

Engineering

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ENGINEERING DEPARTMENT

Budget Highlights	FY 2014/15 Actual	FY 2015/16 Adopted	FY 2015/16 Amended	FY 2016/17 Recomm'd	% Change from Adopted FY 2015/16
Expense					
Employee Expense	3,049,816	3,059,662	3,059,662	3,280,038	7.2%
Supplies and Services	562,027	749,473	797,395	1,762,842	135.2%
Machinery and Equipment	138,380	368,052	475,237	695,810	89.1%
Payment to Construction Fund	530,000	298,800	298,800	-	0.0%
Administrative Overhead Charges					
	<u>329,315</u>	<u>480,105</u>	<u>480,105</u>	<u>499,607</u>	<u>4.1%</u>
Total	4,609,538	4,956,092	5,111,199	6,238,297	25.9%
Revenue					
Operating Revenue - General	2,399,993	2,091,698	2,091,698	2,091,212	0.0%
Administrative OH Recharges	355,139	179,977	179,977	320,250	77.9%
Recharges to Service Funds	2,397,941	2,119,767	2,129,767	2,048,069	-3.4%
Road Use Tax Funds	179,127	321,112	321,112	350,742	9.2%
Utility Charges - Stormwater	1,058,279	1,019,852	1,020,615	1,808,887	77.4%
Utility Charges-Sanitary	<u>59,990</u>	<u>153,308</u>	<u>153,308</u>	<u>528,041</u>	<u>244.4%</u>
Total	6,450,469	5,885,714	5,896,477	7,147,201	21.4%
Debt on Stormwater paid with Stormwater User Fees/Sales Tax Increment	2,462,115	4,552,673	4,552,673	3,614,948	-20.6%
Debt on Street Projects paid with Sales Tax Fund (30%)/RUT	261,684	265,335	252,065	274,371	3.4%
Debt on America's River Project- Paid with TIF & DRA	<u>921,475</u>	<u>911,800</u>	<u>911,800</u>	<u>913,000</u>	<u>0.1%</u>
Total Debt	3,645,274	5,729,808	5,716,538	4,802,319	-16.2%
Property Tax Support Percent Increase/(Decrease)	(1,840,931)	(929,622)	(785,278)	(908,904)	20,718 -2.2%
Personnel - Authorized FTE	33.62	33.62	33.62	34.62	

STORMWATER UTILITY

Budget Highlights	FY 2014/15 Actual	FY 2015/16 Adopted	FY 2015/16 Amended	FY 2016/17 Recomm'd	% Change from Adopted FY 2015/16
Requirements					
Employee Expense	235,959	676,077	676,077	978,914	44.8%
Supplies and Services	140,519	139,440	140,203	991,945	611.4%
Payment to Construction Fund	530,000	-	-	-	0.0%
Machinery and Equipment	<u>12,246</u>	<u>-</u>	<u>-</u>	<u>2,215</u>	<u>0.0%</u>
Total	918,724	815,517	816,280	1,973,074	656.2%
Administrative OH Recharge	329,315	480,105	480,105	499,607	4.1%
Park Stormwater Maintenance					
Charges	65,471	43,786	77,640	122,171	179.0%
Public Information Office	20,022	66,067	66,067	96,670	100.0%
Public Works Stormwater					
Maintenance Charges	248,711	209,270	209,381	226,807	8.4%
Debt Service	<u>2,314,178</u>	<u>4,552,673</u>	<u>4,552,673</u>	<u>3,614,948</u>	<u>-20.6%</u>
Total Requirements	3,896,421	6,167,418	6,202,146	6,533,277	927.0%
Resources					
Operating Revenue	3,579,773	3,950,352	3,950,352	4,614,870	16.8%
Sales Tax Increment	309,638	1,129,679	1,129,679	1,085,750	
Recharges to Service Funds	<u>195,502</u>	<u>640,637</u>	<u>640,637</u>	<u>760,464</u>	<u>18.7%</u>
Total Resources	4,084,913	5,720,668	5,720,668	6,461,084	12.9%
Net Operating Surplus (Deficit)	188,492	(446,750)	(481,478)	(72,193)	374,557
Personnel - Authorized FTE	8.75	8.75	8.75	11.75	

Improvement Package Summary

1 of 6

This improvement package would provide for a full-time low voltage electrician (GE-31B). This additional position would reduce ongoing maintenance and improvement costs associated with outsourcing the traffic center's security camera operations and the City's consent decree inflow and infiltration program's build out and maintenance of a supervisory control and data acquisition (SCADA) system. The low voltage electrician would provide the following services to the department:

1. Configure, install and test low voltage communications.
2. Install and configure IP equipment in the field and in the office. This includes items such as cameras, vehicle sensors, lighting controllers, and other traffic control equipment. Utility automated control systems operation, including, but not limited to: radio/cellular/Ethernet communications systems,

programmable logic controller hardware and software, SCADA system hardware and software operation.

3. Knowledge and hands on experience of surge protection including proper grounding and bonding techniques.
4. Familiarity of the NEC, NEMA and MUTCD standards.
5. Knowledge and experience in fiber optic communications.
6. Electrical schematic and construction plan reading
7. Construction inspection

Related Cost: \$83,013 Sanitary Sewer Fund/Project Recharges – Recurring **Recommend - No**
Sanitary Sewer Fund Impact: +\$.8573/+ .86%
Activity: Project Engineering/Sanitary Sewer

2 of 6

This improvement package will provide for an Engineering Technician to complete education and training to maintain a Professional Engineer's license in the State of Iowa.

In 2014, the Engineering Technician was successful in passing the Professional Engineer's examination and now holds a Professional Engineer's license in Iowa. In the engineering department, this employee designs, drafts, and prepares bidding documents for sanitary and storm sewer improvement projects, allowing the City to carefully manage the number of projects designed by outside, contracted consultants. In this role, the Engineering Technician continues to use the latest technology available including the use of AutoCAD CIVIL 3D design software, making this employee an excellent member of the City's engineering team.

Related Cost: \$3,950 Tax Funds – Recurring **Recommend - Yes**
Sanitary Sewer Fund Impact: +\$.0040/+ .04%
Activity: Sanitary Sewer Maintenance

3 of 6

This improvement package would provide the funding to purchase a smart phone for the 11 remaining engineering department field staff who do not currently have an assigned smart mobile device. It also provides for two department staff who currently have iPads to trade in their devices and switch to an iPhone which would be more functional for use in the field. The purchase and utilization of the smart phones will increase work productivity and improve response time to citizen service requests. The nature of communication methodologies in the field of civil engineering has rapidly evolved over the past several years. Increased demands for projects to be delivered on tighter schedules have pushed the industry to adopt leading edge web based and mobile technologies. Use of GIS for live field access to existing infrastructure and utility data, electronic plans distributed in pdf file format, email correspondence to issue construction directives and receive WebQA maintenance requests, integrated photo & email use to distribute field information and repair requests, construction project websites for file hosting, and use of CADD design files by contractors are just several examples of how technology is being used to increase the speed of construction project delivery and response to requests for maintenance and repairs. Improvements to mobile technology and computing now offer the potential for significant productivity gains in the daily activities for field staff in this office.

Additionally being able to work in a paperless environment results in staff having ready access to significant amounts of technical information that was formerly stored in a paper file or computer workstation and that could only be viewed by driving back to city hall. This workflow leads to many documents being unnecessarily printed in order to prepare for meetings or construction site visits. An additional benefit of having remote access to technical documents will allow field staff to remain at

project sites while retrieving electronically archived data, this increases our time overseeing contractors and improves quality control.

Related Cost: \$3,885 Tax Funds – Non-Recurring
Related Cost: \$2,475 Tax Funds –Recurring
Related Cost: \$ 830 Sanitary Sewer Funds – Non-Recurring
Related Cost: \$ 550 Sanitary Sewer Funds – Recurring
Related Cost \$ 980 Stormwater Utility Funds – Non-Recurring
Related Cost: \$ 550 Stormwater Utility Funds – Recurring
Net Cost: \$9,270
Property Tax Impact: +\$.0039/+.03%
Sanitary Sewer Fund Impact: +\$.0014/+.01%
Stormwater Utility Fund Impact: +\$.0047/+.05%
Activity: Project Engineering/Sanitary Sewer/Stormwater

Recommend - Yes

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This improvement package would provide the funding for a construction safety program and consultation services for this program. Over the past 18 months, the Engineering and Legal Departments have made significant updates to the City’s construction contract specifications that are used by all departments for capital improvement projects. During the review process, it was determined that a more comprehensive update to the City’s current policies and standards related to OSHA compliance and protection of the public during construction projects is needed. This improvement will allow the Engineering and Legal Departments to access industry expert safety and legal consultants to advise on the development of a new set of comprehensive City administrative policies and construction specifications related to construction safety standards for both City employees and hired contractors. Recurring funds in the amount of \$1,500 is requested to subscribed to a web hosted training site that provides OSHA regulatory analysis and employee safety training tools that will be used by the Engineering Department to train its staff.

Related Cost: \$ 6,500 Tax Funds – Non-Recurring
Related Cost: \$ 6,500 Sanitary Sewer Funds – Non-Recurring
Related Cost: \$ 6,500 Stormwater Utility Funds – Non-Recurring
Related Cost: \$ 1,500 Tax Funds – Recurring
Net Cost: \$19,500
Property Tax Impact: +\$.0034/+.03%
Sanitary Sewer Fund Impact: +\$.0067/+.07%
Stormwater Utility Fund Impact: +\$.0199/+.20%
Activity: Engineering Administration/Sanitary Sewer/Stormwater

Recommend - No

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This improvement package would provide the funding for storage area improvements. The Engineering Department is allocated approximately 1,200 square feet of storage space in the basement of City Hall. This area is unfinished with poor lighting, uneven floors and bricks walls that are slowly deteriorating. The area is used by the Engineering Department for capital improvement project record storage among other uses. The area is highly dusty and is not a good location for document storage. This improvement would begin to fund the renovation of this space by allowing rough finished gypsum walls to be installed, additional lighting and repairs to the floor to be completed.

Related Cost: \$8,100 Tax Funds – Non-Recurring
Property Tax Impact: +\$.0034/+.03%
Activity: Engineering Administration

Recommend - No

6 of 6

This improvement package would provide the funding for an enclosed server rack. The server rack located at city hall in the 3rd floor plotter room houses all network, email and phone communication equipment for the building. The existing rack is “open” and subject to accidental damage from objects or people coming in contact with the exposed fiber optic connections. This improvement will fund the purchase of a suitable, fully enclosed server cabinet for this location. The labor costs to transfer the equipment from the existing rack to the new rack are also included in this improvement request. The Information Services Department has recommended that this work be completed as soon as possible.

Related Cost: \$5,600 Tax Funds – Non-Recurring
Property Tax Impact: +\$.0024/+.02%
Activity: Engineering Administration

Recommend - No

Stormwater Improvement Package Summary

1 of 1

This improvement package would provide funding for a Levee Breach Study. The United States Army Corps of Engineers (USACE) created a levee breach model for the City of Dubuque to assist in planning for flooding that could result if the levee protecting the City from the Mississippi ever failed. The analysis was not initiated because of any known imminent risk of failure to the levee, but instead as an effort to improve emergency planning and communication of the potential risks associated with the levee. The USACE created a 2-D hydraulic, computer modeling to simulate the resultant flooding from five levee breach locations along the City’s levee system. The USACE levee breach analysis serves as a starting point for additional more detailed analysis of evacuation routes, potential flood hardening, and overall resiliency planning and design. In 2015, the City hired an engineering consultant to advance the 2-D modeling work started by the USACE funded through an FY14 CIP#7202239 (Floodwall Breach Analysis). To date, the engineering consultant has updated the model with break lines, spatially varied Manning’s roughness coefficients, and inclusion of buildings within the model domain. A mesh sensitivity analysis was also performed.

Non-recurring funds in the amount of \$160,000.00 is requested to provide funding for an engineering consultant to perform additional 2-D modeling, further defining depth of inundation, time to inundation, and inundation paths at critical infrastructure for hypothetical levee breach scenarios. The additional modeling will provide an evaluation of how sensitive the hydraulic characteristics of the resultant flooding are to different breach locations, characteristics, and river conditions. This will help the City further understand what the City could do before, during, and after a levee breach to mitigate the threat to human safety/health and property.

Related Cost: \$160,000 Tax Funds – Non-Recurring
Stormwater Utility Fund Impact: +\$.4916/+4.91%
Activity: Project Engineering/Stormwater

Recommend - Yes

Significant Line Items at Maintenance Level
(Without Recommended Improvement Packages)

Employee Expense

1. FY 2017 employee expense reflects a 2.5% wage package increase.
2. Iowa Public Employee Retirement System (IPERS) City contribution remains at 8.93% and the employee contribution remains at 5.95% in FY 2017.

3. The City portion of health insurance expense increased from \$1,040 in FY 2016 to \$1,325 in FY 2017 per month per contract, resulting is an increase of \$106,020 (27.40%).
4. The full-time Traffic Engineering Assistant position in the Engineering Department remains frozen in FY 2017 with a savings of \$82,348.
5. FY 2017 is the fifth year that eligible retirees with at least twenty years of continuous service in a full-time position or retired as a result of a disability and are eligible for pension payments from the pension system can receive payment of their sick leave balance with a maximum payment of one-hundred twenty sick days payable bi-weekly over a five year period. Sick leave payout expense of \$14,443 is budgeted in Engineering (for two employees) in FY 2017.
6. During FY 2016, the City Council approved a limited term (two years, expires June 30, 2017) Engineering Technician position to assist with construction inspections on the Bee Branch project (+1.0 FTE).

In addition, the Engineering Department reallocated the following positions between activities:

Activity	Funding	Position	Change
General Project Engineering	10055400	Engineering Technician	+0.50 FTE
Admin Internal Service Fund	80055100	Project Manager	-0.74 FTE
Admin Internal Service Fund	80055100	Confidential Account Clerk	-0.45 FTE
Project Eng. Internal Service	80055400	Engineering Assist. II	-0.50 FTE
Project Eng. Internal Service	80055400	Engineering Technician	-0.50 FTE
Sanitary Internal Service	80055610	Engineering Technician	-0.30 FTE
Stormwater Internal Service	80055620	Project Manager	+0.74 FTE
Stormwater Internal Service	80055620	Part-Time Confidential Account Clerk	+0.45 FTE
Stormwater Internal Service	80055620	Engineering Technician	-0.38 FTE
Stormwater Internal Service	80055620	Engineering Assist. II	+0.50 FTE
Stormwater Fund	62055620	Engineering Technician	+0.69 FTE
Sanitary Sewer Fund	61055610	Engineering Technician	-0.01 FTE
		Net Impact	+0.00 FTE

	Moved From	Moved To	FTE
Engineering Assist. II	80055400	80055620	0.50
Engineering Tech	80055400	10055400	0.50
Project Manager	80055100	80055620	0.74
Confidential Account Clerk	80055100	80055620	0.45
Engineering Tech	80055610	62055620	0.30
Engineering Tech	80055620	62055620	0.38
Engineering Tech	61055610	62055620	0.01

The shifting of FTEs from various funding sources to the Stormwater Fund is proposed in FY 2017 to reflect the various Engineering Staff members that worked on street, traffic, and sanitary sewer capital projects in FY 2016 that will be working on the Bee Branch Creek Restoration Project in FY 2017. FY 2018 will also reflect shifting of FTEs as the capital projects that Engineering Staff are assigned to change.

Supplies & Services

7. Office Supplies increased from \$5,358 in FY 2016 to \$7,133 in FY 2017 based on FY 2015 actual plus 2%.
8. Copying decreased from \$10,819 in FY 2016 to \$6,482 in FY 2017 based on FY 2015 actual.
9. Legal Notices and Advertising decreased from \$2,112 in FY 2016 to \$0 in FY 2017 due to the cost of advertising vacant positions covered by salary savings.
10. Sales Tax increased from \$107,602 in FY 2016 to \$130,900 in FY 2017 based on the increased stormwater utility rates. This line item is directly offset by the sales tax collected on stormwater utility.
11. Stormwater Utility Expense increased from \$2,400 in FY 2016 to \$6,966 in FY 2017 based on the actual cost of the SFUs for property owned by the Engineering Department.
12. Radio fees increased from \$1,600 in FY 2016 to \$6,966 in FY 2017 based on new radio equipment implemented in FY 2017.
13. Motor Vehicle Fuel decreased from \$15,502 in FY 2016 to \$11,978 in FY 2017 based on FY 2015 actual of \$13,308 less 10%.
14. Motor Vehicle Maintenance decreased from \$9,452 in FY 2016 to \$7,524 in FY 2017 based FY 2015 actual plus 10% for the Garage Overhead rate increase in FY 2017.
15. Equipment Maintenance increased from \$39,032 in FY 2016 to \$49,032 in FY 2017 based on a \$10,000 contract with RACOM to maintain traffic cameras that was erroneously excluded from the FY 2016 budget.
16. Internet Services decreased from \$14,540 in FY 2016 to \$4,290 in FY 2017 based on FY 2016 actual annualized.
17. Field Operation Supplies increased from \$450 in FY 2016 to \$2,000 in FY 2017 based on FY 2015 actual of \$1,000 plus the cost of smart levels that are primarily used for ADA compliance.
18. Consultant Service increased from \$15,000 in FY 2016 to \$479,000 in FY 2017 due to moving Stormwater maintenance expense items for the National Pollutant Discharge Elimination System (NPDES) permit requirements (\$140,000), Inflow and Infiltration (I&I) reduction (\$200,000), stormwater ditch remediation (\$40,000), detention basin maintenance (\$59,000), and stormwater inspection and cleaning (\$30,000) from the capital budget to the operating budget in FY 2017.
19. Inspection Reimbursement increase from \$14,500 in FY 2016 to \$65,000 in FY 2017 based on the completion of subdivisions that require reimbursement of inspection fees paid that weren't used, per contract.
20. Pay to Other Agency increased from \$52,159 in FY 2016 to \$98,555 in FY 2017 based on FY 2015 actual plus 2%. This line item represents the contract with East Central Iowa Association for transportation planning (\$9,000) and the refund of the Dubuque Historical Society lease (\$43,159). Also, the Catfish Creek Watershed Partnership payment (\$44,532) was moved to this line item from the Capital Improvement Projects.

21. Grant expense increased from \$0 in FY 2016 to \$317,300 in FY 2017. The stormwater enterprise fund subsidies for low income, residential farms, and property tax-exempt properties were moved from the Capital Improvement Project budget to the Operating budget to reflect the on-going expense these programs require.

