

Intersection of Ranshaw Way & Penn Street



The Design Team



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Outline

Project Scope

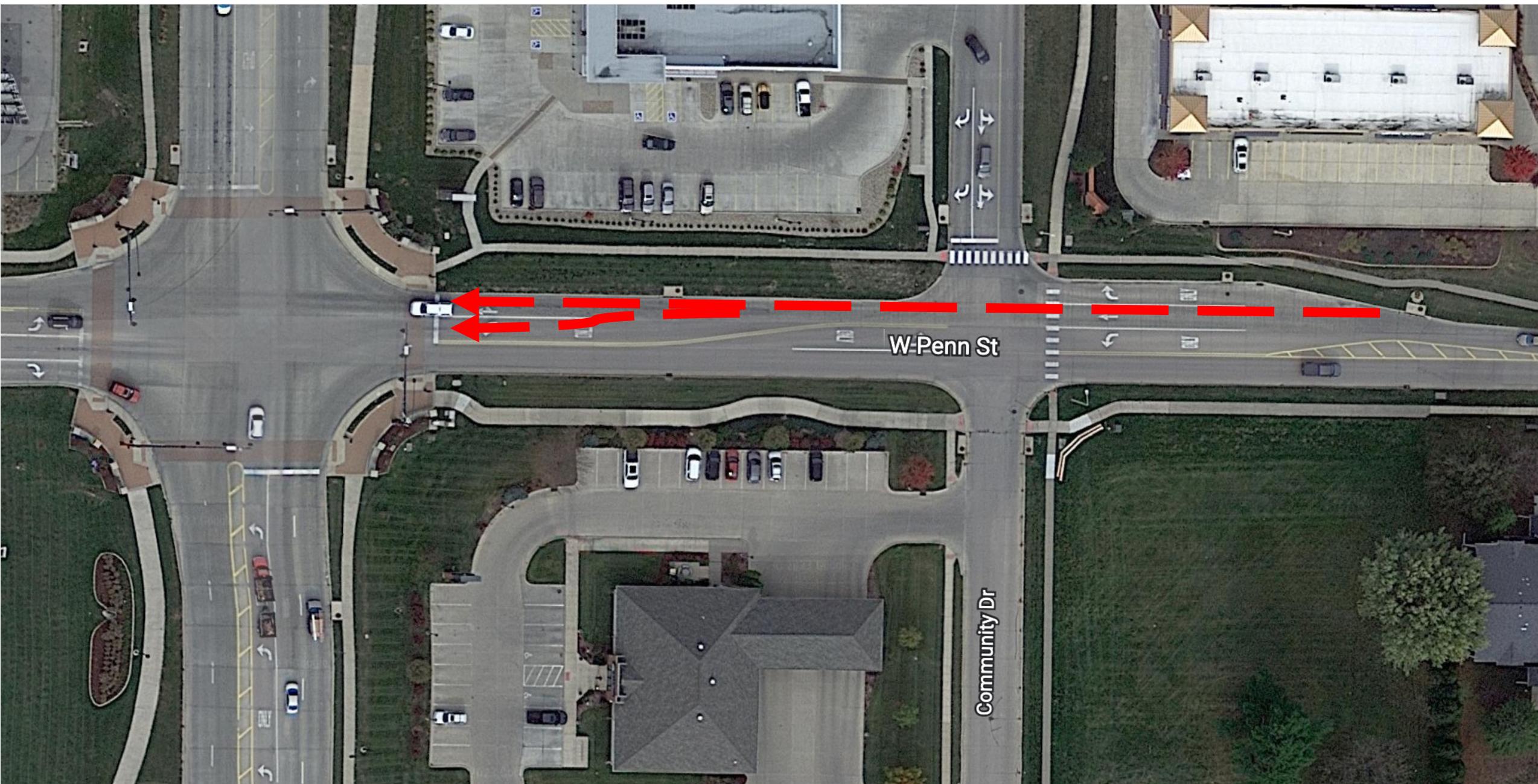
Methodologies

