STATE OF IOWA
FLOOD MITIGATION PROGRAM
PROGRESS REPORT

PERIOD COVERED BY THIS REPORT	5/1/2018	to	10/31/2018	
LOCAL CONTACT NAME:	Teri Goodmann			
GOVERNMENTAL ENTITY:	City of Dubuque			
ADDRESS:	50 West 13th Street			
	Dubuque, IA 52001			
TELEPHONE NUMBER:	563-589-4110			
PROJECT TITLE:	Bee Branch Watershed Flood Mitigation Project			
AGREEMENT NUMBER:	2013-0			
ACTIVITY COMPLETION TIMEFRAME:	12/4/2013	to	12/31/2033	

	FEDERAL	LOCAL	STATE	TOTAL
TOTAL FUNDS APPROVED:	$ 34,756,556	$ 76,678,802	$ 98,494,178	$ 209,929,536
TOTAL FUNDS EXPENDED TO DATE:	**$ 25,935,730**	**$ 51,452,193**	**$ 55,576,875**	**$ 132,964,799**
PROJECT OVERRUN/ (UNDERRUN):	**$ 8,820,826**	**$ 25,226,609**	**$ 42,917,303**	**$ 76,964,737**
The percentage of actual work that has been completed at the end of the reporting period (not a % of funds expended)				**59%**
The estimated cost of the project at completion (which may even exceed the awarded amount)			**$**	**248,242,053**

Type of Expense & Funding Source	Budget (from Application)	Federal Local or State	Total Expended to Date	Remaining Balance
Engineering/Contractual Services:	$ 17,817,601			
Carter Road Detention Basin - General Obligation Bonds		Local/State	$ 560,230	
West 32nd Street Detention Basin - U.S. EPA State Revolving Funds		Federal	$ 115,164	
West 32nd Street Detention Basin - Stormwater Utility Fees		Local/State	$ 36,242	
West 32nd Street Detention Basin - General Obligation Bonds		Local/State	$ 844,275	
Historic Millwork District - General Obligation Bonds		Local/State	$ 225,430	
Historic Millwork District - Stormwater Utility		Local/State	$ 502,809	
Lower Bee Branch Legal Services - U.S. EPA State Revolving Funds		Federal	$ 849,637	
Lower Bee Branch Engineering - U.S. EPA State Revolving Funds		Federal	$ 338,003	
Lower Bee Branch Engineering - Stormwater Utility		Local/State	$ 1,592,959	
Upper Bee Branch Creek Engineering - State Sales Tax Increment Bond		Local/State	$ 4,539,152	
Upper Bee Branch Creek Legal Services- State Sales Tax Increment Bond		Local/State	$ 167,254	
Upper Bee Branch Creek Engineering - Stormwater Utility Fees		Local/State	$ 2,376,951	
Upper Bee Branch Creek Engineering - General Obligation Bond		Local/State	$ 1,173,197	
Upper Bee Branch Creek Engineering - U.S. EPA State Revolving Funds		Federal	$ 6,342,564	
Flood Mitigation Maintenance Facility Design - State Sales Tax Increment Bond		Local/State	$ 177,131	
Flood Mitigation Gate Replacement - State Sales Tax Increment Bond		Local/State	$ 88,592	
17th Street/West Locust Storm Sewer Engineering - Sales Tax Increment Bond		Local/State	$ 53,562	
Impervious Surface Reduction - U.S. EPA State Revolving Funds		Federal	$ 1,659,739	

