

Prepared by

Prein&Newhof

2130283

Contents

Introduction

Part One: Capital Improvements

Overview Maps

Project Lists

Project Summaries

Part Two: Financial Strategy

Implementation Timeline

Sewer Fund Forecast

Water Fund Forecast (To be created in future edition)

Street / Storm Fund Forecast (To be created in future edition)

Part Three: Detailed Cost Estimates

Introduction

The City of Galesburg public infrastructure includes drinking water supply and delivery systems, wastewater collection systems, storm drainage systems, and public streets. These systems are aging and certain parts need to be repaired or replaced to keep up with deterioration over time.

Waiting until something breaks to make emergency repairs is expensive. A more proactive approach can minimize life cycle costs using the following steps:

- Evaluate the condition and capacity of assets to determine the needs.
- Implement a maintenance program for the small needs.
- Implement a Capital Improvement Plan for the big needs.
- Develop financial strategies to fund all planned work before needs become emergencies.

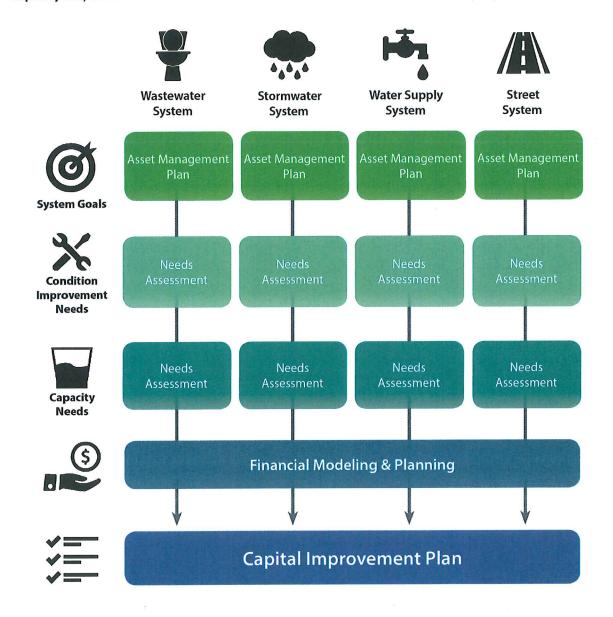
The City of Galesburg is actively managing the needs of these systems. The needs have been evaluated and financial strategies have been considered. This Capital Improvement Plan presents the City of Galesburg's infrastructure priorities that have been established within a 10-year planning period, a timeline for accomplishing the needed improvements, and a financial strategy to implement the plan.

Planning Framework

Asset management is programmatic way of managing the needs of the infrastructure. The asset management plan for each system guides the program and establishes goals for the system. By implementing the asset management program, the needs of each system are determined and prioritized. Each system has two kinds of needs: condition improvement needs and capacity needs.

Condition improvements may be needed to repair aging and deteriorated parts of the system.

Capacity may be needed to ensure the infrastructure will meet the needs of the people.



Current Needs Assessments

The City of Galesburg has completed the following needs assessments upon which this Capital Improvement plan has been developed:

System	Condition Improvement Needs Assessments	Capacity Improvement Needs Assessments
Wastewater System	2017 Wastewater System Evaluation 2016 Smoke Testing Report	
Stormwater System	2017 Stormwater System Evaluation	2017 Storm Sewer Capacity Study
Water Supply System	2016 Asset Management Inventory	2016 Water System Reliability Study
Street System	2015 PASER Ratings	No Current Traffic Studies (not typical for local streets)

Coordinating the Systems to Minimize Cost

When capital improvements are planned considering both kinds of needs across all infrastructure systems the potential for tearing up good streets to work on underground utilities can be reduced and overall cost can be minimized. This requires financial planning for all infrastructure systems together and a capital improvement plan that is coordinated across all infrastructure systems.

Ongoing Capital Improvement Planning

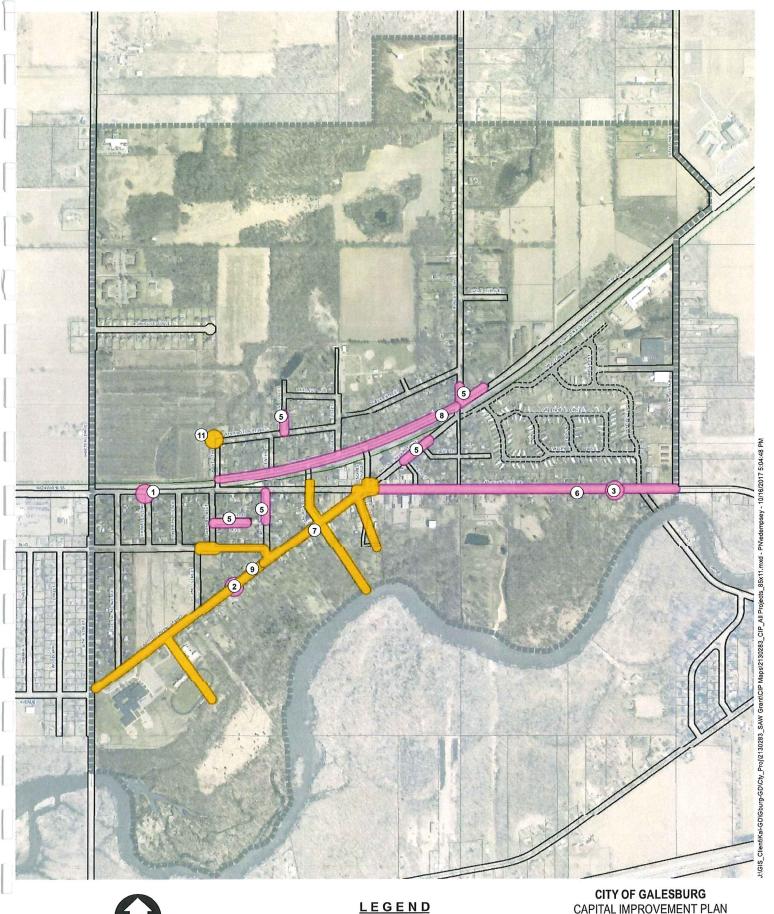
Capital improvement planning is an ongoing process. Plans are expected to change as new information becomes available and economic conditions change. While the various studies to determine the needs may be updated at differing times, this Capital Improvement Plan is intended to be updated annually to always reflect the current plan moving forward.

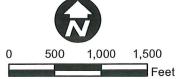
Part One: Capital Improvements

Overview Maps

Project List

Project Summaries

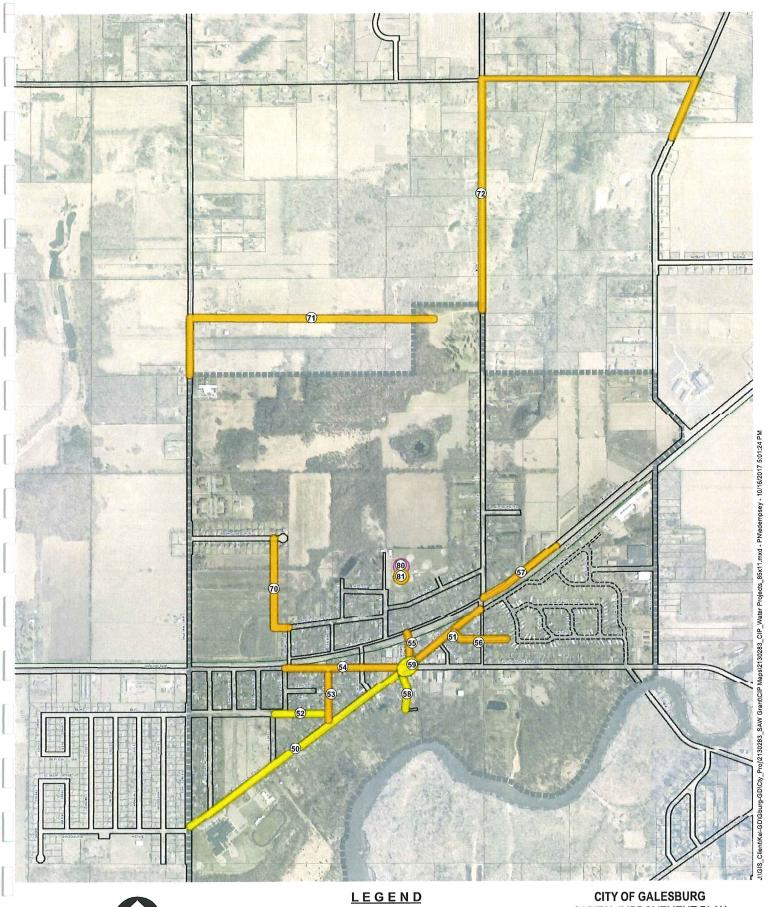




Short Term Projects (2018 - 2022)

Long-Term Projects (2023 - 2027)

CAPITAL IMPROVEMENT PLAN SANITARY/STORM PROJECTS
AUGUST 2017
Prein&Newhof
2130283





Included in Sanitary/Storm Projects

Short Term Projects (2018 - 2022)

Long-Term Projects (2023 - 2033)

