

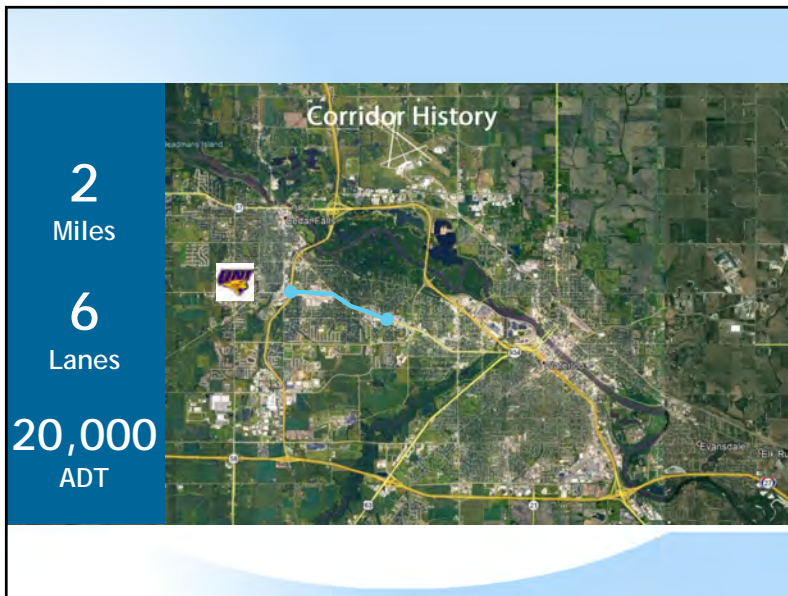
Transforming, Connecting & Revitalizing University Avenue