Machinery & Equipment

22. Equipment replacement items at the maintenance level include (\$419,965):

Engineering Administration

Spiral Binding System	\$ 2,500
Label Maker	\$ 200
2008 Ford Escape	\$ 22,500
Chairs	\$ 1,000
Smart Phone (3)	\$ 1,425

Project Engineering General Fund

Digital Cameras (5)	\$ 1,000
ASTM Manuals	\$ 1,000
Cylinder Breaker	\$ 7,000
Metal Detector	\$ 900
Topcon GPS Rover	\$ 12,500
Auto Levels	\$ 300
Motorola Radius Radios	\$ 1,000
2009 Ford F150 (2)	\$ 32,000
2010 Ford Fusion	\$ 19,500
2010 Ford F-250	\$ 35,000
Chairs	\$ 1,000
Cisco DLEC	\$ 2,300
Cisco Museum	\$ 2,300
Security Cameras (2)	\$ 5,020
Security Cameras (2)	\$ 3,500
Smart Phone	\$ 475
Cell Phone (3)	\$ 180

Traffic Engineering General Fund

2008 Toyota Prius	\$ 17,500
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Project Engineering Road Use Tax Fund

Label Maker	\$ 200
PTZ Cameras (5)	\$ 16,000
Milestone Video Server (4)	\$ 30,000
Virtual Servers (3)	\$ 8,000
Network Switch – City Hall Traffic	\$ 8,500
Network Switch – Operations & Maintenance	\$ 5,000
Tactics Server	\$ 10,000
Axis Server (10)	\$ 6,500
Milestone WS Computer	\$ 5,000
ITERIS Cameras (8)	\$ 9,600
Axis Cameras (28)	\$ 34,000

Autoscope Camera (4)	\$ 8,000
Batteries (50)	\$ 12,000
Battery Back-Up System (5)	\$ 25,000
Hardened Intersection Switches	\$ 33,000
Cell Phone	\$ 475

Traffic Engineering Road Use Tax Fund

GPS Handheld Survey Grade	\$ 8,000
Traffic Counters (3)	\$ 4,500
Cell Phone	\$ 60

Project Engineering Sanitary Sewer Fund

Flow Meters (4)	\$ 20,000
Weather Station	\$ 600
Gas Air Meter (4)	\$ 3,200
Field Equipment	\$ 400
Smart Phone	\$ 475
Cell Phone (2)	\$ 120

Project Engineering Stormwater Fund

Digital Camera	\$ 200
LCD Monitor – 32”	\$ 500
Smart Phone	\$ 475
Cell Phone	\$ 60

In addition, maintenance related items that have historically been budgeted in the capital improvement program have been moved to the operating budget to more accurately reflect the cost of operations. These items budgeted in the equipment line items are as follows (\$270,000):

Sanitary Sewer Repairs/Maintenance	\$250,000
Sanitary Sewer Clearing and Grubbing	\$ 20,000

Debt Service

23. FY 2017 Debt Service includes the following (\$4,802,319):

\$297,102	2008A Stormwater GO Borrowing (Last Year 2028)
\$ 13,910	2009A Fiber Optic & Street Light GO Borrowing (Last Year 2029)
\$ 98,290	2009A Stormwater GO Borrowing (Last Year 2029)
\$913,000	2009C America’s River Project GO Borrowing (Last Year 2021)
\$117,477	2010A Stormwater GO Borrowing (Last Year 2030)
\$ 19,079	2010A Street Improvements GO Borrowing (Last Year 2030)
\$ 54,858	2010B Stormwater North Catfish Creek SRF Borrowing (Last Year 2030)
\$126,235	2010C Stormwater West 32 nd Detention Basin SRF Borrowing (Last Year 2030)
\$ 73,884	2011A Southwest Arterial GO Borrowing (Last Year 2031)
\$164,184	2011A Stormwater GO Borrowing (Last Year 2031)
\$136,338	2012B Stormwater GO Borrowing (Last Year 2031)
\$ 9,904	2012D FEMA Flood Buyout GO Borrowing (Last Year 2027)
\$ 31,100	2012D Stormwater GO Borrowing (Last Year 2033)
\$ 83,584	2012E Southwest Arterial GO Borrowing (Last Year 2032)
\$ 9,049	2012E Stormwater GO Borrowing (Last Year 2032)
\$413,662	2012F Stormwater Lower Bee Branch SRF Borrowing (Last Year 2032)

\$323,100	2014A Stormwater Sales Tax Increment Borrowing (Last Year 2029)
\$ 55,103	2014B Street Improvements GO Borrowing (Last Year 2034)
\$ 63,021	2014D Stormwater Lower Bee Branch SRF Borrowing (Last Year 2034)
\$476,639	2015B Stormwater Refunding (Last Year 2035)
\$430,892	2015B Stormwater Upper Bee Branch SRF Borrowing (Last Year 2035)
\$762,650	2015A Stormwater Sales Tax Increment Borrowing (Last Year 2029)
\$ 18,907	2016C Federal Building Roof Improvements (Last Year 2036)
\$110,351	2017A Stormwater Bee Branch Watershed SRF Borrowing (Last Year 2037)

Revenue

24. Riverfront Leases increased from \$1,782,716 in FY 2016 to \$1,797,621 in FY 2017 based on the projected revenue which is as follows:

	<u>FY16 Budget</u>	<u>FY16 Projected</u>	<u>FY17 Budget</u>
Artco Fleeting Service	\$3,500	\$3,500	\$1,050
Colleen Bradley Lindstrom	\$3,600	\$3,600	\$3,600
Dubuque Historical Society	\$43,160	\$43,159	\$44,023
Dubuque Marina	\$30,968	\$30,241	\$30,845
Dubuque River Rides	\$14,000	\$14,000	\$13,500
Dubuque Terminals Ice Harbor	\$0	\$0	\$12,365
Dubuque Terminals Dove Harbor	\$119,334	\$117,879	\$120,237
Dubuque Yacht Basin	\$23,947	\$23,621	\$24,015
Flint Hill Resources	\$663,000	\$650,000	\$663,000
Freebird II, LLC - Lease 2	\$6,792	\$6,792	\$6,792
Freebird III, LLC	\$53,400	\$53,400	\$53,400
Hawkeye Truck & Trailer	\$22,243	\$22,910	\$22,910
Hodge Company	\$6,419	\$6,419	\$6,419
Klauer Manufacturing	\$100	\$100	\$100
Gavilon- Land By City Salt Pile	\$269,276	\$256,791	\$261,927
Gavilon Dove Harbor	\$522,977	\$522,978	\$533,438
Total	\$1,782,716	\$1,755,390	\$1,797,621

25. Wharfage Fees on Leased Property increased from \$68,600 in FY 2016 to \$87,000 in FY 2017 and is dependent on how much business is being conducted at the Wharf.

The projected revenue includes:

	<u>FY16 Budget</u>	<u>FY16 Proj.</u>	<u>FY17 Budget</u>
Freebird II, LLC - Lease 2	\$15,000	\$15,000	\$18,000
Gavilon Dove Harbor	\$19,800	\$19,800	\$35,000
Gavilon – Salt Site	\$14,000	\$14,000	\$12,000
Flint Hill Resources	\$19,800	\$19,800	\$22,000
Total	\$68,600	\$68,600	\$87,000

26. Non-Riverfront Lease decreased from \$172,272 in FY 2016 to \$169,621 in FY 2017. There is 5.85 acres that is not leased with estimated revenue of \$37,000 per acre beginning January 1, 2018.

	<u>FY16 Budget</u>	<u>FY17 Proj.</u>	<u>FY17 Budget</u>
ABC Building	\$46,009	\$46,009	\$46,009
Dubuque Rescue Mission	\$1	\$1	\$1
Miller Enterprise	\$1,896	\$2,011	\$2,072
Hartig Drug	\$1,656	\$1,656	\$1,705
Key City Moving	\$5,225	\$5,225	\$0
16th St. Detention Basin - Rainbo Oil	\$117,484	\$117,485	\$119,834
16 th St. Detention Basin – 5.85 Acres	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
Total	\$172,272	\$172,387	\$169,621

27. Subdivision Inspection Fee 3% decreased from \$15,000 in FY 2016 to \$10,000 in FY 2017 based on the decrease in the amount of subdivision under development.

28. Stormwater Penalties increased from \$24,000 in FY 2016 to \$27,060 in FY 2017 based on FY 2015 actual of \$26,530 plus 2%.

29. Sales Tax Collections increased from \$112,000 in FY 2016 to \$130,900 in FY 2017 based on FY 2016 actual annualized plus the stormwater rate increase. This revenue directly offsets the Sales Tax expense.

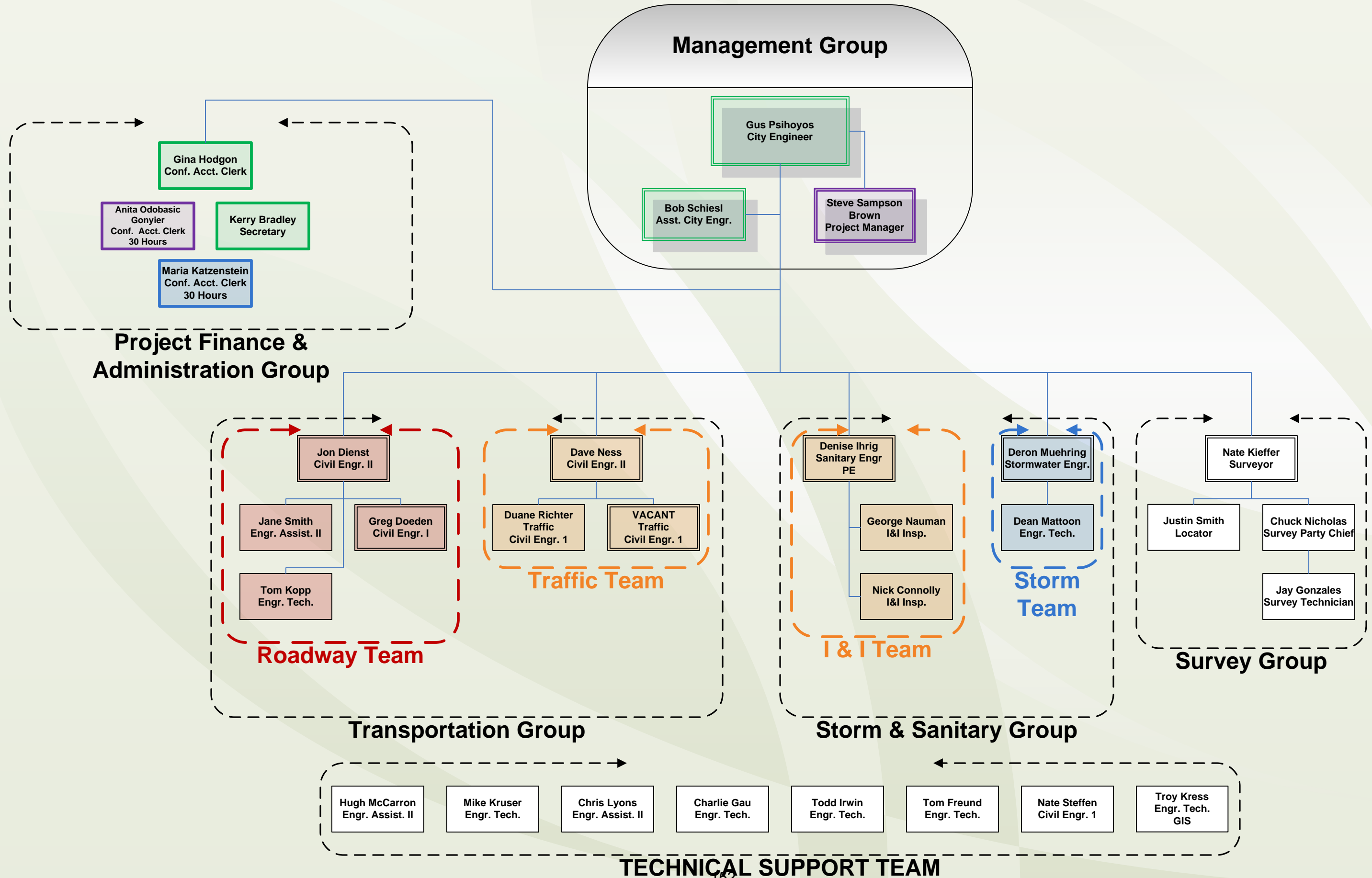
30. Miscellaneous Permits for erosion settlement control decreased from \$14,000 in FY 2016 to \$10,843 in FY 2017 based on a three year average.

31. The FY 2017 Stormwater User Fee is increasing from \$6.38 per SFU to \$6.81 per SFU, a 6.74% increase, consistent with Ordinance 16-14 passed on March 5, 2014.

	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Adopted Per Ordinance 21-12	\$8.50	\$9.00	\$9.00	\$9.00	\$9.00	\$9.00	\$9.00
Adopted Per Ordinance 16-14	\$6.38	\$6.81	\$7.27	\$7.76	\$8.29	\$8.85	\$9.00
% Decrease From Ordinance 21-12	-24.94%	-24.33%	-19.22%	-13.78%	-7.89%	-1.69%	0%

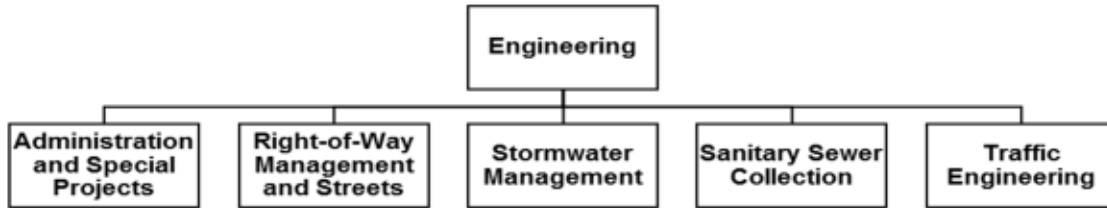
* The recommended rates for FY16 through FY20 reflect the rates previously established by Ordinance 16-14 following the State’s approval of \$98.5 million in State Flood Mitigation state sales tax increment funds for the Bee Branch Watershed Flood Mitigation Project. Ordinance 21-12 was the ordinance adopted prior to the City receiving the Flood Mitigation grant.

ENGINEERING – CURRENT WORK ASSIGNMENTS



ENGINEERING DEPARTMENT

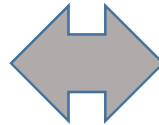
The mission of the Engineering Department is to promote public safety by providing engineering services related to the planning, development, construction, and maintenance of the City's public infrastructure systems.



SUCCESS IS ABOUT PLANNING, PARTNERSHIPS AND PEOPLE LEADING TO OUTCOMES

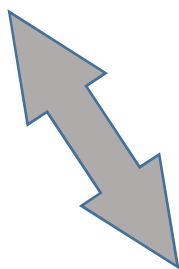
PEOPLE

Engineering continues in its emphasis on public information meetings concerning projects that have a significant impact on property owners. These meetings provide an opportunity for meaningful exchange between the City and property owners on the project scope and its impact.



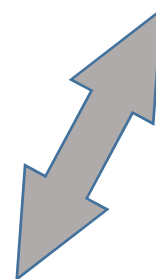
PLANNING

Engineering coordinates its project planning with multiple City Departments. In addition the department is involved in the Dubuque Metropolitan Area Transportation Study and works with the East Central Intergovernmental Agency in planning projects. This ensures a regional view is considered in project development.

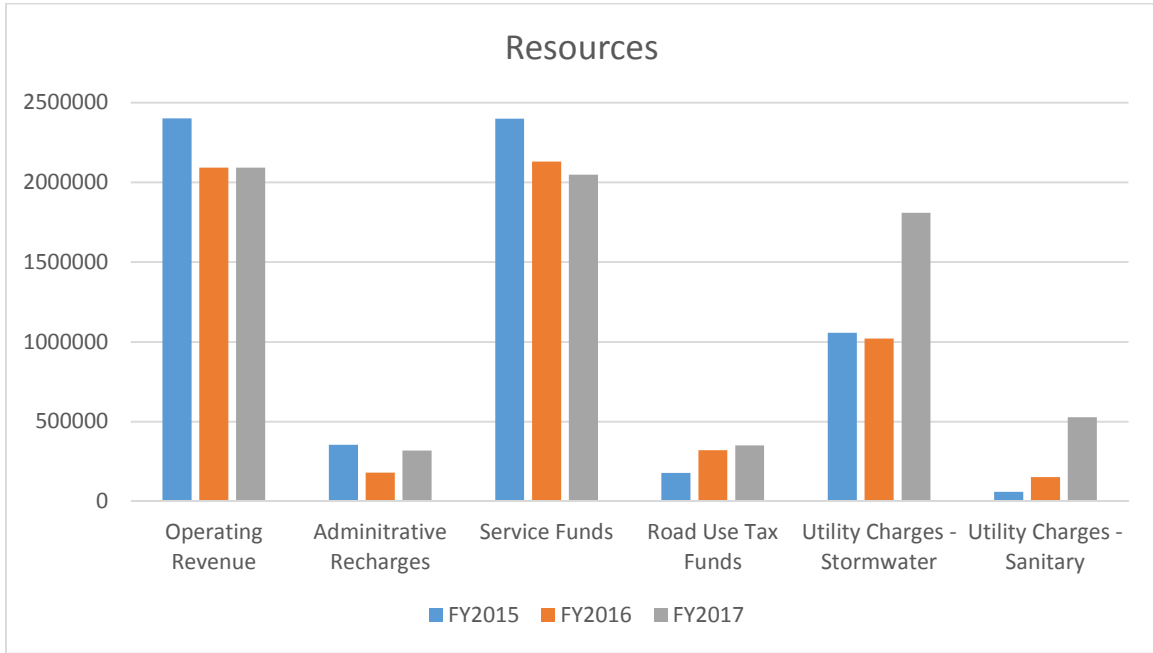


PARTNERSHIPS

The Engineering Department works with the Iowa Department of Transportation (IDOT), the Access Board, Federal Highway Administration (FHWA), East Central Intergovernmental Agency (ECIA), Dubuque County, Historic Preservation Commission, Neighborhood Groups, Tri-State Trail Vision and many other entities when planning and constructing projects.

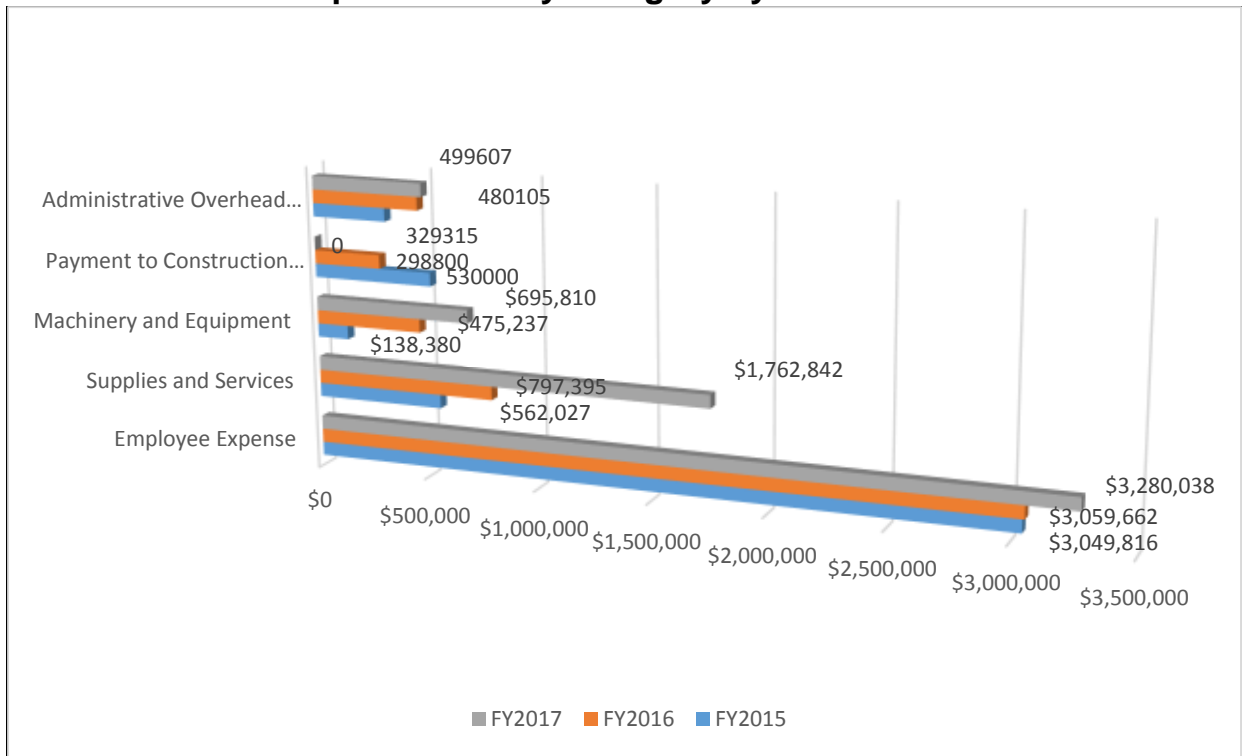


ENGINEERING DEPARTMENT



The Engineering Department is supported by 34.62 full-time equivalent employees, which accounts for 52.5% of the department expense as seen below.