CAPITAL IMPROVEMENT PLAN WATER SYSTEM

PROJECTS AUGUST 2017
Prein&Newhof

2130283

PROJECT LIST

Project ID#	Location	Scope	Purpose	Utility
1	Michigan and Thomas	Point Repair	fix hole in pipe	Sanitary
2		Point Repair	remove utility	Storm
3	Battle Creek and Grove	Point Repair	fix hole in pipe	Storm
5	ROF 4 - Balance sewers (6 pipes)	CIPP Main Line	Remove Roots and structural issues	Sanitary
6	Michigan Avenue	Mill and Resurface	Pavement Restoration	Road
7a	Mill Street	Dig and Replace	Reconstruct Storm, Water and Road	Storm, Road, Water
	Battle Creek Street (Grove to 5-way intersection)	Dig and Replace	Reconstruct Storm, Water and Road	Storm, Road, Water
70 7c	Church Street	Dig and Replace	Reconstruct Storm, Water and Road	Storm, Road, Water
7d	Blake Boulevard (Toland to Grove) & Grove	Dig and Replace	Reconstruct Storm, Water and Road	Storm, Road, Water
7a 7e	5-way intersection and Norms Place	Dig and Replace	Reconstruct Storm, Water and Road	Storm, Road, Water
7f	Storm Outlet treatment Pond	New Pond	Treatment	Storm
/1	Storm Outlet treatment ronu	New Folia	reamene	Storm .
			Reconstruct Storm and Road -	
8	Beckwith Drive (Grant to Burgess)	Dig and Replace	Infiltration system	Storm, Road, Sanitary
		L	Reconstruct Storm, Water and Road,	S D
9	Battle Creek (35th to Grove)	Dig and Replace	Install outlet pond	Storm, Road
10	Various MH	Repairs	Repairs	Sanitary, Storm
10		·		
11	Morhouse Lift Station	Misc	Misc	Sanitary
				6 1
20		Replacement	Replacement	Sanitary
21		Replacement	Replacement	Sanitary
22		Replacement	Replacement	Sanitary
23	Non-Pipe Assets - Printer	Replacement	Replacement	Sanitary
	Replace 6-inch water main in Battle Creek from			
	Shafter/35 th Street to 5-Way Intersection with 12-inch			
50	water main	Replacement	Replacement	Water
	Replace 6-inch water main in Battle Creek from 5-Way			
	Intersection Burgess / 36th Street with 12-inch water			
51	main	Replacement	Replacement	Water
	Replace 6-inch water main in Blake (Grant to Grove) with			
52		Replacement	Replacement	Water
	Replace 6-inch water main in Grove (Battle Creek to M-	L .		l
53		Replacement	Replacement	Water
	Replace 6-inch water main in M-96 (Grant to Norms			
54	Place) with 12-inch water main	Replacement	Replacement	Water
	Replace 6-inch water main in Norms Place (M-96 to	Danlasamant	Replacement	Water
55	Beckwith) with 12-inch water main	Replacement	керіасетені	Water
	Replace 4-inch water main in New Street (Battle Creek to			
56	Gale Valley Estates) with 8-inch water main	Replacement	Replacement	Water
	Replace 8-inch water main in M-96 (Burgess/36 th Street,			
57	east of 12" water main) with 12-inch water main	Replacement	Replacement	Water
	Replace 4-inch and 6-inch water main in Mill Street			
58	(South of Battle Creek Street) with 8-inch water main	Replacement	Replacement	Water
	Replace WM in 5-way intersection with 12-inch water			
59	main using insert-a-valves	Replacement	Replacement	Water
70	Close Loop at Morhouse Drive with 8-inch water main	Nour	Redundancy	Water
70		New	Redundancy	Water
71	Close Loop from 35th Street to 36th Street with 12-inch water main	New	Redundancy	Water
71		I T W	neddiddiey	rate!
			1	1
72	Close Loop from 36th Street to 37th Street with 12-inch	New	Redundancy	Water
72	l ·	New	Redundancy	Water
72 80	· ·	New New	Redundancy Reliability	Water Water

Project Summary: Michigan and Thomas Street (Sanitary Point Repair)

Project Number: 1

Project Description: Repair the hole in a sanitary pipe on Michigan Avenue. Includes open cutting roadway to repair sanitary and necessary road patching. Coordination will be required with MDOT and utility company.

Planned Year⁽¹⁾: 2018

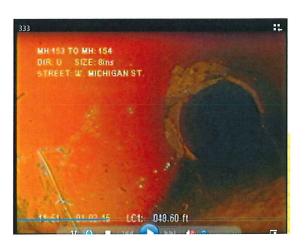
Anticipated Project Costs(2):

Wastewater System Improvements **Total Project Cost**

\$23,800 **\$23,800**

- (1) Planned Year is subject to change pending annual review of City wide priorities and available funds.
- (2) Project cost is estimated in 2017 dollars, with a 2% inflation rate applied annually until the project's planned year.





Project Summary: Michigan and Climax (Storm Point Repair)

Project Number: 2

Project Description: Removal of the utility penetration from inside the storm pipe. Includes open cutting roadway to repair storm and necessary road patching. Coordination will be required with utility company. This point repair should be coordinated resurfacing project of Michigan Avenue.

Planned Year⁽¹⁾: 2018

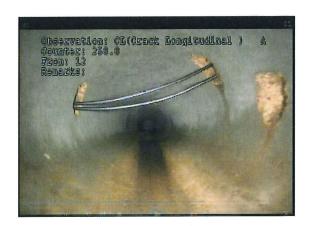
Anticipated Project Costs(2):

Street and Sidewalk Improvements **Total Project Cost**

\$21,200 **\$21,200**

- (1) Planned Year is subject to change pending annual review of City wide priorities and available funds.
- (2) Project cost is estimated in 2017 dollars, with a 2% inflation rate applied annually until the project's planned year.





Project Summary: Battle Creek and Grove Street (Storm Point Repair)

Project Number: 3

Project Description: Repair the hole in the storm pipe along Battle Creek. Includes open cutting roadway to

repair storm and necessary road patching.

Planned Year⁽¹⁾: 2018

Anticipated Project Costs⁽²⁾:

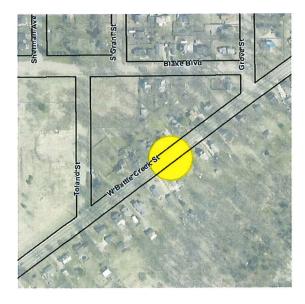
Street and Sidewalk Improvements

\$19,200

Total Project Cost

\$19,200

- (1) Planned Year is subject to change pending annual review of City wide priorities and available funds.
- (2) Project cost is estimated in 2017 dollars, with a 2% inflation rate applied annually until the project's planned year.





Project Summary: Various Lining Projects (Cured-In-Place)

Project Number: 5

Project Description: Utilize Cured-In-Place pipe technology to line 6 pipe segments within the City. Locations include Elm, Grove, Hamilton Street, Burgess Drive and 2 segments along M-96.



Planned Year⁽¹⁾: 2022

Anticipated Project Costs⁽²⁾:

Wastewater System Improvements

Total Project Cost

See Appendix A for cost details

\$451,700

\$451,700

(1) Planned Year is subject to change pending annual review of City wide priorities and available funds.

(2) Project cost is estimated in 2017 dollars, with a 2% inflation rate applied annually until the project's planned year.

Project Summary: Michigan Avenue

Project Number: 6

Project Description: Street resurfacing of Michigan Avenue from the 5-way intersection to McCollum Street.
Includes cold milling existing pavement and overlay with new asphalt pavement.



Planned Year⁽¹⁾: 2018

Anticipated Project Costs(2):

Street and Sidewalk Improvements

\$213,700

Total Project Cost

\$213,700

See Appendix A for cost details

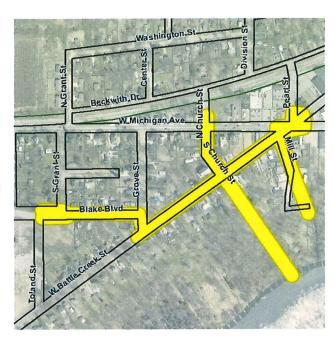
(1) Planned Year is subject to change pending annual review of City wide priorities and available funds.

(2) Project cost is estimated in 2017 dollars, with a 2% inflation rate applied annually until the project's planned year.

Project Summary: Mill Street, Church Street, Battle Creek and Blake Boulevard.

Project Number: 7

Project Description: Street and utility reconstruction of Mill Street, 5-way intersection, Church Street, Battle Creek Street from Mill Street to Grove, Grove Street from Battle Creek to Blake, and Blake Boulevard from Grove to Toland. Utility work includes replacing the storm sewers within the project area and installing a storm treatment pond at the 2 outfalls. Water main upgrades are proposed in the 5-way intersection, Battle Creek, Mill Street and Blake. Surface improvements include sidewalk replacement, new driveway approaches, and street reconstruction.



Planned Year⁽¹⁾: 2025

Anticipated Project Costs(2):

Water System Improvements \$1,183,300 Street and Sidewalk Improvements \$2,713,200

Total Project Cost See Appendix A for cost details \$3,896,500

- (1) Planned Year is subject to change pending annual review of City wide priorities and available funds.
- (2) Project cost is estimated in 2017 dollars, with a 2% inflation rate applied annually until the project's planned year.

Project Summary: Beckwith Drive (Grant to Burgess)

Project Number: 8

Project Description: Street and utility reconstruction of Beckwith Drive from Grant Street to Burgess Drive. Utility work includes replacing the sanitary sewers from Division to Burgess Drive and new storm sewers with underground retention system. Surface improvements include sidewalk replacement, new driveway approaches, concrete curb and gutter, and street reconstruction.



Planned Year⁽¹⁾: 2019

Anticipated Project Costs(2):

Wastewater System Improvements Street and Sidewalk Improvements

\$868,600 \$868,600

Total Project Cost

\$1,737,200

- (1) Planned Year is subject to change pending annual review of City wide priorities and available funds.
- (2) Project cost is estimated in 2017 dollars, with a 2% inflation rate applied annually until the project's planned year.

Project Summary: Battle Creek (35th to Grove)

Project Number: 9

Project Description: Street and utility reconstruction of Battle Creek Street from 35th Street to Grove Street. Utility work includes installing 3 stubs on the sanitary sewer, Upgrading the watermain in the project area to 12-inch, replacing the storm sewers and installing a treatment pond on the outfall. Surface improvements include sidewalk replacement, new driveway approaches, new curb and gutter, and street reconstruction.



Planned Year⁽¹⁾: 2026

Anticipated Project Costs(2):

Water System Improvements \$430,700 Street and Sidewalk Improvements \$2,102,600

Total Project Cost

See Appendix A for cost details

\$2,533,300

- (1) Planned Year is subject to change pending annual review of City wide priorities and available funds.
- (2) Project cost is estimated in 2017 dollars, with a 2% inflation rate applied annually until the project's planned year.



