Highway 64 Realignment Clear River Valley Functional Planning Study

Information Session

November 23, 2022 – 4:30 to 8:00 pm

Menno Simons Community School

WELCOME



Highway 64 Clear River Bridge Looking North





Welcome

Highway 64 Realignment
Clear River Valley
Functional Planning Study

Information Session #1

This information session is an informal drop-in format, there will be no presentation.

The purpose of this information session is to:

- Introduce the study process
- Outline the study objectives and organization
- Present the constraints and factors affecting development of a realignment plan
- Share the alignments explored for Highway 64
- Gather your feedback and input

Please take a few minutes to review the display panels and discuss the study with project staff.





Study Background

- + Highway 64 is a major two-lane, intra-provincial highway facility
- First paved in 1983, the highway is the primary transportation corridor through Clear Hills County, connecting Highway 2 near Fairview with British Columbia and linking most of the County's hamlets.
- With 8 active slide locations, the existing Clear River crossing is increasingly at risk of slide activity.
- The existing bridge will soon need a major rehabilitation or replacement and river stabilization.



Existing Highway 64 Looking East Across the Clear Rive





Study Purpose

Identify and review technically feasible alternatives for a potential new Highway 64 alignment crossing of the Clear River Valley.

Study Objectives

To develop a technically feasible realignment plan that:

- + Provides the most appropriate design given site constraints
- Addresses stability and safety, community interests, environmental and historical resources, drainage and other impacts
- Identifies access management needs
- + Identifies land requirements

Study Outcomes

The outcome of this study will:

+ Help the province understand if a technically feasible new alignment crossing of the Clear River Valley exists





Working Together

Technical Review Committee (TRC)

- + Clear Hills County is a member of the Technical Review Committee
- + The Technical Review Committee guides the study process at key points

Stakeholders & Members of the Public

+ The study team will obtain feedback on alternatives and outcomes

Project Process & Timeline

Winter 2022

Information Gathering

- Technical Investigations
- Project Start-up with TRC
- Stakeholder Engagement



Alternative **Development**

- Technical Analysis
- Create
 Alternatives

Summer/Fall 2022

Compare Alternatives

- Preliminary Evaluation & Pre-screening
- TRC Meeting
- Stakeholder & Public Engagement



WE ARE HERE

Fall/Winter 2022-2023

Select Preferred New Alignment

- Technical Analysis
- Complete Evaluation
- TRC Meeting
- Stakeholder & Public Engagement



Spring 2023

Finalize Alignment

- Develop Functional Plan
- TRC Meeting
- Municipal Support
- Alberta
 Transportation and
 Economic Corridors
 Approval





Public Input

What We Heard – Project Appraisal Phase

The study team spoke with 10 landowners or leaseholders representing 33 of the 45 properties within the study area.

