

Draft Concept Evaluation

Carver County River Crossing Study

Watertown, Minnesota

Arterial Performance: The performance of the roadway concepts were evaluated based upon:

- Route connectivity
- Ability to accommodate truck traffic through the community
- Amount of congestion relieved on the CSAH 10 bridge
- Reduction of hours spent on the roadway system
- Providing an east-west connection elevated above the floodplain

Safety: While all concepts will be safely designed, the safety evaluation assessed how well the concepts:

- Maximized sight distance (horizontally and vertically)
- Reduced skewed intersections
- Limited access, meeting County standards
- Reduced the number and severity of sharp curves

Natural Environment: The impacts on the natural environment were evaluated upon:

- Noise impacts on existing development
- Impacts to Riverpointe Park
- Wetland impacts
- Floodplain / floodway impacts
- Farmland impacts
- Contaminated property impacts
- Historic properties impacts

Human Environment: The impacts on the population were evaluated based upon:

- Impacts to property / residences
- Proximity to Development
- Community connectivity when CSAH 10 bridge is closed (Construction / Flooding)
- Ability to serve pedestrians

Growth: Ability for the concepts to serve the planned growth in the region were evaluated upon:

- Ability to best serve the 2030 growth area
- Building towards the planned vision (growth and beltway)
- Ability to serves the demands of the Industrial Park

Cost: Preliminary cost estimates were performed based upon the amount of:

- Roadway construction
- Land impacts
- Building impacts
- Bridge construction
- Phasing

The table below summarizes the impacts of each concept by evaluating the comprehensive list above. The concepts that best meet the purpose and need while balancing impacts and cost have been identified.

Concept	Meets Purpose and Need	Arterial Performance	Safety	Natural Environment	Human Environment	Growth	Cost (millions)	Recommended Ranking
No Build	No	Worst	Worst	Best	Fair	Worst	\$0.0	4
Concept A	Yes	Best	Good	Worst	Fair	Best	\$12.0	3
Concept B	Yes	Fair	Worst	Fair	Poor	Fair	\$13.6	7
Concept C	No	Does not meet Purpose and Need - Not Evaluated						
Concept D	No	Does not meet Purpose and Need - Not Evaluated						
Concept E	No	Does not meet Purpose and Need - Not Evaluated						
Concept F	No	Does not meet Purpose and Need - Not Evaluated						
Concept G	No	Does not meet Purpose and Need - Not Evaluated						
Concept H	Yes	Fair	Poor	Fair	Poor	Fair	\$13.8	5
Concept I	Yes	Fair	Fair	Worst	Poor	Fair	\$13.8	5
Concept J	No	Does not meet Purpose and Need - Not Evaluated						
Concept K	No	Does not meet Purpose and Need - Not Evaluated						
Concept L	Yes	Fair	Fair	Good	Good	Fair	\$12.5	2
Concept M	Yes	Best	Best	Fair	Best	Best	\$11.1	1