22nd Street Storm Sewer Engineering - Sales Tax Increment Bond			Local/State	$ 38,510	
TOTAL				$ 21,681,401	$ (3,863,800)
Property Acquisition & Easement:	$ 19,301,143				
Carter Road Detention Basin - Purchase/Deconstruction - Stormwater Utility Fees			Local/State	$ 140,833	
West 32nd Street Detention Basin - Purchase/Deconstruction - General Obligation Bonds			Local/State	$ 2,144,713	
Lower Bee Branch Creek -Purchase/ Deconstruction/ Maintenance of Housing - Storm Water Utility Fees			Local/State	$ 1,157,577	
Lower and Upper Bee Branch Creek -Purchase/ Deconstruction/ Maintenance of Housing - General Obligation Bonds			Local/State	$ 13,676,887	
Upper Bee Branch Creek -Purchase/ Deconstruction/ Maintenance of Housing - State Sales Tax Increment Bond			Local/State	$ 2,041,893	
17th Street/West Locust Storm Sewer Property Acquisition/Easements - Sales Tax Increment Bond			Local/State	$ -	
Flood Mitigation Maintenance Facility - Purchase/ Deconstruction/ Maintenance of Housing - State Sales Tax Increment Bond			Local/State	$ 344,879	
TOTAL				$ 19,506,782	$ (205,639)
Construction:	$ 139,593,792				
Carter Road Detention Basin - General Obligation Bonds			Local/State	$ 749,062	
West 32nd Street Detention Basin - U.S. EPA State Revolving Funds			Federal	$ 1,711,836	
Historic Millwork District - General Obligation Bonds			Local/State	$ 1,649,072	
Historic Millwork District - TIGER Grant			Local/State	$ 5,600,000	
Lower Bee Branch - State Sales Tax increment			Local/State	$ 31,435	
Lower Bee Branch - U.S. EPA State Revolving Funds			Federal	$ 6,843,436	
Lower Bee Branch - I-Jobs II Grant			Local/State	$ 3,695,500	
Lower Bee Branch - RECAT Grant			Local/State	$ 189,142	
Lower Bee Branch - Storm Water Utility			Local/State	$ 1,020,966	
Lower Bee Branch - Repair lightning damage - State Sales Tax Increment Bond			Local/State	$ 658	
Construction Trailer - State Sales Tax Increment Bond			Local/State	$ 17,670	
Upper Bee Branch Creek Construction - State Sales Tax Increment Bond			Local/State	$ 17,987,148	
Upper Bee Branch Creek Construction - U.S. EPA State Revolving Funds			Federal	$ 22,408,388	
Upper Bee Branch Creek Construction - DMATS			Local/State	$ 940,000	
Upper Bee Branch Creek Construction - RECAT			Local/State	$ 2,060,858	
Upper Bee Branch Creek Construction - EDA			Federal	$ 1,227,138	
Upper Bee Branch Creek Construction - NSB			Local/State	$ 1,000,000	
Upper Bee Branch Creek Construction - SRT			Local/State	$ 100,000	
17th Street/West Locust Storm Sewer Construction - Sales Tax Increment Bond			Local/State	$ 715,190	
Impervious Surface Reduction - U.S. EPA State Revolving Funds			Federal	$ 7,704,321	
Impervious Surface Reduction - State Sales Tax Increment			Local/State	$ 1,383,448	
22nd Street Storm Sewer Construction - Sales Tax Increment Bond			Local/State	$ 714,415	
TOTAL				$ 77,749,683	$ 61,844,109

Contingency:	$ 11,337,000			
			$ -	
TOTAL			$ -	$ 11,337,000
Financing Interest:	$ 21,880,000			
Carter Road Detention Basin GO Bond			$ 847,258	
W. 32nd Street Detention Basin SRF Loan			$ 515,038	
Lower Bee Branch Creek SRF Loan			$ 1,662,513	
Lower Bee Branch GO Debt			$ 4,388,174	
Green Alley SRF Debt			$ 504,448	
Historic Millwork District - General Obligation Bonds			$ 1,466,339	
Sales Tax Increment Bond Series 2014A			$ 1,278,938	
Sales Tax Increment Bond Series 2015A			$ 2,258,291	
Upper Bee Branch Creek SRF loan			$ 1,105,933	
TOTAL			$ 14,026,932	$ 7,853,068
Total Project Budget Summary	**$ 209,929,536**		**$ 132,964,799**	**$ 76,964,737**