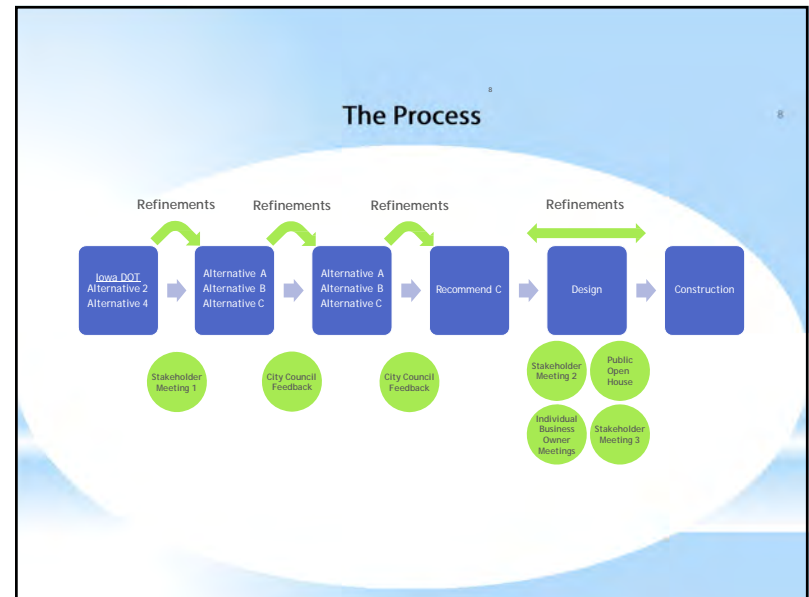
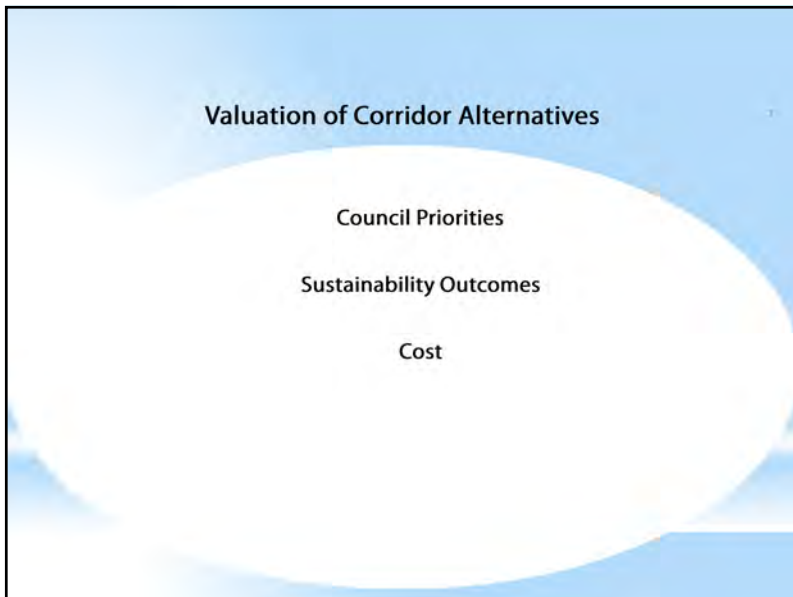
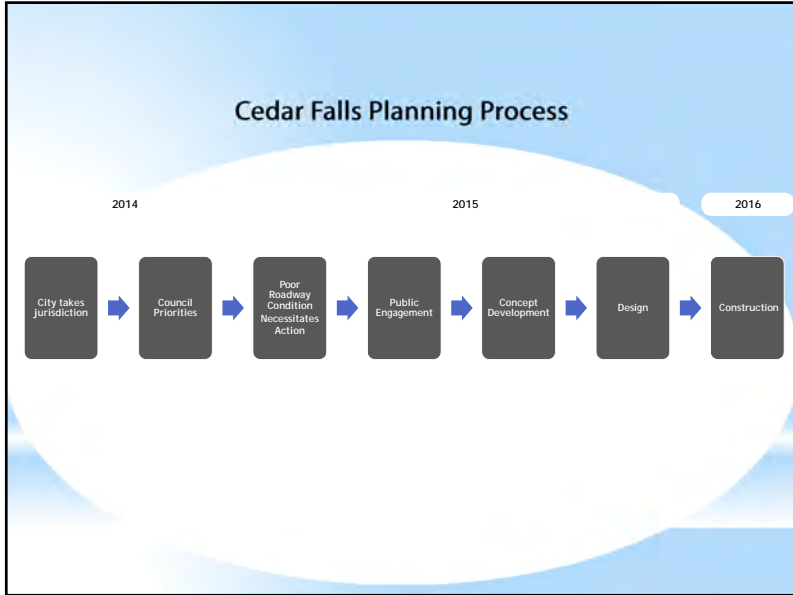
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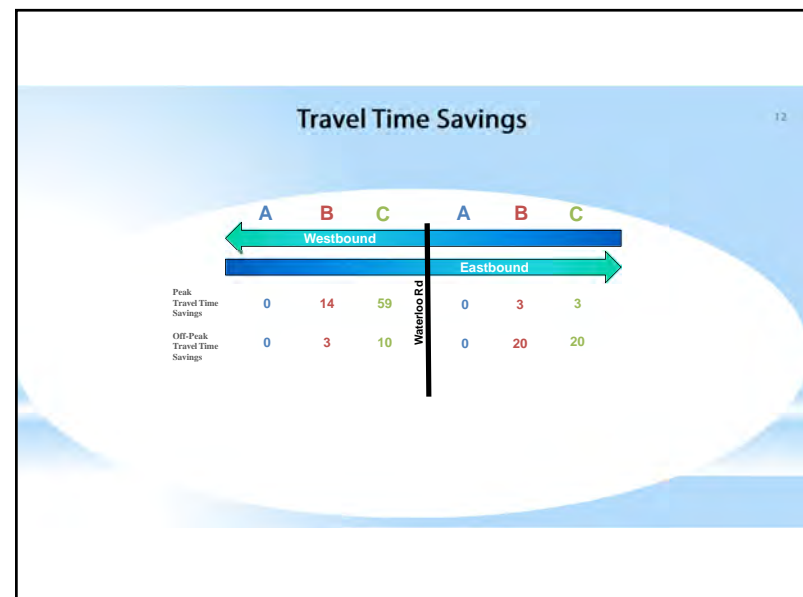
Alternatives

