

Alternatives Selected for Evaluation

Alternative A (No Build Plus)

“Alternative A” serves as the study’s “no build plus” alternative. The purpose of this alternative is to confirm that a minimalist approach to improving the LeSauk Drive Corridor and CSAH 1 area will result in unacceptable traffic operations.

Alternative A (No Build Plus)

- Four-lane CSAH 1 between TH 15 and LeSauk Drive
- Maintain current access at CSAH 1 and LeSauk Drive
- Intersection improvements at TH 15 and CSAH 1

Alternative B (Base Improvements)

“Alternative B” was developed to understand the potential mitigation factors relative to an expanded CSAH 1 facility and restricted access at CSAH 1 and LeSauk Drive.

Alternative B (Base Scenario - Planned Improvements)

- Right-in/right-out at CSAH 1 and LeSauk Drive
- Four-lane CSAH 1 between TH 15 and Heritage Drive
- Intersection improvements at TH 15 and CSAH 1

Alternative C (Four-Legged Roundabout)

“Alternative C” is a derivative of “Alternative B;” it was developed with access control and system circulation in mind. Restricting access at the CSAH 1/LeSauk Drive intersection to right-in/right-out, neither allows left-in’s or left-outs from this access. The left-turning vehicles that are destined for LeSauk Drive would have the opportunity to make a U-turn maneuver at the CSAH 1/Heritage Drive intersection. Based on a review of the adjacent transportation system, the implementation of roundabouts as a traffic control device is typical.

Alternative C (Four-Legged Roundabout)

- Base Improvements (Alternative B)
- Roundabout at CSAH 1 and Heritage Drive
- 19th Street Extension (between Amber Avenue South and LeSauk Drive)

Alternative D (Five-Legged Roundabout)

“Alternative D” builds upon the roundabout concept at CSAH 1/Heritage Drive by adding a fifth leg to the intersection. The fifth leg represents a desire by the business community to provide direct access into the LeSauk Drive business park/commercial area. The fifth leg of the roundabout would enter the intersection between the Heritage Drive and CSAH 1 legs of the intersection.

Alternative D (Five-Legged Roundabout)

- Base Improvements (Alternative B)
- Roundabout at CSAH 1 and Heritage Drive
- 19th Street Extension (between Amber Avenue South and LeSauk Drive)
- Evergreen Drive extension connecting to the roundabout (fifth leg) at CSAH 1 and Heritage Drive

Alternatives Evaluation

Study Goals and Objectives		Access	Safety	Mobility		Economic Vitality	Efficiency	
		<p>Goal: Future transportation improvements will provide adequate access between businesses and the regional transportation network.</p> <p>Objective: Proposed recommendations will be consistent with local, county, and state access management guidelines.</p>	<p>Goal: Future transportation improvements will address known safety issues occurring in the area.</p> <p>Objective: Proposed recommendations will help address the above average crash rates at CSAH 1/Heritage Drive and LeSauk Drive/Twins Rivers Court (north).</p>	<p>Goal: Future transportation improvements will improve traffic flow between businesses and the regional transportation network.</p> <p>Objective: Proposed recommendations will help reduce existing travel delays at the intersections of LeSauk Drive/CSAH 1 and CSAH 1/Heritage Drive.</p>	<p>Goal: Future transportation improvements will support the economic vitality of existing and future businesses.</p> <p>Objective: Proposed recommendations will be developed in a manner that minimize the impacts to existing businesses.</p>	<p>Goal: Future transportation improvements will support low-cost/high-benefit solutions before exploring improvements that require significant investments.</p> <p>Objective: Proposed recommendations will minimize right-of-way impacts and project costs.</p>		
Evaluation Criteria		Access to LeSauk Drive via CSAH 1	Safety Issues	Year 2040 Side-Street Level of Service at CSAH 1/ LeSauk Dr. (AM/PM)	Year 2040 Side-Street Level of Service at CSAH 1/Heritage Dr. (AM/PM)	Business Impacts	Right-of-Way Impacts	Project Cost (includes right-of-way)
Alternatives	Alternative A (No-Build Plus)	Existing access remains as today	Improvements do not address safety concern at CSAH 1/Heritage Dr.	Level of Service F/F	Level of Service F/F	A "do nothing" approach will not address existing mobility issues and traffic delays, which may have negative impacts on businesses	Little or no right-of-way impacts	\$ (\$615,000)
	Alternative B (Base Scenario)	The base improvements will pose challenges for patrons entering/existing the businesses via northbound CSAH 1	Improvements do not address safety concern at CSAH 1/Heritage Dr.	Level of Service D/D	Level of Service F/F	The base improvements will not address existing mobility issues and traffic delays, which may have negative impacts on businesses	Little or no right-of-way impacts	\$ - \$\$ (\$1,725,000)
	Alternative C (Four-Legged Roundabout)	The roundabout will provide adequate access for patrons entering/exiting the businesses via CSAH 1	Improvements will help mitigate safety concerns at CSAH 1/Heritage Dr.	Level of Service D/D	Level of Service B/B	The proposed improvements will reduce traffic delays, improving access to LeSauk Dr. (via the roundabout), and traffic flow throughout the study area	Right-of-way impacts to adjacent properties	\$\$\$ (\$3,150,000)
	Alternative D (Five-Legged Roundabout)	The five-legged roundabout will provide full access for patrons entering and exiting the businesses	Improvements will help mitigate safety concerns at CSAH 1/Heritage Dr.	Level of Service D/D	Level of Service B/C	The proposed improvements will reduce traffic delays, improving access to LeSauk Dr. (via the roundabout), and traffic flow throughout the study area	Significant right-of-way impacts to adjacent properties	\$\$\$\$ (\$4,425,000)
Key:	Provides the highest benefit in achieving the study goal and objective.		Provides a moderate level of benefit in achieving the study goal and objective.		Provides little or no benefit in achieving the study goal and objective			