

# Vinca Bridge Replacement

## Welcome

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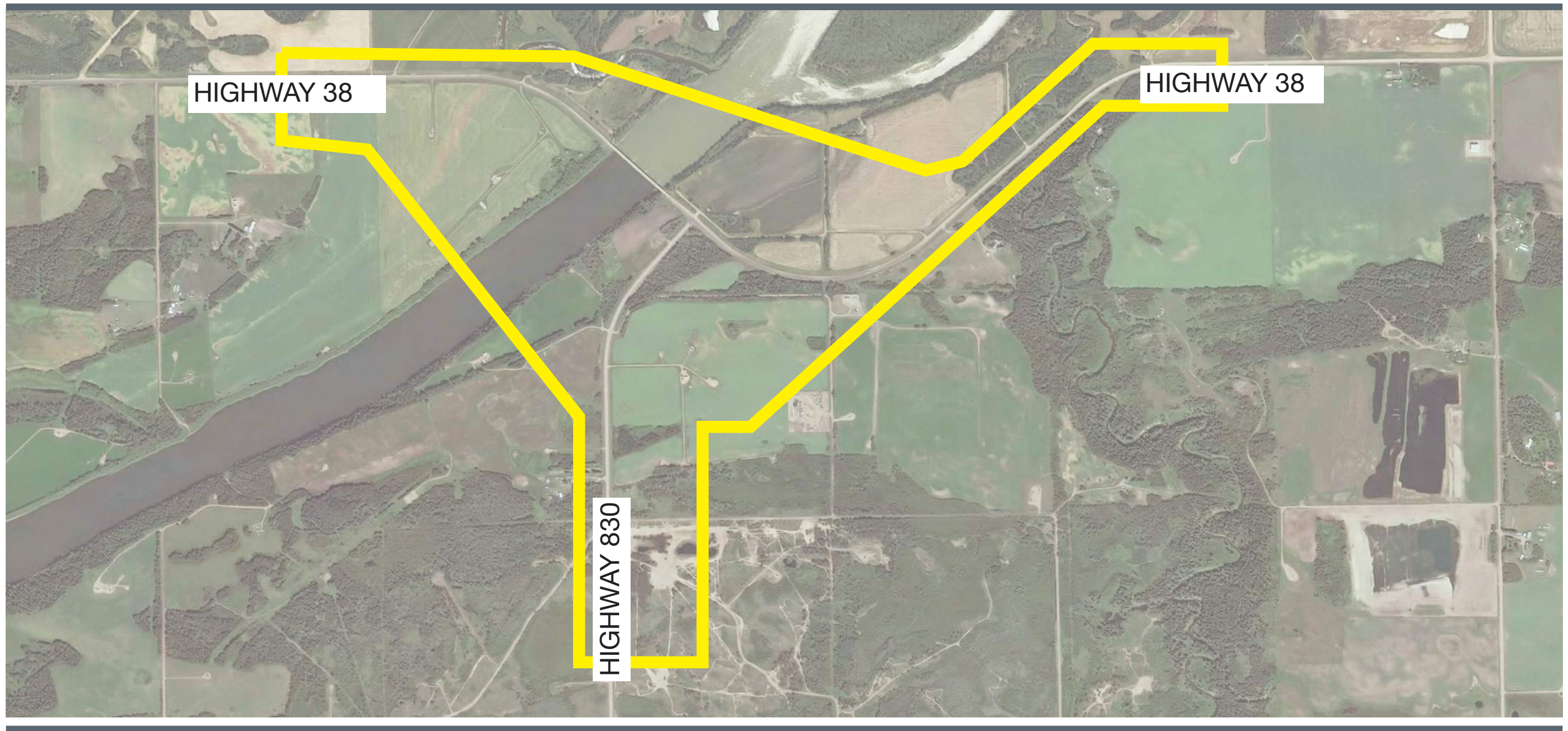
Due to risks associated with in-person events and physical distancing protocols in place as a result of COVID-19, there will be no in-person public event for this project.

However, this presentation has been prepared for stakeholders and interested members of the public to learn more about the project.