Alternative	A	B	C
Hwy 58 Interchange	All Signals SPUI	Signals + RAB SPUI	RAB + Signals Teardrop
Hwy 58 to Boulder	4 lanes w/ turn lanes	4 lanes w/ turn lanes	4-lanes
	8	6	2
	0	2	6

- ### Sustainability Outcomes
- a Traffic Signal Maintenance Costs
 - b Travel time
 - c Gas Savings
 - d Vehicle emissions
 - e Safety: Reduced Crashes
 - f Level of Service

Alternatives Comparison

Alternative	A	2C	4C
	8	6	2
	0	2	6
a. Traffic Signal Maintenance Costs Savings	\$0	\$17,000	\$51,000





Alternatives Comparison

14

Alternative	A	B	C
	8	6	2
	0	2	6
a. Traffic Signal Maintenance Costs Savings	\$0	\$17,000	\$51,000
b. Travel Time Savings	\$0	\$483,678	\$1,085,184

Alternatives Comparison

15

Alternative	A	B	C
	8	6	2
	0	2	6
a. Traffic Signal Maintenance Costs Savings	\$0	\$17,000	\$51,000
b. Travel Time Savings	\$0	\$483,678	\$1,085,184
c. Gas Savings	\$0	\$10,318	\$23,151

Alternatives Comparison

16

Alternative	A	B	C
	8	6	2
	0	2	6
a. Traffic Signal Maintenance Costs Savings	\$0	\$17,000	\$51,000
b. Travel Time Savings	\$0	\$483,678	\$1,085,184
c. Gas Savings	\$0	\$10,318	\$23,151
d. Vehicle Emissions	\$0	\$1,872	\$4,173

Alternatives Comparison

17

Alternative	A	B	C
	8	6	2
	0	2	6
a. Traffic Signal Maintenance Costs Savings	\$0	\$17,000	\$51,000
b. Travel Time Savings	\$0	\$483,678	\$1,085,184
c. Gas Savings	\$0	\$10,318	\$23,151
d. Vehicle Emissions	\$0	\$1,872	\$4,173
e. Safety: Reduced Crashes	\$0	\$2,263,711	\$4,369,706


Alternatives Comparison

18

Alternative	A	B	C
	8	6	2
	0	2	6
a. Traffic Signal Maintenance Costs Savings	\$0	\$17,000	\$51,000
b. Travel Time Savings	\$0	\$483,678	\$1,085,184
c. Gas Savings	\$0	\$10,318	\$23,151
d. Vehicle Emissions	\$0	\$1,872	\$4,173
e. Safety: Reduced Crashes	\$0	\$2,263,711	\$4,369,706
f. Level of Service	D/C B/B	C/C B/B	C/C B/A

Alternatives Comparison

19

Alternative	A	B	C
	8	6	2
	0	2	6
a. Traffic Signal Maintenance Costs Savings	\$0	\$17,000	\$51,000
b. Travel Time Savings	\$0	\$483,678	\$1,085,184
c. Gas Savings	\$0	\$10,318	\$23,151
d. Vehicle Emissions	\$0	\$1,872	\$4,173
e. Safety: Reduced Crashes	\$0	\$2,263,711	\$4,369,706
f. Level of Service	D/C B/B	C/C B/B	C/C B/A
Preliminary Cost Estimate (\$M)	\$33.15	\$33.99	\$32.47