FUNDING SOURCE:	FEDERAL (from Application)	LOCAL (from Application)	STATE (from Application)	**Total Expended to Date**
U.S. EPA Clean Water SRF	$ 49,021,052			$ 49,200,226
U.S. EDA Disaster Relief Grant	$ 1,227,138			$ 1,227,138
U.S. DOT TIGER Grant		$ 5,600,000		$ 5,600,000
I-Jobs II Grant		$ 3,965,500		$ 3,695,500
RECAT Grant		$ 2,250,000		$ 2,250,000
U.S. DOT National Scenic Byways Grant		$ 1,000,000		$ 1,000,000
State Recreational Trail Grant		$ 100,000		$ 100,000
DMATS		$ 940,000		$ 940,000
General Obligation Bonds		$ 48,227,604		$ 21,022,866
Private Donations		$ 165,244		$ 207,875
Sale of Assets and Land		$ 336,358		$ 585,802
Stormwater Utility Fees		$ 14,394,096		$ 15,418,430
Sanitary Sewer Fees				$ 631,720
U.S. EPA Clean Water SRF (repayment)	$ (24,491,634)		$ 24,491,634	
Sales Tax Increment			$ 74,002,544	$ 31,085,241
Total Project Funding Source	**$ 25,756,556**	**$ 76,978,802**	**$ 98,494,178**	**$ 132,964,799**

Indebtedness Incurred (Bonds, etc.)	Rate of Interest	Length of Term (start & end)	Costs of Issuance	Net Proceeds
Sales Tax Increment Revenue Bond (Series 2014A)	3.23%	**6/16/14-6/1/29**	$ 40,398	$ 8,120,912
Sales Tax Increment Revenue Bond (Series 2015A)	3.78%	**6/15/15-6/1/31**	$ 110,950	$ 20,637,011

NON-PUBLIC INVESTMENT - Entity	Total to Date
Gronen Restoration & Tennant Modifications - Caradco Building - Millwork District	$ 33,000,000
Novelty Ironworks - 333 E. 10th Street - Ryan Derks	$ 20,760,000
Residential Improvements/Additions - *(Various see Attachment B)*	$ 20,608,296
Rainbo Oil - 1260 E. 16th Street	$ 5,000,000
Morrison Brothers - East 7th Street	$ 4,300,000
Graybill Custom Builders - New Residential Development - Ashley Lane/Danlin Ct	$ 4,025,000
Dubuque Stamp - 3190 Jackson Street	$ 3,000,000
Mark GudenKauf - New Residential Development - Peach Tree Lane	$ 2,126,000
Engine House - 1805 Central	$ 1,910,000
Bethany Home - 1005 Lincoln Ave - Addition	$ 1,886,000
Commercial Improvements - *(Various see Attachment B)*	$ 1,819,147
Walgreens - 345 E 20th St	$ 1,004,390
Gronen Restoration - Betty Building - 151 E. 9th Street	$ 1,000,000
M & M Schultz Properties LLC - 3422 Asbury Road	$ 575,600
Salvia House LTD - 196 Kaufmann	$ 523,000
Gronen Restoration - St. Mary's Campus - 15th & White Street	$ 400,000

Weaver Castle - 324 - 326 W Locust Street	$	400,000
Weaver Castle - 407-409 Loras Blvd	$	400,000
Emmaus Bible School - 2570 Asbury Road	$	290,000
Davis Place Apartments - 601 Garfield	$	232,440
Dubuque Furniture & Flooring	$	100,000
Rusk Building - 1104 White Street	$	16,500
Nottingham Properties - 485 Locust Street	$	12,500
Richards or High Building - Central	$	6,800
Total Non-Public Investment	**$**	**103,395,673**

Project Status- entire project (Check One)			Description of significant activities this **semi-annual term.** Include comparison of actual accomplishments to the objectives identified in your application. Attach pictures and a narrative. Status changes or delays, please explain reason.
		On Schedule	Please see the attached project update.
	X	Delayed	
		Canceled	
		Completed	
		Suspended	

Application Work Schedule (Milestones)