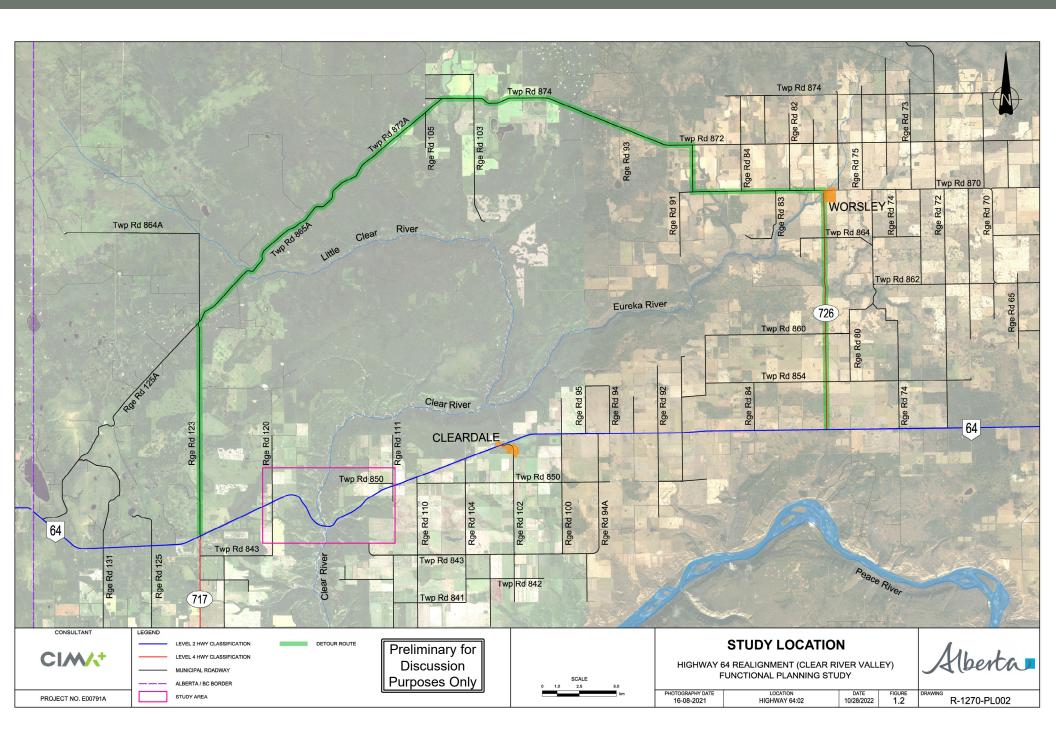
Common themes from the discussions included:

- A general understanding of the needs for the project and project purpose
- The Clear River campground, rodeo grounds and the river valley are of great importance to the community
- The long detour when slides close the highway is a concern
- Safety concerns along the existing alignment include intersections and the long steep grades
- Climbing lanes are an important consideration
- + It is desirable to have pullouts at the top of the grades