Owner:					
	Galesburg				
Project Title					
Date:	#10: Various MH Rehabilitation	Project #:	and the second s		
4/12/201	17	2130283			•
					Complete IV/N
MH No.	Description	Issue	Action	Year	Completed Y/N
	Sanitary MH				
9490	Morhouse Cul-de-sac	mudding at top is gone, bricks are broken, cracked and falling in	DPW to re-mortar structure	2017	
9422	Beckwith, 1st MH west of Burgess	mudding and structure below casting has significant cracking, erosion, and some bricks have fallen in	DPW to re-mortar structure	2017	
9433	Intersection of Washington & Hamilton	brick and mortar at top of structure have significant erosion and a few are missing	DPW to re-mortar structure	2017	
2435	McCollum, 2nd MH south of M96	rim of casting missing pieces	No action	NA	
9471	Washington & Grant - FM discharge	catch basin cover EJ 1060B	DPW to replace lid with solid cover	2017	
9506	Grant, 1st MH south of Washington	catch basin cover EJ 1060B	DPW to replace lid with solid cover	2107	
	Storm MH				
100	Norms Place	2" metal conduit thru CB N & S, utility crossing, moderate cracking	No action - abandoned	NA	
312	Blake and Grant	1/2 of casting in curb broken/missing. sump full of dirt to pipes. a few bricks under casting have broken off and fallen in	DPW to reconstruct portion of structure	2017	
104	Mills and Battle Creek	used rock in place of some bricks, some pieces falling in	Beyond scope of DPW, replace with Mills reconstruction project	TBD	
336	Mills, south of BC	no sump, one block missing	DPW to re-mortar structure	2017	
105	Bus Garage Parking Lot, S of BC	1ft diameter area of wall crumbling. Catch basin built on top of existing storm pipe, hole cut in top of pipe	Patch Re-rated to ROF 3 - No action	NA	
161	Washington St	mortar between bricks has eroded away. steps with light surface corrosion	LB - Dry, re-rated to ROF 2 - No action	NA	
269	Gale Avenue	cracked and chipped bricks. casting in curb has sunk 1 inch, concrete surrounding is significantly cracked	cut curb and rebuild, also one across the street	2017	
290	Church and Battle Creek	casting on 4 degree angle, material is 15" concrete pipe, diameter is 15"	DPW to re-mortar structure	2017	
303	Grove St	structure in curb. major cracking and breakage under casting	DPW to re-mortar structure	2017	
171	Battle Creek, East of Fullerton	no sump, casting chipped in corner	Re-rated casting ROF - 2, No action	NA	
301	Grove and Battle Creek	casting in curb broken on north side, piece missing. sump full of dirt to pipes.	True statement, No action	NA	
315	Blake and Grant	medium size piece broken off casting in curb. sump full to pipe	New Casting	2017	
325	Toland and Battle Creek	back of casting broken	True statement, No action	NA	

Project Summary: Morhouse Pump Station

Project Number: 11

Project Description: The controls and instrumentation for Morhouse Lift Station are currently in working order; however, it is recommended they be replaced with current technology toward the end of the CIP timeframe. A surge protection device should be added to the electrical service and intrinsically safe relay added to the high level float as part of the improvements. At the time the controls replacement it is recommended that the corrosion of the piping be re-evaluated to determine if recoating the pipe is necessary to avoid further corrosion.



Planned Year⁽¹⁾: 2023

Anticipated Project Costs(2):

Wastewater System Improvements

\$96,900

Total Project Cost

\$96,900

- (1) Planned Year is subject to change pending annual review of City wide priorities and available funds.
- (2) Project cost is estimated in 2017 dollars, with a 2% inflation rate applied annually until the project's planned year.

Project Summary: Replacement of Printer

Project Number: 20

Project Description: Replacement of the printer used by the DPW for recording the sanitary and water systems.

Planned Year⁽¹⁾: 2019

Anticipated Project Costs(2):

Water System Improvements \$300
Wastewater System Improvements \$300

Total Project Cost \$600

⁽¹⁾ Planned Year is subject to change pending annual review of City wide priorities and available funds.

⁽²⁾ Project cost is estimated in 2017 dollars, with a 2% inflation rate applied annually until the project's planned year.

Project Summary: Generator (Trailer Mounted)

Project Number: 21

Project Description: Replacement of the portable Generator used by the DPW for the well systems and the lift station during emergency situation of power outages.

Planned Year⁽¹⁾: 2021

Anticipated Project Costs⁽²⁾:

Water System Improvements \$29,000
Wastewater System Improvements \$29,000

Total Project Cost \$58,000

⁽¹⁾ Planned Year is subject to change pending annual review of City wide priorities and available funds.

⁽²⁾ Project cost is estimated in 2017 dollars, with a 2% inflation rate applied annually until the project's planned year.

Project Summary: Replacement of Computer and Tablet

Project Number: 22

Project Description: Replacement of the computer and Tablet used by the DPW for running the sanitary and water systems.

Planned Year⁽¹⁾: 2022

Anticipated Project Costs(2):

Water System Improvements \$2,400
Wastewater System Improvements \$2,400

Total Project Cost \$4,800

⁽¹⁾ Planned Year is subject to change pending annual review of City wide priorities and available funds.

⁽²⁾ Project cost is estimated in 2017 dollars, with a 2% inflation rate applied annually until the project's planned year.

Project Summary: Replacement of Printer

Project Number: 23

Project Description: Replacement of the printer used by the DPW for recording the sanitary and water systems.

Planned Year⁽¹⁾: 2024

Anticipated Project Costs⁽²⁾:

Water System Improvements \$350
Wastewater System Improvements \$350

Total Project Cost \$700

⁽¹⁾ Planned Year is subject to change pending annual review of City wide priorities and available funds.

⁽²⁾ Project cost is estimated in 2017 dollars, with a 2% inflation rate applied annually until the project's planned year.

Part Two: Financial Strategy

Implementation Timeline

Sewer Fund Forecast

Water Fund Forecast (To be created in future edition)

Streets / Storm Fund Forecast (To be created in future edition)

City of Gale	sburg								
		<u> </u>					IND PREAKDOL	NAI	
10-Year CIP	Implementation Timeli	ne					JND BREAKDO\ Water	General/Road	
Fiscal Year	Construction Season	Project ID#	Project Name / Location	Work Type	Total Cost	Sanitary Cost	Cost	Cost	Funding Source
ristai Teai	Construction Season	Project ID#	rioject Name / Location	Work Type	Total Cost	Cost		0031	Tunung com co
2017/2018	2018	1	Michigan and Thomas	Sanitary	\$23,788	\$23,788	\$0	\$0	Cash
2017/2018	2018	2	Michigan and Climax	Storm	\$21,163	\$0	\$0	\$21,163	Cash
2017/2018	2018	3	Battle Creek and Grove	Storm	\$19,174	\$0	\$0	\$19,174	Cash
2017/2018	2018	6	Michigan Avenue	Road	\$213,685	\$0	\$0	\$213,685	Cash
				TOTAL	\$277,810	\$23,788	\$0	\$254,022	
<u> </u>									
2018/2019	2019	8	Beckwith Drive (Grant to Burgess)	Storm, Road, Sanitary	\$1,737,089	\$868,544	\$0	\$868,544	Bond
2018/2019	2019	20	Non-Pipe Assets - Printer	Sanitary	\$603	\$302	\$302	\$0	Cash
***************************************				TOTAL	\$1,737,692	\$868,846	\$302	\$868,544	
2020/2021	2021	21	Non-Pipe Assets - Generator (Portable Trail Mounted)	Sanitary	\$58,018	\$29,009	\$29,009	\$0	Cash
2020/2021	2021	80	Well House Permanent Generator (85 KW)	Water	\$98,501	\$0	\$98,501	\$0	Cash
				TOTAL	\$156,520	\$29,009	\$127,511	\$0	
2021/2022	2022	5	ROF 4 - Balance sewers (6 pipes)	Sanitary	\$451,631	\$451,631	\$0	\$0	Bond
2021/2022	2022	22	Non-Pipe Assets - Computer & Tablet	Sanitary	\$4,781	\$2,390	\$2,390	\$0	Cash
				TOTAL	\$456,411	\$454,021	\$2,390	\$0	
2022/2023	2023	11	Morhouse Lift Station	Sanitary	\$96,850	\$96,850	\$0	\$0	Cash
				TOTAL	\$96,850	\$96,850	\$0	\$0	
2023/2024	2024	23	Non-Pipe Assets - Printer	Sanitary	\$666	\$333	\$333	\$0	Cash
2023/2024	2024		Replace 6-inch water main in Grove (Battle Creek to M-96) with 8-inch water		7000	7555	, , , , , , , , , , , , , , , , , , ,	70	
2023/2024	2024	53	main	Water	\$106,770	\$0	\$106,770	\$0	Bond
2023/2024	2024	33	Replace 6-inch water main in M-96 (Grant to Norms Place) with 12-inch	- I vacci	\$100,770	1	7200,7.70		
2023/2024	2024	54	water main	Water	\$358,390	\$0	\$358,390	\$0	Bond
2023/2024	2027	J-	Replace 4-inch water main in New Street (Battle Creek to Gale Valley	774401	7000,000		7		
2023/2024	2024	56	Estates) with 8-inch water main	Water	\$131,410	\$0	\$131,410	\$0	Bond
2023/2024	2021	30	Replace 8-inch water main in M-96 (Burgess/36th Street, east of 12" water		, , , , , , , , , , , , , , , , , , , ,				2023,700
2023/2024	2024	57	main) with 12-inch water main	Water	\$335,991	\$0	\$335,991	\$0	Bond
	13440			TOTAL	\$933,227	\$333	\$932,894	\$0	
					-				***************************************
2024/2025	2025	7a	Mill Street	Storm, Road, Water	\$362,287	\$0	\$97,817	\$264,469	Bond
2024/2025		7b	Battle Creek Street (Grove to 5-way intersection)	Storm, Road, Water	\$1,267,823	\$0	\$291,599	\$976,224	Bond
2024/2025		7c	Church Street	Storm, Road, Water	\$532,761	\$0	\$0	\$532,761	Bond
2024/2025		7d	Blake Boulevard (Toland to Grove) & Grove	Storm, Road, Water	\$649,352	\$0	\$162,338	\$487,014	Bond
2024/2025		7e	5-way intersection and Norms Place	Storm, Road, Water	\$631,531	\$0	\$631,531	\$0	Bond
2024/2025		7f	Storm Outlet treatment Pond	Storm	\$431,343	\$0	\$0	\$431,343	Bond
	Live many			TOTAL	\$3,875,097	\$0	\$1,183,286	\$2,691,811	
2025/2026	2026	9	Battle Creek (35th to Grove)	Storm, Road	\$2,620,973	\$0	\$445,565	\$2,175,408	Bond
				TOTAL	\$2,620,973	\$0	\$445,565	\$2,175,408	

