



AGENDA
CITY OF CEDAR FALLS, IOWA
SPECIAL MEETING, STANDING COMMITTEE
MONDAY, JANUARY 30, 2023
6:00 PM AT CITY HALL, 220 CLAY STREET

Call to Order

Roll Call

Public Works Committee

1. 6th & Main Intersection.
(60 Minutes, Public Works Director Chase Schrage)

Adjournment



Main Street Reconstruction

6th St Intersection
Special Meeting

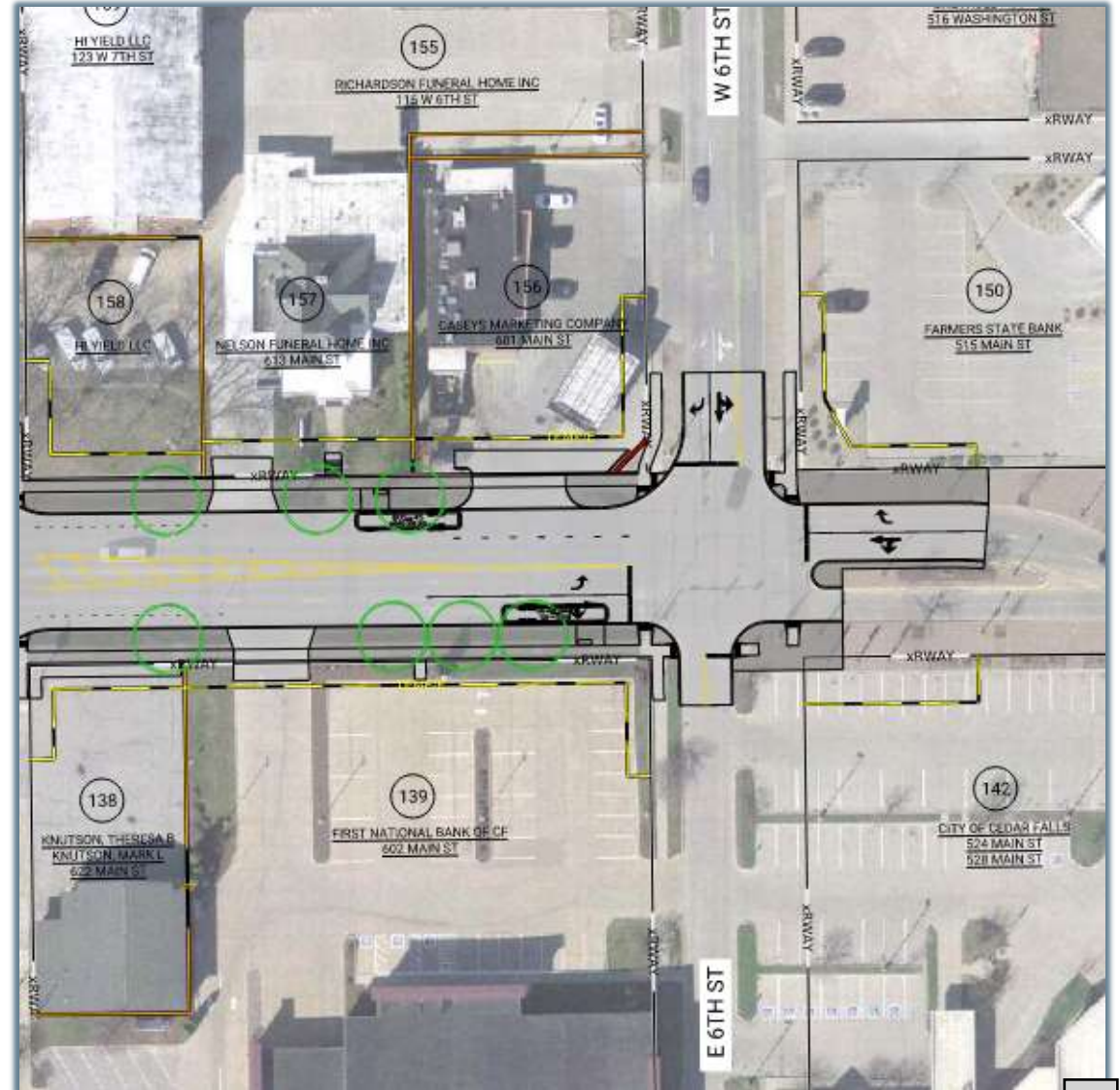


- ◆ Council action on March 15, 2021
 - 3-lane corridor with on-street bike lanes and roundabouts at 12th, 18th, and Seerley intersections
 - Council requested: Design option for roundabout at 6th St intersection
- ◆ 11/15/21 Committee of the Whole Meeting
 - Design alternative at 6th Street (RAB vs Signal)
- ◆ 1/18/22 Committee of the Whole Meeting
 - Design refinements that reduced the impacts to the parking stalls at the library
 - City voted to go with traffic signal option (6-1)
- ◆ 11/7/22 Council Meeting
 - Council voted against developing a cost/benefit analysis of a 3-leg roundabout at 6th and Main