Alternatives Comparison

20

Recommended

Alternative C

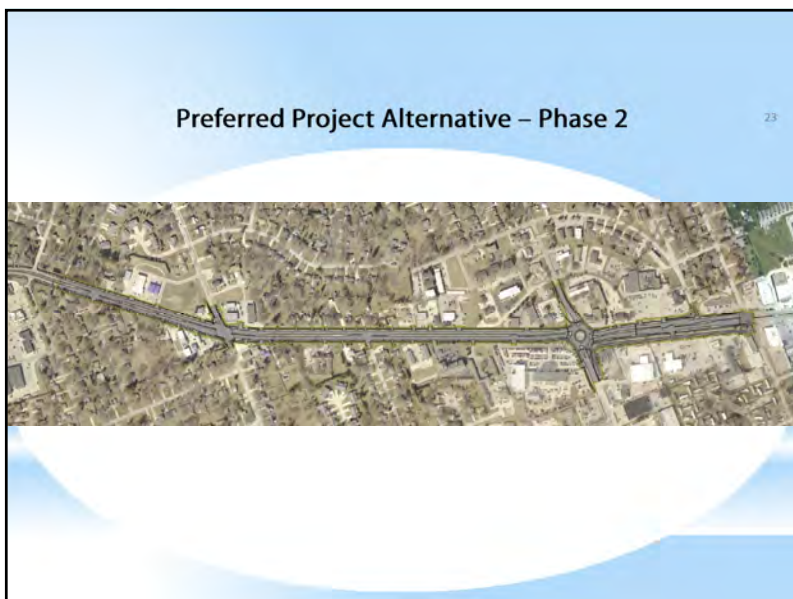
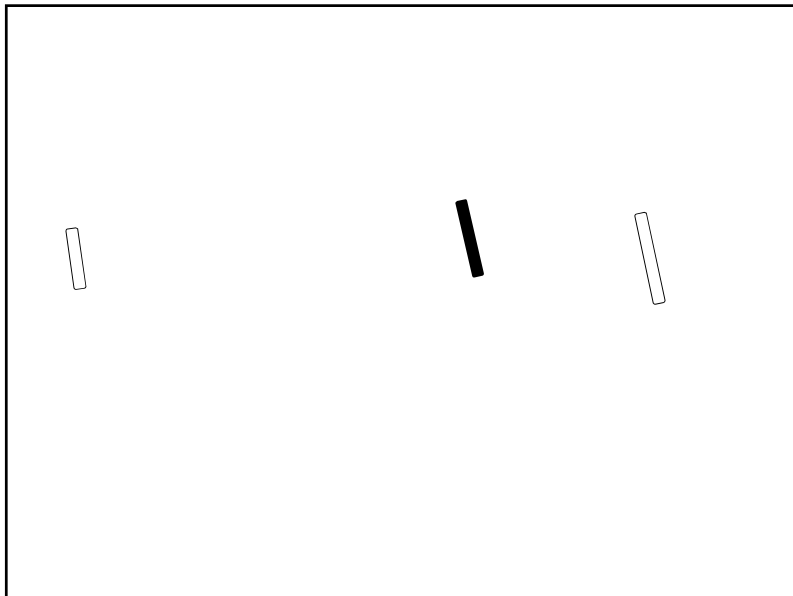
Least Expensive and Safest