CITY OF GALESBURG (MICHIGAN) SEWER FUND

CASH FLOW ANALYSIS

		2017/18	•	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25
Assumptions Base rate units billed		. 028	Increase	870	870	870	870	870	870	870
Base rate charge - quarter		\$17.00	5.50%	\$17.94	\$18.92	\$19.96	\$21.06	\$22.22	\$23.44	\$24.73
Volume sold - annual mgai		36,914		36,914	36,914	36,914	36,914	36,914	36,914	36,914
Commodity charge - mgal		\$3.66	2.50%	\$3.86	\$4.07	\$4.30	\$4.53	\$4.78	\$5.05	\$5.32
Typical homeowner's bill (assumes 13,500 gallons/quarter)		\$66.41		\$70.06	\$73.92	\$77.98	\$82.27	\$86.80	\$91.57	896.61
Revenues Base charge Commodity charge		\$59,160		\$62,414	\$65,847	\$69,468	\$73,289	\$77,320	\$81,572	\$86,059
Total revenues		194,264	•	204,948	216,221	228,113	240,659	253,895	267,859	282,592
Total expenditures		167,350	•	169,974	172,642	175,357	178,119	180,928	183,786	186,694
Net operating revenue		26,914		34,975	43,578	52,756	62,540	72,967	84,073	868,26
Less: Estimated system CCTV, root cutting & cleaning Estimated cash-funded capital improvements		17,771		17,771 23,788	17,771 302	17,771	17,771	17,771	17,771 96,850	17,771
Estimated Debt Service #1 2019/20 Bonds [1] Estimated Debt Service #2 2029/30 Bonds [2] Estimated Debt Service #3 2033/34 Bonds [3]		. La constitución de la constitu	·		11,375	35,000	35,000	35,000	35,000	35,000
Net cash flow		\$9,143		(\$6,584)	\$14,131	(\$15)	(\$19,240)	(\$433,825)	(\$65,548)	\$42,794
Cash & investments	\$687,216	\$696,359		\$689,775	\$703,906	\$703,891	\$684,651	\$250,826	\$185,279	\$228,072

^[1] Estimated debt service payments based on a \$868,544 40-year bond issue at the current USDA intermediate rate (2.625%). [2] Estimated debt service payments based on a \$1,176,496 40-year bond issue at the current USDA intermediate rate (2.625%). [3] Estimated debt service payments based on a \$3,298,523 40-year bond issue at the current USDA intermediate rate (2.625%).

CITY OF GALESBURG (MICHIGAN) SEWER FUND

CASH FLOW ANALYSIS

(Continued)

2037/38	870	\$35.09	36.914	\$7.55	\$122,105	278,852	400,957	229,446	171,512	17,771 9,807	35,000	47,500	133,125	(\$71,691)	\$238,969
2036/37	870	\$34.23	36.914	\$7.37	\$119,127	272,051	391,178	225,804	165,374	17,771	35,000	47,500	133,125	(\$68,022)	\$310,660
2035/36	870	\$33.40	36,914	\$7.19	\$116,222	265,416	381,637	222,225	159,412	17,771 47,668	35,000	47,500	133,125	(\$121,651)	\$378,682
2034/35	870	\$32.58	36.914	\$7.01	\$113,387	258,942	372,329	218,707	153,622	17,771	35,000	47,500	133,125	(\$79,774)	\$500,333
2033/34	870	\$31.79	36.914	\$6.84	\$110,621	252,626	363,248	215,251	147,997	17,771	35,000	47,500	43,250	\$4,476	\$580,107
2032/33	870	\$31.01	36,914	\$6.68	\$107,923	246,465	354,388	211,854	142,534	17,771	35,000	47,500	***************************************	\$42,264	\$575,631
2031/32	870	\$30.26	36,914	\$6.51	\$105,291	240,453	345,744	208,515	137,229	17,771 61,638	35,000	47,500		(\$24,679)	\$533,368
2030/31	870	\$29.52	36,914	\$6.36	\$102,723	234,589	337,312	205,234	132,078	17,771	35,000	47,500		\$31,807	\$558,047
2029/30	870	\$28.80	36,914	\$6.20	\$100,217	228,867	329,084	202,009	127,076	17,771	35,000	15,500		\$58,805	\$526,240
2028/29	870	\$28.10	36,914	\$6.05	\$97,773	223,285	321,058	198,839	122,219	17,71	35,000			\$69,448	\$467,435
2027/28	870	\$27.41	36,914	\$5.90	\$95,388	217,839	313,227	195,724	117,503	17,771 10,684	35,000			\$54,049	\$397,987
2026/27	870	\$26.74	36,914	\$5.76	\$93,062	212,526	305,588	192,662	112,926	17,771	35,000			\$60,155	\$343,938
•	Increase	2.50%		2.50%		•		•					•	и	
2025/26	870	\$26.09	36,914	\$5.62	\$90,792	207,342	298,134	189,652	108,482	17,71	35,000			\$55,711	\$283,784

Part Three: Detailed Cost Estimates



Owner:	
City of Galesburg	
Project Title:	
Project #1: Michigan Ave @ Thomas - Sanita	ary Sewer Point Repair
Date:	Project #:
7/05/2017	2130283

ltem				Unit Dring	Total Amount
No.	Description	Quantity	Unit	Unit Price	Total Amount
				#1 000 00	#1 000 00
1	Mobilization		LF	\$1,000.00	\$1,000.00
2	MDOT Coordination	1	LS	\$700.00	\$700.00
3	Remove pavement	55	SY	\$20.00	\$1,100.00
4	Remove curb and gutter	40	LF	\$10.00	\$400.00
5	Remove and Replace Concrete Sidewalk	160	SF	\$8.00	\$1,280.00
6	Milling 10' - 2" depth outside disturbed limits	30	SY	\$10.00	\$300.00
7	Excavate and repair 8" sanitary sewer	1	LS	\$3,500.00	\$3,500.00
8	Replace curb and gutter	40	LF	\$40.00	\$1,600.00
9	HMA road patch - top course (2")	85	SY	\$20.00	\$1,700.00
10	HMA road patch - base course (4")	55	SY	\$40.00	\$2,200.00
11	Gravel road patch, 8"	55	SY	\$12.00	\$660.00
12	Traffic Control	1	LS	\$3,000.00	\$3,000.00
13	Restoration	1	LS	\$500.00	\$500.00
	Subtotal				\$17,940.00
	Engineering, Administration & Legal (20%)				\$3,588.00
	Contingencies (10%)				\$1,794.00
	Project Total				\$23,322.00



Owner:		
City of Galesburg		
Project Title:		
Project #2: Michigan Ave @ Climax - Storm Sewer Point	nt Repair	
	Project #:	
Date:	riojeci #.	

Item					
No.	Description	Quantity	Unit	Unit Price	Total Amount
			:		
1	Mobilization	1	LF	\$1,000.00	\$1,000.00
2	Utility Coordination	1	LS	\$500.00	\$500.00
3	Remove pavement	55	SY	\$20.00	\$1,100.00
4	Remove curb and gutter	40	LF	\$10.00	\$400.00
5	Milling 10' - 2" depth outside disturbed limits	30	SY	\$10.00	\$300.00
6	Excavate and repair 15" storm sewer	1	LS	\$3,500.00	\$3,500.00
7	Replace curb and gutter	40	LF	\$40.00	\$1,600.00
8	HMA road patch - top course (2")	85	SY	\$20.00	\$1,700.00
9	HMA road patch - base course (4")	55	SY	\$40.00	\$2,200.00
10	Gravel road patch, 8"	55	SY	\$12.00	\$660.00
11	Traffic Control	1	LS	\$2,500.00	\$2,500.00
12	Restoration	1	LS	\$500.00	\$500.00
	Subtotal				\$15,960.00
	Engineering, Administration & Legal (20%)				\$3,192.00
	Contingencies (10%)				\$1,596.00
	Project Total				\$20,748.00

Prein&Newhof Engineers • Surveyors • Environmental • Laboratory

Estimate of Probable Cost

Owner:	
City of Galesburg	
Project Title:	
Project #3: Battle Creek @ Grove - Storm Sewer Point F	Repair
Date:	Project #:
7/05/2017	2130283

ltem					
No.	Description	Quantity	Unit	Unit Price	Total Amount
1	Mobilization	1	LF	\$1,000.00	\$1,000.00
2	Remove pavement	80	SY	\$20.00	\$1,600.00
3	Milling 10' - 2" depth outside disturbed limits	40	SY	\$10.00	\$400.00
4	Excavate and repair 12" storm sewer	1	LS	\$3,500.00	\$3,500.00
5	HMA road patch - top course (2")	120	SY	\$20.00	\$2,400.00
6	HMA road patch - base course (2")	80	SY	\$20.00	\$1,600.00
7	Gravel road patch, 8"	80	SY	\$12.00	\$960.00
8	Traffic Control	1	LS	\$2,500.00	\$2,500.00
9	Restoration	1	LS	\$500.00	\$500.00
	Subtotal				\$14,460.00
	Engineering, Administration & Legal (20%)				\$2,892.00
	Contingencies (10%)				\$1,446.00
	Project Total				\$18,798.00

Prein&Newhof Engineers - Surveyors - Environmental - Laboratory

Estimate of Probable Cost

Owner:	
City of Galesburg	
Project Title:	
Project #5: Sanitary Sewer Cured In Place Pip	e (CIPP) - Balance of CIP
Date:	Project #:
8/14/2017	2130283