Design
Alternatives

Cost Estimation

Project Scope

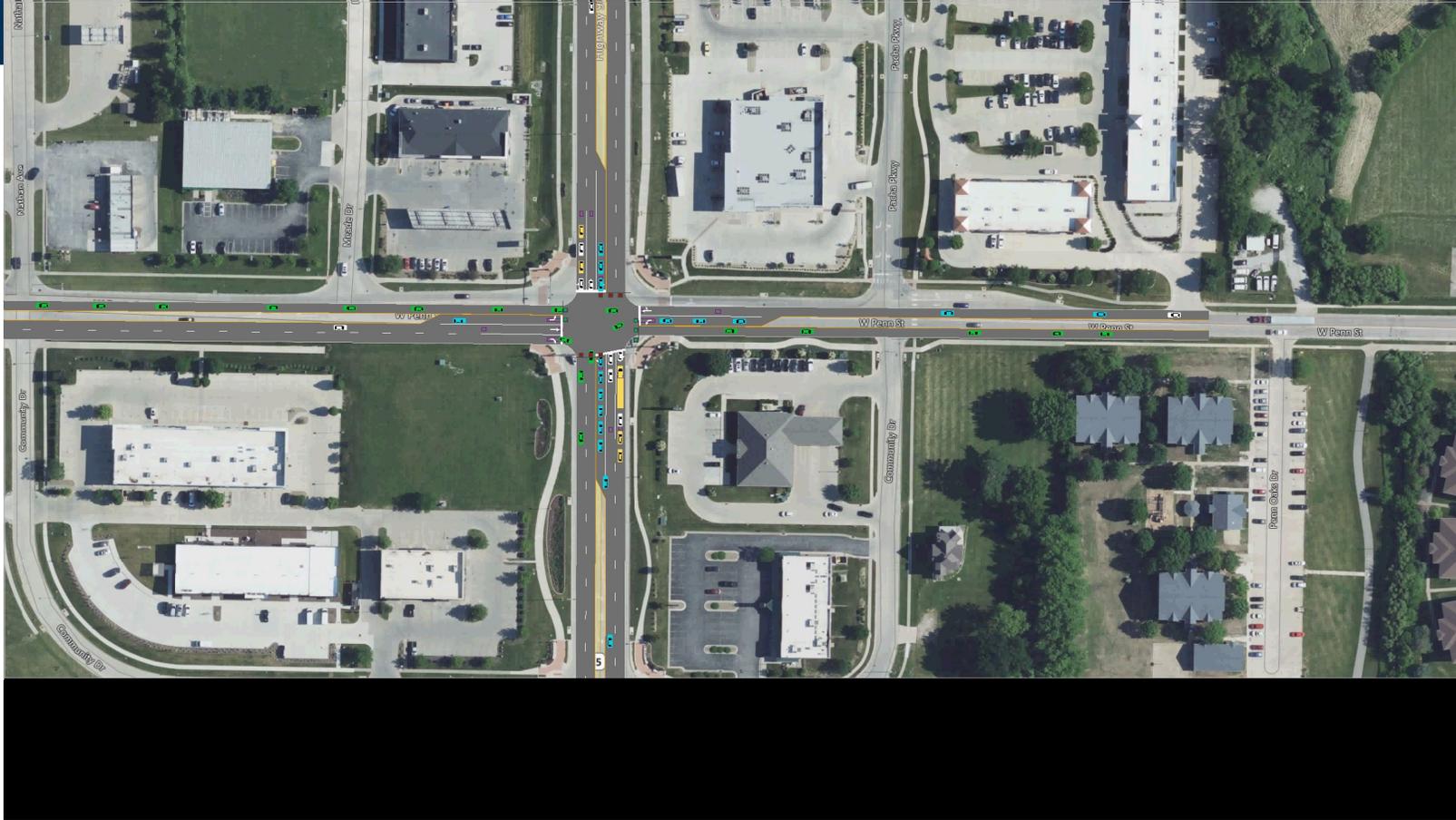




W Penn St

Community Dr

Synchro Model Video of Current Conditions



Methodologies