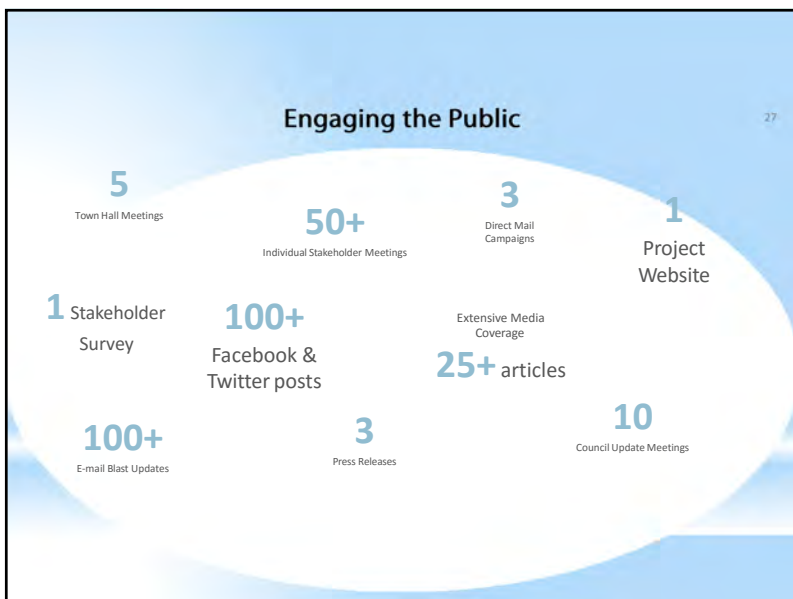
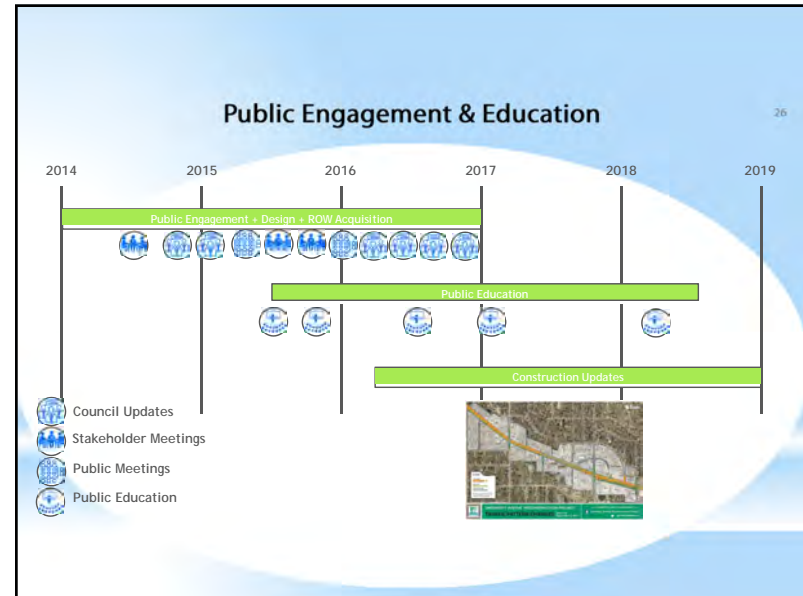
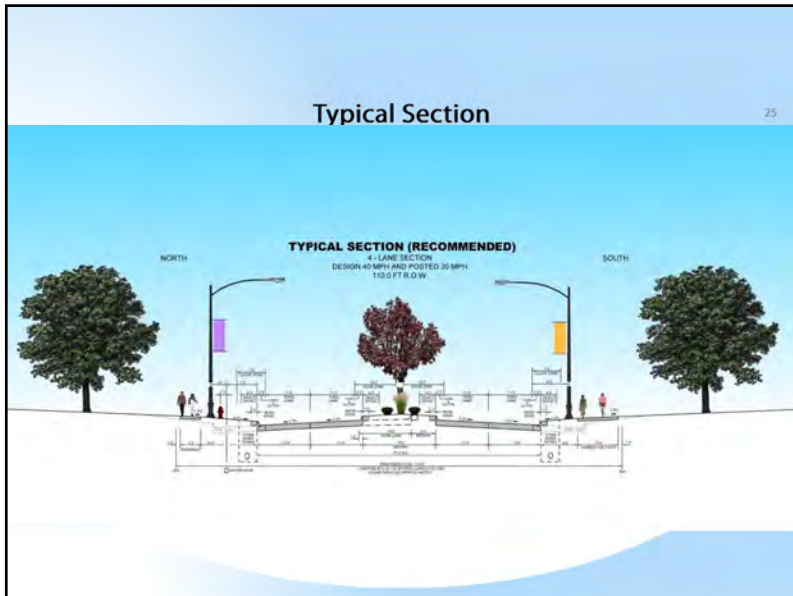
Efficiently Moves all Forms of Traffic

Least Operating Cost to Traveling Public (time, gas, emissions)

Meets goals of City's long-range planning (2020 Strategic Plan & Comprehensive Plan)

Best Value for Overall Cost





Events

- Mayor's Business Walk
- Western Home Communities
- Cedar Falls Currents Up Close
- Good Morning Cedar Valley
- Cedar Falls Rotary
- Cedar Falls Lions Club
- University of Northern Iowa
- Downtown Farmers Market
- Cedar Falls Library Walkable Roundabout
- Roundabout Driving Event

Public Engagement Activities

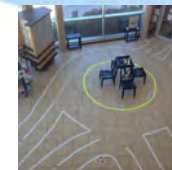
Roundabout Driving Event



Farmers Market



Cedar Falls Library



Community Engagement



What is a Roundabout?

