,000



CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2017-2018**

Project Title: **COMPUTER REPLACEMENT**

First Year in CIP: 2013
Project Category: Equipment Replacement
Department: Information Technology

Total Project Cost: \$20,000

Project Description: Replace desktop computers, laptops, and other computer hardware that has reached the end of its useful life. The estimated useful life of a business-use PC is 4 years.

Project Justification and/or Need: With nearly 70 workstations in service throughout City departments, it is prudent to annually replace a portion of them in order to avoid a huge one-year need.

Project Impact/Benefit: Replacement of computer equipment in a timely fashion increases productivity and efficiency, while also reducing maintenance costs and down time.



Operating Fund Impact: Reduce minor maintenance costs by \$1,000 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$20,000
Total	<u>\$20,000</u>

Program Fiscal Year: **2018-2019**
 Project Title: **COMPUTER REPLACEMENT**

First Year in CIP: 2014
Project Category: Equipment Replacement
Department: Information Technology

Total Project Cost: \$20,000

Project Description: Replace desktop computers, laptops, and other computer hardware that has reached the end of its useful life. The estimated useful life of a business-use PC is 4 years.

Project Justification and/or Need: With nearly 70 workstations in service throughout City departments, it is prudent to annually replace a portion of them in order to avoid a huge one-year need.

Project Impact/Benefit: Replacement of computer equipment in a timely fashion increases productivity and efficiency, while also reducing maintenance costs and down time.



Operating Fund Impact: Reduce minor maintenance costs by \$1,000 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$20,000
Total	\$20,000

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2018-2019**

Project Title: **IT INFRASTRUCTURE**

First Year in CIP: 2015
Project Category: Equipment Replacement
Department: Information Technology

Total Project Cost: \$20,000

Project Description: General technology infrastructure updates.

Project Justification and/or Need: The City's system of IT infrastructure needs to be updated in order to minimize downtime and optimize operational efficiencies.

Project Impact/Benefit: Each department of the City relies on technology to enhance efficiency and optimize productivity. Regular updates enable the City's departments to take advantage of the latest technological advancements to improve and sustain operating capacities.

Operating Fund Impact: Reduce minor maintenance costs by \$2,500 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$20,000
Total	\$20,000



Program Fiscal Year: **2019-2020**

Project Title: **COMPUTER REPLACEMENT**

First Year in CIP: 2015
Project Category: Equipment Replacement
Department: Information Technology

Total Project Cost: \$20,000

Project Description: Replace desktop computers, laptops, and other computer hardware that has reached the end of its useful life. The estimated useful life of a business-use PC is 4 years.

Project Justification and/or Need: With nearly 70 workstations in service throughout City departments, it is prudent to annually replace a portion of them in order to avoid a huge one-year need.

Project Impact/Benefit: Replacement of computer equipment in a timely fashion increases productivity and efficiency, while also reducing maintenance costs and down time.



Operating Fund Impact: Reduce minor maintenance costs by \$1,000 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$20,000
Total	<u>\$20,000</u>

CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2020-2021**

Project Title: **IT INFRASTRUCTURE**

First Year in CIP: 2016
Project Category: Equipment Replacement
Department: Information Technology

Total Project Cost: \$20,000

Project Description: General technology infrastructure updates.

Project Justification and/or Need: The City's system of IT infrastructure needs to be updated in order to minimize downtime and optimize operational efficiencies.

Project Impact/Benefit: Each department of the City relies on technology to enhance efficiency and optimize productivity. Regular updates enable the City's departments to take advantage of the latest technological advancements to improve and sustain operating capacities.

Operating Fund Impact: Reduce minor maintenance costs by \$2,500 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$20,000
Total	\$20,000



Program Fiscal Year: **2020-2021**
 Project Title: **COMPUTER REPLACEMENT**

First Year in CIP: 2016
Project Category: Equipment Replacement
Department: Information Technology

Total Project Cost: \$20,000

Project Description: Replace desktop computers, laptops, and other computer hardware that has reached the end of its useful life. The estimated useful life of a business-use PC is 4 years.

Project Justification and/or Need: With nearly 70 workstations in service throughout City departments, it is prudent to annually replace a portion of them in order to avoid a huge one-year need.

Project Impact/Benefit: Replacement of computer equipment in a timely fashion increases productivity and efficiency, while also reducing maintenance costs and down time.



Operating Fund Impact: Reduce minor maintenance costs by \$1,000 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Operating Revenues	\$20,000
Total	\$20,000

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Projects Identified – Community Development

The following projects have been identified for inclusion in this five-year Capital Improvement Program.