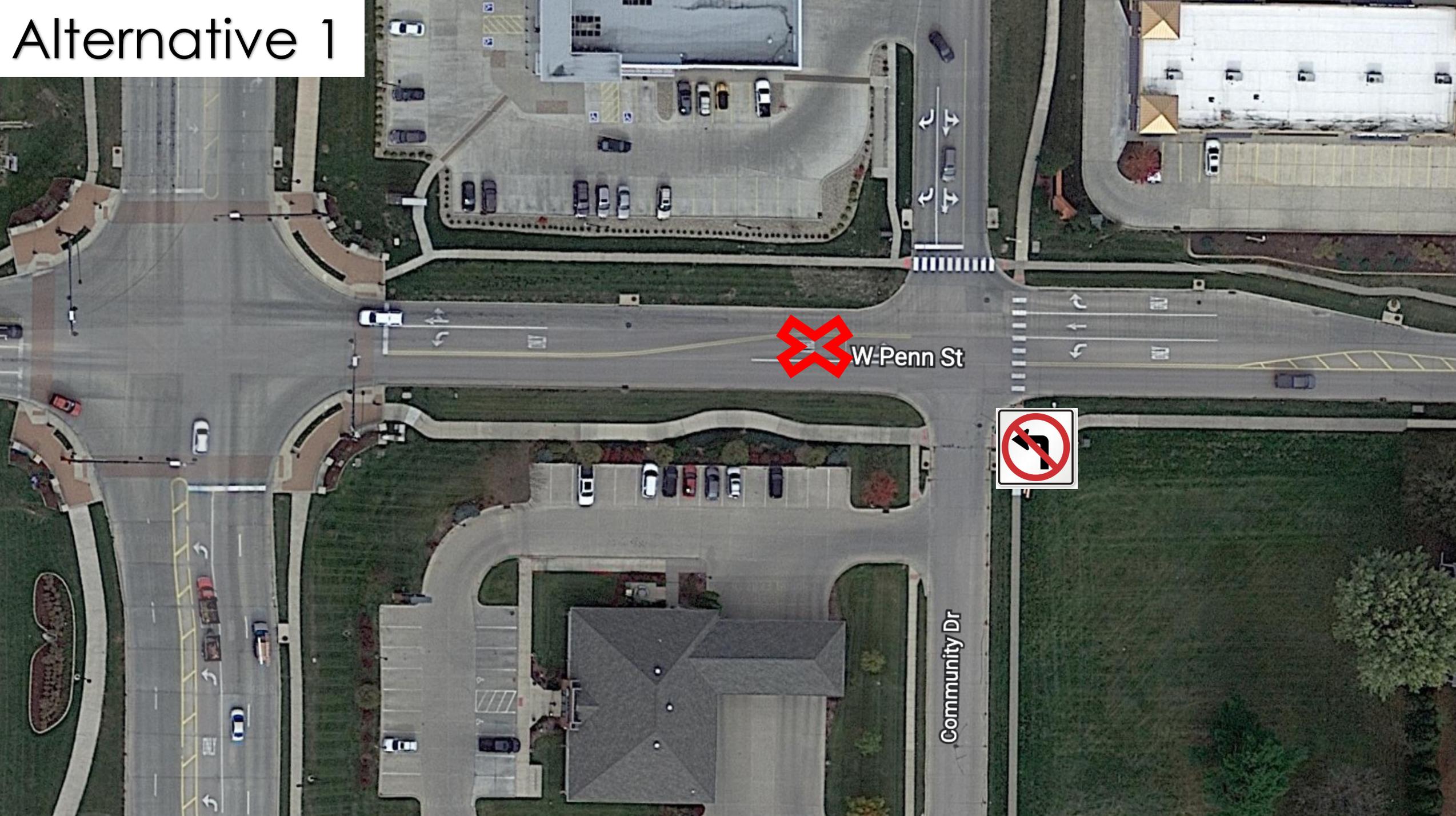
Traffic Impact Analysis

- Traffic counts
- Synchro Model
- Proposed Development
- Crash Analysis
- Analysis of Future Conditions
- Capacity Analysis