#	Description:	Submitted Completion Date:	Milestone Status Actual Completion Date:
1	Receive Grant Agreement from FMP	2/4/2014	12/4/2013
2	Carter Road Detention Basin	12/4/2013	12/4/2013
3	W. 32nd Street Detention Basin	12/4/2013	12/4/2013
4	Historic Millwork District	12/4/2013	12/4/2013
5	Lower Bee Branch Creek Restoration	6/4/2015	Now Functional
6	Flood Mitigation Gate Replacement	6/4/2015	
7	Impervious Surface Reduction	12/4/2033	
8	Upper Bee Branch Creek Restoration (Garfield to 24th)	12/4/2016	8/28/2017
	Upper Bee Branch Creek Restoration (Lower Bee Branch to Garfield - Railroad Culverts)	12/4/2016	
9	22nd St Storm Sewer Impr. (Elm to White)	6/4/2020	11/15/2018
	22nd St Storm Sewer Impr. (White to Kane)	6/4/2020	
10	Flood Mitigation Maint. Facility	6/4/2020	
11	North End Storm Sewer Impr.	12/4/2017	
12	Water Plant Flood Control	6/4/2020	
13	17th St Storm Sewer Impr. (Pine to Elm)	12/4/2020	12/21/2017
	17th St Storm Sewer Impr. (Elm to Heeb)	12/4/2020	
14	Project Closeout Activities	12/31/2033	

Person Completing this Report:	Jennifer Larson, Budget Director
Date:	11/15/2018

I, the undersigned, hereby certify that the above information is accurate and true, and in accordance with the approved project plan and state and federal regulations and policies governing this award.

Signature of Authorized Representative or Governmental Entity

City of Dubuque Bee Branch Watershed Flood Mitigation Project Progress Report Narrative (10-31-18)

PROJECT STATUS

While steady progress is being made on multiple phases of the Bee Branch Watershed Flood Mitigation Project, completion of a few of the phases were delayed beyond the milestone dates outlined in the original project application. When the bid for a contract associated with Phase 7 came in $9 million over budget, the shift in funding necessary to proceed affected the timeline of other phases.

Phase 1 – Carter Road Detention Basin [Complete]

Mowing and debris removal performed as planned.

Phase 2 – W.32nd Street Detention Basin [Complete]

Mowing and debris removal performed as planned. A controlled burn was performed in April of 2017.

Phase 3 – Historic Millwork District [Complete]

Pervious pavements are inspected and cleaned per adopted schedule.

Phase 4 – Lower Bee Branch Creek Restoration [Milestone Completion Date: June of 2015]

In 2017, two of the more significant elements of Phase 4 have been completed: the Lower Bee Branch Creek Basin Overlook and the Lower Bee Branch Floating Islands. The only remaining component is related to the security system measures to be complete in late 2018 or early 2019.

The Leisure Services Department continues mowing and trash/debris removal as needed.

Phase 5 – Flood Mitigation Gate Replacement [Milestone Completion Date: June of 2015]

Two conceptual designs have been advanced: simple replacement of what currently exists and an enhanced design that would increase operator access to the gate's riverside infrastructure for maintenance and also provide for the setup of supplemental emergency pumping equipment. The enhanced alternative would also allow additional outflow of stormwater from the basin to the river under some circumstances without supplemental pumping. The City is interested in input from the U.S. Army Corps of Engineers (USACE). In April of 2017, the City sent a request to the USACE requesting "federal project of interest" eligibility for potential improvements associated with the gate and pump station. If successful, the USACE would take up the engineering analysis and possibly outline additional enhancement options. The letter (and request) is currently in the ranking process and is eligible as a "new start" at the national level. With the recent adoption of the federal spending bill in late March of 2018, feedback from the USACE is expected regarding their potential involvement with the project. Pending USACE involvement, the City hopes to complete the work by 2020.

Phase 6 – Impervious Surface Reduction [Milestone Completion Date: December of 2033]

To date 80 of 240 impervious alleys have been converted into green alley, pervious pavement systems. The $9.4 million in SRF sponsorship funding has been exhausted as anticipated. The construction of green alley pervious pavement systems will resume following the bidding of the final contract for Phase 7 of the project.