Expenditures by Category by Fiscal Year



ENGINEERING DEPARTMENT

Activity: Right-of-way Management and Streets

Right-of-Way Overview

Right-of-way (ROW) is land which is owned by the City to provide a defined area for essential facilities and services for all such as transportation, communication, water, sewer, power in order to provide, sustain, enhance and develop a progressive, safe community. Typically, the width of public ROW is 50, 60, or 64 feet, although other widths may occur. Right-of-Way Management involves monitoring the public right-of-way for approved, and prohibited, activities and placements; excavations for utilities, sidewalks and driveways – inspections, installations, appeals, repairs of new and replacements; dumpsters, sidewalk cafes, retaining walls, snow clearing, easements, accessibility and licenses of encroachment. This activity also includes the maintenance of records of above activities for compliance of right-of-way access and amenities.

Streets Overview

Street activity involves planning, inspection and reconstruction and major maintenance for streets and alleys. The City maintains a pavement management system which contains a ranking and condition which helps to identify the Capital Improvement Projects for next 5 year period. The projects are designed to accomplish goals of sustainability, mobility, affordability, constructability and long lasting results as well as be in compliance with the latest standards and specifications, federal, state and local regulations. Assessable projects for reconstructions are prepared by this Activity. This activity is highly called upon during emergency events and crises. Agency involvement may include Iowa Department of Transportation (IDOT), State Historical Preservation Office (SHPO) and various railroads.

Right-of-way and Streets Funding Summary			
	FY 2014/15 Actual	FY 2015/16 Adopted	FY 2016/17 Recommended
Expenditures	\$929,924	\$1,994,318	\$2,106,711
Resources	\$323,035	\$1,076,367	\$1,121,080

Right-of-way and Streets Position Summary	
	FY 2016/17 FTE's
Civil Engineer II	3.00
Survey Technician	0.70
Survey Party Chief	0.70
Engineering Technician	5.40
Engineering Assistant II	2.00
Surveyor	1.00
Engineering Aide	1.25
Utility Locator-	0.32
Total FT Equivalent Employees	14.37

ENGINEERING DEPARTMENT

Highlights of the Past Year

- Resurfacing of White Street from 11th to 21st Streets
- Asbury Road Dowel Bar Retrofit Project
- Reconstruction of Elm Street between 9th and 12th streets
- Conversion of 9th, 10th, 11th, Elm and Pine Streets from One-way to Two-way traffic
- Reconstruction of 28 alleys into Green Alleys.
- Worked with the Dubuque Metropolitan Area Transportation Study group and outside firms on the master plans for different street corridors using Statewide Urban Design and Specifications for design and construction.

Future Initiatives

- Resurfacing of Central Avenue between 9th and 21st streets
- Design and construction of Washington Street between 7th and 9th streets
- Design and construction North Cascade Road between Edval Lane and the bridge
- Design and construction of 30 green alleys as part of the Bee Branch Creek Flood Mitigation Project – Phase 6.

Performance Measures

Right-of-Way Management – Activity Statement

Manage the public right of way so that it is safe and accessible for all users.

Streets – Activity Statement

Construct and maintain streets in a fiscally responsible way that also provides for safe and efficient transportation for all users



Goal: Social/Cultural Vibrancy

Outcome #1: Provide safe walking pathways throughout the City, including pedestrian access ramps

Citizen Impact:

Staff react to complaints concerning sidewalks and ramps. Staff also proactively inspect pedestrian corridors to ensure people of all abilities have access. By making sure pedestrian facilities meet current standards, it minimizes the chance of people tripping and making travel easier for people with disabilities.



Sidewalk not shoveled

Did you know?

In 2014 the City of Dubuque sent out 306 notices to properties due to either defective sidewalks or failure to shovel the sidewalk.

ENGINEERING DEPARTMENT

Many Dubuque residents have mobility issues. Pedestrian access ramps that are constructed correctly, improve the accessibility of these limited mobility individuals. When the City resurfaces or reconstructs streets, the access ramps are evaluated and upgraded to meet current American with Disability Act requirements.



Cracked and heaving sidewalk – Trip Hazard



New Enhanced Sidewalk on Asbury Road

Goal: Planned and Managed Growth

Outcome #2: Manage the work in right of way permits.

Citizen Impact:

If work in the right of way is not managed, the City may not have information on the type of pavement repair that may have occurred, if the utility is buried at the correct depth, does the contractor have proper insurance, etc. The City manages all right of way excavations by issuing permits to work in the right of way. The permits are tracked in a central database that allows multiple departments to see what work may have occurred and who performed the work. This ensures every department has the same information.



Emergency Water main repair in the winter

Did you know?

The City holds monthly coordination meetings with all utilities to help coordinate all utility work that may occur in the right of way. This coordination effort helps with minimizing the amount of excavations that may occur in a given area and reduces the inconvenience to the public.

There were 338 excavation permits and 290 driveway/sidewalk permits issued in 2014. The Engineering Department adopted a new excavation policy so that damage to City streets and other infrastructure is minimized.

ENGINEERING DEPARTMENT



Goal: Improved Connectivity



Outcome #3: Provide complete, safe and efficient street systems

Citizen Impact:

By constructing streets that utilize perpetual pavements, we create a strong transportation network that minimizes the inconvenience to the traveling public and reduces long terms costs. The current average condition rating for all streets in Dubuque is 62 on a scale of 100. The objective is to increase the street rating each year.

Did you know?

The City of Dubuque has over 300 centerline miles of streets. All of these streets were scanned in the fall of 2013 and again in the fall of 2015. The Engineering Department entered all of this data into a pavement management system so the street degradation can be measured and future maintenance can be planned based on the objective data.



Pavement Scanning Van – Measures Smoothness and cracking

Did you know?

The city saved over \$150,000 on the Central Avenue Resurfacing Project in 2012 by using an asphalt interlayer instead of performing extensive concrete patching. The interlayer reduced the cracking that sometimes occurs with asphalt pavements over concrete and reduced the amount of crack maintenance needed in the future.



Installation of Geogrid over joints



New Asphalt Interlayer Installed. Reduces Cracking.

ENGINEERING DEPARTMENT

Did you know?

The City has a Complete Streets Policy that was adopted in 2011. As part of that policy, all street reconstruction projects must attempt to make the street as complete as possible. This includes accommodations for vehicles, transit, bicycles and pedestrians. Recent projects following the policy include the Historic Millwork District Complete Streets Project, the 9th and 11th Street One-way to Two-way Conversion Project and the Elm Street Reconstruction Project (9th to 12th Streets). The City also has a pavement marking fund that can be used toward bike lanes and shared bicycle area markings called “sharrows”. Additionally, there is a fund for enhanced cross-walks to help in school areas and other high traffic pedestrian zones.



Bike Lanes on Jackson Street



Bike Sharrows on 10th Street

Activity: Stormwater Management

Overview

The mission of the City’s Stormwater Management Utility is to help protect the health of citizens and both the natural and built environment by designing, implementing, and maintaining an effective, efficient municipal stormwater management system. The City of Dubuque has the responsibility as private property owners: manage stormwater on its property.

Projects range from the construction of new detention basins and the extension of storm sewer systems to the rehabilitation of existing storm sewer systems. Programs range from ditch, storm sewer, and detention basin maintenance to limiting pollutants associated with stormwater runoff. Major projects include the twelve phases of the Bee Branch Watershed Flood Mitigation Project (Carter Road Detention Basin, W. 32nd Street Detention Basin, Bee Branch Creek Restoration, Green Alley/Impervious Pavement Reduction, etc.), storm sewer redesign and construction in conjunction with street reconstruction projects, and the replacement/extension of storm sewer systems to address specific drainage issues.

ENGINEERING DEPARTMENT

Stormwater Funding Summary			
	FY 2014/15 Actual	FY 2015/16 Adopted	FY 2016/17 Recommended
Expenditures	\$3,252,579	\$4,718,616	\$5,001,879
Resources	\$3,587,230	\$4,524,922	\$5,278,664

Stormwater Position Summary	
	FY 2016/17 FTE's
Civil Engineer II	0.85
Environmental Engineer	0.35
Engineering Technician	3.29
Engineering Assistant I	0.50
Engineering Aide	1.50
Survey Party Chief	0.15
Survey Technician	0.15
Utility Locator	0.34
I&I Inspector	2.00
Account Clerk Confident	0.62
Total FT Equivalent Employees	9.75

Highlights of the Past Year

- Engineering design complete for the Upper Bee Branch Creek Restoration Project
- Awarding of four contracts related to the construction of the Upper Bee Branch Creek Restoration Project (Garfield Ave. to 24th Street)
- Completed the Catfish Creek Watershed Management Plan

Future Initiatives

- Construction of the Upper Bee Branch Creek Restoration Project
- Engineering design of the Bee Branch Flood Control Pumping Station Gates and Primary Electrical Service Replacement Project
- Design of improvements outlined in the Catfish Creek Watershed Management Plan

Performance Measures

Stormwater Management – Activity Statement

Provide a storm and surface water system that protects the health and safety of citizens, controls damage from storms, and protects the environment.

ENGINEERING DEPARTMENT



Goal: Social/Cultural Vibrancy



Outcome #1: Engineer, construct, and maintain facilities to mitigate the effects of flooding

The Engineering Department continues to analyze various segments of the public drainage systems in order to identify improvements that will mitigate the effects of flooding. When deficiencies are identified, improvements throughout the entire watershed are considered. Some drainage issues involve hundreds of properties, both public and private. In order to address these issues, the entire watershed must be considered and sometimes major drainage improvements are appropriate.

Citizen Impact:

While most homeowners can install gutters and downspouts and install landscaping that forces water to flow away from their house, sometimes they can be powerless to protect their home from flooding – flooding that inundates water heaters, furnaces, and electrical boxes, and can cause fires.

Did you know?

Flood disasters have repeatedly impacted residents and businesses (over 1,370 properties) in the Bee Branch watershed. Between 1999 and 2011, six Presidential Disasters have issued due to the damage estimated at \$70 million caused by the flooding.

Major Project

Upper Bee Branch Creek Restoration Project

The Upper Bee Branch Creek Restoration involves replacing a half-mile of storm sewer with a creek and floodplain that resembles the one that traversed the area approximately 100 years ago. This “day-lighting” of the buried Bee Branch Creek will allow stormwater from flash floods to safely move through the area without flooding adjacent properties. During heavy rains, stormwater will rise out of the creek and fill the green space instead of flooding streets and homes. The project represents one phase of the twelve phase Bee Branch Watershed Flood Mitigation Project that when complete will prevent an estimated \$582 million in damages over the coming century.



Basement flooding high water mark on water heaters



Street flooding on W. 17th Street

ENGINEERING DEPARTMENT



Goal: Improved Connectivity



Outcome #2: Design and oversee construction of street/public right-of-way drainage systems to mitigate flooding and make the street available to the public during a rain event.

Drainage systems are designed to strike a balance between initial capital costs, maintenance costs, and public protection with consideration given to public safety, environmental protection, and need for maintenance. Storm sewers are evaluated and typically reconstructed in conjunction with a street reconstruction project. Storm sewer improvements are also evaluated throughout the City as issues arise. These improvements are prioritized with funding programmed into the five-year Capital Improvement Program budget.

Citizen Impact:

Street drainage systems allow general traffic and emergency vehicles to safely utilize the street to travel through the community.

Did you know?

Streets themselves function as part of the overall stormwater drainage system. Curb and gutter sections collect stormwater and direct it to storm sewer intakes which allow the runoff to enter into the underground storm sewer pipes.



Goal: Environmental/Ecological Integrity



Outcome #3: Maintain or improve the quality of stormwater runoff in accordance with the federal Clean Water Act.

After it rains, the streets look cleaner -- and that's a problem. Stormwater rushing over paved surfaces picks up everything from oil to pesticides to sediment and then flows, either directly or via a storm sewer, into the Bee Branch, Catfish Creek, and Mississippi River. The pollutants in stormwater can lead directly to fish kills and unsafe conditions for citizens.



Silt fence failure allowing sediment to leave a construction site



Sediment deposition clogging a storm sewer inlet

ENGINEERING DEPARTMENT

Did you know?

According to the U. S. Environmental Protection Agency, stormwater runoff is the #1 source of surface water pollution.

Goal: Planned and Managed Growth

Outcome #4: Help mitigate the potential for pollution and flooding due to the development of private property.

The City of Dubuque has ordinances and associated policies in place to mitigate increased runoff typically associated with land development or land use changes. Development and redevelopment plans are reviewed and construction sites are inspected to ensure compliance with applicable ordinances and policies.

Activity: Sanitary Sewer Collection

Overview

The City of Dubuque's Sanitary Sewer Collection system serves just less than 30 square miles of contiguous property, includes approximately 300 miles of piping, and over 7,000 manholes, with all sanitary waste processed by an upgraded wastewater treatment facility called the Water and Resource Recovery Center (W&RRC). Within the service area, homes and properties are served via a private sanitary sewer pipe or service lateral. The service lateral is owned by the private property owner. Wastewater from the estimated 21,000 private service connections is treated and cleaned prior to its release into the Mississippi River.

Collection system improvements are managed by the City's Engineering Department under the City Engineer. Operations and maintenance of the collection system are managed by the W&RRC and the Public Works Departments. Funding for operations, maintenance, and improvement projects is generated via revenues collected during monthly billings of private and public users. The funds are collected and maintained in an Enterprise Fund and are only available for work directly associated with the sanitary sewer collection system and its supporting departments.

This activity is highly called upon during emergency events and crises. Agency involvement may include the DNR and EPA.

Sanitary Sewer Collection Funding Summary			
	FY 2014/15 Actual	FY 2015/16 Adopted	FY 2016/17 Recommended
Expenditures	\$134,686	\$419,081	\$781,194
Resources	\$31	\$280,773	\$268,153

ENGINEERING DEPARTMENT

Sanitary Sewer Collection Position Summary	
	FY 2016/17 FTE's
Civil Engineer	0.15
Environmental Engineer	0.65
Engineering Technician	2.31
Survey Party Chief	0.15
Survey Technician	0.15
Utility Locator	0.34
Total FT Equivalent Employees	3.75

Highlight of the Past Year

Designed and implemented a sanitary sewer collection supervisory control and data acquisition (SCADA) system, for permanent flow metering. The system will allow flow meter data to be read via hand held devices including cell phones and tablets. Real time monitoring of the collection system will improve response times to problems in the system where flow monitoring devices are installed; data collection and trending can be analyzed by the engineering department to make further improvements to the collection system; and the W&RRC operations staff will benefit greatly from observing behavior in the collection system to make necessary advance preparations. Currently, one station is installed with four additional stations anticipated by spring of 2016.

Future Initiatives

- Maintain compliance with the USEPA, Iowa DNR, and US Department of Justice requirements as defined in the Consent Decree. In 2011, the City of Dubuque entered into a Consent Decree with the U.S. Department of Justice, the U.S. Environmental Protection Agency, and the State of Iowa. The Decree's Purpose is for the City to:
 - Take all **necessary measures** to achieve full compliance with the Clean Water Act
 - The Iowa water Pollution Control Laws, and
 - The City's NPDES Permit, with the goal of eliminating all Sanitary Sewer Overflows.

Performance Measures

Sanitary Sewer Collection – Activity Statement

Define and implement capital improvements to improve the City's existing sanitary sewer collection infrastructure and provide direction and standards for future expansion and connections to the system.

ENGINEERING DEPARTMENT



Goal: Environmental Integrity



Outcome #1: Reduce inflow and infiltration (I&I) into the sanitary sewer collection system and work to eliminate the source or secure the sanitary sewer from the source



Contractor eliminating leaking joints and improving the flow characteristics of a sanitary sewer by installing a new liner in the sewer.

In June 2011, the City of Dubuque began an Inflow and Infiltration (I&I) Program to reduce sanitary sewer overflows and sewer back-ups by eliminating storm water inflow and groundwater infiltration into the City's sanitary sewer collector system. As part of this effort, the City is rehabilitating through the method of cured-in-place pipe (CIPP) lining and grouting to eliminate infiltration of groundwater into the sanitary sewer system. The City plans to continue to line 10,000 lineal feet each year.

Did You Know?

It only takes eight (8) sump pumps operating at full capacity or six (6) homes with downspouts connected to an eight inch diameter sanitary sewer to cause the sewer to be overloaded leading to Sanitary Sewer overflows. The same eight inch sewer with no illegal sump pump or downspout connections would typically handle wastewater from up to 200 homes.

Outcome #2: Reduce incidents of Fats, Oils and Grease related SSO's through education, inspection, corrective action and enforcement



Measuring the depth of oil and grease in a sanitary sewer manhole

Fats, Oils, and Grease (FOG) Program

Implementing a fats, oils, and grease program is an important part of the City's compliance with its Sanitary Sewer Capacity, Management, Operation and Maintenance Program (CMOM). The City's CMOM program was developed as part of a required submission under the terms of the Consent Decree entered into by the City, the State of Iowa, and the United States in 2011. The primary objective of a FOG Program is to reduce incidents of FOG related SSO's through, education, inspection, corrective action, and enforcement.

ENGINEERING DEPARTMENT

Did you Know?

When hot or warm Fats, Oils, and Grease are poured down a drain it may appear that it would not clog a sewer, however, when the grease cools it becomes a solid that coats the inside of a sewer pipe restricting the flow of wastewater and without continuous maintenance can lead to violations of the Clean Water Act as a result of sanitary sewer overflows, in addition to costly sewer back-ups into homes and businesses.

Fats, Oils, and Grease Policy, Program, and Enforcement strategy is a City of Dubuque, Environmental/ Ecological Integrity Goal

Goal: Planned and Managed Growth

Outcome #3: Prepare for future expansion and sanitary sewer service needs.



Map showing the area served by the extension of sanitary sewer to the Dubuque Regional Airport.

The expansion of sanitary sewer south toward the airport provides the City with the foundational infrastructure needed for future utility extensions to serve the Granger Creek Sewershed consisting of over 5,700 acres. During 2015, construction started on the new sanitary sewer along highway 151/61, which has an anticipated completion date spring of 2016. During construction, the City was also presented with an opportunity to better serve the development of Twin Ridge. The extension of the utilities south enabled the logical transfer of both water and sanitary sewer ownership to the City and the advancement of the Lake Eleanor Lift Station for continued safe conveyance of sanitary wastewater.

ENGINEERING DEPARTMENT

Activity: Traffic Engineering

Overview

This Activity is responsible for overseeing the planning, inspection and daily operation of active projects for the movement of pedestrians, vehicular traffic, fiber optic expansion, street lighting, traffic signals, traffic controls, fiber optic and communications infrastructure, traffic and security cameras, traffic signage and pavement markings throughout the City and provides guidance to the Public Works Department. Other activities involve the review and recommendations for parking meter districts, residential parking districts and accessible parking spaces according to local, state and federal guidelines. This activity is highly called upon during emergency events and crises. Agency involvement with IDOT, FhWA, State Bureau of Transportation Safety.