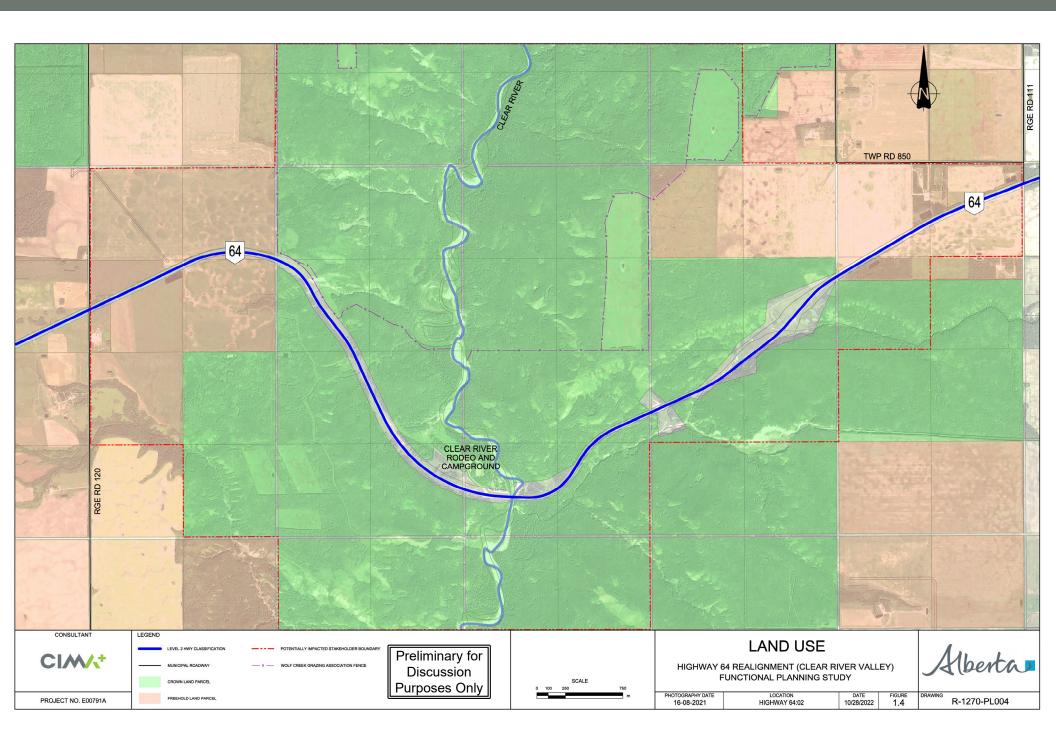




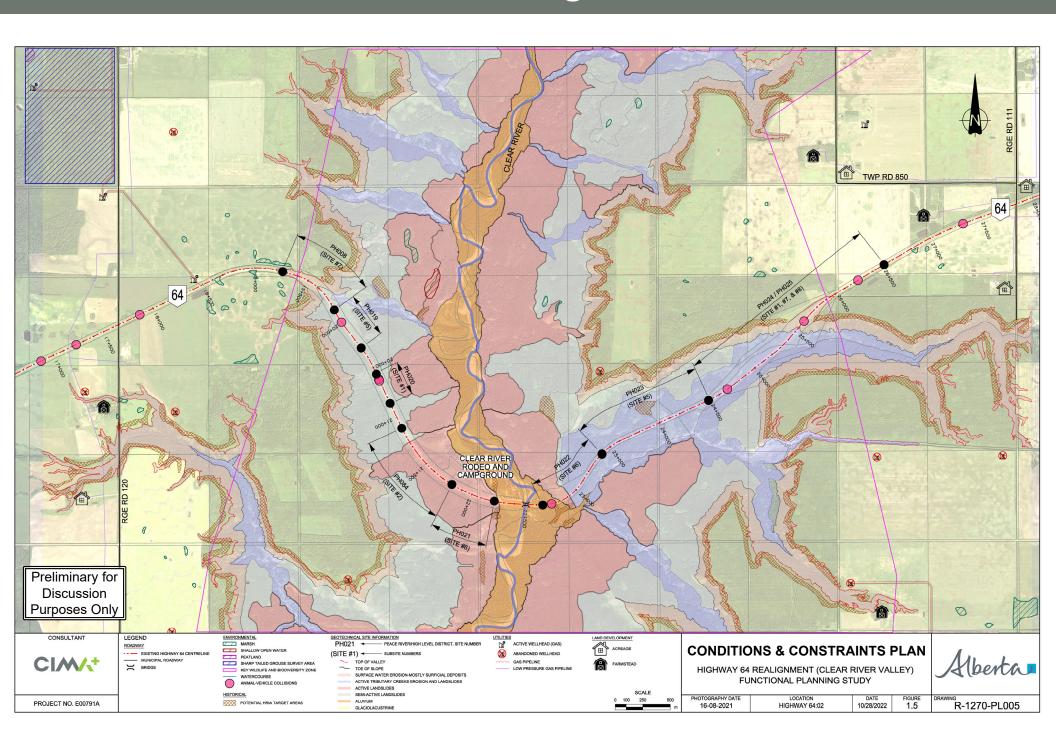
Study Location & Regional Roadway Network



Land Use



Existing Conditions & Constraints



Alternative Development

- + Key technical factors in the development of alternatives were:
 - Geotechnical stability
 - River stability
 - Roadway design standards and constructability
 - Environmental and historical resources