Item					
No.	Description	Quantity	Unit	Unit Price	Total Amount
	Mainline CIPP				
1	Pre and Post Insertion Video Inspection	1,684	lf	\$1.00	\$1,684.00
2	8" Sanitary Sewer, CIPP (Cleaning, Disposal and Lining)	199	lf	\$35.00	\$6,965.00
3	10" Sanitary Sewer, CIPP (Cleaning, Disposal and Lining)	1,303	lf	\$40.00	\$52,120.00
4	12" Sanitary Sewer, CIPP (Cleaning, Disposal and Lining)	182	lf	\$45.00	\$8,190.00
5	Service Connection By Remote Cut (Lateral Reinstatement)	30	ea	\$150.00	\$4,500.00
6	Remove Protruding Tap	0	ea	\$300.00	\$0.00
7	Pre and Post Insertion Video Inspection - Lateral Rehabilitation	30	ea	\$400.00	\$12,000.00
8	4"-6" Lateral Rehabilitation (Cleaning, Disposal, and Lining), up to 10' in length	30	ea	\$3,800.00	\$114,000.00
9	4"-6" Lateral Rehabilitation (Cleaning, Disposal, and Lining), over 10' in length	690	lf	\$25.00	\$17,250.00
10	5 Year Full Warranty for Sanitary Sewer Lining - CIPP	1	lsum	\$10,000.00	\$10,000.00
11	Construction Bypass Operation	1,684	lf	\$20.00	\$33,680.00
12	Soil Erosion & Sedimentation Control	1,684	lf	\$0.10	\$168.40
13	Restoration	1,684	lf	\$0.25	\$421.00
14	Traffic Control	1,684	lf	\$20.00	\$33,680.00
15	Project Mobilization	1	lsum	\$20,000.00	\$20,000.00
	Subtotal Mainline CIPP				\$314,658.40
	Additional Lateral Lining				
16	Pre and Post Insertion Video Inspection - Lateral Rehabilitation	0	ea	\$400.00	\$0.00
17	4"-6" Lateral Rehabilitation (Cleaning, Disposal, and Lining), up to 10' in length	0	ea	\$3,800.00	\$0.00
18	4"-6" Lateral Rehabilitation (Cleaning, Disposal, and Lining), over	0	lf	\$25.00	\$0.00
19	10' in length 5 Year Full Warranty for Lateral Rehabilitation - CIPP	0	lsum	\$5,000.00	\$0.00
1	S Toll 7 th Waltary for Zalora Managaman Sir 1			,,,,,,,,,,	,
	Subtotal Lateral Lining				\$0.00
	Subtotal		1	l	\$314,658.40
	Engineering, Administration & Legal (20%) \$62,931.68				
	Contingencies (10%)				\$31,465.84
	Project Total \$409,055.92				
L					



\$32,230.00

\$16,115.00

\$209,495.00

Owne								
	y of Galesburg							
Proje	ct Title:							
	ject #6: Michigan Avenue Resurfacing							
Date:			Project #:					
7/0	5/2017		2130283					
Item No.	Description	Quantity	Unit	Unit Price	Total Amount			
	Michigan Avenue (M-96 to McCollum)	1						
1	Mill (2-inch)	14,900	SY	\$1.50	\$22,350.00			
2	Mill around sanitary/storm castings	22	EA	\$150.00	\$3,300.00			
3	Mill around water main/section corner castings	10	EA	\$150.00	\$1,500.00			
4	HMA Pavement (MDOT 36A, 2-inch)	1,800	TON	\$65.00	\$117,000.00			
5	Pavement Striping (Thermo Plastic)	1	LS	\$10,000.00	\$10,000.00			
6	Pavement Markings (Cold Plastic)	1	LS	\$2,000.00	\$2,000.00			
7	SESC	1	LS	\$500.00	\$500.00			
8	Traffic Control	1	LS	\$4,500.00	\$4,500.00			
1	Subtotal \$161,150.00							

All work quantities and costs are estimated for preliminary planning purposes only. Costs estimated in 2017 Dollars

Engineering, Administration & Legal (20%)

Contingencies (10%)

Project Total



Owner:	
City of Galesburg	
Project Title:	
Project #7: Mill Street, Battle Creek, Church Street, Bl	ake Street Reconstruction
Date:	Project #:
7/05/2017	2130283

Description	Quantity	Unit	Unit Price	Total Am
Removals - Mill (From BC Street, South to End)				\$16,
Removals - Battle Creek (From Grove to Mills)				\$61,
Removals - Blake / Grove (From BC Street to Toland)				\$32,
Removals - Church Street (From M96 to River)				\$23,
Removals - 5-way Intersection				\$31,
Total				\$165,
Sanitary Sewer - Mill (From BC Street, South to End)				\$1,
Sanitary Sewer - Battle Creek (From Grove to Mills)				\$2,
Sanitary Sewer - Blake / Grove (From BC Street to Toland)				\$1,
Sanitary Sewer - Church Street (From M96 to River)				\$1,
Sanitary Sewer - 5-way Intersection				\$
Total				\$5,
Water Main - Mill (From BC Street, South to End)				\$63,
Water Main - Battle Creek (From Grove to Mills)				\$189,
Water Main - Blake / Grove (From BC Street to Toland)				\$106,
Water Main - Church Street (From M96 to River)				ŧ
Water Main - 5-way Intersection				\$168,
Total				\$527,
Storm - Mill (From BC Street, South to End)				\$64,
Storm - Battle Creek (From Grove to Mills)				\$212,
Storm - Blake / Grove (From BC Street to Toland)				\$124,
Storm - Church Street (From M96 to River)				\$219,
Storm - 5-way Intersection				\$49,
Total				\$671,
Storm Treatment / Pond				\$297,
Road and Restoration - Mill (From BC Street, South to End)				\$91,
Road and Restoration - Battle Creek (From Grove to Mills)				\$367,
Road and Restoration - Blake / Grove (From BC Street to Toland)				\$162,
Road and Restoration - Church Street (From M96 to River)				\$104,
Road and Restoration - 5-way Intersection				\$165,
Total	***************************************			\$891,
Subtotal	I			\$2,558,
Engineering, Administration & Legal (20%)				\$511,
Contingencies (10%)			\$255,	



ltem					
No.	Description	Quantity	Unit	Unit Price	Total Amount
,	Removals Remove concrete sidewalk	1,520	SF	\$1.00	\$1,520.00
1 2	Remove Concrete sidewalk Remove HMA pavement	1,165	SY	\$1.50 \$1.50	\$1,747.50
3	Remove HMA pavement	610	SY	\$1.50 \$1.50	\$915.00
4	Remove Concrete Curb	550	LF	\$2.50	\$1,375.00
5	Remove driveways	6	EA	\$200.00	\$1,200.00
6	Remove existing storm structures	9	EA	\$500.00	\$4,500.00
7	Remove / Abandon existing storm pipe	683	LF	\$5.00	\$3,415.00
8	Tree Removal	1		\$2,000.00	\$2,000.00
ľ	Total	_		4-,	\$16,672.50
					420,012.00
	Sanitary Sewer				
9	Adjust Sanitary Manhole	2	EA	\$500.00	\$1,000.00
	Total				\$1,000.00
	Water Main				
10	Remove Hydrants	2	EA	\$300.00	\$600.00
11	Abandon Water Main	1	LS	\$2,000.00	\$2,000.00
12	8-Inch DI Water Main	525	LF	\$60.00	\$31,500.00
13	Connection to existing WM	1	EA	\$5,000.00	\$5,000.00
14	Hydrants	2	EA	\$3,500.00	\$7,000.00
15	Water Services	7	EA	\$2,500.00	\$17,500.00
	Total				\$63,600.00
	<u>Storm</u>				
16	4' Dia. Storm Sewer Manhole	8	EA	\$3,000.00	\$24,000.00
17	15" Storm Sewer	683	LF	\$60.00	\$40,980.00
	Total				\$64,980.00
	Road and Restoration	100	av.	610.00	£4.200.00
18	Subgrade Undercutting	430	CY	\$10.00	\$4,300.00
19	Subgrade Undercutting	240	CY	\$5.00	\$1,200.00
20	Machine Grading Modified	5.25	STA	\$1,500.00	\$7,875.00
21	HMA - Leveling course, 2-inch	140	TON	\$65.00	\$9,100.00
22	HMA - Top Course, 2-inch	140	TON	\$65.00 \$12.00	\$9,100.00
23	8" Stabilized Gravel (MDOT 22A)	600		\$12.00 \$65.00	\$7,200.00
24	HMA - Leveling course, 2-inch HMA - Top Course, 2-inch	75 75	TON TON	\$65.00 \$65.00	\$4,875.00 \$4,875.00
25	.	340	TON	\$63.00 \$12.00	\$4,873.00 \$4,080.00
26	8" Stabilized Gravel (MDOT 22A)	1,050	LF	\$12.00	\$4,080.00 \$15,750.00
27	Concrete Curb and Gutter Concrete Sidewalk	1,520	SF	\$6.00	\$9,120.00
28	ADA Plates	1,320		\$40.00	\$400.00
l	i e	6	i I	\$1,000.00	
30	Driveway Reconstruction	i o	EA	φ1,000.00	φυ,υυυ.υυ



\$47,570.50

\$23,785.25 \$309,208.25

Owne	r:					
City	y of Galesburg					
Projec	t Title:					
Pro	ject #7a: Mill Street (From BC Street, South to End)					
Date: Project #:						
7/05/2017 2130283						
ltem						
No.	Description		Quantity	Unit	Unit Price	Total Amount
31	Restoration		5.25	STA	\$500.00	\$2,625.00
32	Trees/Shrubs		7	EA	\$300.00	\$2,100.00
33	Soil Erosion Control		1	LS	\$1,000.00	\$1,000.00
34	Traffic Control		1	LS	\$2,000.00	\$2,000.00
	Total					\$91,600.00
	Subtotal					\$237,852.50

All work quantities and costs are estimated for preliminary planning purposes only.