Projects included, , , , as well as, fiber maintenance and extensions, traffic cameras, traffic counts, and pavement markings.

Traffic Engineering Funding Summary			
	FY 2014/15 Actual	FY 2015/16 Adopted	FY 2016/17 Recommended
Expenditures	\$52,783	\$20,708	\$52,088
Resources	\$0	\$13,943	\$1,112

Traffic Engineering Position Summary	
	FY 2016/17 FTE's
Traffic Engineering Assistant	1.00
Total FT Equivalent Employees	1.00

Highlights of the Past Year

- US Highway 61/151 Fiber Project from Grandview to Twin Valley
- John F. Kennedy at Wacker Drive Traffic Signalization Reconstruction Project
- Grandview and Loras Traffic Signals
- Grandview and University Traffic Signals
- Hwy 20 & Grandview Vehicle Detection and Signal Upgrade

Future Initiatives

- Continue work on safety grants
- Fiber maintenance and extensions
- Traffic Camera maintenance and additions
- Traffic Counts and Evaluating traffic patterns
- Update Pavement Markings

ENGINEERING DEPARTMENT

Performance Measures

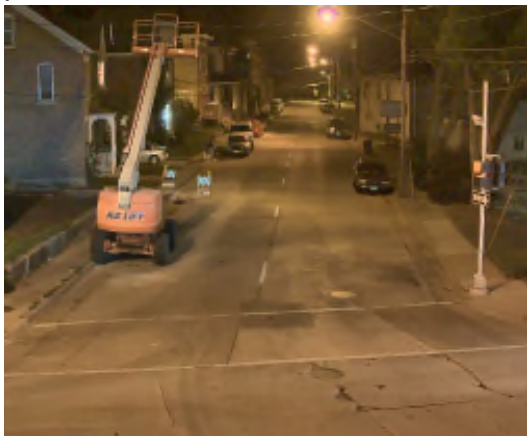
Traffic Engineering – Activity Statement

Overseeing planning for the movement of pedestrian and vehicular traffic to ensure the City's transportation infrastructure is in a state of good repair for the purposes of public safety and the efficient movement of people, goods and services.

Goal: Financially Responsible & High Performance Organization

Outcome #1: Reduce energy and maintenance costs as well as increase safety by replacing existing street lights with LED lighting.

This objective helps vehicles, bikes and pedestrians safely navigate the corridor by providing lighting that is evenly distributed. LED lighting is also more efficient and don't require the same maintenance as High Pressure Sodium Lights. The energy costs are reduced by 50% by using LED lights which last 20 years versus 5 to 6 years for high pressure sodium.



High Pressure Sodium Lighting



LED Lighting

Did you Know? The City of Dubuque meters 2109 street lights of which 239 are LED. The City has also been working with Alliant Energy to install LED lighting.



Goal: Improved Connectivity



Outcome #2: Provide a road network that ensures a high level of safety for vehicles, cyclists, and pedestrians.

Over the past couple of years the City of Dubuque has been installing microwave detection at intersections and continues to update several intersections each year. This system provides multiple benefits since it doesn't have to be replaced during roadway repairs and can detect vehicles and bikes.

ENGINEERING DEPARTMENT

Did you know?

Currently 20 intersections have microwave detection installed at them. Over the next year the City of Dubuque is planning on installing them at 4 additional intersections. In the future microwave detection will be installed at the rate of 3 to 4 intersections a year. Microwave detection improves the efficiency of the intersection. It allows the intersection to be very reactive at night when the volume of traffic is down since it can detect vehicles that are 140 feet away which will minimize the time spent at these traffic signals.

Outcome #3: Update traffic signalization infrastructure to Intelligent Transportation Systems (ITS) by providing improved levels of service and quicker response to signal and traffic control conditions and issues by connecting them to the Traffic Operations Center.



Intersection with microwave traffic detectors uninhibited by extreme weather conditions



Closeup of a microwave traffic detector

The system is interconnected by using fiber that connects to each intersection or key location and is connected into a switch to communicate to the equipment in the field. This allows the City of Dubuque make changes to the timings, detection or devices from the Traffic Operations Center. In case of unforeseen road closures in can be difficult to reach the intersections effected to make the necessary changes but could be made from the Traffic Operations Center and then sent to the equipment and can use cameras to monitor the situation.

Citizen Impact: This updated infrastructure has allowed the Traffic Engineering staff the ability to react faster to changing traffic conditions. Currently there are six different traffic management plans for the US 20 corridor to move traffic. With the coordinated traffic control in this corridor delays have been reduced so traffic may only stop at one intersection during peak traffic. This is in contrast to previous years where vehicles would be delayed at multiple intersections.

ENGINEERING DEPARTMENT

Outcome #4: Maintain and Seek new grants for Traffic Signal / Intersection Improvements.

The City of Dubuque traffic engineering department has successfully received many grants in the last 14 year to assist with roadway improvements. In the last few years the engineering department has received grants for the following that will be constructed starting the Summer of 2016 through the Fall of 2017;

- Grandview Ave at Loras Blvd signal reconstruction.
- Grandview Ave at University Ave intersection improvements.
- Grandview Ave at Delhi Roundabout project.
- NW Arterial at Pennsylvania westbound right turn lane improvement.
- NW Arterial at JFK eastbound right turn lane improvement.

Citizen Impact: This improved infrastructure will allow citizens to get through these intersections quicker and more safely. These grants often times pay for a majority of the project at minimal cost to the tax payer. These improvements also help cut vehicle emissions which is better for the environment and health of the city.

Outcome #5: Continued growth of traffic operation cameras and security cameras.

The City of Dubuque now has over 830 security cameras with over 430 of these on the public streets. These cameras record events for 30 days and are commonly used for the following;

- Observe traffic signal operations and allow engineers in the Traffic Operations Center to make changes to the signals remotely and view if the changes have the desired effect on traffic.
- Used during accidents to determine what happed before/during/after the accident along with assignment of fault.
- Used for investigations of criminal behavior.

Citizen Impact: These cameras help improve the traffic signal timings and operations which help keep the signals and other transportation systems at optimal efficiency which minimizes daily commute times. They are also relied upon by police during accident investigations and many citizens request video evidence of their accident to assist them with their claim. These security cameras also keep the citizens safer by assisting law enforcement.

Did you know?

The Traffic department for the City of Dubuque currently has over 32 miles of conduit installed and 20 miles of fiber. This fiber is also used for other City entities including police and fire, sanitary sewer flow metering, and wireless water meter program. This fiber is also the critical communications pathway for the over 800 cameras located throughout the city.

Recommended Operating Revenue Budget - Department Total 55 - ENGINEERING

Fund	Account	Account Title	FY14 Actual Revenue	FY15 Actual Revenue	FY16 Adopted Budget	FY17 Recomm'd Budget
100	42170	MISC-LICENSES	4,771	4,235	2,500	2,500
100	42225	DUMPSTER PERMITS	2,220	6,295	9,000	6,000
100	42240	EXCAVATION PERMITS	30,795	17,307	10,000	10,000
620	42260	PERMIT, MISC	11,070	3,545	14,000	10,843
100	42305	SIDEWALK PERMIT	10,884	7,135	7,500	7,000
100	42315	SUBDIV. INSPECTION FEE 3%	16,050	83,249	15,000	10,000
42 - LICENSES AND PERMITS			75,791	121,766	58,000	46,343
620	43110	INVESTMENT EARNINGS	11,930	12,669	12,000	10,000
100	43230	LEASE, PROPERTY	73,229	173,626	172,272	169,621
620	43230	LEASE, PROPERTY	0	4,968	0	0
100	43231	LEASE, RIVERFRONT	1,421,774	1,983,067	1,804,406	1,797,621
100	43233	SIDEWALK CAFE LEASES	450	800	800	1,000
100	43320	LEASE, WHARFAGE	33,878	121,750	68,600	87,000
100	43325	LEASE, OTHER	120	120	120	120
43 - USE OF MONEY AND PROPERTY			1,541,382	2,297,001	2,058,198	2,065,362
400	44100	BAB SUBSIDY NON GRANT	1,618	1,512	0	1,512
620	44100	BAB SUBSIDY NON GRANT	15,798	15,262	16,000	16,718
610	44405	FEMA PUBLIC ASSISTANCE	146,950	0	0	0
44 - INTERGOVERNMENTAL			164,366	16,774	16,000	18,230
620	51215	PENALTIES	25,856	26,530	24,000	27,060
610	51245	SEWER CONNECTION CHARGES	20,801	0	15,000	15,000
620	51805	STORMWATER USER FEE	3,166,532	3,379,403	3,744,531	4,070,141
620	51820	STORMWATER HALF RATE	23,940	29,893	27,821	31,908
51 - CHARGES FOR SERVICES			3,237,130	3,435,826	3,811,352	4,144,109
100	53403	IA DISTRICT COURT FINES	675	0	0	0
800	53530	SPECIALIZED SERVICES	2,309,531	2,403,684	2,129,767	2,048,069
100	53605	MISCELLANEOUS REVENUE	782	576	0	0
100	53610	INSURANCE CLAIMS	0	309	0	0
100	53615	DAMAGE CLAIMS	0	1,168	0	0
100	53620	REIMBURSEMENTS-GENERAL	526	355	1,500	350
610	53620	REIMBURSEMENTS-GENERAL	0	31	0	0
620	53630	SALES TAX COLLECTION	106,567	114,960	112,000	130,900
53 - MISCELLANEOUS			2,418,081	2,521,082	2,243,267	2,179,319
100	54105	LAND SALES	10,790	0	0	0
54 - OTHER FINANCING SOURCES			10,790	0	0	0
400	59100	FR GENERAL	556,721	566,659	560,668	561,175
400	59101	FR DRA GAMING	10,411	0	0	0
400	59240	FR DOWNTOWN TIF	365,304	365,086	361,253	361,729
400	59250	FR ROAD USE TAX	9,165	20,428	8,685	7,239
400	59300	FR STREET CONSTRUCTION	179,994	165,392	216,804	220,686
400	59340	FR SALES TAX INCREMENT	0	309,638	1,129,679	1,085,750
400	59350	FR SALES TAX CONSTRUCTION	15,676	14,123	29,725	35,030
620	59350	FR SALES TAX CONSTRUCTION	0	0	0	317,300

Recommended Operating Revenue Budget - Department Total
55 - ENGINEERING

Fund	Account	Account Title	FY14 Actual Revenue	FY15 Actual Revenue	FY16 Adopted Budget	FY17 Recomm'd Budget
100	59610	FR WPC OPERATING	144,356	163,718	105,996	242,877
100	59620	FR STORMWATER OPERATING	5,526	32,461	73,981	77,373
100	59640	FR WATER UTILITY	138,436	158,960	0	0
59 - TRANSFER IN AND INTERNAL			1,425,589	1,796,464	2,486,791	2,909,159
55 - ENGINEERING TOTAL			8,873,128	10,188,914	10,673,608	11,362,522

Recommended Operating Expenditure Budget - Department Total 55 - ENGINEERING

Fund	Account	Account Title	FY14 Actual Expense	FY15 Actual Expense	FY16 Adopted Budget	FY 17 Recomm'd Budget
100	61010	FULL-TIME EMPLOYEES	354,887	367,232	538,466	579,006
610	61010	FULL-TIME EMPLOYEES	15,111	14,941	62,703	63,413
620	61010	FULL-TIME EMPLOYEES	24,264	24,046	73,202	216,299
800	61010	FULL-TIME EMPLOYEES	1,486,860	1,548,172	1,324,843	1,222,324
100	61020	PART-TIME EMPLOYEES	0	831	0	0
800	61020	PART-TIME EMPLOYEES	61,549	87,067	49,854	52,444
100	61030	SEASONAL EMPLOYEES	4,994	5,666	8,070	8,242
800	61030	SEASONAL EMPLOYEES	73,614	55,517	102,026	104,208
100	61050	OVERTIME PAY	8,965	6,676	5,250	5,250
610	61050	OVERTIME PAY	671	545	0	0
620	61050	OVERTIME PAY	703	468	0	0
800	61050	OVERTIME PAY	56,142	53,967	54,250	54,250
100	61091	SICK LEAVE PAYOFF	12,571	13,417	13,417	13,417
100	61092	VACATION PAYOFF	2,386	0	0	0
800	61092	VACATION PAYOFF	0	1,755	0	0
100	61310	IPERS	32,623	33,501	49,276	52,909
610	61310	IPERS	1,409	1,380	5,599	5,663
620	61310	IPERS	2,227	2,189	6,536	19,315
800	61310	IPERS	147,118	153,883	136,719	127,984
100	61320	SOCIAL SECURITY	28,221	28,901	43,236	46,354
610	61320	SOCIAL SECURITY	1,170	1,136	4,796	4,851
620	61320	SOCIAL SECURITY	1,835	1,783	5,601	16,546
800	61320	SOCIAL SECURITY	123,060	127,500	117,118	109,645
100	61410	HEALTH INSURANCE	108,378	107,172	82,805	113,447
610	61410	HEALTH INSURANCE	14,441	14,280	12,480	15,741
620	61410	HEALTH INSURANCE	15,163	14,994	13,104	59,466
800	61410	HEALTH INSURANCE	302,458	299,094	259,771	304,247
100	61415	WORKMENS' COMPENSATION	18,603	20,440	21,768	17,488
610	61415	WORKMENS' COMPENSATION	2,248	2,883	3,107	2,916
620	61415	WORKMENS' COMPENSATION	3,136	2,790	2,918	3,061
800	61415	WORKMENS' COMPENSATION	42,559	53,834	57,651	56,288
100	61416	LIFE INSURANCE	266	274	1,076	1,160
610	61416	LIFE INSURANCE	14	13	125	127
620	61416	LIFE INSURANCE	20	19	146	433
800	61416	LIFE INSURANCE	1,213	1,311	2,649	2,444
800	61417	UNEMPLOYMENT INSURANCE	0	416	0	0
100	61640	SAFETY EQUIPMENT	244	417	500	500
100	61660	EMPLOYEE PHYSICALS	1,033	301	600	600
610	61660	EMPLOYEE PHYSICALS	258	0	0	0
620	61660	EMPLOYEE PHYSICALS	0	75	0	0
800	61660	EMPLOYEE PHYSICALS	685	932	0	0
61 - WAGES AND BENEFITS			2,951,102	3,049,816	3,059,662	3,280,038
100	62010	OFFICE SUPPLIES	7,964	7,518	5,358	7,133
620	62010	OFFICE SUPPLIES	92	0	0	0

Recommended Operating Expenditure Budget - Department Total 55 - ENGINEERING

Fund	Account	Account Title	FY14 Actual Expense	FY15 Actual Expense	FY16 Adopted Budget	FY 17 Recomm'd Budget
100	62030	POSTAGE AND SHIPPING	94	428	93	97
610	62030	POSTAGE AND SHIPPING	0	0	22	24
800	62030	POSTAGE AND SHIPPING	2,592	2,614	3,000	2,745
620	62036	CONSTRUCTION SUPPLIES	9	0	0	0
100	62050	OFFICE EQUIPMENT MAINT	0	0	200	200
100	62061	DP EQUIP. MAINT CONTRACTS	21,006	21,555	24,878	25,472
100	62090	PRINTING & BINDING	14	35	596	596
100	62110	COPYING/REPRODUCTION	12,645	6,356	10,819	6,482
800	62110	COPYING/REPRODUCTION	0	251	0	0
100	62130	LEGAL NOTICES & ADS	354	0	2,112	0
100	62170	SUBSCRIPTIONS-BOOKS-MAPS	2,026	2,096	3,376	3,376
250	62170	SUBSCRIPTIONS-BOOKS-MAPS	272	77	600	600
610	62170	SUBSCRIPTIONS-BOOKS-MAPS	0	0	120	120
620	62170	SUBSCRIPTIONS-BOOKS-MAPS	60	113	120	120
100	62190	DUES & MEMBERSHIPS	2,322	1,938	3,177	3,177
250	62190	DUES & MEMBERSHIPS	227	185	760	760
610	62190	DUES & MEMBERSHIPS	0	121	0	0
620	62190	DUES & MEMBERSHIPS	371	121	620	620
620	62204	REFUNDS	0	8,084	0	0
100	62206	PROPERTY INSURANCE	5,413	6,332	6,775	6,611
100	62208	GENERAL LIABILITY INSURAN	10,000	9,957	10,178	9,839
610	62208	GENERAL LIABILITY INSURAN	2,540	2,529	2,585	2,499
800	62208	GENERAL LIABILITY INSURAN	11,679	11,628	11,886	11,490
620	62210	SALES TAX	105,492	116,243	107,602	130,900
100	62211	PROPERTY TAX	109,666	114,082	175,602	168,458
100	62221	DAMAGE CLAIMS	0	1,168	0	0
100	62230	COURT COSTS & RECORD FEES	359	634	300	600
100	62310	TRAVEL-CONFERENCES	10,934	7,624	15,000	14,800
250	62310	TRAVEL-CONFERENCES	3,069	3,000	4,700	4,700
610	62310	TRAVEL-CONFERENCES	0	1,311	3,175	3,175
620	62310	TRAVEL-CONFERENCES	4,505	3,800	4,800	4,800
100	62320	TRAVEL-CITY BUSINESS	2,850	240	1,100	720
620	62320	TRAVEL-CITY BUSINESS	120	244	100	120
100	62340	MILEAGE/LOCAL TRANSP	92	52	400	400
100	62360	EDUCATION & TRAINING	2,234	3,660	24,956	24,696
250	62360	EDUCATION & TRAINING	6,801	1,889	4,500	4,500
610	62360	EDUCATION & TRAINING	169	2,269	9,250	13,200
620	62360	EDUCATION & TRAINING	835	326	4,245	4,245
100	62415	UTILITY EXPENSE STORMWATR	0	0	2,400	6,966
620	62419	UTILITY EXP-ELEC ST LTNG	1,422	1,448	0	0
100	62421	TELEPHONE	18,588	16,766	12,428	16,418
250	62421	TELEPHONE	2,258	3,524	915	1,255
610	62421	TELEPHONE	750	2,374	1,725	2,108
620	62421	TELEPHONE	186	192	1,325	655