Design Alternatives

Alternative 1



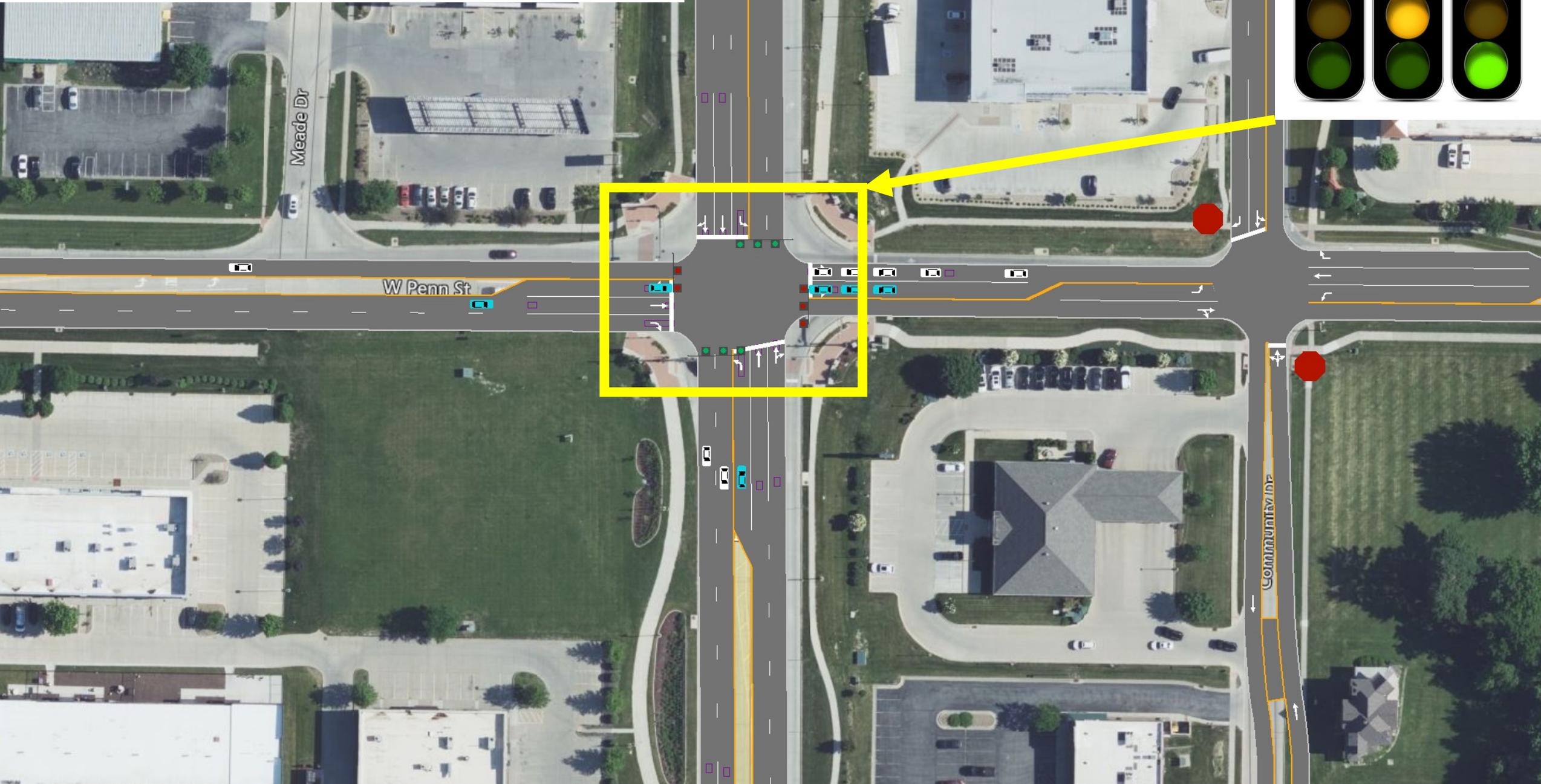
