

## **lowa City Gateway**

City Council Work Session January 21, 2014



#### **Gateway Project**

#### Tonight's Objective:

- Establish the Primary Design Parameters for the Project
  - Work Session
    - ☐ Review City Council Process to Date
    - ☐ Review Recent Activities for NEPA Process
    - ☐ Review the Process as we Move Forward with Design
    - □ Review Staff Recommendations
    - ☐ Outline the Resolution and Options
    - ☐ Answer Additional Questions from Council
  - Formal Meeting
    - □ Outline Staff Recommendations
    - □ Public Input
    - □ Consider Resolution Establishing Primary Design Parameters



#### City Council Process to Date:

- September 17, 2013 Work Session
  - Reviewed the project and Environmental Assessment Process
  - Identified three primary design parameters that will need to be decided to move into the design phase
  - Answered Questions
- October 1, 2013
  - Work Session: Reviewed the three primary design parameters and staff's recommendations. Answered questions.
  - Formal Meeting: Held Public Hearing for input on the project. No action item on the agenda.
- January 21, 2014
  - Work Session: Review the process, parameters and recommendations. Answer questions.
  - **Formal Meeting:** Additional public input. Consider resolution establishing the three primary design parameters.



## NEPA Cultural Resource Investigations and Recent Findings

- Led by Office of State Archaeologist and Tallgrass Historians
- Coordinated with:
  - Iowa City Historic Preservation Commission
  - Iowa DOT Cultural Resource staff
  - State Historic Preservation Officer
- Received finding of Conditional No Effect summer 2012
- Affirmed by independent evaluation summer 2013
- Iowa City Historic Preservation Commission confirmed support, fall 2013
- Received FHWA Finding of No Significant Impact December 2013



#### NEPA Public Outreach

- Started April 2010
- Two public meetings: 250+ attendees
- Drop-in center + online public meeting
- Public hearing/drop-in center
- Multiple paid ads
- Multiple media stories
- Local media press releases
- City and project specific Web site\*
- Mailing list of nearly 2,000\*
- Neighborhood and civic group meetings\*
- Multiple one-on-one meetings and calls\*



\*Will continue in the design process



#### **NEPA Tasks**

#### Completed:

- ✓ Data collection
- ✓ Flood model data updated
- ✓ Initial alternatives screening
- ✓ Purpose and Need approved
- ✓ Two public meetings
- ✓ Refine alternatives
- ✓ Screen alternatives
- Recommend preferred alternative
- ✓ Prepare NEPA document

- ✓ Resource Agency coordination
- ✓ Release NEPA document for review
- ✓ Hosted Public Hearing
- ✓ Received Federal approval



## Next Steps

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Iowa City Gateway Pro	ject			ame																									
I – – – – – – – – – – – – – – – – – – –			onceptual & Preliminary Design (Approximately 4 months)																										
Design Stage	Activitiy Week of: 3			b Fab	Feb F	ab Ma 24 3	Mar 10	Mar 17	Mar 24	Mar A	pr Ap	pr Ap 4 21	r Apr 28	May N	May May 12 19	May 26													
Pre-Design	Council Decision on 3 Design Parameters	$\square$	$\perp$		Ш			Ш			$\perp$			$\perp$															
Concept Development (D00)	Public Pre-design meeting City Council work session, Roadway Design Issues Submit Concept Statement to Iowa DOT  Preliminary Design (20%) Preliminary roadway and bridge								Ø																				
Preliminary Design (D01)																	Time Final I	)esigr	ı (8-12	monti	Oct-14	Nov-14	Dec-14	Jan-15		Process Mar-15	Apr-15	May-15	Jun-15
Easement and Property Acquisition	Council Resolution authorizing Property Acquisition Property Appraisals and Negotiation													Ø															
Field Exam Plans (D02)	Field Exam Design Plans (35% plans) Field exam plans for roadway, bridge, etc., On-site review Value engineering																												
Preliminary Plans (D05)	Preliminary Design Plans (70% plans) Revised design plans for roadway, bridge, etc., Lighting, signal, pavement marking and signing plans																												
Check Plans	Check Plans (100% plans) Final design for roadway, bridge, etc																												
Final Plans	Final Plans and specifications for letting Public Hearing and City Council Approval of Final Plans and Specifications lows DOT Letting Process City Council Resolution / Award of Project																								Ø.				Ø
Public Input Opportunities	Interaction with property owners adjacent to the project and other interested parties will be ongoing as needed throughout the design process. The web site and email updates will be used when there is new information to share with interested parties. Communication by phone, email or meetings is welcomed by staff at any time during the project.				notes (										i party														



## Staff Recommendations for Primary Design Parameters

- Level of protection for Dubuque Street
  - 2008 event + 1'
- Backwater reduction goals (Elevation of Park Road Bridge):
  - Low Steel at 200 year event +1'
- Structural type of the bridge
  - Deck Girder or Through Arch