Recommended Operating Expenditure Budget - Department Total 55 - ENGINEERING

Fund	Account	Account Title	FY14 Actual Expense	FY15 Actual Expense	FY16 Adopted Budget	FY 17 Recomm'd Budget
100	62422	TELEPHONE	880	776	0	0
100	62424	RADIO/PAGER FEE	1,596	1,815	1,600	6,966
100	62436	RENTAL OF SPACE	12,972	8,112	12,860	12,860
100	62511	FUEL, MOTOR VEHICLE	16,613	13,309	15,502	11,978
100	62521	MOTOR VEHICLE MAINT.	8,341	6,841	9,452	7,524
100	62528	MOTOR VEH. MAINT. OUTSOUR	449	1,493	1,530	1,774
100	62611	MACH/EQUIP MAINTENANCE	2,332	2,929	2,332	2,332
250	62611	MACH/EQUIP MAINTENANCE	48,172	19,150	36,700	46,700
620	62611	MACH/EQUIP MAINTENANCE	0	18	0	0
100	62614	EQUIP MAINT CONTRACT	0	0	1,480	1,480
610	62625	LIFT STATION MAINTENANCE	72,196	0	0	0
100	62663	SOFTWARE LICENSE EXP	30,908	25,320	20,596	20,602
250	62663	SOFTWARE LICENSE EXP	33,519	59,229	66,225	67,430
610	62663	SOFTWARE LICENSE EXP	2,863	998	9,515	9,870
620	62663	SOFTWARE LICENSE EXP	0	2,491	2,290	2,460
100	62664	LICENSE/PERMIT FEES	1,283	1,149	1,300	1,300
620	62664	LICENSE/PERMIT FEES	0	0	500	500
100	62667	INTERNET SERVICES	0	0	2,880	1,800
250	62667	INTERNET SERVICES	0	0	8,540	962
610	62667	INTERNET SERVICES	480	2,172	1,560	1,213
620	62667	INTERNET SERVICES	160	480	1,560	315
100	62671	MISC. OPERATING SUPPLIES	421	0	0	0
250	62671	MISC. OPERATING SUPPLIES	19	0	0	0
100	62683	FIELD OPERATIONS SUPPLIES	934	1,000	450	2,000
100	62696	OUTSIDE COLLECTOR EXPENSE	8	8	20	20
620	62696	OUTSIDE COLLECTOR EXPENSE	3,239	3,582	2,632	2,632
100	62713	LEGAL SERVICES	2,428	11,473	0	0
620	62713	LEGAL SERVICES	3,920	0	0	0
100	62716	CONSULTANT SERVICES	0	1,000	5,000	5,000
610	62716	CONSULTANT SERVICES	500	0	0	105,000
620	62716	CONSULTANT SERVICES	4,627	0	10,000	474,000
100	62726	AUDIT SERVICES	2,725	0	0	0
620	62726	AUDIT SERVICES	3,325	1,200	1,300	1,400
100	62731	MISCELLANEOUS SERVICES	10,056	44	0	0
610	62746	ONE CALL OPERATION	1,871	2,010	2,346	2,346
620	62746	ONE CALL OPERATION	1,628	2,010	2,346	2,346
100	62756	SPIRIT RELATED EXPENSE	70	0	500	500
100	62757	INSPECTION REIMBURSEMENT	5,281	19,376	14,500	65,000
100	62761	PAY TO OTHER AGENCY	45,816	10,000	52,159	53,023
620	62761	PAY TO OTHER AGENCY	0	0	0	44,532
620	62765	GRANTS	0	0	0	322,300
100	62811	ENG. DIVISION SERVICES	(16,894)	1,254	0	0
62 - SUPPLIES AND SERVICES			652,746	562,027	749,473	1,762,842
100	71110	MISC. OFFICE EQUIPMENT	0	0	0	2,500

Recommended Operating Expenditure Budget - Department Total 55 - ENGINEERING

Fund	Account	Account Title	FY14 Actual Expense	FY15 Actual Expense	FY16 Adopted Budget	FY 17 Recomm'd Budget
250	71110	MISC. OFFICE EQUIPMENT	12	0	0	0
100	71112	TYPEWRITERS	0	0	0	200
250	71112	TYPEWRITERS	269	0	0	200
100	71113	CALCULATORS	15	0	0	0
100	71118	PROJECTOR/CAMERA	0	3,000	500	1,000
250	71118	PROJECTOR/CAMERA	0	4,304	16,000	67,600
610	71118	PROJECTOR/CAMERA	0	0	200	0
620	71118	PROJECTOR/CAMERA	0	0	0	200
250	71120	PERIPHERALS, COMPUTER	7,561	11,531	10,512	0
100	71123	SOFTWARE	475	2,322	0	0
250	71124	MICRO-COMPUTER	0	969	0	8,000
250	71125	SERVERS	39,513	55,825	85,500	68,000
610	71156	FURNITURE	6,692	4,880	0	0
100	71211	DESKS/CHAIRS	886	653	2,000	2,000
100	71212	SIDE CHAIRS	688	0	0	0
100	71216	FURNITURE MISCELLANEOUS	1,028	0	0	0
100	71310	AUTO/JEEP REPLACEMENT	12,445	0	90,500	126,500
610	71310	AUTO/JEEP REPLACEMENT	0	0	18,000	0
620	71312	VAN/PICKUP/WAG REPL	0	12,196	0	0
100	71411	TRAFFIC CONTROL EQUIPMENT	0	0	36,680	13,120
250	71411	TRAFFIC CONTROL EQUIPMENT	21,956	16,623	86,100	79,500
100	71412	SURVEY EQUIPMENT	1,198	4,494	4,500	14,700
100	71413	LABORATORY EQUIPMENT	0	2,615	1,000	8,000
610	72113	OTHER SAFETY EQUIPMENT	842	6,150	400	3,600
620	72113	OTHER SAFETY EQUIPMENT	832	0	0	0
250	72414	TELEVISION	0	2,714	0	0
620	72414	TELEVISION	0	0	0	500
610	72415	ELECTRONIC DATA COLLECTOR	0	0	600	600
100	72418	TELEPHONE RELATED	151	2,160	180	5,965
250	72418	TELEPHONE RELATED	23	106	60	535
610	72418	TELEPHONE RELATED	0	0	0	1,575
620	72418	TELEPHONE RELATED	0	50	0	1,515
610	72510	FLOW TEST EQUIPMENT	0	0	15,000	20,000
100	72515	TEST EQUIPMENT, OTHER	0	7,787	320	0
71 - EQUIPMENT			94,585	138,380	368,052	425,810
610	73211	CONST.CONTR-NOT BLDG	0	0	0	270,000
73 - CIP EXPENDITURES			0	0	0	270,000
400	74111	PRINCIPAL PAYMENT	823,645	828,407	880,660	924,203
620	74111	PRINCIPAL PAYMENT	1,120,329	1,158,543	1,589,929	1,280,618
400	74112	INTEREST PAYMENT	315,244	612,764	1,426,154	1,348,918
620	74112	INTEREST PAYMENT	868,943	845,997	1,833,065	1,248,580
74 - DEBT SERVICE			3,128,161	3,445,711	5,729,808	4,802,319
620	91100	TO GENERAL	192,462	329,315	480,105	499,607

**Recommended Operating Expenditure Budget - Department Total
55 - ENGINEERING**

Fund	Account	Account Title	FY14 Actual Expense	FY15 Actual Expense	FY16 Adopted Budget	FY 17 Recomm'd Budget
400	91350	TO SALES TAX CONSTRUCTION	0	1,666	0	0
620	91720	TO STORM SEWER CONST	265,000	530,000	0	0
91 - TRANSFER TO			457,462	860,981	480,105	499,607
55 - ENGINEERING TOTAL			7,284,057	8,056,915	10,387,100	11,040,616

Recommended Expenditure Budget Report by Activity & Funding Source 55 - ENGINEERING

FEMA 2012 - 2073

FUNDING SOURCE: SEWAGE FACILITY OPERATION

Account	FY14 Actual Expense	FY15 Actual Expense	FY16 Adopted Budget	FY17 Recomm'd Budget
SUPPLIES AND SERVICES	72,196	0	0	0
FEMA 2012	72,196	0	0	0

ENGINEERING ADMIN. - 55100

FUNDING SOURCE: ENGINEERING SERVICE

Account	FY14 Actual Expense	FY15 Actual Expense	FY16 Adopted Budget	FY17 Recomm'd Budget
EQUIPMENT	1,867	2,845	24,000	27,625
SUPPLIES AND SERVICES	220,436	178,908	311,760	310,977
WAGES AND BENEFITS	1,956,419	2,045,735	591,803	487,021
ENGINEERING ADMIN.	2,178,722	2,227,488	927,563	825,623

PROJECT ENGINEERING - 55400

FUNDING SOURCE: DEBT SERVICE

Account	FY14 Actual Expense	FY15 Actual Expense	FY16 Adopted Budget	FY17 Recomm'd Budget
CIP EXPENDITURES	0	0	0	270,000
DEBT SERVICE	1,138,889	1,131,534	1,177,135	1,187,371
EQUIPMENT	86,664	123,289	339,492	365,910
SUPPLIES AND SERVICES	167,317	218,903	292,302	444,447
TRANSFER TO	0	1,666	0	0
WAGES AND BENEFITS	659,436	645,194	1,515,832	1,554,395
PROJECT ENGINEERING	2,052,306	2,120,585	3,324,761	3,822,123

FELDERMAN SUBDIV - 55404

FUNDING SOURCE: GENERAL

Account	FY14 Actual Expense	FY15 Actual Expense	FY16 Adopted Budget	FY17 Recomm'd Budget
WAGES AND BENEFITS	263	73	0	0
FELDERMAN SUBDIV	263	73	0	0

ASBURY PLAZA - 12 - 55406

FUNDING SOURCE: GENERAL

Account	FY14 Actual Expense	FY15 Actual Expense	FY16 Adopted Budget	FY17 Recomm'd Budget
WAGES AND BENEFITS	264	111	0	0
ASBURY PLAZA - 12	264	111	0	0

ASBURY BUSINESS PARK 2 - 55408

FUNDING SOURCE: GENERAL

Account	FY14 Actual Expense	FY15 Actual Expense	FY16 Adopted Budget	FY17 Recomm'd Budget
WAGES AND BENEFITS	0	57	0	0
ASBURY BUSINESS PARK 2	0	57	0	0

WINGATE PLACE NO 3 - 55410

FUNDING SOURCE: GENERAL

Account	FY14 Actual Expense	FY15 Actual Expense	FY16 Adopted Budget	FY17 Recomm'd Budget
SUPPLIES AND SERVICES	360	0	0	0

Recommended Expenditure Budget Report by Activity & Funding Source 55 - ENGINEERING

Account	FY14 Actual Expense	FY15 Actual Expense	FY16 Adopted Budget	FY17 Recomm'd Budget
WAGES AND BENEFITS	216	38	0	0
WINGATE PLACE NO 3	576	38	0	0

ENGLISH RIDGE - 55412

FUNDING SOURCE: GENERAL

Account	FY14 Actual Expense	FY15 Actual Expense	FY16 Adopted Budget	FY17 Recomm'd Budget
WAGES AND BENEFITS	2,960	1,539	0	0
ENGLISH RIDGE	2,960	1,539	0	0

HARVEST VIEW 5TH - 55413

FUNDING SOURCE: GENERAL

Account	FY14 Actual Expense	FY15 Actual Expense	FY16 Adopted Budget	FY17 Recomm'd Budget
SUPPLIES AND SERVICES	6,789	876	0	0
WAGES AND BENEFITS	1,171	276	0	0
HARVEST VIEW 5TH	7,961	1,153	0	0

N GRANDVIEW ESTATES - 55414

FUNDING SOURCE: GENERAL

Account	FY14 Actual Expense	FY15 Actual Expense	FY16 Adopted Budget	FY17 Recomm'd Budget
WAGES AND BENEFITS	185	0	0	0
N GRANDVIEW ESTATES	185	0	0	0

PEBBLE COVE - 55415

FUNDING SOURCE: GENERAL

Account	FY14 Actual Expense	FY15 Actual Expense	FY16 Adopted Budget	FY17 Recomm'd Budget
WAGES AND BENEFITS	111	107	0	0
PEBBLE COVE	111	107	0	0

SEIPPEL RD COMM'L PARK - 55416

FUNDING SOURCE: GENERAL

Account	FY14 Actual Expense	FY15 Actual Expense	FY16 Adopted Budget	FY17 Recomm'd Budget
SUPPLIES AND SERVICES	609	0	0	0
WAGES AND BENEFITS	496	0	0	0
SEIPPEL RD COMM'L PARK	1,105	0	0	0

TIMBER-HYRST PHASE I - 55418

FUNDING SOURCE: GENERAL

Account	FY14 Actual Expense	FY15 Actual Expense	FY16 Adopted Budget	FY17 Recomm'd Budget
WAGES AND BENEFITS	675	2,022	0	0
TIMBER-HYRST PHASE I	675	2,022	0	0

TIMBER-HYRST PHASE II - 55419

FUNDING SOURCE: GENERAL

Account	FY14 Actual Expense	FY15 Actual Expense	FY16 Adopted Budget	FY17 Recomm'd Budget
SUPPLIES AND SERVICES	0	2,191	0	0
WAGES AND BENEFITS	490	461	0	0
TIMBER-HYRST PHASE II	490	2,652	0	0

Recommended Expenditure Budget Report by Activity & Funding Source 55 - ENGINEERING

WESTBROOK - 55420

FUNDING SOURCE: GENERAL

Account	FY14 Actual Expense	FY15 Actual Expense	FY16 Adopted Budget	FY17 Recomm'd Budget
WAGES AND BENEFITS	34	0	0	0
WESTBROOK	34	0	0	0

WYNSTONE - 55421

FUNDING SOURCE: GENERAL

Account	FY14 Actual Expense	FY15 Actual Expense	FY16 Adopted Budget	FY17 Recomm'd Budget
SUPPLIES AND SERVICES	37	(886)	0	0
WAGES AND BENEFITS	280	11,855	0	0
WYNSTONE	317	10,969	0	0

HARVEST VIEW #6 - 55422

FUNDING SOURCE: GENERAL

Account	FY14 Actual Expense	FY15 Actual Expense	FY16 Adopted Budget	FY17 Recomm'd Budget
SUPPLIES AND SERVICES	1,887	0	0	0
WAGES AND BENEFITS	289	0	0	0
HARVEST VIEW #6	2,176	0	0	0

STONEBROOK - 55424

FUNDING SOURCE: GENERAL

Account	FY14 Actual Expense	FY15 Actual Expense	FY16 Adopted Budget	FY17 Recomm'd Budget
WAGES AND BENEFITS	1,505	424	0	0
STONEBROOK	1,505	424	0	0

SANITARY SEWER INT SERV - 55610

FUNDING SOURCE: ENGINEERING SERVICE

Account	FY14 Actual Expense	FY15 Actual Expense	FY16 Adopted Budget	FY17 Recomm'd Budget
WAGES AND BENEFITS	74,677	74,696	265,773	253,153
SANITARY SEWER INT SERV	74,677	74,696	265,773	253,153

STORMWATER UTILITY O&M - 55620

FUNDING SOURCE: ENGINEERING SERVICE

Account	FY14 Actual Expense	FY15 Actual Expense	FY16 Adopted Budget	FY17 Recomm'd Budget
DEBT SERVICE	1,989,272	2,004,540	3,422,994	2,529,198
EQUIPMENT	832	12,246	0	2,215
SUPPLIES AND SERVICES	129,991	140,519	139,440	517,945
TRANSFER TO	457,462	859,315	480,105	499,607
WAGES AND BENEFITS	226,939	235,959	676,077	978,914
STORMWATER UTILITY O&M	2,804,496	3,252,579	4,718,616	4,527,879

TRAFFIC ENGINEERING - 55700

FUNDING SOURCE: ENGINEERING SERVICE

Account	FY14 Actual Expense	FY15 Actual Expense	FY16 Adopted Budget	FY17 Recomm'd Budget
EQUIPMENT	5,222	0	4,560	30,060
SUPPLIES AND SERVICES	53,124	21,516	5,971	15,473

Recommended Expenditure Budget Report by Activity & Funding Source 55 - ENGINEERING

Account	FY14 Actual Expense	FY15 Actual Expense	FY16 Adopted Budget	FY17 Recomm'd Budget
WAGES AND BENEFITS	24,692	31,268	10,177	6,555
TRAFFIC ENGINEERING	83,037	52,783	20,708	52,088

NPDES DISCHARGE ELIM SYST- 55750

FUNDING SOURCE: STORM WATER OPERATION

Account	FY14 Actual Expense	FY15 Actual Expense	FY16 Adopted Budget	FY17 Recomm'd Budget
SUPPLIES AND SERVICES	0	0	0	10,000
NPDES DISCHARGE ELIM SYST	0	0	0	10,000

NPDES EROSION & SED CONTR- 55751

FUNDING SOURCE: STORM WATER OPERATION

Account	FY14 Actual Expense	FY15 Actual Expense	FY16 Adopted Budget	FY17 Recomm'd Budget
SUPPLIES AND SERVICES	0	0	0	40,000
NPDES EROSION & SED CONTR	0	0	0	40,000

NPDES DISCHARGE DETECTION- 55752

FUNDING SOURCE: STORM WATER OPERATION

Account	FY14 Actual Expense	FY15 Actual Expense	FY16 Adopted Budget	FY17 Recomm'd Budget
SUPPLIES AND SERVICES	0	0	0	10,000
NPDES DISCHARGE DETECTION	0	0	0	10,000

NPDES MUNICIPAL OPERATION- 55753

FUNDING SOURCE: STORM WATER OPERATION

Account	FY14 Actual Expense	FY15 Actual Expense	FY16 Adopted Budget	FY17 Recomm'd Budget
SUPPLIES AND SERVICES	0	0	0	10,000
NPDES MUNICIPAL OPERATION	0	0	0	10,000

NPDES PUBLIC EDUCATION - 55754

FUNDING SOURCE: STORM WATER OPERATION

Account	FY14 Actual Expense	FY15 Actual Expense	FY16 Adopted Budget	FY17 Recomm'd Budget
SUPPLIES AND SERVICES	0	0	0	10,000
NPDES PUBLIC EDUCATION	0	0	0	10,000

NPDES PUBLIC PARTICIPATIO- 55755

FUNDING SOURCE: STORM WATER OPERATION

Account	FY14 Actual Expense	FY15 Actual Expense	FY16 Adopted Budget	FY17 Recomm'd Budget
SUPPLIES AND SERVICES	0	0	0	10,000
NPDES PUBLIC PARTICIPATIO	0	0	0	10,000

NPDES POST CONSTRUCTION - 55756

Recommended Expenditure Budget Report by Activity & Funding Source 55 - ENGINEERING

FUNDING SOURCE: STORM WATER OPERATION

Account	FY14 Actual Expense	FY15 Actual Expense	FY16 Adopted Budget	FY17 Recomm'd Budget
SUPPLIES AND SERVICES	0	0	0	50,000
NPDES POST CONSTRUCTION	0	0	0	50,000

SALES TAX INCR DEBT - 55800

FUNDING SOURCE: DEBT SERVICE

Account	FY14 Actual Expense	FY15 Actual Expense	FY16 Adopted Budget	FY17 Recomm'd Budget
DEBT SERVICE	0	309,638	1,129,679	1,085,750
SALES TAX INCR DEBT	0	309,638	1,129,679	1,085,750

STORMWATER I & I PREVENT - 55900

FUNDING SOURCE: STORM WATER OPERATION

Account	FY14 Actual Expense	FY15 Actual Expense	FY16 Adopted Budget	FY17 Recomm'd Budget
SUPPLIES AND SERVICES	0	0	0	200,000
STORMWATER I & I PREVENT	0	0	0	200,000

STORMWATER DITCH REMEDIAT- 55910

FUNDING SOURCE: STORM WATER OPERATION

Account	FY14 Actual Expense	FY15 Actual Expense	FY16 Adopted Budget	FY17 Recomm'd Budget
SUPPLIES AND SERVICES	0	0	0	40,000
STORMWATER DITCH REMEDIAT	0	0	0	40,000

STREAMBANK REHAB ASSIST - 55911

FUNDING SOURCE: STORM WATER OPERATION

Account	FY14 Actual Expense	FY15 Actual Expense	FY16 Adopted Budget	FY17 Recomm'd Budget
SUPPLIES AND SERVICES	0	0	0	5,000
STREAMBANK REHAB ASSIST	0	0	0	5,000