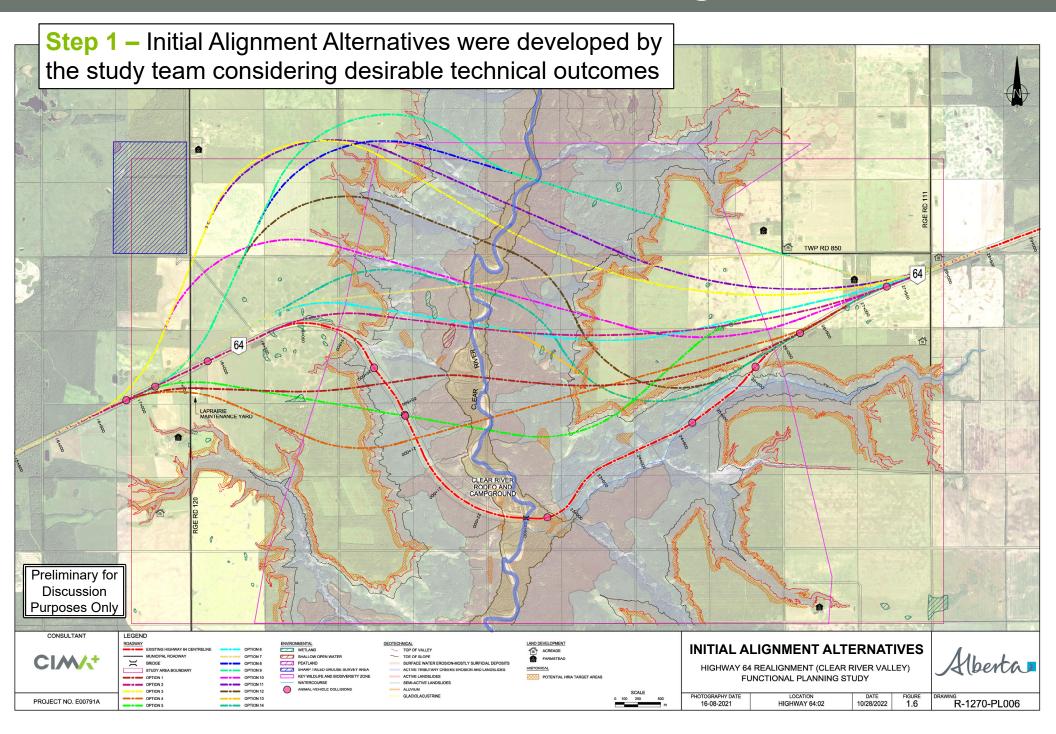


Highway 64, Looking West Across the Clear River Valley

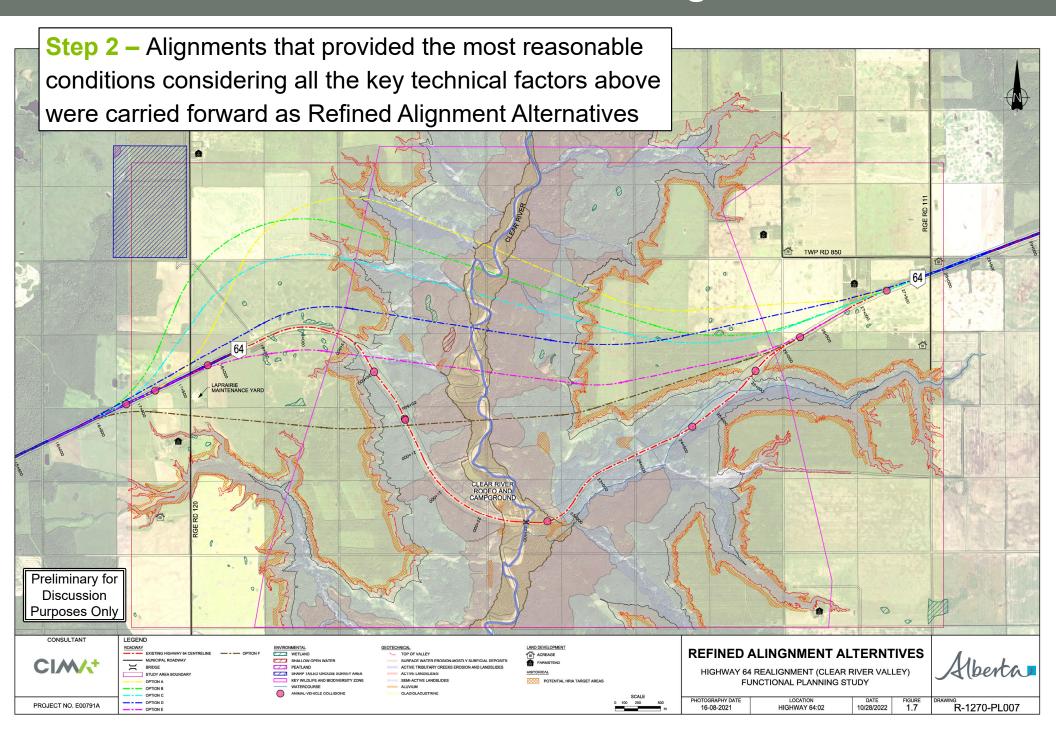




Initial Alignment Alternatives



Refined Alignment Alternatives



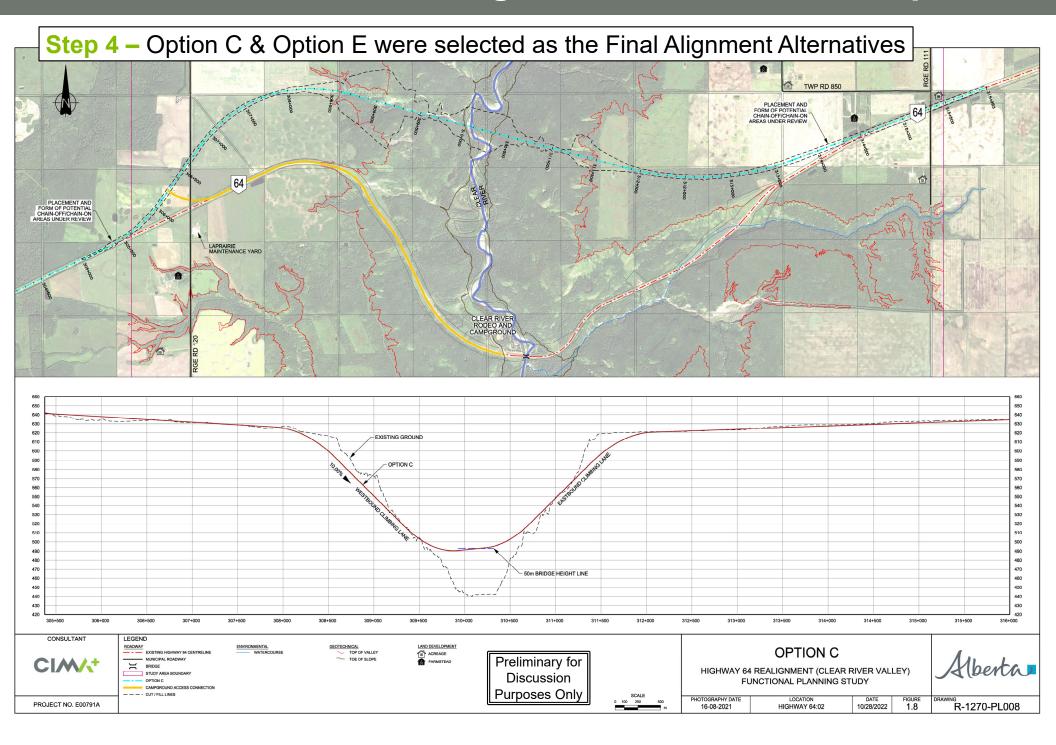
Alternative Development

- Step 3 Bridge heights varying between 30m and 50m as well as, roadway grades between 8% –10% were investigated for each of the Refined Alignment Alternatives
- + This allowed for further review of geotechnical suitability, provided preliminary estimates of right-of-way needs, earth moving and disposal quantities, and roadway and bridge costs.
- Step 4 Option C & Option E were selected as the Final Alignment Alternatives.
- + These options:
 - Provide a wide enough valley base to allow for a 50m bridge height
 - Are located along ravines
- Both of which help to reduce earth moving and disposal quantities and costs

