# Iowa Flood Mitigation Program (FMP) Flood Mitigation Project Application

## I. Applicant Information

A. Applicant/Community Name B. Add		ress		City, State, Zip Code			
City of Coralville		1512 7th Street			Coralville, IA 52241		
C. Point of Contact (PC for Project	OC) Name	POC Title	POC A	Agency		POC Email	
Ellen Habel		Asst. City Administrator	City of C	oralville		ehabel@ci.coralville.ia.us	
			-				
POC PO Box and Zip Code	PO	C Street Address	POC Ci	ty, State, Zi	, Zip Code POC Phone		POC Phone
PO Box 5127, 52241	:	1512 7th Street	Coralville, IA 522		241	319.248.1700	
Alternate POC Na Authorized Represe	Alternate POC Name or uthorized Representative Alt POC Title Alt POC Agency		Alternate POC Email				
Kelly Haywort	th	City Administrator	City of Coralville			khayworth@ci.coralville.ia.us	
Alt POC PO Box and Zip Code	Alt P	OC Street Address	Alt POC	Alt POC City, State, Zip Code		Alt POC Phone	
PO Box 5127, 52241		1512 7th Street	Coralville, IA 52241		241	319.248.1700	
D. Federal Tax ID #	‡ / FEIN	E. County Name	F. US Congressional District		District(s)	Senate	State Legislative Districts House
		Johnson	Second			37	74
G. Is the Applicant/Co Insurance Program (N	mmunity p IFIP)?	participating in the Natio	nal Flood	od Community's CID Number			
	Yes 190169				190169		

II. Project Cost Information Code of Iowa, section 418.4, subsection 2

A. Identify the requested funding source:

Sales Tax Increment

**B. Project Budget Summary** 

Engineering/Contractual Services	\$ 2,099,482.00
Acquisitions and Easements	\$ 4,018,183.00
Utility Relocations	\$ 368,979.00
Construction	\$ 17,033,015.00
Total Project Budget Summary	\$ 23,519,659.00

#### C. Project Funding Source

Identify all anticipated funding sources for the project and the amounts. *Code of lowa, section 418.4, subsection 2* State that you have applied for and/or received approved federal financial assistance. *Code of lowa 418.4, subsection 3b.* 

Please insert additional rows as needed.

Identify source	Applied/ Received	]	Federal \$	Local \$ Sales Tax Increme		ment
City of Coralville	Received			\$ 1,547,408.00		
CDBG	Received	\$	8,546,161.00			
I-JOBS II	Received			\$3,657,090		
Sales Tax Increment	Applied				\$	9,769,000.00
Total Project Funding Source		\$	8,546,161.00	\$ 5,204,498.00	\$	9,769,000.00
% of Total Cost			36.34%	 22.13%	41.54%	

#### **III. Project Plan Summary**

A. Provide a brief description of the project. Identify separately each component of construction or reconstruction included in the project. This is a summary of Tab B - Project Plan. *Code of Iowa section 418.4, subsection 2* 

The 2008 flooding in Coralville caused unprecedented damages totaling nearly \$34 million to homes, businesses, and government facilities. The City committed to a plan for flood protection of one foot above 2008 water levels and over the last five years has completed all but the final component, which will protect the Clear Creek and Biscuit Creek neighborhood. Phase I, which is nearly complete, includes two new storm water pump stations, storm sewer work, flood walls and earthen berms, and elevation of a sanitary sewer lift station. Phase II, for which funds are requested, includes 1,500 linear feet of permanent and removable flood walls on the south side of Clear Creek from the Clear Creek bridge on Highway 6 to 1st Avenue; and the elevation of 5th Street, a major east-west collector street and public transit route. Permanent flood walls will be constructed to protect to the 100-year flood level, with removable walls to be installed on top of those when necessary. When installed, the removable walls will protect to 1 ft above the 2008 flood crest. Elevation of approximately 730 lineal feet of 5th Street will prevent flooding and allow 5th Street to remain open during flood events. The project will protect residential and commercial properties and critical infrastructure.