The Public Works Department continues to inspect the pervious pavement systems on a semi-annual basis, vacuum sweeping them annually and more frequently on an as-needed basis.

Phase 7 – Upper Bee Branch Creek Restoration [Milestone Completion Date: December of 2016]

The improvements were to be bid and constructed under multiple contracts. One contract came in $9 million over the City budget. Therefore, it looked as if the $9 million shortfall would delay the bidding and construction of the final Phase 7 improvements involving the installation of culverts through railroad property in order to pass floodwaters from the Phase 7 improvements to the Phase 4, Lower Bee Branch Creek, improvements. But in early 2016, it was announced that the City would receive $9 million through the HUD National Disaster Resiliency Competition (HUD NDRC) to cover the shortfall associated with Phase 7 of the Bee Branch Watershed Flood Mitigation Project. In order to remain eligible for the $9 million in HUD funding for the improvements through the railroad property, the City had to wait until a grant agreement between HUD and the State and an agreement between the State and the City was in place. This was accomplished in October of 2016. In March of 2017, in accordance with HUD requirements, the City executed a new contract with the City's consulting engineers to provide engineering design services for the improvements through the railroad property. And in June of 2017, the City Council authorized the hiring of Ahlers & Cooney law firm to provide legal services pertaining to the negotiations with the owner of the railroad, Canadian Pacific (CP) and other property acquisitions necessary for the improvements. Since then, the engineering work required to produce the final design plans was initiated. In July of 2017, the City and CP executed the Amended and Substituted Service Agreement reflecting the current approach to install the tunneled culvert system and establishing a new expiration date of December 31, 2018. The City and CP have agreed to terms and are in the process of finalizing the agreement documents prior to routing them for signature. Bidding is expected in late 2018 with construction to start in early 2019. It is likely that it will take two construction seasons to install the culverts and the associated elements required to complete the Upper Bee Branch Creek Restoration improvements.

Phase 8 – 22nd St/Kaufmann Ave Storm Sewer Impr. [Milestone Completion Date: December of 2016]

Engineering consultants are under contract designing the improvements for the entire stretch of the project limits. The construction contract for the first segment of the improvements, from Elm Street to White Street, was awarded in April of 2018 in the amount of $2,548,366.71. It is nearing completion. Bidding of the second segment is anticipated in early 2019 for construction in 2019 and 2020. All segments are to be complete by the spring of 2021.

Phase 9 – Flood Mitigation Maintenance Facility [Milestone Completion Date: June 2020]

The City has purchased the two properties required for the facility. Site clearing activities are under way, first addressing the environmental issues with the property.

Phase 10 – North End Storm Sewer Improvements [Milestone Completion Date: December 2017]

This phase of the project has been delayed in conjunction with the delays associated with Phase 4 and Phase 7 as they must be completed first.

Phase 11 – Water Plant Flood Control [Milestone Completion Date: June 2020]

The USACE created a sophisticated computer model that can predict the depth of inundation, time to inundation, and inundation paths at critical infrastructure for hypothetical levee breach scenarios. The USACE levee breach analysis was not initiated because of any known imminent risk of failure to the levee protecting Dubuque, but instead as an effort to improve emergency planning and communication of the potential risks associated with the levee. The main goal of their work was to further advance the USACE's new computer software tool [HEC-RAS 5.0]. It also helped to further their mission to ensure that the public understands the risks of "living behind a levee." In 2015, the City hired engineering consultant HDR to advance the 2-D modeling work started by the USACE. HDR refined the model by adding break lines to better match the existing terrain, spatially varied flow path characteristics, and incorporated the existence of buildings within the model. The City will be able to utilize the model when designing the flood control/prevention system to protect the City's sole potable water treatment plant from flooding. The modeling and study is complete and will aid in the design of the water plant flood protection system.