DETENTION BASIN MAINTENAN- 55920

FUNDING SOURCE: STORM WATER OPERATION

Account	FY14 Actual Expense	FY15 Actual Expense	FY16 Adopted Budget	FY17 Recomm'd Budget
SUPPLIES AND SERVICES	0	0	0	59,000
DETENTION BASIN MAINTENAN	0	0	0	59,000

STORM SEWER INSP & CLEAN - 55930

FUNDING SOURCE: STORM WATER OPERATION

Account	FY14 Actual Expense	FY15 Actual Expense	FY16 Adopted Budget	FY17 Recomm'd Budget
SUPPLIES AND SERVICES	0	0	0	30,000
STORM SEWER INSP & CLEAN	0	0	0	30,000
ENGINEERING TOTAL	\$7,284,056.61	\$8,056,914.82	\$10,387,100.00	\$11,040,616.00

CITY OF DUBUQUE, IOWA
DEPARTMENT DETAIL - PERSONNEL COMPLEMENT

55 ENGINEERING DEPARTMENT

FD	JC	WP-GR	JOB CLASS	FY 2015		FY 2016		FY 2017	
				FTE	BUDGET	FTE	BUDGET	FTE	BUDGET
61010 Full Time Employee Expense									
100	9425	GE-44	CITY ENGINEER	0.75	97,702	0.75	98,029	0.75	100,154
800	9425	GE-44	CITY ENGINEER	0.25	32,567	0.25	32,676	0.25	33,385
100	3125	GE-40	ASSISTANT CITY ENGINEER	0.25	25,524	0.25	25,863	0.25	26,421
800	3125	GE-40	ASSISTANT CITY ENGINEER	0.75	68,839	0.75	69,754	0.75	71,262
100	4060	GE-40	PROJECT MANAGER	0.16	16,016	0.16	16,231	0.16	16,581
800	4060	GE-40	PROJECT MANAGER	0.84	84,081	0.84	85,214	0.84	87,049
620	5525	GE-38	CIVIL ENGINEER II	0.25	22,946	0.25	23,251	0.25	23,754
100	5525	GE-38	CIVIL ENGINEER II	1.10	99,975	1.10	100,861	1.10	103,185
800	5525	GE-38	CIVIL ENGINEER II	2.65	241,883	2.65	243,390	2.65	238,623
610	2230	GE-35	ENVIRONMENTAL ENGINEER	0.15	13,497	0.15	13,544	0.15	13,837
620	2230	GE-35	ENVIRONMENTAL ENGINEER	0.10	8,999	0.10	9,030	0.10	9,225
800	2230	GE-35	ENVIRONMENTAL ENGINEER	0.75	67,489	0.75	67,722	0.75	69,186
100	5700	GE-36	SURVEYOR	0.80	60,238	0.80	58,690	0.80	63,244
800	5700	GE-36	SURVEYOR	0.20	15,070	0.20	14,631	0.20	15,811
100	5550	GE-33	TRAFFIC ENGINEERING ASSISTANT	0.87	62,881	0.87	0	0.87	0
800	5550	GE-33	TRAFFIC ENGINEERING ASSISTANT	0.13	9,396	0.13	0	0.13	0
100	5575	GE-33	SURVEY PARTY CHIEF	0.15	10,532	0.15	10,670	0.15	10,900
800	5575	GE-33	SURVEY PARTY CHIEF	0.85	59,680	0.85	60,465	0.85	61,768
100	2700	GE-31	ENGINEERING ASSISTANT II	1.15	73,783	1.15	74,759	1.15	76,363
800	2700	GE-31	ENGINEERING ASSISTANT II	0.85	54,186	0.85	54,906	0.85	56,083
100	2700	GE-31	ENGINEERING TECHNICAN	1.50	96,072	1.50	98,384	2.00	133,880
610	2700	GE-31	ENGINEERING TECHNICAN	0.51	31,529	0.51	31,957	0.50	32,002
620	2700	GE-31	ENGINEERING TECHNICAN	0.36	22,353	0.36	22,782	1.05	67,869
800	2700	GE-31	ENGINEERING TECHNICAN	7.63	482,209	7.63	491,140	7.45	477,650
100	2725	GE-30	SURVEY TECHNICIAN	0.15	8,962	0.15	9,077	0.15	9,275
800	2725	GE-30	SURVEY TECHNICIAN	0.85	51,109	0.85	51,436	0.85	52,558
610	4870	GE-28	UTILITY LOCATOR	0.34	16,977	0.34	17,202	0.34	17,574
620	4870	GE-28	UTILITY LOCATOR	0.34	17,899	0.34	18,139	0.34	18,527
800	4870	GE-28	UTILITY LOCATOR	0.32	16,846	0.32	17,071	0.32	17,438
620		GE-26	I&I INSPECTOR	2.00	90,239	2.00	90,536	2.00	96,924
100	0225	GE-25	SECRETARY	0.55	25,158	0.55	25,246	0.55	25,794
800	0225	GE-25	SECRETARY	0.45	20,584	0.45	20,656	0.45	21,104
100	1000	GE-25	CONFIDENTIAL ACCOUNT CLERK	0.45	20,382	0.45	20,656	0.45	16,697
800	1000	GE-25	CONFIDENTIAL ACCOUNT CLERK	0.55	24,911	0.55	25,246	0.55	20,407
TOTAL FULL TIME EMPLOYEES				29.00	2,050,515	29.00	1,999,214	30.00	2,084,530

CITY OF DUBUQUE, IOWA
DEPARTMENT DETAIL - PERSONNEL COMPLEMENT

55 ENGINEERING DEPARTMENT

FD	JC	WP-GR	JOB CLASS	FY 2015		FY 2016		FY 2017	
				FTE	BUDGET	FTE	BUDGET	FTE	BUDGET
61020 Part-Time Employee Expense									
800	1000	GE-25	CONFIDENTIAL ACCOUNT CLERK	1.37	49,681	1.37	49,854	1.37	52,444
			TOTAL PART TIME EMPLOYEES	1.37	49,681	1.37	49,854	1.37	52,444
61030 Seasonal Employee Expense									
100	5325	NA-34	ENGINEERING AIDE-SEASONAL	0.25	8,038	0.25	8,070	0.25	8,242
800	5325	NA-46	ENGINEERING ASSIST-SEASONAL	2.00	69,615	2.00	69,746	0.50	21,788
800	5325	NA-34	ENGINEERING AIDE-SEASONAL	1.00	32,151	1.00	32,280	2.50	82,420
			TOTAL SEASONAL EMPLOYEES	3.25	109,804	3.25	110,096	3.25	112,450
TOTAL ENGINEERING				33.62	2,210,000	33.62	2,159,164	34.62	2,249,424

CITY OF DUBUQUE, IOWA
ACTIVITY PERSONNEL COMPLEMENT SUMMARY

Run Date: 01/22/16

ACCT	FD	JC	WP-GR	POSITION CLASS	FY 2015		FY 2016		FY 2017		
					FTE	BUDGET	FTE	BUDGET	FTE	BUDGET	
Engineering Administration-FT General Fund											
10055100	61010	100	0225	GE-25	SECRETARY	0.55	25,158	0.55	25,246	0.55	25,794
10055100	61010	100	1000	GE-25	CONFIDENTIAL ACCOUNT CLERK	0.45	20,382	0.45	20,656	0.45	16,697
10055100	61010	100	3125	GE-40	ASSISTANT CITY ENGINEER	0.25	25,524	0.25	25,863	0.25	26,421
10055100	61010	100	4060	GE-40	PROJECT MANAGER	0.16	16,016	0.16	16,231	0.16	16,581
10055100	61010	100	9425	GE-44	CITY ENGINEER	0.75	97,702	0.75	98,029	0.75	100,154
Total						2.16	184,782	2.16	186,025	2.16	185,647
Engineering Administration-FT Service Fund											
80055100	61010	800	1000	GE-25	CONFIDENTIAL ACCOUNT CLERK	0.55	24,911	0.55	25,246	0.55	20,407
80055100	61010	800	3125	GE-38	ASSISTANT CITY ENGINEER	0.75	68,839	0.75	69,754	0.75	71,262
80055100	61010	800	4060	GE-40	PROJECT MANAGER	0.84	84,081	0.84	85,214	0.10	10,363
80055100	61010	800	0225	GE-25	SECRETARY	0.45	20,584	0.45	20,656	0.45	21,104
80055100	61010	800	9425	GE-44	CITY ENGINEER	0.25	32,567	0.25	32,676	0.25	33,385
Total						2.84	230,983	2.84	233,546	2.10	156,521
Engineering Administration-PT Service Fund											
80055100	61020	800	1000	GE-25	CONFIDENTIAL ACCOUNT CLERK	0.75	27,148	0.75	27,243	0.30	11,739
Total						0.75	27,148	0.75	27,243	0.30	11,739
Project Engineering-FT General Fund											
10055400	61010	100	2700	GE-31	ENGINEERING ASSISTANT II	1.15	73,783	1.15	74,759	1.15	76,363
10055400	61010	100	2220	GE-31	ENGINEERING TECHNICIAN	1.50	96,072	1.50	98,384	2.00	133,880
10055400	61010	100	2725	GE-30	SURVEY TECHNICIAN	0.15	8,962	0.15	9,077	0.15	9,275
10055400	61010	100	5575	GE-33	SURVEY PARTY CHIEF	0.15	10,532	0.15	10,670	0.15	10,900
10055400	61010	100	5525	GE-38	CIVIL ENGINEER II	1.10	99,975	1.10	100,861	1.10	103,185
10055400	61010	100	5700	GE-36	SURVEYOR	0.80	60,238	0.80	58,690	0.80	63,244
Total						4.85	349,563	4.85	352,441	5.35	396,847
Project Engineering-Seasonal General Fund											
10055400	61030	100	5325	NA-34	ENGINEERING AIDE-SEASONAL	0.25	8,038	0.25	8,070	0.25	8,242
Total						0.25	8,038	0.25	8,070	0.25	8,242
Project Engineering-FT Service Fund											
80055400	61010	800	4870	GE-28	UTILITY LOCATOR	0.32	16,846	0.32	17,071	0.32	17,438
80055400	61010	800	2700	GE-31	ENGINEERING ASSISTANT II	0.85	54,186	0.85	54,906	0.35	23,131
80055400	61010	800	2220	GE-31	ENGINEERING TECHNICIAN	3.90	251,100	3.90	256,674	3.40	230,160
80055400	61010	800	2725	GE-30	SURVEY TECHNICIAN	0.55	33,184	0.55	33,282	0.55	34,008
80055400	61010	800	5575	GE-33	SURVEY PARTY CHIEF	0.55	38,617	0.55	39,125	0.55	39,968
80055400	61010	800	5525	GE-38	CIVIL ENGINEER II	1.90	173,043	1.90	173,638	1.90	167,362
80055400	61010	800	5700	GE-36	SURVEYOR	0.20	15,070	0.20	14,631	0.20	15,811
Total						8.27	582,046	8.27	589,327	7.27	527,878
Project Engineering-Seasonal Service Fund											
80055400	61030	800	5325	NA-34	ENGINEERING AIDE-SEASONAL	1.00	32,151	1.00	32,280	1.00	32,968
Total						1.00	32,151	1.00	32,280	1.00	32,968
Traffic Engineering-FT General Fund											
10055700	61010	100	5550	GE-33	TRAFFIC ENGINEERING ASSISTANT	0.87	62,881	0.87	0	0.87	0
Total						0.87	62,881	0.87	0	0.87	0

**CITY OF DUBUQUE, IOWA
ACTIVITY PERSONNEL COMPLEMENT SUMMARY**

Run Date: 01/22/16

ACCT	FD	JC	WP-GR	POSITION CLASS	FY 2015		FY 2016		FY 2017		
					FTE	BUDGET	FTE	BUDGET	FTE	BUDGET	
Traffic Engineering-FT Service Fund											
80055700	61010	800	5550	GE-33	TRAFFIC ENGINEERING ASSISTANT	0.13	9,396	0.13	0	0.13	0
Total						0.13	9,396	0.13	0	0.13	0
Project Engineering-FT Sewer Fund											
61055400	61010	610		GE-35	ENVIRONMENTAL ENGINEER	0.15	13,497	0.15	13,544	0.15	13,837
61055400	61010	610	4870	GE-28	UTILITY LOCATOR	0.34	16,977	0.34	17,202	0.34	17,574
61055400	61010	610	2220	GE-31	ENGINEERING TECHNICIAN	0.51	31,529	0.51	31,957	0.50	32,002
Total						1.00	62,003	1.00	62,703	0.99	63,413
Sanitary Utility -FT Service Fund											
80055610	61010	800	5525	GE-38	CIVIL ENGINEER II	0.15	13,767	0.15	13,950	0.15	14,252
80055610	61010	800	2220	GE-31	ENGINEERING TECHNICIAN	1.80	111,276	1.80	112,791	1.50	96,007
80055610	61010	800	2725	GE-30	SURVEY TECHNICIAN	0.15	8,962	0.15	9,077	0.15	9,275
80055610	61010	800	5575	GE-33	SURVEY PARTY CHIEF	0.15	10,532	0.15	10,670	0.15	10,900
80055610	61010	800		GE-35	ENVIRONMENTAL ENGINEER	0.50	44,993	0.50	45,148	0.50	46,124
Total						2.75	189,531	2.75	191,636	2.45	176,558
Project Engineering-FT Stormwater Fund											
62055620	61010	620	2220	GE-31	ENGINEERING TECHNICIAN	0.36	22,353	0.36	22,782	1.05	67,869
62055620	61010	620	4870	GE-28	UTILITY LOCATOR	0.34	17,899	0.34	18,139	0.34	18,527
62055620	61010	620		GE-35	ENVIRONMENTAL ENGINEER	0.10	8,999	0.10	9,030	0.10	9,225
62055620	61010	620		GE-26	I&I INSPECTOR	0.00	0	0.00	0	2.00	96,924
62055620	61010	620	1900	GE-38	CIVIL ENGINEER II	0.25	22,946	0.25	23,251	0.25	23,754
Total						1.05	72,197	1.05	73,202	3.74	216,299
Stormwater Utility -FT Service Fund											
80055620	61010	800	5525	GE-38	CIVIL ENGINEER II	0.60	55,072	0.60	55,802	0.60	57,009
80055620	61010	800	2220	GE-31	ENGINEERING TECHNICIAN	1.93	119,833	1.93	121,675	2.55	151,483
80055620	61010	800		GE-35	ENVIRONMENTAL ENGINEER	0.25	22,496	0.25	22,574	0.25	23,062
80055620	61010	800		GE-31	ENGINEERING ASST II	0.00	0	0.00	0	0.50	32,952
80055620	61010	800	2725	GE-30	SURVEY TECHNICIAN	0.15	8,962	0.15	9,077	0.15	9,275
80055620	61010	800		GE-40	PROJECT MANAGER	0.00	0	0.00	0	0.74	76,686
80055620	61010	800	5575	GE-33	SURVEY PARTY CHIEF	0.15	10,532	0.15	10,670	0.15	10,900
80055620	61010	800		GE-26	I&I INSPECTOR	2.00	90,239	2.00	90,536	0.00	0
Total						5.08	307,134	5.08	310,334	4.94	361,367
Stormwater Utility -PT Service Fund											
80055620	61020	800	1000	GE-25	CONFIDENTIAL ACCOUNT CLERK	0.62	22,533	0.62	22,611	1.07	40,705
Total						0.62	22,533	0.62	22,611	1.07	40,705
Stormwater Utility -Seasonal Service Fund											
80055620	61030	800		NA-34	ENGINEERING AIDE-SEASONAL	1.50	48,705	1.50	48,705	1.50	49,452
80055620	61030	800	5325	NA-46	ENGINEERING ASSIST-SEASONAL	0.50	20,910	0.50	21,041	0.50	21,788
Total						2.00	69,615	2.00	69,746	2.00	71,240
TOTAL ENGINEERING DIVISION						33.62	2,210,000	33.62	2,159,164	34.62	2,249,424

Capital Improvement Projects by Department/Division

ENGINEERING						
CIP Number	Capital Improvement Project Title	FY 14 Actual Expense	FY 15 Actual Expense	FY 16 Adopted Budget	FY 17 Recomm'd Budget	
1001108	SIDEWALK REPAIR/MAINTENAN	6,334	4,812	34,650	30,000	
1001141	LIBRARY RENOVATION	11,112	0	0	0	
1001841	FEDERAL BUILDING RENOVTN	-213	0	0	0	
1001857	UTILITY FRANSHICE ANALYSI	0	0	0	0	
1001963	RIVERWALK SECURITY CAMERA	4,018	0	0	0	
1002086	HEEB STREET WALL	448	0	0	0	
1002494	DT SECURITY CAMERAS	116,205	0	0	0	
1002495	MILLER PROPERTY ACQ	152,443	2,676	0	0	
1002502	ELM COMPLETE STREET	573,769	30,407	0	0	
1011023	INTERSECTION PREEMPTION	188	4,462	0	0	
1011919	RECON SIGNALS/JFK-WACKER	49,350	0	0	0	
1011922	SAFE ROUTES TO SCHOOL	77,566	0	0	0	
1012330	PORT OF DBQ - LEASEHLD	1,974	0	0	0	
1012419	FLOOD PLAIN BUYOUT	27,815	0	0	0	
1021023	INTERSECTION PREEMPTION	344	934	0	0	
1021029	STONE RETAINING WALLS	484	0	0	0	
1021041	CURB/CATCH BASIN REPL	74,797	25,889	0	0	
1021425	SIDEWALK PROGRAM CITY OWN	75,383	0	0	0	
1021466	HARBOR AREA MAINTENANCE	141,500	1,910	0	0	
1021512	TOURISM SIGNAGE PROGRAM	25,286	0	0	0	
1021608	DWNTWN ST LIGHT REPLACMNT	44,190	0	0	0	
1021609	FIBER OPT CON-PRIV & MISC	3,701	23,870	0	0	
1021630	DECORATIVE CONCRETE MAINT	6,015	1,170	0	0	
1021841	FEDERAL BUILDING RENOVTN	9,055	0	0	0	
1021857	UTILITY FRANCHISE ANALYSI	226,409	98,147	0	0	
1021963	RIVERWALK SECURITY CAMERA	0	0	10,000	10,000	
1022330	PORT OF DBQ - LEASEHLD	10,941	0	0	0	
1022673	16TH ST DET BASIN TRAIL	0	0	0	30,000	
1022674	KERPER BLVD FIBER AND CAM	0	0	0	195,000	
2501017	FIBER OPTIC CONDUIT PROJ	31,376	334	0	0	
2501077	BRUNSKILL RD BRIDGE REPLC	16,160	25,565	0	0	
2501228	TRAFFIC SIGNAL COORDINATI	0	0	0	0	
2501916	LED RE-LAMP SCHEDULE	0	4,263	0	0	
2502026	RAILROAD CROSS IMPROV	23,965	0	0	0	
2502253	ITS TRAFFIC CONTROL EQUIP	0	0	25,000	25,000	
2601236	WHEEL CHAIR RAMPS	27,210	42,336	12,600	12,600	
2601239	NEIGHBORHOOD REL IMPROVEM	5,919	11,075	13,400	13,400	
2622044	GREEN ALLEY PILOT PROJECT	8	0	0	0	
3001011	SIGNALIZATION PROGRAM	84,199	52,362	40,000	80,000	
3001017	FIBER OPTIC CONDUIT PROJ	31,129	0	0	0	
3001023	INTERSECTION PREEMPTION	0	0	6,000	6,000	
3001027	GUARDRAIL REPLACEMENT	0	1,400	25,000	10,000	
3001029	STONE RETAINING WALLS	2,331	16,178	50,000	0	