W-Penn St

Community Dr

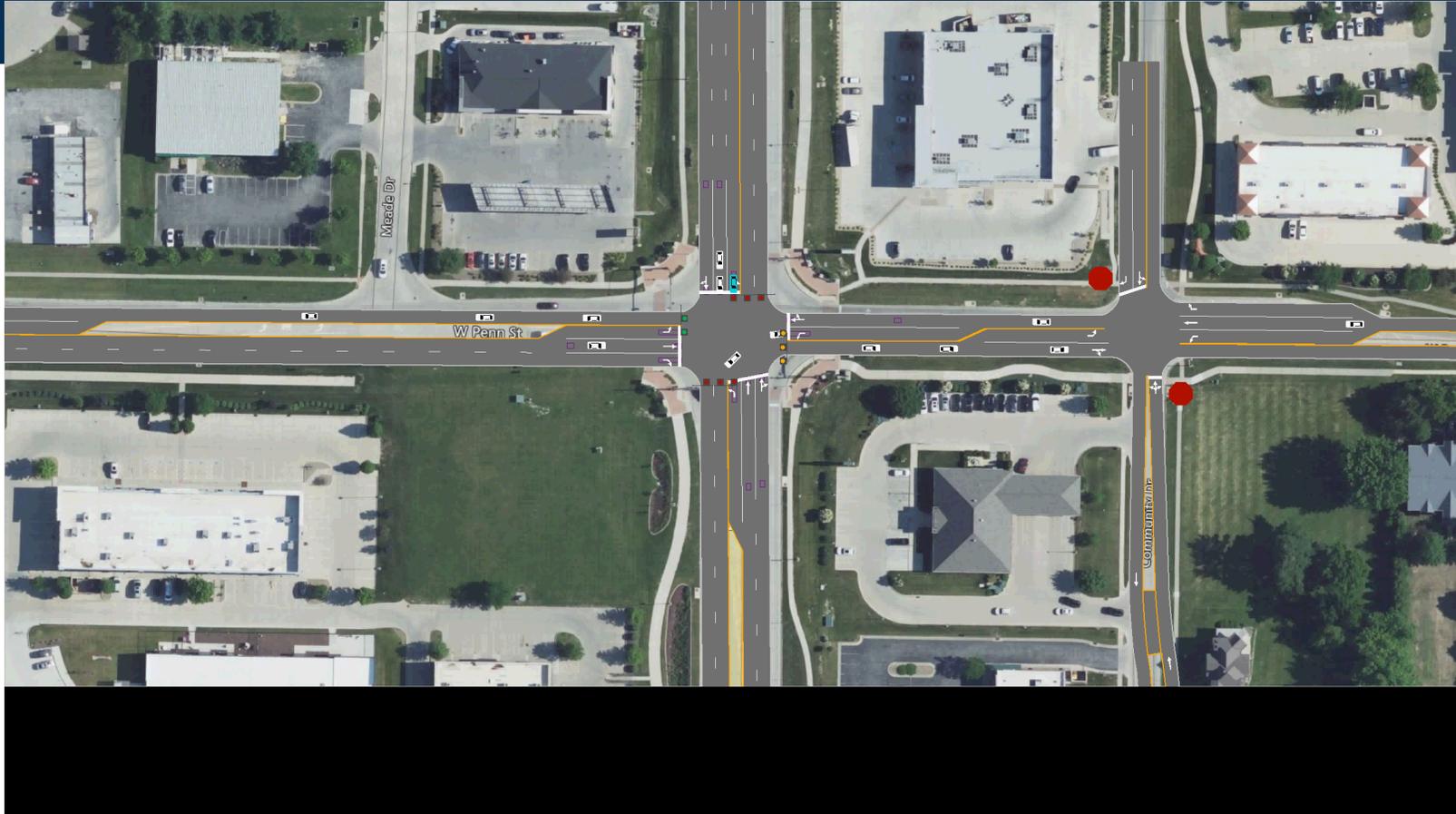