Engineering, Administration & Legal (20%)

Costs estimated in 2017 Dollars

Project Total

Contingencies (10%)



Item					T. () A
No.	Description 1	Quantity	Unit	Unit Price	Total Amount
	Removals	40.500	an l	41.00	#10 F00 00
1	Remove concrete sidewalk	12,500	SF	\$1.00	\$12,500.00
2	Remove HMA pavement	5,200	SY	\$1.50	\$7,800.00
3	Remove Concrete Curb	2,600	LF	\$2.50	\$6,500.00
4	Remove driveways	21	EA	\$200.00	\$4,200.00
5	Remove existing storm structures	25	EA	\$500.00	\$12,500.00
6	Remove / Abandon existing storm pipe	1,618	I 1	\$5.00	\$8,090.00
7	Tree Removal	1	LSUM	\$10,000.00	\$10,000.00
	Total				\$61,590.00
		İ			
	Sanitary Sewer				
8	Adjust Sanitary Manhole	4	EA	\$500.00	\$2,000.00
	Total				\$2,000.00
	Water Main				
9	Remove Hydrants	2	EA	\$300.00	\$600.00
10	Abandon Water Main	1	LS	\$2,000.00	\$2,000.00
11	8-Inch DI Water Main	100	LF	\$60.00	\$6,000.00
12	12-Inch DI Water Main	1,250	LF	\$70.00	\$87,500.00
13	Connection to existing WM	3	EA	\$5,000.00	\$15,000.00
14	Hydrants	3	EA	\$3,500.00	\$10,500.00
15	Water Services	27	EA	\$2,500.00	\$67,500.00
	Total				\$189,100.00
	<u>Storm</u>				
16	4' Dia, Storm Sewer Manhole	17	EA	\$3,000.00	\$51,000.00
17	5' Dia. Storm Sewer Manhole	4	EA	\$4,000.00	\$16,000.00
18	6' Dia. Storm Sewer Manhole	2	EA	\$5,000.00	\$10,000.00
19	8' Dia. Storm Sewer Manhole	1	EA	\$6,500.00	\$6,500.00
20	15" Storm Sewer	438		\$60.00	\$26,280.00
21	18" Storm Sewer	355		\$65.00	\$23,075.00
22	21" Storm Sewer	167	LF	\$80.00	\$13,360.00
23	24" Storm Sewer	330	LF	\$80.00	\$26,400.00
24	27" Storm Sewer	274	LF	\$90.00	\$24,660.00
25	36" Storm Sewer	54		\$100.00	\$5,400.00
26	Dewatering	1	LS	\$10,000.00	\$10,000.00
	Total				\$212,675.00
	Read and Restauction				
27	Road and Restoration Subgrade Underputting	1,925	CY	\$10.00	\$19,250.00
27	Subgrade Undercutting Machine Grading Modified	13.00		\$1,500.00	\$19,500.00
28		630	ł	\$65.00	\$40,950.00
29	HMA - Base course, 2-inch		l .	\$65.00	
30	HMA - Leveling course, 2-inch	630	ION	1 403,00	\$40,530.00



Owner:		
City of Galesburg		
Project Title:		
Project #7b: Battle Creek (From Grove to Mills)		
Date:	Project #:	
7/05/2017	2130283	

ltem					
No.	Description	Quantity	Unit	Unit Price	Total Amount
31	HMA - Top Course, 2-inch	630	TON	\$65.00	\$40,950.00
32	8" Stabilized Gravel (MDOT 22A)	2,700	TON	\$12.00	\$32,400.00
33	Pavement Striping (Thermo Plastic)	1	LS	\$5,000.00	\$5,000.00
34	Pavement Markings (Cold Plastic)	1	LS	\$2,000.00	\$2,000.00
35	Concrete Curb and Gutter	2,600	LF	\$15.00	\$39,000.00
36	Concrete Sidewalk	12,500	SF	\$6.00	\$75,000.00
37	ADA Plates	110	SF	\$40.00	\$4,400.00
38	Driveway Reconstruction	21	EA	\$1,000.00	\$21,000.00
39	Restoration	13.00	STA	\$500.00	\$6,500.00
40	Trees/Shrubs	27	EA	\$300.00	\$8,100.00
41	Soil Erosion Control	1	LS	\$2,000.00	\$2,000.00
42	Traffic Control	1	LS	\$10,000.00	\$10,000.00
	Total				\$367,000.00
	Subtotal		-		\$832,365.00
	Engineering, Administration & Legal (20%)				\$166,473.00
	Contingencies (10%)				\$83,236.50
	Project Total				\$1,082,074.50



 Owner:
 City of Galesburg

 Project Title:
 Project #7c: Church Street (From M96 to River)

 Date:
 Project #:

 7/05/2017
 2130283

Item					T-1-1 A
No.	Description	Quantity	Unit	Unit Price	Total Amount
	Dominale				
1	Removals Remove concrete sidewalk	1,400	SF	\$1.00	\$1,400.00
1 2	Remove HMA pavement (Church)	1,400	SY	\$1.50	\$2,010.00
3	Remove HMA pavement (M-96)	90	SY	\$1.50	\$135.00
4	Remove HMA pavement (Parking Lot)	570	SY	\$1.50 \$1.50	\$855.00
5	Mill (2-inch) - M96	450	SY	\$2.00	\$900.00
6	Remove Concrete Curb	800	LF	\$2.50	\$2,000.00
7	Remove driveways	6	EA	\$200.00	\$1,200.00
8	Remove existing storm structures	7	EA	\$500.00	\$3,500.00
9	Remove / Abandon existing storm pipe	1,383	LF	\$5.00	\$6,915.00
10	Tree Removal		LSUM	\$5,000.00	\$5,000.00
10	Total	1	LOUN	Ψ5,000.00	\$23,915.00
	1 otal				Ψ25,Σ15.00
	Sanitary Sewer				
11	Adjust Sanitary Manhole	2	EA	\$500.00	\$1,000.00
**	Total	[L. I	Ψ300.00	\$1,000.00
	1000				Ψ1,000.00
	Water Main				
	Total				\$0.00
	1 otal				φ0.00
	Storm				
12	4' Dia, Storm Sewer Manhole	3	EA	\$3,000.00	\$9,000.00
13	6' Dia. Storm Sewer Manhole	3	EA	\$5,000.00	\$15,000.00
14	15" Storm Sewer	117	LF	\$60.00	\$7,020.00
15	36" Storm Sewer	421	LF	\$100.00	\$42,100.00
16	42" Storm Sewer	845	LF	\$150.00	\$126,750.00
17	Dewatering	1	LS	\$20,000.00	\$20,000.00
	Total				\$219,870.00
					,
	Road and Restoration				
18	Subgrade Undercutting	500	CY	\$10.00	\$5,000.00
19	Machine Grading Modified	4.00	STA	\$1,500.00	\$6,000.00
20	HMA - Base course, 5-inch (M-96)	30	TON	\$65.00	\$1,950.00
21	HMA - Leveling course, 3-inch (M-96)	20	TON	\$65.00	\$1,300.00
22	HMA - Top Course, 2-inch (M-96)	55	TON	\$65.00	\$3,575.00
	8" Stabilized Gravel (MDOT 22A) - M-96	42	TON	\$12.00	\$504.00
24	HMA - Leveling course, 2-inch (Church St.)	160	TON	\$65.00	\$10,400.00
25	HMA - Top Course, 2-inch (Church St.)	160	TON	\$65.00	\$10,400.00
26	8" Stabilized Gravel (MDOT 22A) - (Church St.)	700	TON	\$12.00	\$8,400.00
27	HMA - Leveling course, 1.5-inch (Parking Lot)	52		\$65.00	\$3,380.00
28	HMA - Top Course, 1.5-inch (Parking Lot)	52	TON	\$65.00	\$3,380.00
29	6" Stabilized Gravel (MDOT 22A) - (Parking Lot)	200	TON	\$12.00	\$2,400.00
30	Concrete Curb and Gutter	800		\$15.00	\$12,000.00
	I	1	•		•



\$349,774.00 \$69,954.80

\$34,977.40

\$454,706.20

Owner	1				
City	of Galesburg				
Projec	t Title:				
Proj	ect #7c: Church Street (From M96 to River)				
Date:			Project #	:	
7/05	/2017		21302	83	
Item					
No.	Description	Quantity	Unit	Unit Price	Total Amount
31	Concrete Sidewalk	1,400	SF	\$6.00	\$8,400.00
32	ADA Plates	60	SF	\$40.00	\$2,400.00
33	Driveway Reconstruction	6	EA	\$1,000.00	\$6,000.00
34	Restoration	13.00	STA	\$500.00	\$6,500.00
35	Trees/Shrubs	10	EA	\$300.00	\$3,000.00
36	Soil Erosion Control	1	LS	\$5,000.00	\$5,000.00
37	Traffic Control	1	LS	\$5,000.00	\$5,000.00
	Total				\$104,989.00

All work quantities and costs are estimated for preliminary planning purposes only. Costs estimated in 2017 Dollars

Engineering, Administration & Legal (20%)

Contingencies (10%)