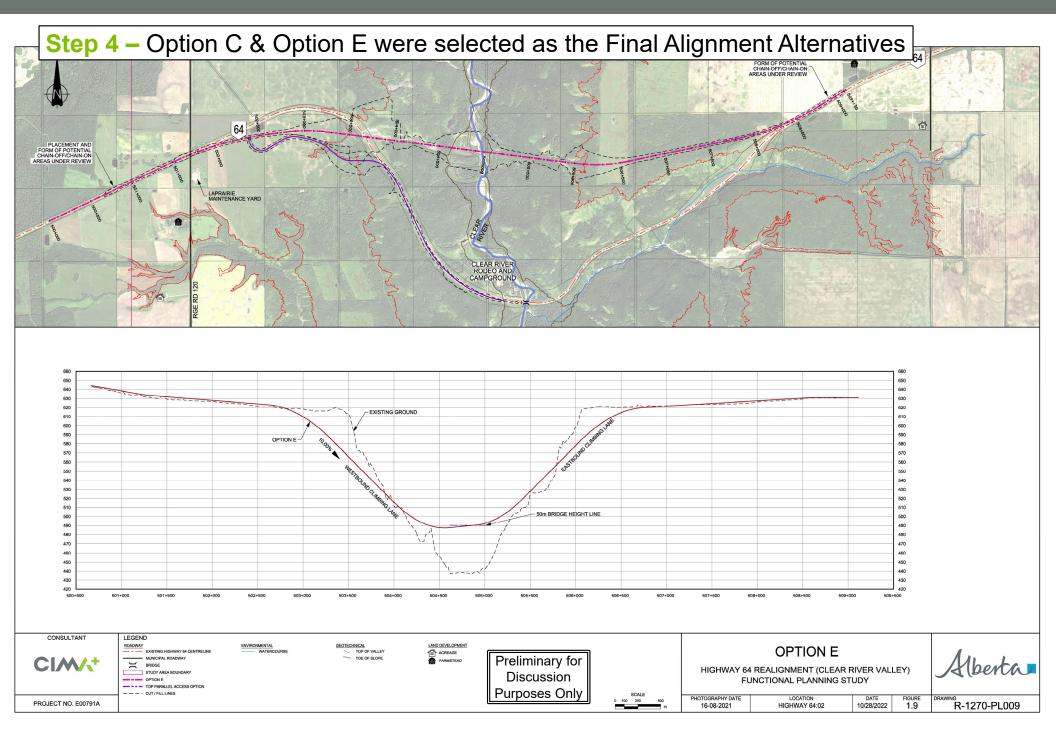




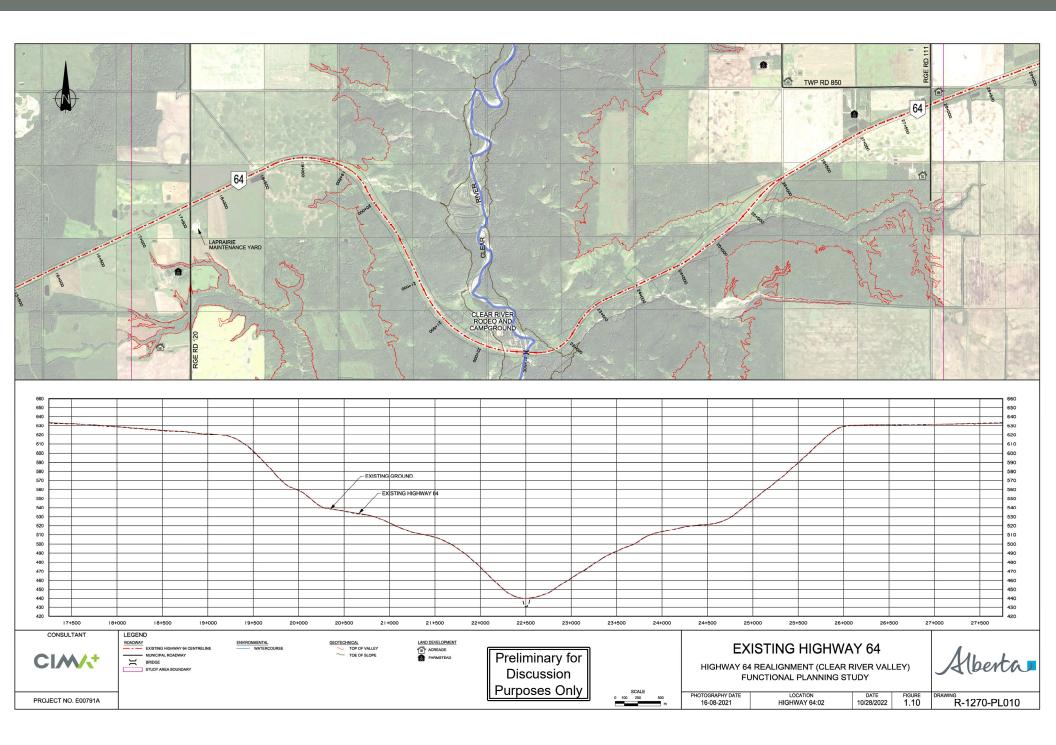
Final Alignment Alternatives – Option C



Final Alignment Alternatives – Option E



Existing Crossing



Preliminary Screening

	Criteria No.:	Criteria No.: 1 2		3		4	5	6	7		8	9
	DESCRIPTION:	Environ-	- Bridge	Geotechnical Stability		Construct-	Access to		Land Requirements		Excavation	Preliminary Cost
DESCRIPTION.		mental & Placement Historical & River	Bridge	Hillsides	ability - Traffic	Rodeo & Camp-	Impact to Land Uses	In the	Above the			
ALIGNMENT OPTIONS								River River		Estimate		
	ALIGNIVIENT OF HONS	Resources	rces Training			Disruption	ground		Valley	Valley		
1	Option 'C' (north of existing)	Good	Good	Moderate	Moderate	Best	Best	Moderate	Moderate	Good	Moderate	Worst
2	Option 'E' (crossing existing)	Moderate	Best	Moderate	Moderate	Good	Good	Good	Best	Best	Good	Worst

Screening Criteria

1. Environmental & Historical Resources

Impact on watercourse crossings, fisheries, wetlands and historical resources.

2. Bridge Placement & River Training

Ability to move the river, hold it in place using river training spur & guide bank structures

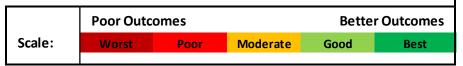
3. Geotechnical Stability

Compares alignments to a typical river crossing with flat stable terraces on each side and approach fills less than 10 m high and considers added risks compared to a typical approach cut of less than 15 m depth in a stable valley slope

4. Constructability - Traffic Disruption

Extent of construction related disruption to access and traffic flow

RANKING LEGEND



5. Ease of Access to Rodeo Grounds & Campground

6. Impact to Land Uses

Level of fragmentation to existing agricultural and grazing areas.

7. Land Requirements

Comparison of land requirements both in & above the river valley

8. Excavation

Amount of surplus material, including disposal impacts, ability to adjust design to improve material balance

9. Cost Estimate

Anticipated construction and property costs





Highway 64 Realignment – Clear River Valley Functional Planning Study

Next Steps

- + Review and summarize Information Session comments
- Finalize review and evaluation of alternatives
- + Assess environmental, stormwater, bridge planning, and geotechnical requirements
- Develop functional plans for the possible realignment
- Hold Information Session 2 to present the preferred technically feasible alignment



Highway 64, Looking East Across the Clear River Valley





Keep in Touch



Your input is important. Please fill out a comment form.



Was the information provided helpful in understanding the study? Please provide your general comments on the study information presented.



To receive notification of the next information session, please provide your email address on the comment forms.

Information session information will be available at: https://www.alberta.ca/highway-64-clear-river-valley.aspx

Thank you for attending!

Please plan to join us at the next session in early 2023