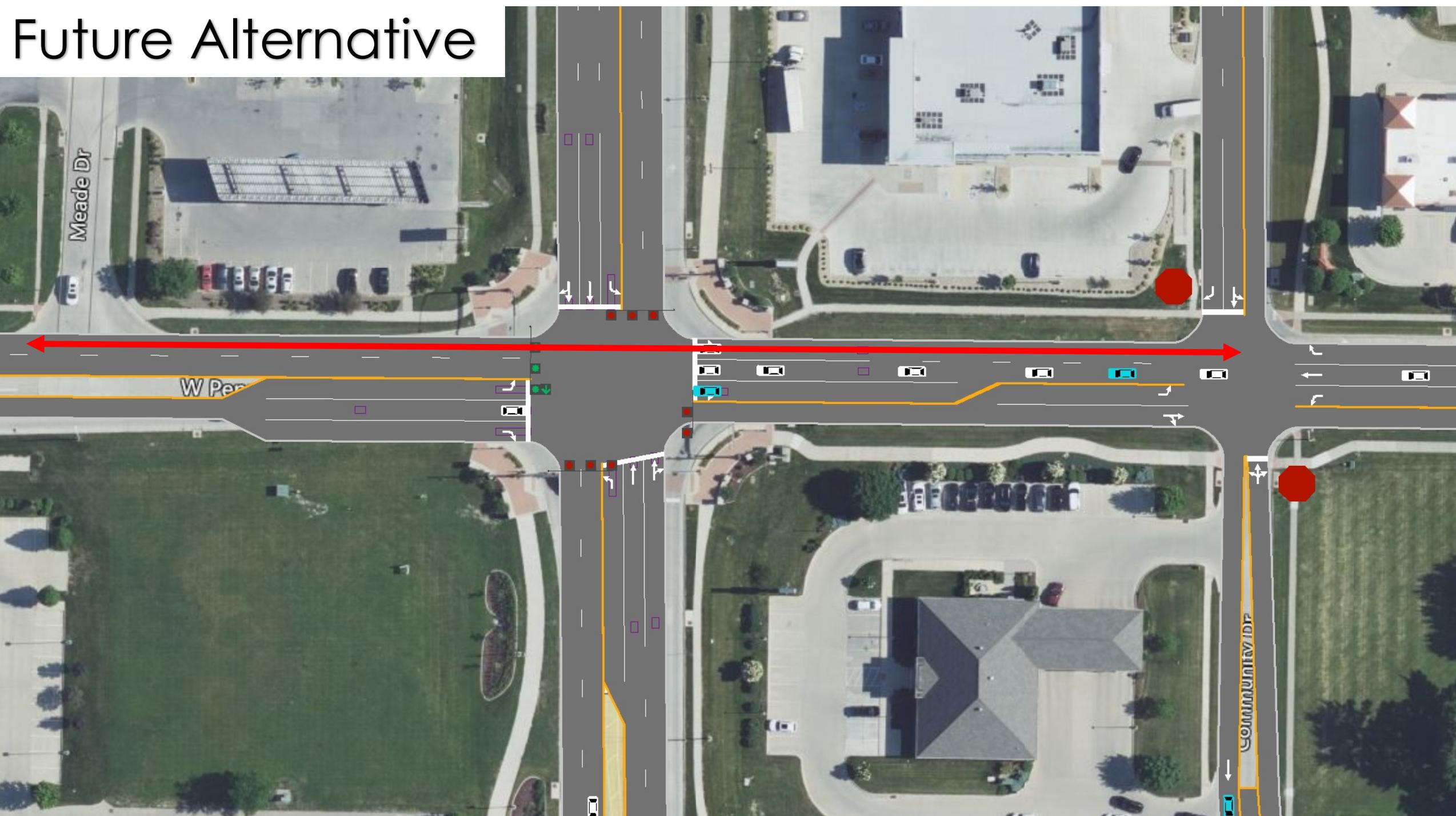
Alternative 2 (Preferred)