Project Total



Item	5	0	11	Unit Drice	Total Amount
No.	Description	Quantity	Unit	Unit Price	Total Amount
	Removals				
1	Remove concrete sidewalk	800	SF	\$1.00	\$800.00
2	Remove HMA pavement (Grove)	760	SY	\$1.50	\$1,140.00
3	Remove HMA pavement (Blake)	2,670	SY	\$1.50	\$4,005.00
4	Remove Concrete Curb	1,900	LF	\$2.50	\$4,750.00
5	Remove driveways	12	EA	\$200.00	\$2,400.00
6	Remove existing storm structures	16	EA	\$500.00	\$8,000.00
7	Remove / Abandon existing storm pipe	1,197	LF	\$5.00	\$5,985.00
8	Tree Removal	1	LSUM	\$5,000.00	\$5,000.00
	Total			, , , , , , , , , , , , , , , , , , , ,	\$32,080.00
					, ,
	Sanitary Sewer		İ		
9	Adjust Sanitary Manhole	2	EA	\$500.00	\$1,000.00
	Total				\$1,000.00
	Water Main				
10	Remove Hydrants	2	EA	\$300.00	\$600.00
11	Abandon Water Main	1	LS	\$2,000.00	\$2,000.00
12	8-Inch DI Water Main	950	LF	\$60.00	\$57,000.00
13	Connection to existing WM	2	EA	\$5,000.00	\$10,000.00
14	Hydrants	2	EA	\$3,500.00	\$7,000.00
15	Water Services	12	EA	\$2,500.00	\$30,000.00
	Total				\$106,600.00
	Storm_				
16	4' Dia. Storm Sewer Manhole	14	EA	\$3,000.00	\$42,000.00
17	5' Dia. Storm Sewer Manhole	1	EA	\$4,000.00	\$4,000.00
18	15" Storm Sewer	492	LF	\$60.00	\$29,520.00
19	18" Storm Sewer	522		\$65.00	\$33,930.00
20	21" Storm Sewer	183	LF	\$80.00	\$14,640.00
	Total				\$124,090.00
	Road and Restoration	200	(37	610.00	#A 000 00
21	Subgrade Undercutting (Grove)	280		\$10.00	\$2,800.00
22	Subgrade Undercutting (Blake)	945	i	\$10.00	\$9,450.00
	Machine Grading Modified (Grove)	2.00	I	\$1,500.00	\$3,000.00
24	Machine Grading Modified (Blake)	7.50		\$1,500.00	\$11,250.00
25	HMA - Leveling course, 2-inch (Grove)	95		\$65.00	\$6,175.00
26	HMA - Top Course, 2-inch (Grove)	95		\$65.00	\$6,175.00
27	8" Stabilized Gravel (MDOT 22A) (Grove)	400		\$12.00	\$4,800.00
28	HMA - Leveling course, 2-inch (Blake)	325	TON	\$65.00	\$21,125.00
29	HMA - Top Course, 2-inch (Blake)	325	TON	\$65.00	\$21,125.00
30	8" Stabilized Gravel (MDOT 22A) (Blake)	1,400	TON	\$12.00	\$16,800.00



Owner:		
City of Galesburg		
Project Title:		
Project #7d: Blake / Grove (From BC Street to Toland)		
Date:	Project #:	
7/05/2017	2130283	

ltem					
No.	Description	Quantity	Unit	Unit Price	Total Amount
31	Concrete Curb and Gutter	1,900	LF	\$15.00	\$28,500.00
32	Concrete Sidewalk	800	SF	\$6.00	\$4,800.00
33	ADA Plates	80	SF	\$40.00	\$3,200.00
34	Driveway Reconstruction	13	EA	\$1,000.00	\$12,000.00
35	Restoration	9.50	STA	\$500.00	\$4,750.00
36	Trees/Shrubs	12	EA	\$300.00	\$3,600.00
37	Soil Erosion Control		LS	\$1,000.00	\$1,000.00
38	Traffic Control		LS	\$2,000.00	\$2,000.00
	Total				\$162,550.00
	Subtotal	•			\$426,320.00
	Engineering, Administration & Legal (20%) \$85,26				
	Contingencies (10%)				\$42,632.00
	Project Total				\$554,216.00



Owner:

 City of Galesburg

Project Title:

 Project #7e: 5-way Intersection

Date:

7/05/2017

Project #:

2130283

Item No.	Description	Quantity	Unit	Unit Price	Total Amount
	Removals				
1	Remove concrete sidewalk	1,600	SF	\$1.00	\$1,600.00
2	Remove HMA overlaid concrete roadway (M-96)	2,150	SY	\$10.00	\$21,500.00
3	Remove HMA pavement (Norms Place)	680	SY	\$1.50	\$1,020.00
4	Remove Concrete Curb	340	LF	\$2.50	\$850.00
5	Remove existing storm structures	8	EA	\$500.00	\$4,000.00
6	Remove / Abandon existing storm pipe	435	LF	\$5.00	\$2,175.00
	Total				\$31,145.00
	Sanitary Sewer				
7	Adjust Sanitary Manhole	1	EA	\$500.00	\$500.00
	Total				\$500.00
	Water Main				
8	Remove Hydrants	1	EA	\$300.00	\$300.00
9	Abandon Water Main	1	LS	\$2,000.00	\$2,000.00
10	12-Inch DI Water Main	645	LF	\$120.00	\$77,400.00
11	12" Butterfly Valves	13	EA	2,000.00	\$26,000.00
12	Insert-a-valve	6	EA	9,000.00	\$54,000.00
13	Hydrants	1	EA	\$3,500.00	\$3,500.00
14	Water Services	2	EA	\$2,500.00	\$5,000.00
	Total				\$168,200.00
	<u>Storm</u>				
15	4' Dia. Storm Sewer Manhole	8	EA	\$3,000.00	\$24,000.00
16	15" Storm Sewer	425	LF	\$60.00	\$25,500.00
	Total				\$49,500.00
	Road and Restoration				
17	Subgrade Undercutting	710	CY	\$10.00	\$7,100.00
18	HMA - Base course, 5-inch (M-96)	650		\$65.00	\$42,250.00
19	HMA - Leveling course, 3-inch (M-96)	390	TON	\$65.00	\$25,350.00
20	HMA - Top Course, 2-inch (M-96)	260	TON	\$65.00	\$16,900.00
21	8" Stabilized Gravel (MDOT 22A) - M-96	1,000	TON	\$12.00	\$12,000.00
22	HMA - Base course, 2-inch (Norms Place)	85	TON	\$65.00	\$5,525.00
23	HMA - Leveling course, 2-inch (Norms Place)	85	TON	\$65.00	\$5,525.00
24	HMA - Top Course, 2-inch (Norms Place)	85	TON	\$65.00	\$5,525.00
25	8" Stabilized Gravel (MDOT 22A) - (Norms Place)	350	TON	\$12.00	\$4,200.00
26	Concrete Curb & Gutter	340	l	15.00	\$5,100.00
27	ADA Plates	80	SF	\$40.00	\$3,200.00
28	Pavement Striping	1	LS	2,000.00	\$2,000.00
29	Concrete Sidewalk & ADA plates	1,600	I	6.00	
30	Soil Erosion Control	1	LS	1,000.00	\$1,000.00



Owne	er:		***************************************		
Cit	y of Galesburg				
Proje	ct Title:				
Pro	ject #7e: 5-way Intersection				
Date:			Project	#:	
7/0	5/2017		2130	283	
Item No.	Description Traffic Control	Quantity 1	Unit	Unit Price 20,000.00	Total Amount \$20,000.00
	Total				\$165,275.00
	Subtotal				\$414,620.00
	Engineering, Administration & Legal (20%)				\$82,924.00
	Contingencies (10%)				\$41,462.00
	Project Total				\$539,006.00



\$59,453.00 \$29,726.50

\$386,444.50

Owner	1				
City	of Galesburg				
Projec	t Title:				
Proj	ect #7f: Storm Pond and Treatment				
Date:			Project #:		
7/05	5/2017		2130283		
Item No.	Description	Quantity	Unit	Unit Price	Total Amount
	·				
	Storm Treatment / Pond				
1	Mobilization	1	LSUM	\$10,000.00	\$10,000.00
2	Site Clearing & Grubbing/Trees and Brush	180,000	SF	\$0.20	\$36,000.00
3	Strip and stockpile topsoil (6" deep)	3,350	CY	\$4.50	\$15,075.00
4	Soil excavation and grading	6,700	CY	\$13.00	\$87,100.00
5	Storm sewer	124	LF	\$60.00	\$7,440.00
6	Storm structures	2	EA	\$3,500.00	\$7,000.00
7	Erosion control blanket	2.7	ACRE	\$5,000.00	\$13,500.00
8	Native Seeding	2.7	ACRE	\$4,500.00	\$12,150.00
9	Trees/Shrubs	30	EA	\$300.00	\$9,000.00
10	Easement / Property Purchase	1	LS	\$100,000.00	\$100,000.00
	Subtotal				\$297,265.00

All work quantities and costs are estimated for preliminary planning purposes only. Costs estimated in 2017 Dollars

Engineering, Administration & Legal (20%)

Contingencies (10%)

Project Total



Owner:
City of Galesburg

Project Title:
Project #8: Beckwith Drive Reconstruction

Date:
8/14/2017
Project #:
2130283

Item					
No.	Description	Quantity	Unit	Unit Price	Total Amount
l .	Removals			** **	***
1	Remove concrete sidewalk	11,200		\$1.00	\$11,200.00
2	Remove asphalt pavement	7,000		\$1.50	\$10,500.00
3	Remove driveways	23		\$200.00	\$4,600.00
4	Remove existing storm structures	30		\$500.00	\$15,000.00
5	Remove / Abandon existing storm pipe	3,127	LF	\$5.00	\$15,635.00
	Sanitary Sewer				
6	Remove existing sanitary structures	5	EA	\$500.00	\$2,500.00
7	Remove / Abandon existing sanitary pipe	1,446		\$5.00	\$7,230.00
8	Adjust Sanitary Manhole	10		\$500.00	\$5,000.00
9	Sanitary Manhole	5	EA	\$4,000.00	\$20,000.00
10	Sanitary Sewer, 12-inch	1,900	1 1	\$50.00	\$95,000.00
11	Sanitary Lateral	15	EA	\$3,000.00	\$45,000.00
12	Connect Sanitary Mainline Pipes	2	EA	\$1,000.00	\$2,000.00
13	Bypass Pumping	1,446	1 1	\$20.00	\$28,920.00
14	Dewatering	1,446	1 1	\$25.00	\$36,150.00
	Water Main				
15	Adjust Water Valve	10	1	\$300.00	\$3,000.00
16	Relocate Hydrant	6	EA	\$2,000.00	\$12,000.00
	Storm				
17	2' Dia. Storm Sewer Inlet	21	EA	\$1,500.00	\$31,500.00
18	5' Dia, Storm Sewer Manhole	18	1	\$2,000.00	\$36,000.00
19	12" Perforated Storm Sewer	700	i	\$20.00	\$14,000.00
20	24" Perforated Storm Sewer	2,800	LF	\$60.00	\$168,000.00
21	Stone Trench	5,200	l .	\$20.00	\$104,000.00
22	Connection to Ex. Storm county Drain (overflow pipe)	1	EA	\$5,000.00	\$5,000.00
	Road and Restoration	17.500	GX.	#10.00	#1 7 7 000 00
23	Subgrade Undercutting	17,500		\$10.00	\$175,000.00
24	Machine Grading Modified	28.00		\$1,500.00	\$42,000.00
25	HMA - Base course, 2-inch	910		\$65.00	\$59,150.00
26	HMA - Top Course, 2-inch	910		\$65.00	\$59,150.00
27	8" Stabilized Gravel (MDOT 22A)	4,050		\$12.00	\$48,600.00
28	Concrete Curb and Gutter	5,600	LF	\$15.00	\$84,000.00
29	Concrete Sidewalk	14,000		\$6.00	\$84,000.00
30	ADA Plates	80	l :	\$40.00	\$3,200.00
31	Driveway Reconstruction	23	1	\$1,000.00	\$23,000.00
32	Restoration	28.00	STA	\$500.00	\$14,000.00