# About the Project

## Project Location Map



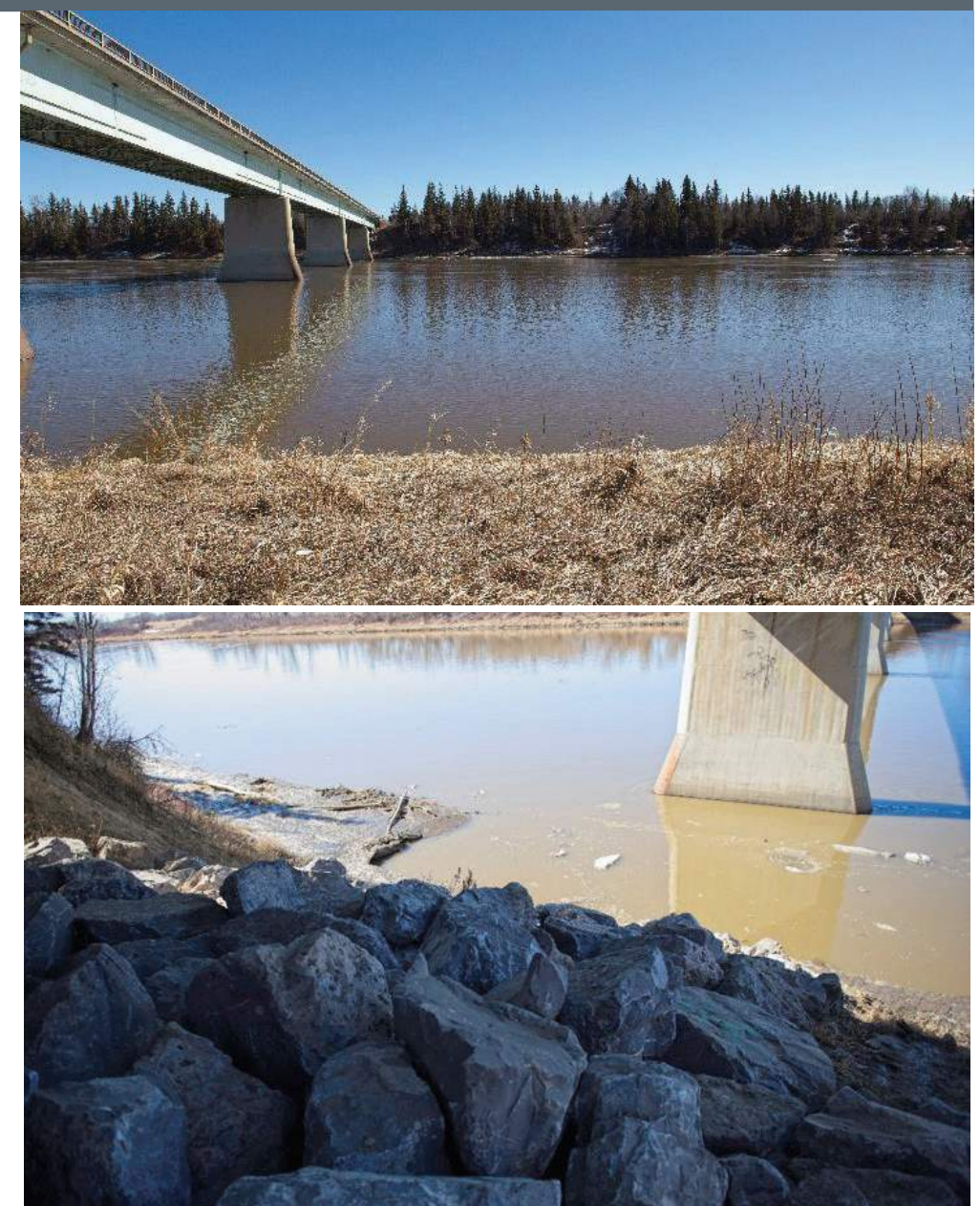
# Project Background

- The existing Vinca Bridge was built in 1967 and needs to be replaced due to its age and the condition of the structure.
- The Vinca Bridge has been identified as the preferred crossing over the North Saskatchewan River for Over-sized / Over-weight Loads heading to northern Alberta.
- Currently, the bridge serves 1500 vehicles per day, 24% of which are large trucks.