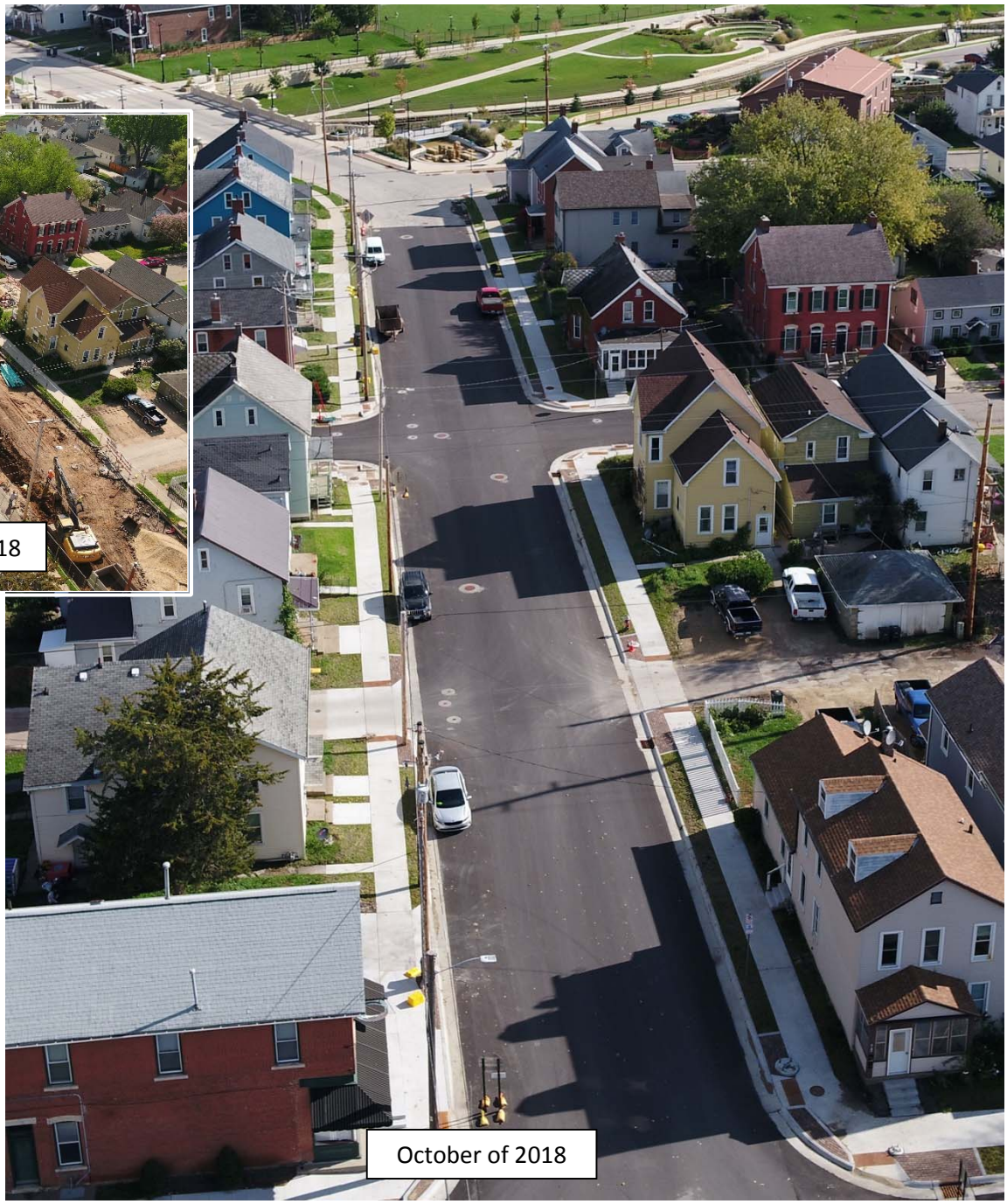
Phase 12 – 17th St/W. Locust Storm Sewer Impr. [Milestone Completion Date: December 2020]

The first segment, between Pine Street and Elm Street, was completed in late 2017 for $1,155,286.32. The second segment, between Elm Street and Heeb Street is currently under construction. With a construction contract of $3,720,555.75, the work started in June of 2018 and will be finished in the spring of 2019. Engineering and design continues on the preparation of the construction plans for the remaining improvements for the entire stretch of the project limits.