Owne					
	y of Galesburg				
Proje	ct Title:				
Pro	eject #8: Beckwith Drive Reconstruction				
Date:			Project	#;	
8/1	4/2017		2130	283	
item					
No.	Description	Quantity	Unit	Unit Price	Total Amount
33	Soil Erosion Control	1	LS	\$10,000.00	\$10,000.00
34	Traffic Control	1	LS	\$10,000.00	\$10,000.00
	Subtotal				\$1,284,335.00
	Engineering, Administration & Legal (20%)				\$256,867.00
	Contingencies (10%)				\$128,433.50
	Project Total				\$1,669,635.50
1					



Project #:

Owner:

City of Galesburg

Project Title:

Project #9: Battle Creek Reconstruction (35th Street to Grove)

Date:

7/05/2017 2130283

ltem					
No.	Description	Quantity	Unit	Unit Price	Total Amount
	Removals				
1	Remove concrete sidewalk	11,500	SF	\$1.00	\$11,500.00
2	Remove HMA pavement	9,600	SY	\$1.50	\$14,400.00
3	Remove Concrete Curb	4,600	LF	\$2.50	\$11,500.00
4	Remove driveways	27	EA	\$200.00	\$5,400.00
5	Remove existing storm structures	23	EA	\$500.00	\$11,500.00
6	Remove / Abandon existing storm pipe	3,008	LF	\$5.00	\$15,040.00
7	Tree Removal	1	LSUM	\$20,000.00	\$20,000.00
	Sanitary Sewer				
8	Adjust Sanitary Manhole	8	EA	\$500.00	\$4,000.00
9	Install 8" Stub	3	EA	\$5,000.00	\$15,000.00
10	Dewatering for Stubs	3	EA	\$10,000.00	\$30,000.00
	Water Main				
11	Remove Hydrants	3	EA	\$300.00	\$900.00
12	Abandon Water Main	1	LS	\$2,000.00	\$2,000.00
13	8-Inch DI Water Main	100	LF	\$60.00	\$6,000.00
14	12-Inch DI Water Main	2,300	LF	\$70.00	\$161,000.00
15	Connection to existing WM	3	EA	\$5,000.00	\$15,000.00
16	Hydrants	6	EA	\$3,500.00	\$21,000.00
17	Water Services	29	EA	\$2,500.00	\$72,500.00
	Storm				
18	4' Dia. Storm Sewer Manhole	13	EA	\$3,000.00	\$39,000.00
19	5' Dia. Storm Sewer Manhole	9	EA	\$4,000.00	\$36,000.00
20	6' Dia. Storm Sewer Manhole	1	EA	\$5,000.00	\$5,000.00
21	15" Storm Sewer	229	LF	\$60.00	\$13,740.00
22	18" Storm Sewer	286	LF	\$65.00	\$18,590.00
23	24" Storm Sewer	899	LF	\$80.00	\$71,920.00
24	27" Storm Sewer	753	LF	\$90.00	\$67,770.00
25	36" Storm Sewer	841	LF	\$100.00	\$84,100.00
26	Storm Sewer Relocation	500	LF	\$100.00	\$50,000.00
27	Dewatering	1	LS	\$20,000.00	\$20,000.00
	Storm Treatment / Pond				
28	Mobilization	1	LSUM	\$10,000.00	\$10,000.00
29	Site Clearing & Grubbing/Trees and Brush	95,000	SF	\$0.20	\$19,000.00
30	Strip and stockpile topsoil (6" deep)	1,750	CY	\$4.50	\$7,875.00
31	Soil excavation and grading	3,500	CY	\$13.00	\$45,500.00
32	Storm sewer	520	LF	\$50.00	\$26,000.00
33	Storm structures	2	EA	\$3,500.00	\$7,000.00
			·	·	



Owner	:						
City	of Galesburg						
Projec	t Title:						
Proj	ect #9: Battle Creek Reconstruction (35th Street to Grove)						
Date:	Date: Project #:						
7/05	/2017		213028	33			
ltem							
No.	Description Erosion control blanket	Quantity	Unit ACRE	Unit Price	Total Amount		
34		2.2		\$5,000.00	\$11,000.00		
35	Native Seeding	2.2	ACRE	\$4,500.00	\$9,900.00		
36	Trees/Shrubs	30	EA	\$300.00	\$9,000.00		
37	Easement / Property Purchase	1	LS	\$100,000.00	\$100,000.00		
	De la la la la la la la la la la la la la						
100	Road and Restoration	2 400	CX.	#10.00	***		
38	Subgrade Undercutting	3,400	CY	\$10.00	\$34,000.00		
39	Machine Grading Modified	23.00	STA	\$1,500.00	\$34,500.00		
40	HMA - Base course, 2-inch	1,120	TON	\$65.00	\$72,800.00		
41	HMA - Leveling course, 2-inch	1,120	TON	\$65.00	\$72,800.00		
42	HMA - Top Course, 2-inch	1,120	TON	\$65.00	\$72,800.00		
43	8" Stabilized Gravel (MDOT 22A)	4,800	TON	\$12.00	\$57,600.00		
44	Pavement Striping (Thermo Plastic)	1	LS	\$7,500.00	\$7,500.00		
45	Pavement Markings (Cold Plastic)	1	LS	\$2,000.00	\$2,000.00		
46	Concrete Curb and Gutter	4,600	LF	\$15.00	\$69,000.00		
47	Concrete Sidewalk	11,500	SF	\$6.00	\$69,000.00		
48	ADA Plates	80	SF	\$40.00	\$3,200.00		
49	Driveway Reconstruction	27	EA	\$1,000.00	\$27,000.00		
50	Restoration	23.00	STA	\$500.00	\$11,500.00		
51	Trees/Shrubs	29	EA	\$300.00	\$8,700.00		
52	Soil Erosion Control	1	LS	\$10,000.00	\$10,000.00		
53	Traffic Control	1	LS	\$10,000.00	\$10,000.00		
Subtotal \$1,630,535.00							
	Engineering, Administration & Legal (20%)				\$326,107.00		
	Contingencies (10%)				\$163,053.50		
	Project Total				\$2,119,695.50		

Prein&Newhof Engineers - Surveyors - Environmental - Laboratory

Estimate of Probable Cost

Owner:		
City of	Galesburg	
Project Tit		
Project	#11: Morhouse Lift Station	
Date:	Project	#:
August	15, 2017 2130	0283
ltem		
No.	Description	Amount
1 De	emolition	\$1,000
2 By	pass Pumping	\$5,000
3 Co	oat Wet Well Piping	\$2,500
4 Ad	ld Surge Protection Device and IS Relay	\$3,500
5 Re	place Instrumentation and Controls	\$45,000
6 Ge	eneral Conditions	\$9,000
	Total Construction Estimate	e \$66,000



Owne Cit	r: y of Galesburg		
	ct Title:		
No	n-Pipe Assets		
Date:		Project #:	
Au	gust 15, 2017	2130283	
item No.	Description		Amount
20	Printer		\$580
21	Generator (Trailer Mounted) - 85 KW		\$53,600
22	Computer & Tablet		\$4,330
		Total Cost:	\$58,510

All work quantities and costs are estimated for preliminary planning purposes only.

Costs estimated in 2017 Dollars

City of Ga	lesburg			current year	2017
2017 Wate	er System CIP Plan			inflation rate	0.02
Project Code	Description	Proposed Year	Part of Joint Project	Today's Est. Cost	Projected Future Cost
50	Replace 6-inch water main in Battle Creek from Shafter/35 th Street to 5-Way Intersection with 12-inch water main	0	Battle Creek	Included in Underground Utility Project	Included in Underground Utility Project
51	Replace 6-inch water main in Battle Creek from 5-Way Intersection Burgess / 36 th Street with 12-inch water main	2030		\$255,000	\$329,870
52	Replace 6-inch water main in Blake (Grant to Grove) with 8-inch water main	0	Battle Creek	Included in Underground Utility Project	Included in Underground Utility Project
53	Replace 6-inch water main in Grove (Battle Creek to M-96) with 8-inch water main	2024		\$92,950	\$106,770
54	Replace 6-inch water main in M-96 (Grant to Norms Place) with 12-inch water main	2024	***************************************	\$312,000	\$358,390
55	Replace 6-inch water main in Norms Place (M-96 to Beckwith) with 12-inch water main	2030	-	\$97,500	\$126,127
56	Replace 4-inch water main in New Street (Battle Creek to Gale Valley Estates) with 8-inch water main	2024		\$114,400	\$131,410
57	Replace 8-inch water main in M-96 (Burgess/36 th Street, east of 12" water main) with 12-inch water main	2024		\$292,500	\$335,991
58	Replace 4-inch and 6-inch water main in Mill Street (South of Battle Creek Street) with 8-inch water main	0	Mills	Included in Underground Utility Project	Included in Underground Utility Project
59	Replace WM in 5-way intersection with 12-inch water main using insert-a-valves	0	5-Way	Included in Underground Utility Project	Included in Underground Utility Project
70	Close Loop at Morhouse Drive with 8-inch water main	2027		\$207,350	\$252,758
71	Close Loop from 35th Street to 36th Street with 12-inch water main	2030		\$586,300	\$758,442
72	Close Loop from 36th Street to 37th Street with 12-inch water main	2032		\$1,261,650	\$1,698,015
80	Well House Permanent Generator (85 KW)	2021		\$91,000	\$98,501
81	Additional Well	2030		\$500,000	\$646,803
		Total		\$3,810,650	\$4,843,076