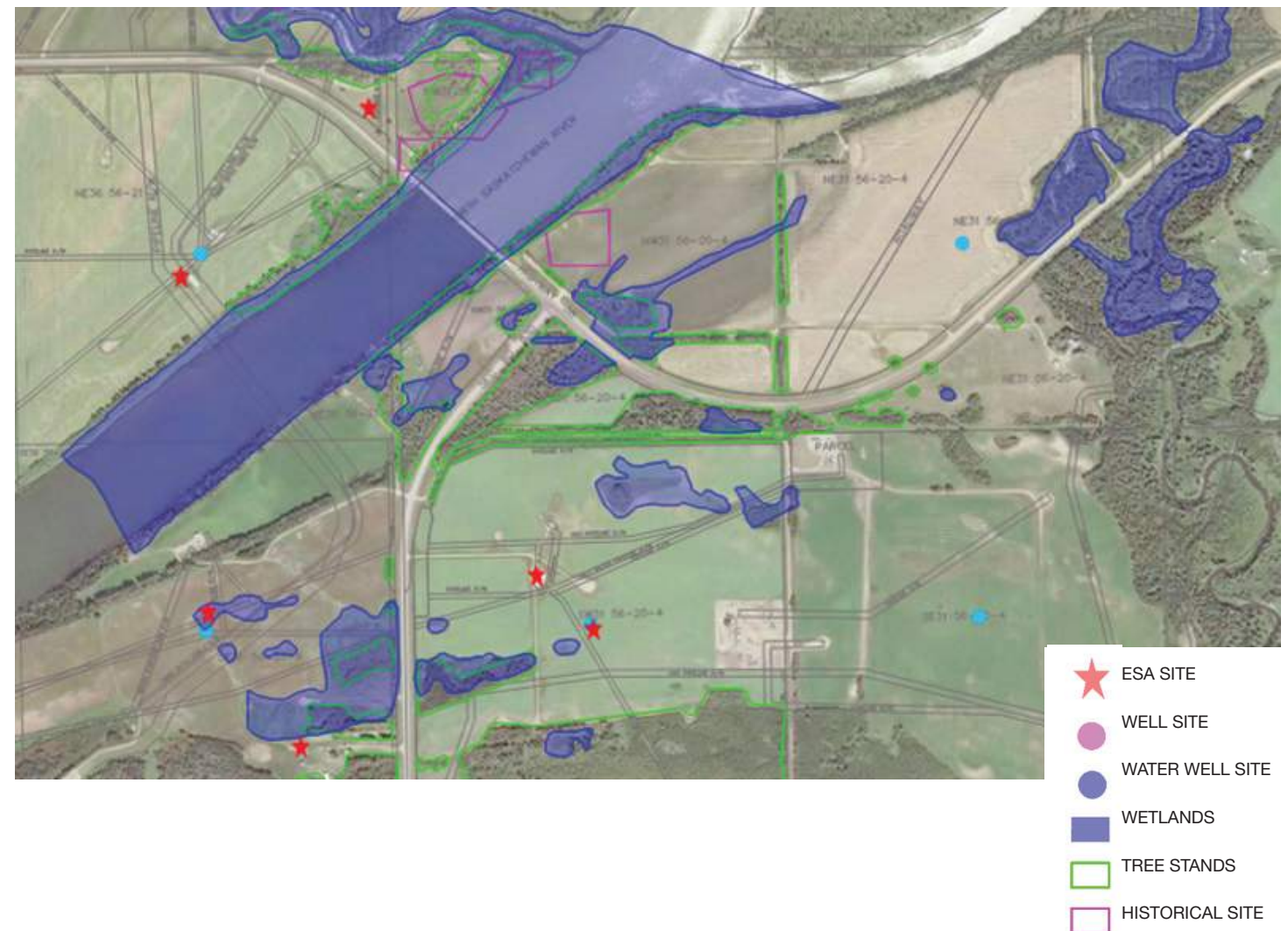
# Project Considerations

- The North Saskatchewan River channel is stable due to upstream dams, but the bridge crossing should still be perpendicular to water flow.
- Steep river banks and removing vegetation for construction could reduce slope stability. This needs to be considered during construction staging.
- The bridge over Beaverhill Creek is in good condition and will not be impacted by this project.



# Project Constraints: Environmental

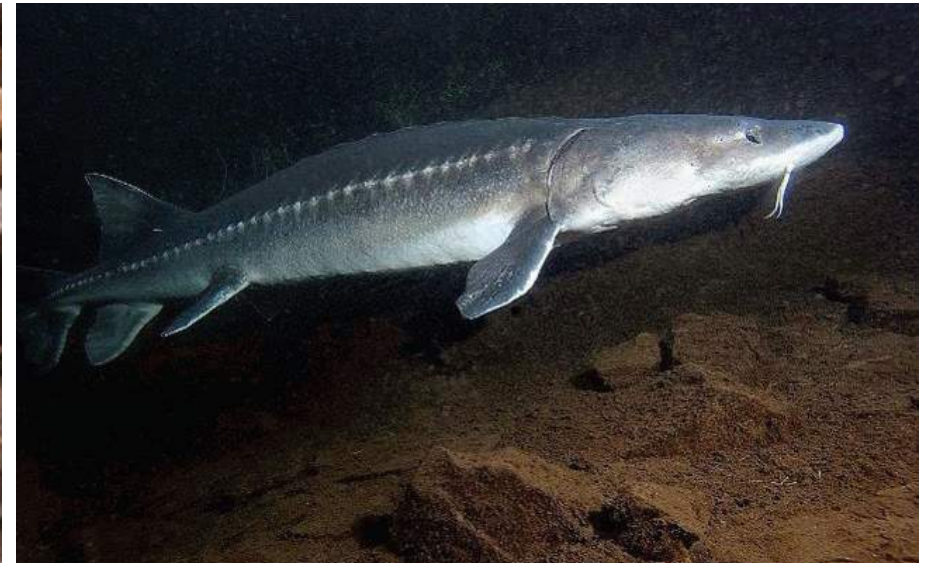
- 3 watercourses in the study area
  - North Saskatchewan River
  - Redwater River
  - Beaverhill Creek
- 16 wetlands
- Numerous tree stands
- 6 Non-reclaimed Environmentally Sensitive Area sites