Dubuque PR 10-31-18 Project Update

Phase 8 – 22nd St./Kaufmann Ave. Storm Sewer Improvements

May of 2018



October of 2018

Construction complete on first segment from Elm Street to Jackson Street

THE CITY OF DUBUQUE
Masterpiece on the Mississippi

Dubuque
All-America City
2007 • 2012 • 2013 • 2017

August of 2018

October of 2018

Construction finishing up on first segment from Jackson Street to White Street

THE CITY OF DUBUQUE
Masterpiece on the Mississippi

Dubuque
All-America City
2007 • 2012 • 2013 • 2017

Phase 12 – 17th St./W. Locust Street Storm Sewer Improvements

Construction of box culvert improvements in fall of 2017

Large capacity intakes installed west of Elm Street

17th St. / W. Locust St.

Storm Sewer Capacity Improvement Project

THE CITY OF DUBUQUE
Masterpiece on the Mississippi

Dear Resident,

January 9, 2018

You are receiving this letter because you own a property on 17th St. between Elm St. and Heeb St. This area will be under construction starting in the spring of 2018. Please read the information below to learn how this infrastructure improvement project will impact you.

About The Project

The 17th St./W. Locust St. storm sewer capacity improvement project is one phase of the Bee Branch Watershed Flood Mitigation Project. The purpose of the project is to increase the capacity of the storm sewer from the Lower Bee Branch Creek up 17th St. to W. Locust St. and continuing up W. Locust St. toward Kirkwood Street. A larger storm sewer and additional high-capacity storm drains will help alleviate the flash flooding frequently experienced on these streets. The estimated completion of the entire project is 2021.

Bee Branch watershed FLOOD MITIGATION PROJECT

Project Details

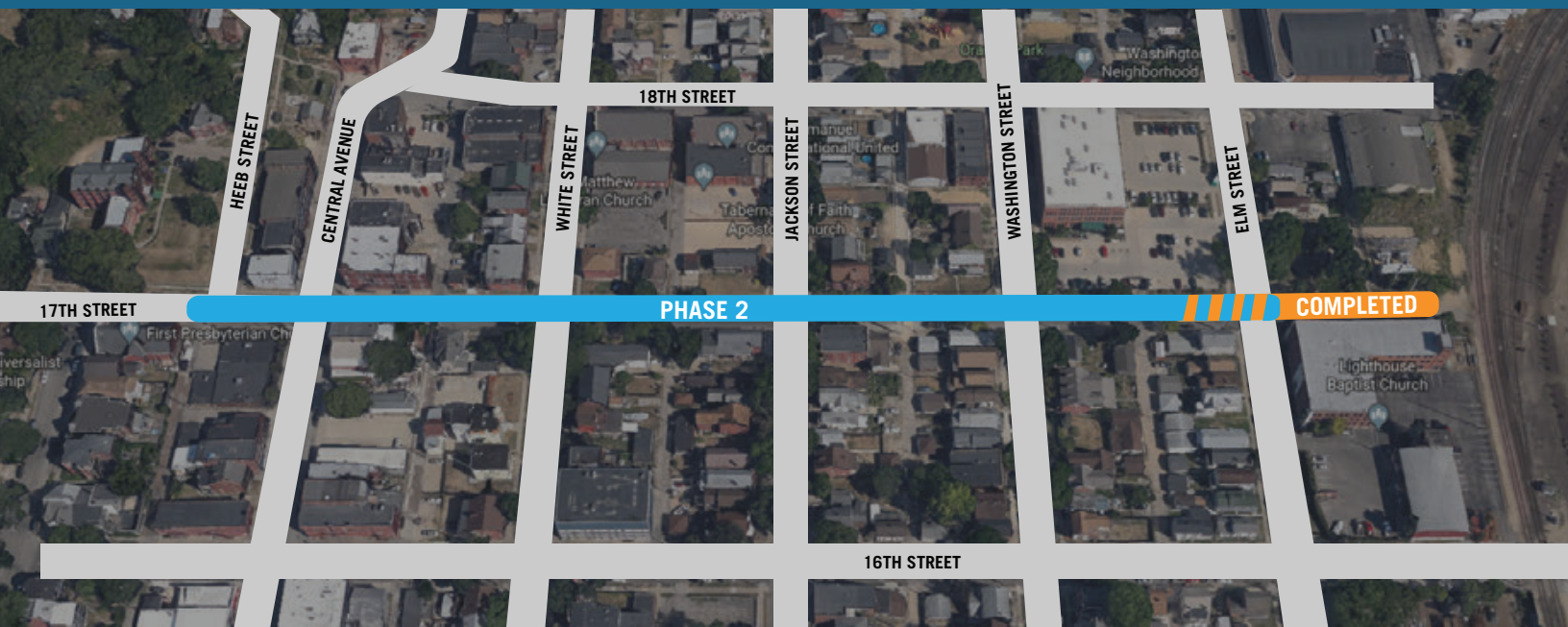
The first phase of the project impacted the intersection of 17th St. and Elm St. which was under construction from August to December 2017. Crews built a new 12 ft. x 7 ft. concrete box culvert, relocated underground utilities, and installed high-capacity storm drains.