How to Drive a Roundabout

How Do I Drive the University Avenue Roundabouts?

GENERAL INFORMATION

- Roundabout Benefits
- Roundabout Signs
- Roundabout Lane Markings
- Roundabout Pedestrian and Bike Use
- Roundabout Safety
- Roundabout Design
- Roundabout Construction
- Roundabout Maintenance
- Roundabout Operation
- Roundabout Enforcement
- Roundabout Evaluation
- Roundabout Research
- Roundabout Training
- Roundabout Outreach
- Roundabout Communication
- Roundabout Collaboration
- Roundabout Partnership
- Roundabout Support
- Roundabout Funding
- Roundabout Resources
- Roundabout Contacts

OVERSIZE VEHICLES

- Step 1: Slow down
- Step 2: Observe signs and pavement markings - Choose lane
- Step 3: Yield to pedestrians
- Step 4: Look to your left and yield to traffic circulating roundabout
- Step 5: Stay in your lane
- Step 6: Use turn signal to exit and watch for pedestrians. Do not change lanes to exit.

Always be aware and drive slowly!

Construction

3
Phases

3
Years

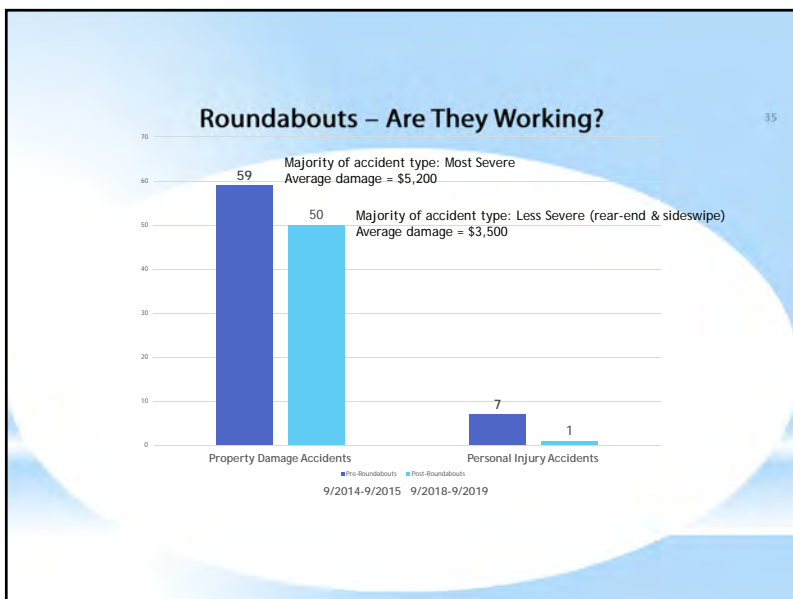
Maintain
Traffic

Construction-Challenges

- Keeping the Public Informed
- Business Access
- Utilities
- Responding to Concerns

UNIVERSITY AVENUE RECONSTRUCTION PROJECT
TRAFFIC PATTERN CHANGES

Famous Dave's
Famous Dave's DETOUR PLAN



Roundabouts – Are They Working?

In the 1st year post-construction.....

- 15%**
Reduction in property damage only accidents
- 33%**
Reduction in damages
- 86%**
Reduction in Personal Injury Accidents



Challenges

- Aggressive Timeframe
- Level of Investment
- Public Perception
- Vocal Minority
- Politics
- Condemnations

Lessons Learned

- Set clear priorities
- Data driven decisions
- Communicate
- Be consistent
- Engagement plan
- Flexibility during construction

Q&A

ACEC
 Engineering Excellence Award

APWA
 Project of the Year Award

IOWA LEAGUE OF CITIES
 All-Star Community Award