Our discussion today

- ◆ Asked to again look at intersection concepts/options for Main St/6th St intersection
 - Traffic Signal
 - 4-leg roundabout
 - 3-leg roundabout

Traffic Signal at Main St/6th St intersection



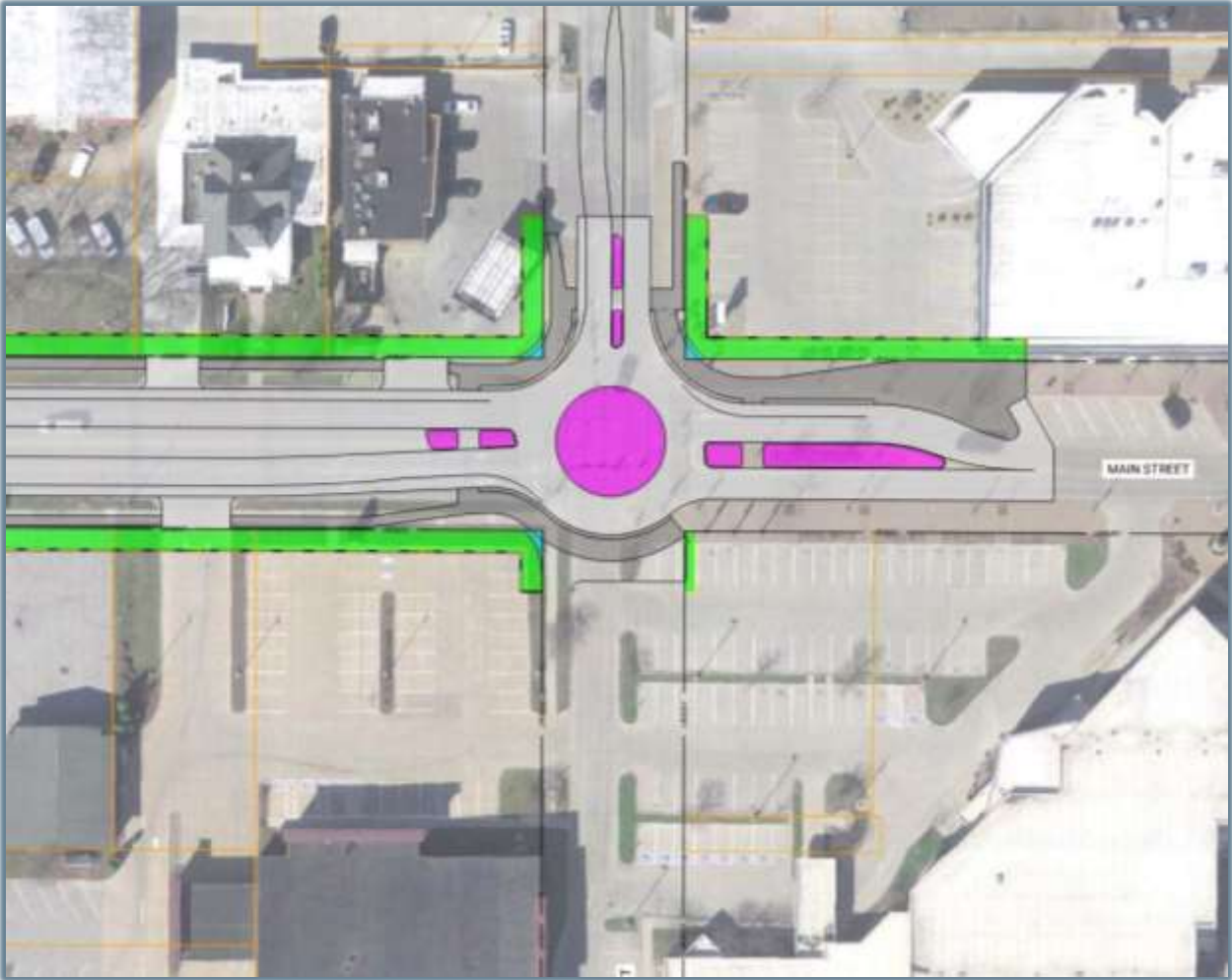
4-leg roundabout

- ◆ Improved safety
- ◆ Better traffic operations
- ◆ Additional right of way needs
 - First Bank
 - Farmers State Bank
- ◆ Fully traversable center median
- ◆ Loss of Library parking stalls
 - 5 stalls lost
 - Total existing stalls: 61



3-leg roundabout

- ◆ Improved safety
- ◆ Better traffic operations
- ◆ Additional right of way needs
 - First Bank
 - Farmers State Bank
- ◆ Fully traversable center median
- ◆ Loss of Library parking stalls
 - 3 stalls lost
 - Total existing stalls: 61