The second phase of the project will impact 17th St. from Elm St. to Heeb Street. See map below. **Construction is expected to begin in April or May 2018 and is estimated to finish in late 2018 or early 2019.** Crews will continue the work they did in phase one constructing the larger concrete box culvert, relocating underground utilities, and installing high-capacity storm drains. The project will also include total street and sidewalk reconstruction.

Additional phases of the project, including project limits and schedueles, have not yet been determined.

SEE BACK SIDE FOR MORE DETAILS.

Phase 2: 17th St. from Elm St. to Heeb St.



PHASE 2 OF CONSTRUCTION WILL BE SPLIT INTO 4 SEGMENTS

SEGMENT 1

Intersection of 17th St. and Elm St.

Only the intersection of 17th St. and Elm St. will be closed.

SEGMENT 2

West of Elm St. to East of White St.

The intersections of 17th St. and Washington St. and 17th St. and Jackson St. will be closed.

SEGMENT 3

East of White St. to East of Central Ave.

Only the intersection of 17th St. and White St. will be closed.

SEGMENT 4

East of Central Ave. to West of Heeb St.

The intersections of 17th St. and Central Ave. and 17th St. and Heeb St. will be closed.

How Will You Be Impacted?

Access To Your Property

This project requires the excavation of the entire street and sidewalk. If your front door is located along 17th St., during construction it may be necessary to access your property through a back or side entrance. If you do NOT have a back or side entrance, the contractor will be required to maintain safe access to your front door on 17th St. at all times during construction.

Parking

There will be no parking on 17th St. in the segment that is under construction.

Mobility Issues

City staff and the contractor will work with those with mobility issues to accommodate access to their property as much as possible during construction. ***If you anticipate that special arrangements will need to be made, please notify us as soon as possible by calling (563) 690-6068.***

What's Next?

If you have any questions or concerns regarding the 17th St./W. Locust St. storm sewer improvement project, please call the City of Dubuque at (563) 690-6068.

A follow up letter will be mailed in early 2018 to announce the project contractor, construction start date, and detour routes.

Stay Informed

To receive updates and alerts via email and/or text, including project related street closure and detour notices, subscribe to the Bee Branch Watershed Flood Mitigation Project Notify Me at **www.cityofdubuque.org/notifyme**.

Project announcements will also be posted on **www.nextdoor.com**.

Follow project progress on the Bee Branch Watershed Flood Mitigation Project Facebook page **www.facebook.com/beebranchdbq** and/or on Twitter at **www.twitter.com/beebranchdbq**.

For questions, contact the City of Dubuque Engineering Department at (563) 690-6068.

Thank You!