B. How will the project mitigate future flooding of property that has sustained significant flood damage and is likely to sustain significant flood damage in the future? *Code of Iowa, section 418.9, subsection 10, 2a* Explain:

The project protects 109 properties valued at over \$57 million, in addition to infrastructure and critical facilities including the Highway 6/1st Avenue intersection, which has the highest traffic volume in Johnson County and provides access to the University of Iowa Hospitals and Clinics and the Veteran's Administration Hospital in Iowa City, as well as the downtown Iowa City employment center; Highway 6 from the Clear Creek bridge eastward; the Francis X. Cretzmeyer Track at the University of Iowa, an eight-lane, Olympic-sized outdoor track; MidAmerican Energy Company electrical switch gear, which provides local and regional service; Mediacom internet switch gear, which provides service to all of Coralville; and Century Link communications switch gear and associated facilities; and a major collector street. Flooding in this core neighborhood occurred in 1990, 1992, 1993, and 2008; in 2008, water levels reached five to six feet in buildings in spite of sandbagging efforts; water remained in streets for several weeks. With the proximity of two creeks and backflow conditions from the Iowa River, the neighborhood, which includes both commercial and residential properties, is at significant risk.

**C.** How does the project address the impact of flooding both upstream and downstream from the project area? *Code of Iowa, section 418.9, subsection 10, 2b* Explain:

Iowa City, the University of Iowa, and Coralville have worked in concert in flood protection planning. The University hired Ayres Associates to update the hydraulic models which serve as the basis of the FEMA FIRM maps. The Cities and the University then hired Howard R. Green Co. to add proposed flood mitigation improvements into the updated models to determine the area wide impact. The work completed by Coralville thus far as well as the work proposed in this application was included in these models. The report notes, "The new design of the CRANDIC and 1st Avenue Bridges along with the proposed channel improvements provide a dramatic drop in the profiles. Discharges equal to and greater than the 50-year event currently overtop the 1st Avenue Bridge in the existing Ayres Associates model. The new geometry places the 100-year event around 1-foot below the proposed low-chord elevation."

**D. Describe how the project conforms to any applicable floodplain ordinance and identify the ordinance**. *Code of lowa, section 418.9, subsection 10, 2b* 

The Iowa Department of Natural Resources has delegated flood plain management responsibilities to the City of Coralville. Building Official Jim Kessler is responsible for flood plain management in Coralville, enforced under Chapter 160 of the municipal ordinances. Kessler has reviewed the Storm Sewer System Mitigation Study and all subsequent construction projects that use this study as a basis, and has issued a Flood Plain Development Permit (copy enclosed) for the Clear Creek/Biscuit Creek/IstAvenue – Highway 6 Area flood improvements projects.

**E.** Describe how the project is sufficiently valuable to the economic viability of the state or is of sufficient historic value. *Code of Iowa, section 418.9, subsection 10, 2c* 

The area to be protected includes 109 properties representing over \$57 million in valuation, as well as critical infrastructure including 5th Street, Highway 6, and utilities that serve a variety of communications and public works, as well as the University of Iowa's Cretzmeyer Track and a portion of student housing. During the flooding of 2008, Highway 6/2nd Street, which at its intersection with 1st Avenue is the busiest intersection in Johnson County, was closed for over two weeks as water remained in the roadway, limiting access to Iowa City and the University of Iowa. A planned development in this area will generate \$40 million in assed value, bringing the value of protected property to \$97 million. Many of the protected properties generate sales tax and several generate hotel/motel tax, as well. F. How is this project essential to meet the necessary expenses or serious needs of the governmental entity related to the flood mitigation? *Code of Iowa, section 418.9, subsection 10, 2h* Explain:

In 2008, historic flooding impacted 200 businesses and 400 households in Coralville. Impacted businesses were those that rely heavily on customer traffic. High waters and road closures, compounded by the cost of clean-up, lost inventory, and reduced traffic volume, resulted in diminished sales, high costs, and loss of customer base. Business owners looked to the City for a plan for protection. The City committed to a plan for flood protection and has made great strides toward its completion, with this final component remaining. At the same time, the City works to maintain an affordable property tax levy rate and does not have the benefit of a local option sales tax. This core neighborhood remains vulnerable to flash and river flooding; this program is necessary to complete this protection.

**G. Provide the extent of nonfinancial support committed to the project from public and nonpublic sources.** *Code of Iowa, section 418.9, subsection 10, 2e* 

Letters of support from legislators and property owners are attached. One owner notes, "Because I believed the City would undertake flood protection measures...I leased it...and have experienced great success. I put more than \$200,000 into the renovation...Yet we live in fear of another flood." Another writes, "Our business has twice faced temporary relocation and disruption...The 2008 event forced us to stage our operations out of temporary quarters for 4 months and to conduct administrative functions out of a hotel for 6 months."