Plan Fiscal Year: 2016-2017

WHITE PINE TRAIL CONNECTOR		250,000
	Total for FY 2016-2017	\$250,000

Plan Fiscal Year: 2017-2018

** NO PROJECTS **		0
	Total for FY 2017-2018	\$0

Plan Fiscal Year: 2018-2019

** NO PROJECTS **		-
	Total for FY 2018-2019	\$0

Plan Fiscal Year: 2019-2020

** NO PROJECTS**		-
	Total for FY 2019-2020	\$0

Plan Fiscal Year: 2020-2021

** NO PROJECTS **		-
	Total for FY 2020-2021	\$0

		\$250,000
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CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2016-2017**

Project Title: **WHITE PINE TRAIL CONNECTOR**

First Year in CIP: 2013
Project Category: Other Infrastructure
Department: Community Development

Total Project Cost: \$250,000

Project Description: The White Pine Trail will be extended from its current terminus to a new trailhead in downtown Cadillac. Improvements to public facilities at or near the new trailhead may also be necessary.

Project Justification and/or Need: Presently, the White Pine Trail ends at the intersection of South and Lake Streets. From there, users of the trail are left to determine how to get to the community's downtown landmarks and businesses. The trailhead should also be located near public restrooms and other facilities which are not present at the existing trailhead.



Project Impact/Benefit: Extending the trail into downtown Cadillac will increase awareness of its location and make it easier for residents and visitors alike to use it. This will encourage engagement in healthy physical activities.

Operating Fund Impact: Increase annual maintenance and repair costs \$7,500 to \$10,000 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Grants	\$200,000
Downtown Development Authority	50,000
Total	<u>\$250,000</u>

Projects Identified – Industrial Parks

The following projects have been identified for inclusion in this five-year Capital Improvement Program.

Plan Fiscal Year: 2016-2017

ENTRANCE SIGNS		25,000
	Total for FY 2016-2017	\$25,000

Plan Fiscal Year: 2017-2018

** NO PROJECTS **		-
	Total for FY 2017-2018	\$0

Plan Fiscal Year: 2018-2019

** NO PROJECTS **		-
	Total for FY 2018-2019	\$0

Plan Fiscal Year: 2019-2020

** NO PROJECTS**		-
	Total for FY 2019-2020	\$0

Plan Fiscal Year: 2020-2021

JAMES E. POTVIN INDUSTRIAL PARK		525,000
	Total for FY 2020-2021	\$525,000

	Grand Total for Industrial Parks	\$550,000
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CITY OF CADILLAC

Capital Improvement Program

For the fiscal years ending June 30, 2017-2021

Program Fiscal Year: **2016-2017**

Project Title: **INDUSTRIAL PARK ENTRANCE SIGNS**

First Year in CIP: 2013
Project Category: Industrial Development
Department: Industrial Parks

Total Project Cost: \$25,000

Project Description: Replace entrance signs to the Cadillac Industrial Parks.

Project Justification and/or Need: Current entrance signs are faded and showing age, which also increases costs to maintain the signs. New companies that have entered the park need to have their company names displayed.

Project Impact/Benefit: The visual appearance at the entrance to the parks will be enhanced and the addition of new company names will be a public benefit as well.



Operating Fund Impact: Reduce maintenance and repair costs by \$500 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Current Property Tax Revenues	\$25,000
Total	\$25,000

Program Fiscal Year: **2020-2021**

Project Title: **JAMES E. POTVIN INDUSTRIAL PARK**

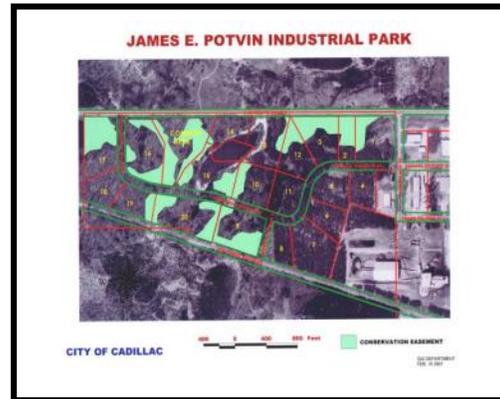
First Year in CIP: 2003
Project Category: Industrial Development
Department: Industrial Parks

Total Project Cost: \$525,000

Project Description: Phase II of the park expansion will result in the development of lots 15-20.

Project Details:

Water System	\$168,300
Sanitary Sewer System	81,500
Streets and Storm Water	<u>275,200</u>
 Total	 <u>\$525,000</u>



Project Justification and/or Need: Project will increase available industrial property through development of new infrastructure including sanitary sewer, water main, and street paving. The project will require wetlands mitigation.

Project Impact/Benefit: Project will result in additional available industrial sites.

Operating Fund Impact: Additional infrastructure and road maintenance will increase operational costs in the Street Department and Utilities by an estimated \$2,000 per year.

Funding Source(s) for this Project:

<u>Funding Source</u>	<u>Amount</u>
Grant from EDA (70%)	\$366,900
Local Industrial Park Funds (30%)	158,100
Total	<u>\$525,000</u>

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**Capital Improvement
Program**
July 1, 2016 - June 30, 2021