Capital Improvement Projects by Department/Division

CIP Number	Capital Improvement Project Title	FY 14 Actual Expense	FY 15 Actual Expense	FY 16 Adopted Budget	FY 17 Recomm'd Budget
3001034	ACCESSIBILITY BARRIERS	0	0	10,000	7,500
3001039	CORRIDOR STUDY-ALTERNATES	0	0	0	50,000
3001041	CURB/CATCH BASIN REPL	0	61,547	80,000	70,000
3001077	BRUNSKILL RD BRIDGE REPLC	779,889	86,689	0	0
3001133	TRAFFIC SIGNAL MASTARM RE	0	0	70,000	70,000
3001210	GRANDVIEW AVE.LIGHT POLES	0	0	50,000	75,000
3001229	TRAFFIC CONTR BATTERY PCK	0	3,596	20,000	20,000
3001256	SPECIAL ASSESSMENT ASSIST	0	0	30,000	30,000
3001258	BRIDGE REPAIRS/MAINT.	7,194	5,860	0	100,000
3001266	TRAFFIC SIGNAL INTERCONNE	5,196	30,551	50,000	50,000
3001274	TRAFFIC CONTROLLER REPLAC	121,452	4,916	45,000	45,000
3001287	SOUTHWEST ARTERIAL	722,982	3,869,764	10,380,696	10,095,607
3001425	SIDEWALK PROGRAM CITY OWN	0	25,282	50,000	75,000
3001549	STREET LIGHT REPLACEMENT	24,765	4,396	45,000	45,000
3001615	SIGNAL INTERSEC RECONSTRU	118,122	120,657	60,000	60,000
3001630	DECORATIVE CONCRETE MAINT	0	0	25,000	25,000
3001631	TRAFF SIG FIBER OPTIC NET	60,672	49,844	80,000	80,000
3001634	WHITE WATER CREEK BRIDGE	0	0	0	0
3001815	TRAFFIC CONSULTANT SERV	0	15,459	20,000	10,000
3001816	TRAFFIC SIG VIDEO DET CON	6,154	62,966	65,000	66,000
3001916	LED RE-LAMP SCHEDULE	0	0	15,000	23,500
3001917	PAINTING ST LIGHTS/SIGNAL	16,762	0	0	0
3001919	RECON SIGNALS/JFK-WACKER	0	175,847	0	0
3001922	SAFE ROUTES TO SCHOOL	0	0	5,000	5,000
3002021	N CASCADE RD RECONSTRUCT	82,198	6,701	0	0
3002023	SUB-DIVISIONS SUBDRAINS	0	0	0	0
3002028	US 61/151 CORRIDOR	559	0	0	0
3002044	GREEN ALLEY PILOT PROJECT	15,321	8	0	0
3002139	CEDAR CROSS RECONSTRUCT	4,243	60	0	0
3002142	STREET CONST-GENERAL	159,256	186,875	200,000	100,000
3002144	FIBER OPTIC CONDUIT-MISC	77,049	13,708	25,000	25,000
3002245	PAVEMENT MARKING	78,025	105,886	135,000	110,000
3002246	CROSSWALK WARNING DEVICES	0	29,055	31,000	0
3002247	SW ARTERIAL-US 20 CAP IMP	0	0	0	0
3002252	ST LIGHT/SIGNAL KNOCKDOWN	48,134	31,665	30,000	30,000
3002253	ITS TRAFFIC CONTROL EQUIP	12,887	0	0	0
3002254	JFK @ WACKER SIGNAL RECON	5,887	975	0	0
3002256	PENN@RADFORD INTERESECT	0	0	0	0
3002324	UNI & ASBURY INTER IMPROV	0	0	0	0
3002325	VIDEO DET CAMERA UPGRADE	11,279	28,180	0	0
3002327	CATFISH CRK BRIDGE FIBER	13,239	4,540	210,000	50,000
3002328	SCHOOL ZN CNT-DWN PED SIG	0	0	4,000	4,000
3002336	N GRANDVIEW ESTATES ROAD	0	0	0	0
3002349	MANSON RD BRIDGE/WATER MN	6,540	0	0	0
3002420	SRGE AND GRND IMPR SIGNAL	7,512	8,103	15,000	0

Capital Improvement Projects by Department/Division

CIP Number	Capital Improvement Project Title	FY 14 Actual Expense	FY 15 Actual Expense	FY 16 Adopted Budget	FY 17 Recomm'd Budget
3002421	STREET CAMERA INSTALL	9,331	105,435	25,000	25,000
3002422	TRAFIC OPS CTR VIDEO SOFT	11,490	7,460	20,000	20,000
3002423	TRAFIC OPS CNTR EQUIP TEST	13,720	1,716	0	0
3002482	ASBURY ROAD GRINDING	8,985	35,270	0	0
3002484	LED STREETLIGHT RETROFIT	0	7,234	25,000	10,000
3002485	TOC TEST BENCH	468	0	0	0
3002491	FIBER OPTICS TO AIRPORT	2,082	28,341	195,000	135,000
3002553	9TH TO 11TH 1WAY 2WAY RRX	0	176,676	0	0
3002557	FLASH YELLOW LEFT TURN	0	0	20,000	20,000
3002558	REPLC LED SIGNS BEACONS	0	0	15,000	0
3002559	GRANDVIEW SIGNAL RECON	0	4,638	50,000	70,000
3002611	GRANDVIEW/DELHI ROUNDABOUT	0	0	700,000	0
3002612	HEEB STREET RECON	0	0	164,000	0
3002613	ROW MANAGEMENT	0	0	100,000	0
3002614	ASBURY RD WEST CITY ASBUR	0	0	50,000	0
3002615	WAH NEIGH STREET LIGHTS	0	0	10,000	10,000
3002616	STREET LIGHT AUDIT	0	0	10,000	0
3002617	JFK RD COORD WACKER/ASB	0	0	250,000	0
3002618	WEST LOCUST COMM/CAMERAS	0	0	84,500	0
3002619	UNIV/ASBURY FIBER/CAMERA	0	0	75,000	0
3002620	FIBER/NETWORK MGMT PROG	0	0	35,000	0
3002634	SMARTER TRAVEL PROJECT	0	123,513	0	0
3002672	NEW ST LIGHTS CITY-WIDE	0	0	0	10,000
3002675	NW ARTERIAL TURN LANE IMP	0	0	0	50,000
3002676	CITY-WIDE SECURITY CAMERA	0	0	0	25,000
3401654	BEE BRANCH CREEK RESTORAT	97,981	618,627	13,401,541	2,541,800
3402608	GATE REPLC FLOOD MITIGATI	0	0	1,800,000	0
3402609	FLOOD CONTROL MAINT FACIL	0	0	0	549,378
3501029	STONE RETAINING WALLS	42,600	45,370	0	100,000
3501034	ACCESSIBILITY BARRIERS	0	0	0	0
3501053	RIVERFRONT LEASEHOLD IMPR	32,718	12,954	0	53,400
3501425	SIDEWALK PROGRAM CITY OWN	14,884	0	0	0
3501465	REHAB RR TRACK	30,508	28,000	0	0
3501466	HARBOR AREA MAINTENANCE	65,752	498	25,000	25,000
3501608	DWNTWN ST LIGHT REPLACMNT	0	0	0	0
3501630	DECORATIVE CONCRETE MAINT	228,388	12,844	0	0
3501727	SIDEWALK FINANCIAL ASSIST	0	0	0	0
3501841	FEDERAL BUILDING RENOVTN	0	0	264,000	0
3501861	TRANSIENT DOCKS-MAIN CHAN	8,023	0	0	0
3502021	N CASCADE RD RECONSTRUCT	0	0	0	1,714,008
3502329	HISTORIC MW DIST - S CAM	1,995	0	0	0
3601053	RIVERFRONT LEASEHOLD IMPR	0	0	0	261,600
3601608	DWNTWN ST LIGHT REPLACMNT	0	29,288	0	0
3601841	FEDERAL BUILDING RENOVTN	0	0	0	0

Capital Improvement Projects by Department/Division

CIP Number	Capital Improvement Project Title	FY 14 Actual Expense	FY 15 Actual Expense	FY 16 Adopted Budget	FY 17 Recomm'd Budget
3602021	N CASCADE RD RECONSTRUCT	0	0	1,060,000	0
3602273	NW BIKE/HIKE TRL PHASE 3	0	0	0	1,436,300
3602442	1WAY TO 2WAY CONVERSION	1,227,125	267,670	0	0
3602481	18TH ST WALL RECON	233,316	3,544	0	0
3602483	HWY 52 PHASE II REHAB	209,370	785,994	0	0
3602551	CHAVANELLE RD REHAB	0	0	0	0
3602552	WASH ST RECON 8TH TO 9TH	0	0	0	0
3602554	11TH ST STAIRS RECON	0	0	0	0
3602555	1860 HAWTHORNE STUDY	0	0	0	0
3602671	DOWNTOWN STREET LIGHTS	0	0	0	25,000
3602677	DOWNTOWN SECURITY CAMERAS	0	0	0	10,000
7101012	ANNEXATION STUDY/IMPLEMEN	0	3,030	30,000	100,000
7101067	SEWER CONN ASST-LOW/MOD	3,440	5,697	10,000	0
7101289	GENERAL SANITARY SEWER RE	320,646	336,679	475,000	0
7101293	SAN SEWER INTERNAL MAIN	0	0	20,000	50,000
7101294	I&I REDUCTION PROGRAM	230,321	289,222	390,000	120,000
7101297	LATERAL REPL ASST.LOW INC	0	2,125	0	15,000
7101309	SEWER LATERAL ASSISTANCE	0	4,509	0	0
7101320	LATERALS-I&I REDUCTION	5,459	820	40,000	50,000
7101327	ALLEY WASHINGTON-JACKSON S	0	0	0	0
7101328	LORAS-WALNUT TO PRAIRIE S	0	0	0	0
7101335	SAN SEWER MANHOLE REPLACE	202,507	98,523	295,000	295,000
7101336	HWY 20 ANNEXATION SEWERS	0	0	0	0
7101350	SEWER EXTENSIONS NEW DEV.	0	1,269	0	867,000
7101636	SEWER CLEARING/GRUBBING	4,641	5,501	60,000	0
7101637	SAN SEWER LINING PROGRAM	427,063	293,238	525,000	300,000
7101638	STREET PROG/RELATED SANIT	0	0	60,000	0
7101797	MONROE ST SAN SEWER EXT	0	0	0	0
7101802	CATFISH INTERCEPTOR RECON	34	0	0	0
7101899	SOUTHFORK INTERCEPTOR SEW	161,822	0	0	0
7102044	GREEN ALLEY PILOT PROJECT	29,404	0	0	0
7102130	LAUREL ST SANITARY SEWER	0	0	0	0
7102232	BRUNSWICK SANITARY SEWER	0	0	0	0
7102233	FAIRWAY DR SANITARY SEWER	0	0	0	0
7102234	SOUTHGATE SANITARY SEWER	0	0	0	0
7102322	HAWTHORNE SANT SWR RECON	0	0	0	0
7102323	KNOB HILL- DUGGAN DR SANT	0	0	0	0
7102350	SEP GREEN ALLEYS	935	0	590,000	0
7102406	FOX BLACKHAWK SAN SEWER	0	0	0	0
7102407	KING ST SAN SEWER	0	0	0	0
7102408	WASH ELM 24TH TO 25TH	0	0	0	0
7102409	GRANGER CREEK SAN EXT	81,044	156,289	0	0
7102411	GREEN ALLEY SEP	40,657	0	0	0
7102412	CEDAR LIFT PUMP/GEN/TRAIL	42,142	0	0	0

Capital Improvement Projects by Department/Division

CIP Number	Capital Improvement Project Title	FY 14 Actual Expense	FY 15 Actual Expense	FY 16 Adopted Budget	FY 17 Recomm'd Budget
7102413	RELOC 30" MAIN OPW GARAGE	715,313	2,315	350,000	665,000
7102450	\$9.4 GREEN ALLEYS	684,839	2,821,246	0	0
7102544	ENVIRON CONSULT SVC	0	33,051	20,000	0
7102545	SANITARY CONNECT FEE	0	0	15,000	15,000
7102546	TRACK LN SAN SEWER CLEAN	0	0	125,000	0
7102547	WASH ST SAN 7TH TO 9TH	0	0	135,000	43,000
7102548	JFK SANITARY SEWER	0	0	0	0
7102550	CENTER GROVE SAN STORM	0	0	0	0
7102571	AUBURN & CUSTER SAN SEWER	0	0	0	0
7102606	CEDAR/TERM ASSESSMENTS	0	0	250,000	170,000
7102607	CATFISH/GRANGER LIFT IMPR	0	0	250,000	170,000
7102612	HEEB STREET	0	0	0	150,000
7102666	GROVE TERRACE SANITARY IM	0	0	0	120,000
7102669	SW ART/MENARD UTLTY RELOC	0	0	0	50,000
7102670	SW ART/HWY 20 UTLTY RELOC	0	0	0	200,000
7201004	STORMWATER DITCH REMEDIAT	28,885	31,093	30,000	0
7201008	STORM SEWER IMPR/EXTENSIO	32,457	27,941	60,000	60,000
7201066	GENERAL REPAIRS	193,498	261,262	150,000	162,000
7201081	CATCH BASIN/WESTSIDE STOR	19,556	87,199	35,000	35,000
7201085	KAUFMANN AVE STORM	518	0	0	0
7201208	ARROWHEAD STORM	7,040	126,463	0	0
7201352	STREAMBANK REHAB	909	453	5,000	0
7201354	DRAIN TILE PROGRAM	68	136	20,000	20,000
7201355	NPDES PROGRAM	31,952	26,176	5,000	0
7201359	DETENTION BASIN MAINTENAN	30,740	27,787	29,000	0
7201363	GUNITE ROCK STORM SEWER	20,329	0	40,000	0
7201364	PROP TAX EXEMPT SUBSIDY	241,698	261,805	278,000	0
7201375	REMOVAL OF SILT 32ND ST.	12,868	1,177	0	0
7201378	LOW INCOME SFU ASSISTANCE	11,947	14,947	12,000	0
7201437	ROCKDALE RD STORM SEWER	0	0	150,000	0
7201654	BEE BRANCH CREEK RESTORAT	3,625,374	3,159,966	31,087,138	13,008,200
7201659	STORM SEWER CLEANING	25,818	9,694	15,000	0
7201666	AMY CT STORM SWR IMPROVEM	1,903	0	0	0
7201809	VILLA ST STORM SEWER PROJ	0	65	0	0
7201906	STRMWTR SUBSIDY-RES FARMS	7,479	7,916	8,800	0
7202015	STORM SEWER SYS ASSESS	1,269	2,673	15,000	0
7202016	HILLCREST/KEYWAY STM SWR	0	0	0	0
7202044	GREEN ALLEY PILOT PROJECT	18,341	6,467	0	0
7202062	NPDES - EROSION CONTROL	18,735	35,325	30,000	0
7202063	NPDES - ILLICIT DISCHARGE	4,938	2,395	10,000	0
7202064	NPDES-MUNICIPAL OPERATION	4,482	8,111	10,000	0
7202065	NPDES- POST CONSTRUCTION	136,366	132,213	50,000	0
7202066	NPDES- PUBLIC EDUCATION	8,757	5,327	10,000	0
7202067	NPDES- PUBLIC PARTICIPATI	6,382	1,216	10,000	0
7202133	KANE KAUF-STORM SEW CONST	0	1,900	0	0

Capital Improvement Projects by Department/Division

CIP Number	Capital Improvement Project Title	FY 14 Actual Expense	FY 15 Actual Expense	FY 16 Adopted Budget	FY 17 Recomm'd Budget
7202134	PERU ROAD STORM CONST	0	0	0	0
7202238	CEDAR CROSS RD STORM	0	0	0	0
7202239	FLOODWALL BREACH ANALYSIS	4,663	3,450	0	0
7202240	DRAINAGE BASIN MAST PLAN	32,472	0	0	0
7202281	LOWER BEE BRANCH BRIDGES	1,797	0	0	0
7202331	CATFISH CRK WATERSHED PRT	30,713	32,056	743,446	700,000
7202332	STORMWTR INFILT & INFLOW	60,567	57,463	100,000	100,000
7202333	STORMWTR INFILT&INFLO PRE	132,281	135,151	200,000	0
7202414	WINDSOR STORM EXT	0	0	0	0
7202418	14TH ST RECONSTRUCTION	61,636	58	0	0
7202547	WASH ST SAN 7TH TO 9TH	0	0	35,000	0
7202550	CENTER GROVE SAN STORM	0	374	66,625	0
7202609	FLOOD CONTROL MAINT FACIL	0	0	771,000	500,622
7202610	ADMIRAL SHEEHY FLOOD GATE	0	0	46,000	0
7202629	ICE HARBOR/MAUS PUMP STUD	0	0	75,000	0
7202667	AVOCA STORM IMPROVEMENTS	0	0	0	49,500
7202668	NORTHRIDGE STORM EXTENSIO	0	0	0	113,000
7202669	SW ART/MENARD UTLTY RELOC	0	0	0	450,000
7202670	SW ART/HWY 20 UTLTY RELOC	0	0	0	300,000
ENGINEERING	TOTAL	14,252,168	16,097,766	68,083,396	37,703,415

**City of Dubuque
Recommended Capital Improvement Program Summary
Fiscal Year 2017-2021**

PROGRAM/DEPT	PROJECT DESCRIPTION	SOURCE OF FUNDS	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	TOTAL	PAGE
ENGINEERING DEPARTMENT									
SANITARY SEWER									
Business Type									
Sanitary Sewer Projects									
	Sanitary Sewer External Extensions - Annexation	Sanitary Sewer Const Fund,GO Borrowing (Sewer Fund)	\$ 867,000	\$ 160,000	\$ 465,000	\$ 400,000	\$ -	1,892,000	184
	Sanitary Sewer Lining Program	State Revolving Fund Loan, GO Borrowing (Sewer Fund)	\$ 300,000	\$ 350,000	\$ 355,000	\$ 260,000	\$ 275,000	1,540,000	185
	Sanitary Sewer Manhole Replacement/Rehabilitation Project	Sanitary Sewer Const Fund,GO Borrowing	\$ 295,000	\$ 216,000	\$ 216,000	\$ 216,000	\$ 216,000	1,159,000	186
	I & I Reduction Program	Sanitary Sewer Const Fund	\$ 120,000	\$ 70,000	\$ 70,000	\$ 70,000	\$ 70,000	400,000	187
	Lateral Replacement Assistance to Low/Moderate Income for I & I	Sanitary Sewer Const Fund	\$ 50,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	130,000	188
	Sanitary Sewer Internal Main - New Developments - Revolving Loan Fund	Loan Repayments	\$ 50,000	\$ 65,000	\$ 191,000	\$ -	\$ -	306,000	189
	Sanitary Sewer Connection Fees - Business/Commercial	Sanitary Sewer Const Fund	\$ 15,000	\$ 15,000	\$ 15,500	\$ 16,000	\$ 16,500	78,000	190
	Lateral Replacement Assistance to Low/Moderate Income for Street Program Projects	Sanitary Sewer Const Fund	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	75,000	191
	Sewer Connections - Assistance to Low/Moderate-Income Residents for Street Program Related Sanitary Sewer	DRA Distribution	\$ -	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	40,000	192
		Special Assessment,Sant. Sewer Cnst Fnd, GO Brwing (Sewer Fund)	\$ -	\$ -	\$ -	\$ -	\$ 61,250	61,250	193
	Sewer Lateral Connection Assistance Program	Sanitary Sewer Const Fund	\$ -	\$ -	\$ -	\$ -	\$ 10,000	10,000	194
	Relocation of 30" Force Main around Old Public Works Garage	State Revolving Fund Loan	\$ 665,000	\$ -	\$ -	\$ -	\$ -	665,000	195
	Cedar and Terminal Street Force Mains and Lift Station Assessment and Improvements	State Revolving Fund Loan	\$ 170,000	\$ 130,000	\$ 100,000	\$ 100,000	\$ -	500,000	196
	Catfish Creek Interceptor Sewer, Granger Creek Interceptor Sewer, and Catfish Creek Force Main and Lift Station Improvements	State Revolving Fund Loan	\$ 170,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ -	470,000	197
	Heeb Street Sanitary Sewer Improvements	Sanitary Sewer Const Fund	\$ 150,000	\$ -	\$ -	\$ -	\$ -	150,000	198
	Grove Terrace Sanitary Sewer Improvements	Sanitary Sewer Const Fund,State Revolving Fund Loan	\$ 120,000	\$ -	\$ -	\$ -	\$ -	120,000	199
	Annexation Study Implementation	Sanitary Sewer Const Fund, GO Borrowing	\$ 100,000	\$ -	\$ -	\$ -	\$ -	100,000	200
	Washington St. Sanitary Sewer - 7th to 9th Street	Sanitary Sewer Const Fund	\$ 43,000	\$ -	\$ -	\$ -	\$ -	43,000	201