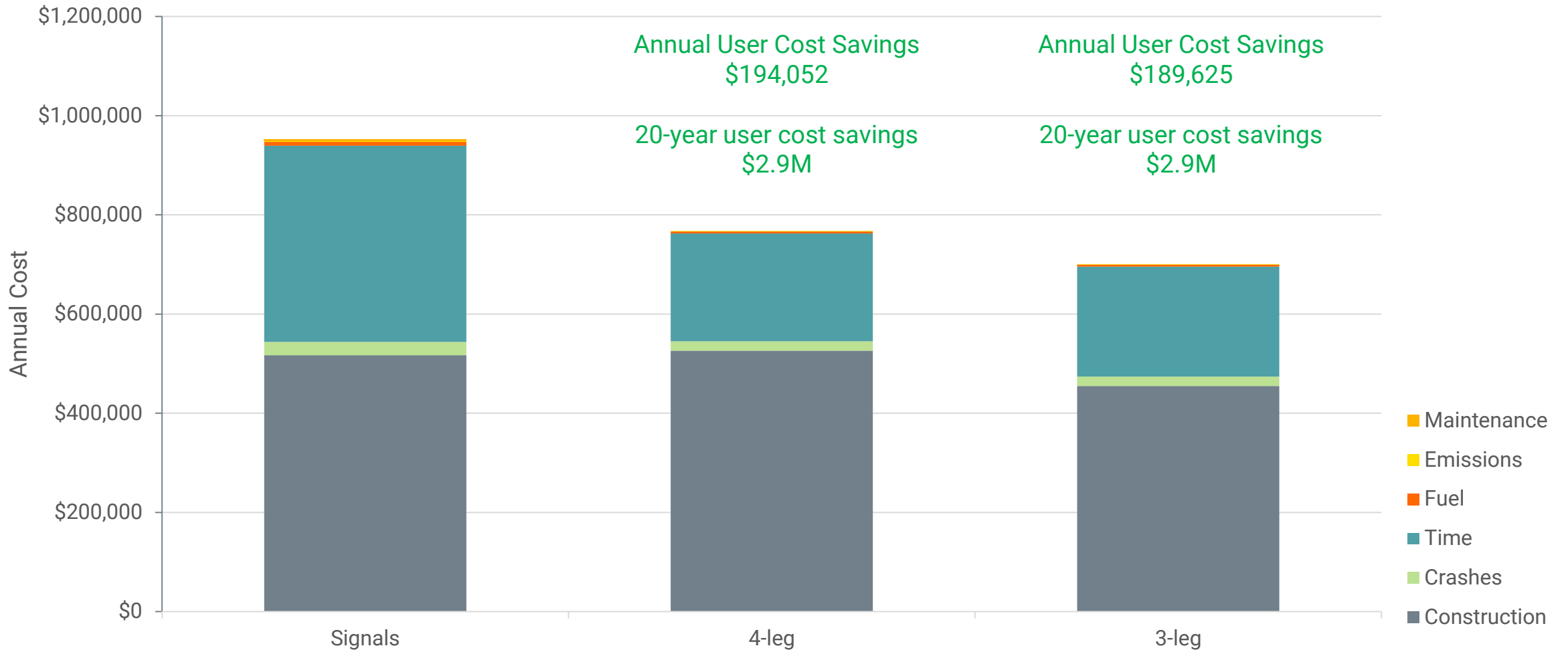


Level of Service (LOS)

Intersection	Movement	Traffic Signal						RAB (4-leg)						RAB (3-leg)					
		AM		PM		OP		AM		PM		OP		AM		PM		OP	
		Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS
Main St & 6th St	NB	3	A	4	A	3	A	5	A	6	A	6	A	5	A	7	A	6	A
	SB	8	A	11	B	8	A	4	A	5	A	5	A	4	A	6	A	6	A
	EB	16	B	14	B	20	B	4	A	6	A	5	A	5	A	6	A	5	A
	WB	21	C	21	C	27	C	4	A	5	A	5	A						
	INT	9	A	9	A	10	A	4	A	6	A	5	A	5	A	6	A	6	A

Conclusion: Signal or roundabout will operate at high LOS. Roundabout will have least amount of delay

Life Cycle Cost Comparison



Comparison

Item 1.

	Additional Construction Costs	ROW Parcels Impacted (sf need)	User Cost Savings	Loss of Library Parking Stalls	Access
Signal	\$0	1 (96 sf)	0	0	No Impact
4-leg RAB	\$9,500	3 (214 sf)	\$2.9M	5	No Impact
3-leg RAB	(\$62,000)	3 (214 sf)	\$2.9M	3	Severs access to Main St via 6 th St

Comparison Summary

- ◆ Consultant recommendation: 4-leg roundabout
 - Improved safety (vehicles and pedestrians)
 - Better traffic operations
 - User cost savings
 - No impact to access (3-leg option impacts access to First Bank and Library)
 - Minimal loss of parking library parking stalls

BUT....at this time there are other factors to consider

Cost to Implement new intersection design

◆ Redesign

- \$75,000 and 500 hours
- Plans and quantities need to be updated (~100 sheets)

◆ ROW Acquisition

- Need two additional acquisitions to two business properties.
- Condemnation
- Added costs
- Negotiations affect schedule

◆ Existing ROW Agreements

- Project delay impacts existing agreements
- All would have to be updated (added costs)

◆ Schedule Impacts

- 6th St intersection scheduled for construction to start in early 2023.
- Redesign would not be completed until later in 2023

◆ Contractor

- Major change order, cost unknown

Questions & Answers