# Comparison of Levels of Protection for Dubuque Street

Level of Protection	Estimated # of days closed in the past 20 years due to lowa River flooding	Relative Comparison: Inches above/below the 2008 + 1' protection level				
Existing	150	NA				
100 year + 1'	7*	-39"				
200 year + 1'	5*	-11"				
2008 flood + 1' (Recommended)	0	0"				
500 year + 1' (EA Preferred Alt)	0	+19"				

\*Including one day for cleanup, inspection and repair after inundation



## Bridge Comparisons

A COLUMN	Bridge Type	Low Steel Elevation	Backwater Reduction at Idyllwild	Incremental Improvement in Backwater Reduction	Deck Elevation	Incremental Height of Bridge Deck	Constructi on Cost Estimate with Dubuque at 100yr + 1'	Constructi on Cost Estimate with Dubuque at 200yr + 1'	Construction Cost Estimate with Dubuque at 2008 + 1'	Construction Cost Estimate with Dubuque at 500yr + 1'
	Deck Girder	100yr + 1'	3.4"		660.20		\$32.67 M		\$34.26 M	
i-	Deck Girder	200yr + 1'	6.1"	2.7"	662.52	27.8"		\$34.63 M	\$35.01 M	
	Deck Girder	2008 + 1'	6.6"	0.5"	663.45	11.2"	\$33.41		\$35.17 M	
	Deck Girder	500yr + 1'	7.0"	0.4"	665.03	19.0"	\$34.20 M	\$35.01 M	\$35.34 M	\$36.65 M EA Preferred Alternative
	Deck Arch	100yr + 1'	3.6"		659.20		\$36.01 M		\$37.59 M	
NAME OF TAXABLE PARTY.	Deck Arch	200yr + 1'	4.7"	1.1"	661.52	27.8"		\$37.96 M	\$38.34 M	
	Deck Arch	2008 + 1'	5.2"	0.5"	662.45	11.1"	\$36.71 M		\$38.48 M	
	Deck Arch	500yr + 1'	5.6"	0.4"	664.03	19.0"	\$36.94 M	\$38.33 M	\$38.66 M	\$39.98 M
	Through Arch	100yr + 1'	3.4"		656.87		\$35.99 M		\$37.58 M	
-	Through Arch	200yr + 1'	4.9"	1.5"	659.02	25.8"		\$37.93 M	\$38.31 M	
	Through Arch	2008 + 1'	5.2"	0.3"	659.95	11.1"	\$36.70 M		\$38.47 M	
	Through Arch	500yr + 1'	5.8"	0.6"	661.53	19.0"	\$36.90 M	\$38.30 M	\$38.63 M	\$39.60 M



#### **Bridge Options from Dubuque Street**





#### **Bridge Options from Boathouse**





## Comparison of Backwater Reduction Goals and Bridge Type

	Option	Bridge Type	Low Steel Elevation	Elevation at the Dubuque St/Park Rd Intersection	Backwater reduction at Idyllwild and Taft Speedway	Dubuque Street Protection Level	Construction Cost Estimate of Bridge and Road	
ı	Max. protection and backwater reduction (EA Preferred Alt)	Deck Girder	500yr + 1'	665.03	7"	500yr + 1'	\$36.65M	
	Recommended Arch	Through Arch	200yr + 1'	659.02	4.9"	2008 + 1'	\$38.31M	
	Recommended Girder	Deck Girder	200yr + 1'	662.52	6.1"	2008 + 1'	\$35.01M	







# Resolution Establishing Primary Design Parameters

WHEREAS, City staff has recommended that the design parameters be: (1) protect Dubuque Street to the 2008 flood elevation plus one foot and, (2) provide backwater reduction by elevating the low steel of the new bridge to the 200-year flood plus one foot and, (3) proceed with either the Through Arch Bridge or the Deck Girder Bridge; and

WHEREAS, the Council has considered the input and needs of the public; and

WHEREAS, funds for this project are available in the Iowa City Gateway Project (Dubuque St) account # 3809.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF IOWA CITY, IOWA, THAT: For purposes of the Iowa City Gateway Project, which is currently planned for bid letting in 2015, it is in the best interests of the City of Iowa City and its citizens to establish the following design parameters:

- 1. The 2008 flood elevation plus one foot as the level of protection for Dubuque Street.
- The 200-year flood elevation plus one foot as the backwater reduction goal (low steel elevation) of the Park Road Bridge.
- 3. The \_\_\_\_\_\_as the structural type of the bridge across the lowa River.

Passed and approved this	day of	, 20
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### **lowa City Gateway**

Questions?







### **Bridge Recommendations**

	Bridge Type	Low Steel	Backwater	Incremental	Deck	Incremental	Constructi	Constructi	Construction	Construction
		Elevation	Reduction	Improvement	Elevation	Height of	on Cost	on Cost	Cost	Cost
			at Idyllwild	in Backwater		Bridge Deck	Estimate	Estimate	Estimate	Estimate
				Reduction			with	with	with	with
							Dubuque	Dubuque	Dubuque at	Dubuque at
							at	at	2008 + 1'	500yr + 1'
							100yr + 1'	200yr + 1'		
							4			
	Deck Girder	100yr + 1'	3.4"		660.20		\$32.67 M		\$34.26 M	
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										Alternative
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