City of Dubuque
Recommended Capital Improvement Program Summary
Fiscal Year 2017-2021

PROGRAM/DEPT	PROJECT DESCRIPTION	SOURCE OF FUNDS	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	TOTAL	PAGE
	30th and Jackson Sanitary Sewer Reconstruction	Sanitary Sewer Const Fund	\$ -	\$ 150,000	\$ -	\$ -	\$ -	150,000	202
	Marquette Place Sanitary Sewer Improvements	Sanitary Sewer Const Fund	\$ -	\$ 25,000	\$ 200,000	\$ -	\$ -	225,000	203
	Harlan & Euclid Street Sanitary Reconstruction	Sanitary Sewer Const Fund	\$ -	\$ -	\$ 75,000	\$ -	\$ -	75,000	204
	Hempstead Sanitary Sewer Reconstruction	Sanitary Sewer Const Fund	\$ -	\$ -	\$ 50,000	\$ 250,000	\$ -	300,000	205
	Perry St. LS & Bradley St. LS - Force Main Improvements	State Revolving Fund Loan	\$ -	\$ -	\$ -	\$ -	\$ 260,000	260,000	206
STORM WATER									
Business Type									
	Storm Sewer Projects								
	Storm Sewer General Repairs	Stormwater Const Fund	\$ 162,000	\$ 150,000	\$ 185,000	\$ 188,700	\$ 188,700	874,400	207
	Stormwater Infiltration & Inflow Elimination Program	Stormwater Const Fund	\$ 100,000	\$ 100,000	\$ 100,000	\$ 102,000	\$ 102,000	504,000	208
	Storm Sewer Improvements/Extensions	Stormwater Const Fund	\$ 60,000	\$ 60,000	\$ 60,000	\$ 61,200	\$ 61,200	302,400	209
	Catch Basin Reconstruction	Stormwater Const Fund	\$ 35,000	\$ 35,000	\$ 50,000	\$ 51,000	\$ 51,000	222,000	210
	Draintile Program	Stormwater Const Fund	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,400	\$ 20,400	100,800	211
	Gunite/Replacement Storm Sewers	Stormwater Const Fund	\$ -	\$ 60,000	\$ -	\$ -	\$ 120,000	180,000	212
	Bee Branch Creek Restoration Project (Phase 4 and Phase 7 of the Bee Branch Watershed Flood Mitigation Project)	State Revolving Loan Fund,SRF Forgivable Loan,Fed/St Grants, St Flood Mitigation	\$ 15,550,000	\$ -	\$ -	\$ 18,248,700	\$ -	33,798,700	213
	Flood Control Maintenance Facility (Phase 9 of Bee Branch Watershed Flood Mitigation Project)	Stormwater Const Fund, State Flood Mitigation	\$ 1,050,000	\$ 3,150,000	\$ 460,000	\$ -	\$ -	4,660,000	215
	Catfish Creek Watershed Partnership	Sponsorship Program Grant, Stormwater Const Fund	\$ 700,000	\$ -	\$ -	\$ -	\$ -	700,000	216
	Storm Sewer Extension - Northridge Drive Court	Stormwater Const Fund	\$ 113,000	\$ -	\$ -	\$ -	\$ -	113,000	217
	Avoca Storm Improvements	Stormwater Const Fund	\$ 49,500	\$ -	\$ -	\$ -	\$ -	49,500	218
	22nd Street Storm Sewer Improvements (Phase 8 of Bee Branch Watershed Flood Mitigation Project)	State Flood Mitigation	\$ -	\$ 3,900,000	\$ -	\$ -	\$ -	3,900,000	219
	North End Storm Sewer Improvements (Phase 10 of the Bee Branch Watershed Flood Mitigation Project)	Stormwater Const Fund	\$ -	\$ 1,341,000	\$ -	\$ -	\$ -	1,341,000	220
	Van Buren Storm Sewer Outlet Improvements	Stormwater Const Fund	\$ -	\$ 65,000	\$ -	\$ -	\$ -	65,000	221
	Saint Anne Drive Storm Sewer Extension	Stormwater Const Fund	\$ -	\$ 57,000	\$ -	\$ -	\$ -	57,000	222
	Pennsylvania Culvert Replacement	Stormwater Const Fund	\$ -	\$ -	\$ 91,500	\$ -	\$ -	91,500	223

**City of Dubuque
Recommended Capital Improvement Program Summary
Fiscal Year 2017-2021**

PROGRAM/DEPT	PROJECT DESCRIPTION	SOURCE OF FUNDS	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	TOTAL	PAGE
	Wilbricht Lane Detention Basin	Stormwater Const Fund	\$ -	\$ -	\$ 50,000	\$ -	\$ -	\$ 50,000	224
	Northwest Arterial Detention Basin	Stormwater Const Fund	\$ -	\$ -	\$ 44,000	\$ -	\$ -	\$ 44,000	225
	Key Way Drive Outfall and Storm Sewer Replacement Project	Stormwater Const Fund	\$ -	\$ -	\$ 28,000	\$ -	\$ -	\$ 28,000	226
	17th Street Storm Sewer Improvements (Phase 12 of Bee Branch Watershed Flood Mitigation Project)	State Flood Mitigation	\$ -	\$ -	\$ -	\$ 3,505,000	\$ 2,775,000	\$ 6,280,000	227
	Hillcrest-Rosemont Detention Basin	Stormwater Const Fund	\$ -	\$ -	\$ -	\$ 95,000	\$ -	\$ 95,000	228
	Copper Field Storm Sewer Extension Project	Stormwater Const Fund	\$ -	\$ -	\$ -	\$ 33,000	\$ -	\$ 33,000	229
	Roosevelt Culvert Reconstruction	Stormwater Const Fund	\$ -	\$ -	\$ -	\$ 20,000	\$ -	\$ 20,000	230
	Cedar Cross Road Storm Sewer (Street Program)	Stormwater Const Fund	\$ -	\$ -	\$ -	\$ -	\$ 118,800	\$ 118,800	231
	Bunker Hill Golf Course Storm Sewer Replacement	Stormwater Const Fund	\$ -	\$ -	\$ -	\$ -	\$ 90,000	\$ 90,000	232
	Windsor Storm Extension (Buena Vista to Strauss)	Stormwater Const Fund	\$ -	\$ -	\$ -	\$ -	\$ 78,500	\$ 78,500	233
	Cedar Cross Road Storm Replacement	Stormwater Const Fund	\$ -	\$ -	\$ -	\$ -	\$ 68,000	\$ 68,000	234
	Bennett Street Storm Sewer Improvements	Stormwater Const Fund	\$ -	\$ -	\$ -	\$ -	\$ 61,000	\$ 61,000	235
	Seippel Road Culvert Replacement	Stormwater Const Fund	\$ -	\$ -	\$ -	\$ -	\$ 53,000	\$ 53,000	236
	Keokuk Storm Sewer Extension	Stormwater Const Fund	\$ -	\$ -	\$ -	\$ -	\$ 43,500	\$ 43,500	237
STREETS									
Public Works									
	Street Related Improvements								
	Street Construction General Repairs	Road Use Tax, Sales Tax Fund (30%)	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 500,000	238
	Street and Alley Assessment Assistance Program	Sales Tax Fund (30%)	\$ 30,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 50,000	239
	Guardrail Replacement	Sales Tax Fund (30%)	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 50,000	240
	Southwest Arterial Project	Sales Tax Fund (30%), Dubuque County Funds, State Trans Prog, Fed SAFETEA-LU/DMATS	\$ 10,095,607	\$ 555,000	\$ 57,000	\$ 59,000	\$ -	\$ 10,766,607	241
	North Cascade Road Reconstruction Phase 1 - Catfish Creek to Edval Lane Phase 2 - Edval Lane to SW Arterial	Sales Tax Fund (30%),DMATS STP Funds, N Cascade Housing TIF	\$ 1,714,008	\$ 1,060,000	\$ 2,200,000	\$ -	\$ -	\$ 4,974,008	244
	Chavenelle Trail (NW Arterial to Seippel)	Fed SAFETEA-LU Funds, Fed DMATS Funds, State REAP Grant, Gen Fund, Sales Tax, DICW	\$ 1,436,300	\$ -	\$ -	\$ -	\$ -	\$ 1,436,300	246

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	Southwest Arterial Project - Menards Frontage Road Utility Relocations	Stormwater Const Fund,Sanitary Const Fund,Fed DMATS STP	\$ 500,000	\$ -	\$ -	\$ -	\$ -	500,000	247
	Southwest Arterial Project - US Highway 20 Interchange Utility Relocations	Stormwater Const Fund,Sanitary Const Fund,Fed DMATS STP	\$ 500,000	\$ -	\$ -	\$ -	\$ -	500,000	249
	Pavement Marking Project	Sales Tax Fund (30%)	\$ 110,000	\$ 110,000	\$ 115,000	\$ 115,000	\$ 115,000	565,000	251
	East - West Corridor Capacity Improvements	Sales Tax Fund (30%),Fed DMATS Funding,State Grants(TSF)	\$ 50,000	\$ 1,650,000	\$ 1,890,000	\$ 2,300,000	\$ 2,300,000	8,190,000	252
	Chavenelle Road Rehabilitation (NW Arterial - Radford)	Dbq Ind Ctr West TIF	\$ -	\$ 1,279,500	\$ -	\$ -	\$ -	1,279,500	254
	HWY 52 Phase III - 11th Street (Elm to White) and White Street (9th to 11th) Pavement Rehabilitation Project	IDOT Funding, Road Use Tax	\$ -	\$ 716,000	\$ -	\$ -	\$ -	716,000	255
	Crosswalk Warning Devices	Sales Tax Fund (30%)	\$ -	\$ 31,000	\$ -	\$ 31,000	\$ -	62,000	256
	HWY 52 Phase IV - Central Avenue Pavement Rehabilitation from 9th Street to 21st Street	IDOT Funding, Sales Tax Fund (30%)	\$ -	\$ -	\$ -	\$ 1,871,000	\$ 52,000	1,923,000	257
	Sylvan Drive Reconstruction	Special Assessments, Sales Tax Fund (30%)	\$ -	\$ -	\$ -	\$ -	\$ 35,000	35,000	258
	Sidewalk Program - City-Owned Property	DRA Distribution,Sales Tax Fund (30%),Sales Tax Fund (20%)	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	375,000	259
	Sidewalk Program Related Curb and Catch Basin Replacements	Sales Tax Fund (30%)	\$ 70,000	\$ 70,000	\$ 70,000	\$ 70,000	\$ 70,000	350,000	260
	Sidewalk Inspection Program - Assessable	General Fund-Liens	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	150,000	261
	Decorative Concrete Maintenance Program	Sales Tax Fund (30%)	\$ 25,000	\$ 25,000	\$ 25,000	\$ 50,000	\$ 50,000	175,000	262
	ADA Curb Ramp Construction Project	CDBG Grant	\$ 12,600	\$ 12,600	\$ 12,600	\$ 12,600	\$ 12,600	63,000	263
	Stone Retaining Walls	Sales Tax Fund (20%)	\$ 100,000	\$ 80,000	\$ 130,000	\$ 80,000	\$ 80,000	470,000	264
	Bridge Repairs/Maintenance	Sales Tax Fund (30%)	\$ 100,000	\$ 80,000	\$ 85,000	\$ 95,000	\$ 100,000	460,000	265
	Bluff Street Parking Expansion	Greater Downtown TIF	\$ -	\$ 175,000	\$ -	\$ -	\$ -	175,000	266
MISCELLANEOUS									
Public Works									
	Riverfront Leasehold Improvements	Greater Downtown TIF,Sales Tax Fund (20%)	\$ 315,000	\$ -	\$ 10,000	\$ 10,000	\$ 10,000	345,000	267
	Greater Downtown Street Lights	Greater Downtown TIF	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	125,000	268
	Harbor Area Maintenance	Sales Tax Fund (30%),Sales Tax Fund (20%)	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 30,000	130,000	269
	Neighborhood Related Improvement	CDBG Grant	\$ 13,400	\$ 13,400	\$ 13,400	\$ 13,400	\$ 13,400	67,000	270
	Port of Dubuque - Security Camera Expansion	DRA Distribution	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 50,000	90,000	271

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	Washington Neighborhood Street Lights	Sales Tax Fund (30%)	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 50,000	272
	Street Lights outside the Downtown Area	Sales Tax Fund (30%)	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 50,000	273
	Accessibility Barriers and Building Modifications	Sales Tax Fund (20%), Sales Tax Fund (30%)	\$ 7,500	\$ 7,500	\$ 7,500	\$ 7,500	\$ 7,500	\$ 37,500	274
	Safe Routes to School	Sales Tax Fund (30%)	\$ 5,000	\$ 5,000	\$ 5,000	\$ -	\$ -	\$ 15,000	275
Culture and Recreation									
	16th St. Detention Basin Trail	DRA Distribution	\$ 30,000	\$ -	\$ -	\$ -	\$ -	\$ 30,000	276
General Government									
	Federal Building Renovation	Sales Tax Fund (20%),GO Borrowing (ST 20%)	\$ -	\$ 98,000	\$ 20,000	\$ 225,000	\$ -	\$ 343,000	277
TRAFFIC									
Public Works									
	Traffic Signal Fiber Optic Network Program	Sales Tax Fund (30%)	\$ 80,000	\$ 90,000	\$ 90,000	\$ 90,000	\$ 90,000	\$ 440,000	279
	Signalization Program	Sales Tax Fund (30%)	\$ 80,000	\$ 100,000	\$ 100,000	\$ 90,000	\$ 90,000	\$ 460,000	281
	Grandview Street Light Replacement Program	Sales Tax Fund (30%)	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 375,000	282
	Traffic Signal Mastarm Retrofit	Sales Tax Fund (30%)	\$ 70,000	\$ 80,000	\$ 60,000	\$ 40,000	\$ 40,000	\$ 290,000	283
	Traffic Signal Vehicle Detection Conversion	Sales Tax Fund (30%)	\$ 66,000	\$ 67,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 313,000	284
	Traffic Signal Intersection Reconstruction	Sales Tax Fund (30%)	\$ 60,000	\$ 60,000	\$ 60,000	\$ 65,000	\$ 65,000	\$ 310,000	285
	Traffic Signal Interconnect Conduit Replacement	Sales Tax Fund (30%)	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 250,000	286
	Street Light Replacement and New Installation Project - City Owned	Sales Tax Fund (30%)	\$ 45,000	\$ 46,000	\$ 46,000	\$ 47,000	\$ 47,000	\$ 231,000	287
	Traffic Signal Controller Replacement Project	Sales Tax Fund (30%)	\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 225,000	288
	Street Lighting and Traffic Signal Knockdown/Insurance Storm Fund	Insurance Reimbursements,Sales Tax Fund (30%)	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 150,000	289
	Fiber Optic Conduit - Miscellaneous	Sales Tax Fund (30%)	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 125,000	290
	ITS Traffic Control Equipment	Road Use Tax,Sales Tax Fund (20%)	\$ 25,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 225,000	291
	Street Camera Installation	Sales Tax Fund (30%)	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 125,000	292
	City-Wide Security Camera Program	Sales Tax Fund (30%)	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 125,000	293
	LED Re-lamp schedule	Sales Tax Fund (30%)	\$ 23,500	\$ 10,500	\$ 24,500	\$ 29,000	\$ 30,000	\$ 117,500	294
	Traffic Operations Center Video Management Software and Equipment	Sales Tax Fund (30%)	\$ 20,000	\$ 35,000	\$ 40,000	\$ 45,000	\$ 40,000	\$ 180,000	295
	Traffic Signal Battery Backup Program	Sales Tax Fund (30%)	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 100,000	296

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	Downtown Security Camera Expansion	Greater Downtown TIF	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 50,000	\$ 90,000	297
	City wide LED Streetlight Retrofit	Sales Tax Fund (30%)	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 50,000	298
	Traffic Consultant Services	Sales Tax Fund (30%)	\$ 10,000	\$ 10,000	\$ 10,000	\$ 15,000	\$ 20,000	\$ 65,000	299
	Intersection Pre-emption System	Sales Tax Fund (30%)	\$ 6,000	\$ 6,000	\$ 6,000	\$ 6,000	\$ 6,000	\$ 30,000	300
	School Zone Count-Down	Sales Tax Fund (30%)	\$ 4,000	\$ 4,000	\$ 4,000	\$ 4,000	\$ 4,000	\$ 20,000	301
	Pedestrian Signal Head Retrofit Project								
	Kerper Blvd Fiber and Cameras	DRA Distribution	\$ 195,000	\$ -	\$ -	\$ -	\$ -	\$ 195,000	302
	Fiber Optics Communications from Downtown to Airport	Sales Tax Fund (20%)	\$ 135,000	\$ 125,000	\$ -	\$ -	\$ -	\$ 260,000	303
	Grandview Signals at University and Loras	Sales Tax Fund (30%)	\$ 70,000	\$ -	\$ -	\$ -	\$ -	\$ 70,000	304
	Northwest Arterial Turn Lane Improvements	DRA Distribution	\$ 50,000	\$ 50,000	\$ -	\$ -	\$ -	\$ 100,000	305
	Catfish Creek Bridge Project Fiber Optics Conduit - US 151-61 from Grandview to US 52	Sales Tax Fund (30%)	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000	306
	Flashing Yellow Left Turn Arrow Conversion	Sales Tax Fund (30%)	\$ 20,000	\$ 20,000	\$ 10,000	\$ -	\$ -	\$ 50,000	307
	Surge and Grounding Improvements at Signals City-Wide	Sales Tax Fund (30%)	\$ -	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 60,000	308
	Downtown Streetlight Replacement Schedule	Greater Downtown TIF,GO Borrowing (GDTIF)	\$ -	\$ -	\$ 100,000	\$ 51,000	\$ 102,000	\$ 253,000	309
	Total - Engineering Department		\$ 37,703,415	\$ 17,615,500	\$ 8,902,000	\$ 29,943,500	\$ 8,989,350	\$ 103,153,765	