Synchro Model Video of Changed Signal Timing and Phasing



Future Alternative



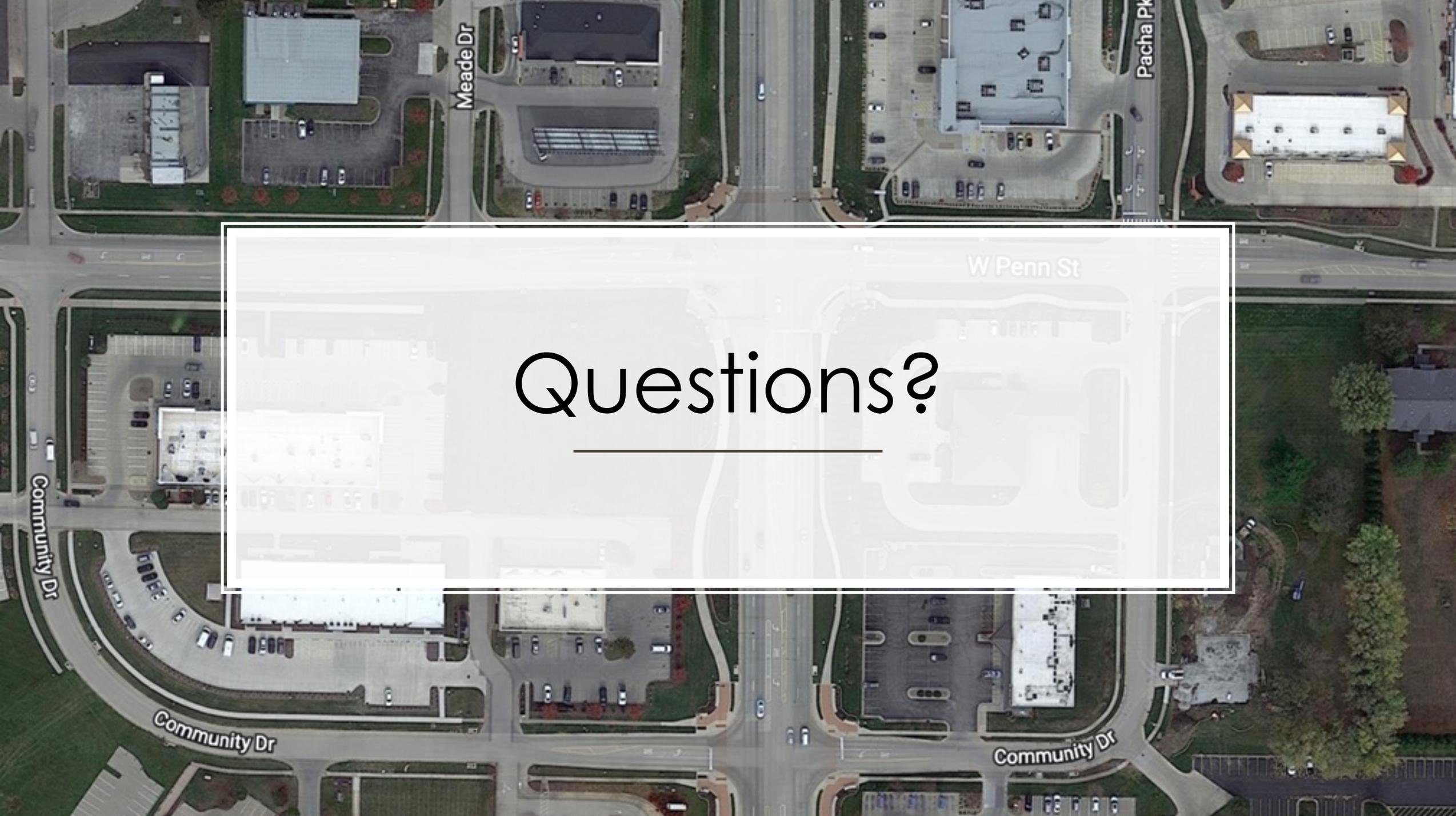
Cost Estimates

Project Cost- Estimation

Cost Estimate for Phasing and Signal Timing

- Tasks: Install New Timing Software, Testing
- 10am-3pm Shutdown
- 5 hours of labor
- \$22 hourly salary with a 2.5 multiplier=\$55/hr
- Cost = \$275

Cost Estimates Widening			
	Average Price	Amount	Total Cost
Roadway Excavation (C.Y)	\$ 166.47	544	\$ 90,559.68
HMA 6" (ton)	\$ 92.94	475	\$ 44,146.50
Removal special (ft ²)	\$ 30.00	4700	\$ 141,000.00
Backfill 8" (C.Y)	\$ 200.00	311	\$ 62,200.00
Right of way (acre)	\$ 14,116.00	0.573	\$ 8,088.51
Relocation of Utilities			\$ 10,000.00
		Total	\$ 356,000.00
		Cost in 10yrs	\$ 637,600.00

An aerial photograph of a residential development, likely a school campus, featuring several large buildings, parking lots, and roads. A semi-transparent map overlay is centered on the image, showing the layout of the buildings and roads. The word "Questions?" is written in a large, black, sans-serif font across the center of the map overlay. A thin horizontal line is positioned below the text. The map overlay is framed by a thin white border. The background image shows various buildings, including a large white building with a flat roof, and several parking lots with cars. Roads are labeled with names like "Meade Dr", "Pacha PK", "Community Dr", and "W Penn St".

Questions?

W Penn St

Meade Dr

Pacha PK

Community Dr

Community Dr

Community Dr