H. Describe the coordination with other watershed management measures as applicable. Code of Iowa, section 418.9, subsection 10, 2f

The City hired the Howard R. Green Co. to analyze the existing storm sewer system after the 2008 floods and to recommend improvements that would allow the City to withstand future floods of that magnitude without damage. The resulting Storm Sewer System Mitigation Study details the steps necessary to accomplish this goal. The recommendations from this report have been implemented along the Iowa River, Clear Creek and Biscuit Creek in multiple projects totaling over \$64 million worth of work to protect the city from a future flood equal to the 2008 flood plus 1 foot in elevation. Computer modeling has demonstrated the impacts of each project in Coralville as well as those in Iowa City and at the University of Iowa. The completed projects were proven to work during flooding in the spring of 2013. The projects proposed in this application are the last steps necessary to achieve the city council's protection elevation goal.

I. Describe how this project is consistent with applicable comprehensive, countywide emergency operations plan in effect and other applicable local hazard mitigation plans. Code of Iowa, section 418.9, subsection 10, 2g

The City of Coralville's Hazard Mitigation Plan was approved by FEMA and adopted by the Coralville City Council in late 2009. The plan identifies river flooding and flash flooding as Priority 1 hazards. The project area is vulnerable to both: the Iowa River, when flooding, creates backflow conditions on Clear Creek and Biscuit Creek, and the creeks themselves are vulnerable to flash flooding when heavy rains occur. In the spring of 2013, both conditions occurred within a 6-day span. The proposed project is consistent with the plan's recommendation to "investigate flood mitigation projects" for this hazard. It is also consistent with the plan's goals, which are minimizing the risk of loss of life/and or injuries; eliminating or reducing negative effects of natural...hazards; and implementing mitigation actions that will reduce reliance on County, State, and Federal disaster response assistance, all of which are consistent with the proposed project.

J. Description of Project Location (i.e. Latitude and Longitude (minimum 6 digits after the decimal), Neighborhood, Subdivision, Geographic Boundaries, Driving Directions, etc.)

The project is located in the City of Coralville, in the area surrounding the confluence of Biscuit Creek and Clear Creek, which is just west of Clear Creek's confluence with the Iowa River. The work of this project is bounded by 5th Street on the north, the Clear Creek Bridge at 1st Avenue on the east, Highway 6/2nd Street on the south, extending as far west as the Clear Creek Bridge on Highway 6/2nd Street, then returning north to 5th Street west of Biscuit Creek.

K. Number of people and properties protected as a result of the completion of the entire proposed project:

# of People	625
# of Residential Properties	272
# of Commercial Properties	71
# of Public Properties	3
# of Critical Facilities	4
Total # of Properties:	975

Residential properties is based on number of units.

### **IV. Work Schedule**

A. List the major milestones for this project.

Task	Months/Years from Award		Descensible Douts		
TASK	Start	Complete	Responsible Party		
Phase II, Flood Walls					
Design	Month 1	Month 4	Engineering Firm		
Acquisitions & Permitting	Month 2	Month 7	City of Coralville		
Bid Process	Month 8	Month 9	City of Coralville		
Award of Contract	Month 10	Month 10	City of Coralville		
Construction	Month 11	Month 21	Contractor		
Phase II, 5th Street Elevation					
Design	Month 19	Month 23	Engineering Firm		
Acquisitions & Permitting	Month 20	Month 25	City of Coralville		
Bid Process	Month 26	Month 27	City of Coralville		
Award of Contract	Month 28	Month 28	City of Coralville		
Construction	Month 29	Month 33	City of Coralville		

### **V.** Certifications

To the best of my knowledge and belief, I certify that all data in this application packet is complete, true and correct. The governing body of the applicant has duly authorized this document and hereby applies for assistance as documented in this application. The applicant understands that the project shall not proceed until Flood Mitigation Board approval is granted.

fause C ignature of the Chief Executive Officer

Jim Fausett

Name of the Chief Executive Officer

Mayor

City of Coralville

Organization

**Phone Number** 

Title

November 7, 2013

Date

319.248.1700

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Signature of the Authorized Representati
Kelly Hayworth
Name of Authorized Representative
City Administrator
Title
City of Coralville
Organization
November 7, 2013
Date
PO Box 5127, 1512 7th Street
PO Box / Street Address
Coralville, IA 52241
City, State and Zip Code
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