# Project Constraints: Environmental Cont'd

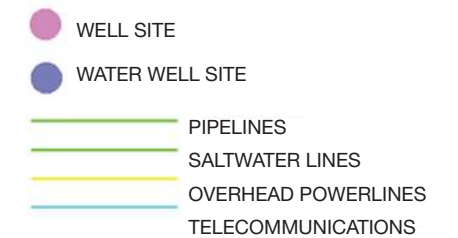
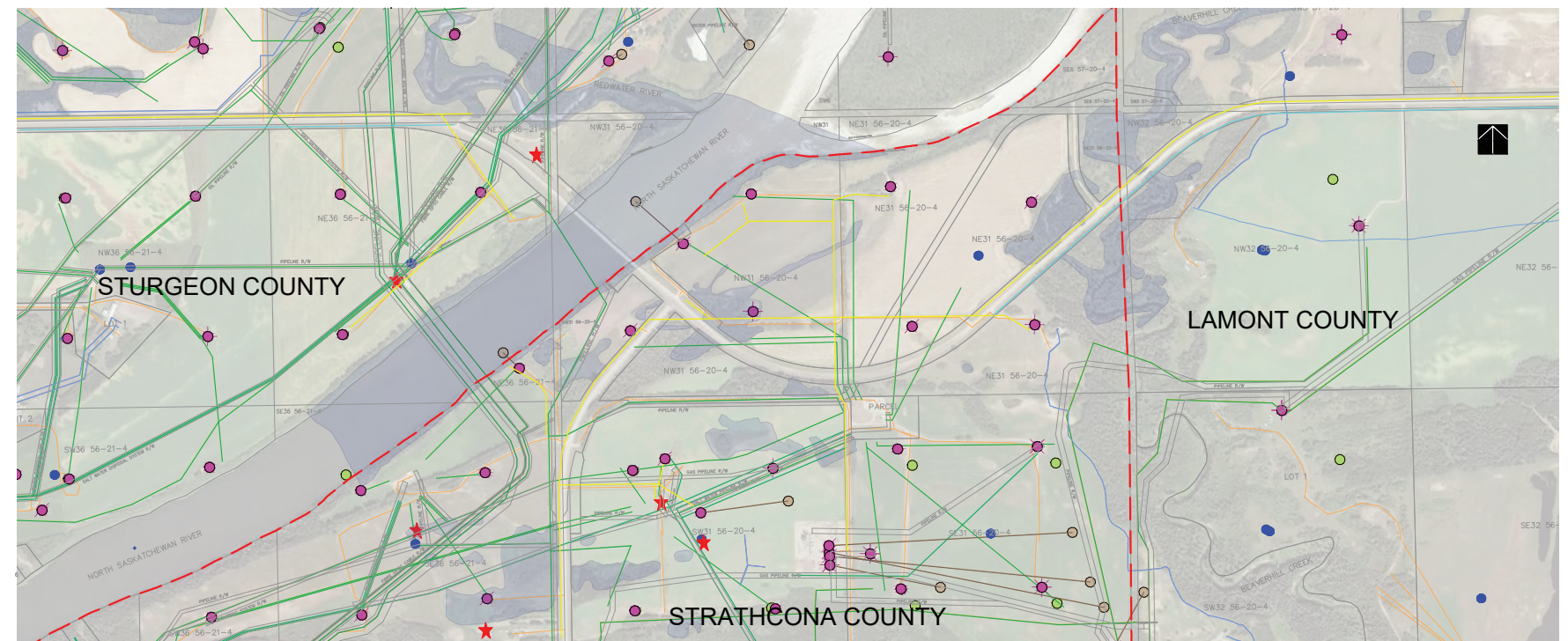
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- Rare vegetation
  - Creeping ancyloid
  - Moss
- Wildlife habitats
  - 43 birds
  - 6 mammals
  - 2 amphibians
  - 1 reptile
- Fish Documented
  - 5 sportfish
    - Lake Sturgeon at risk
  - 4 non-sportfish



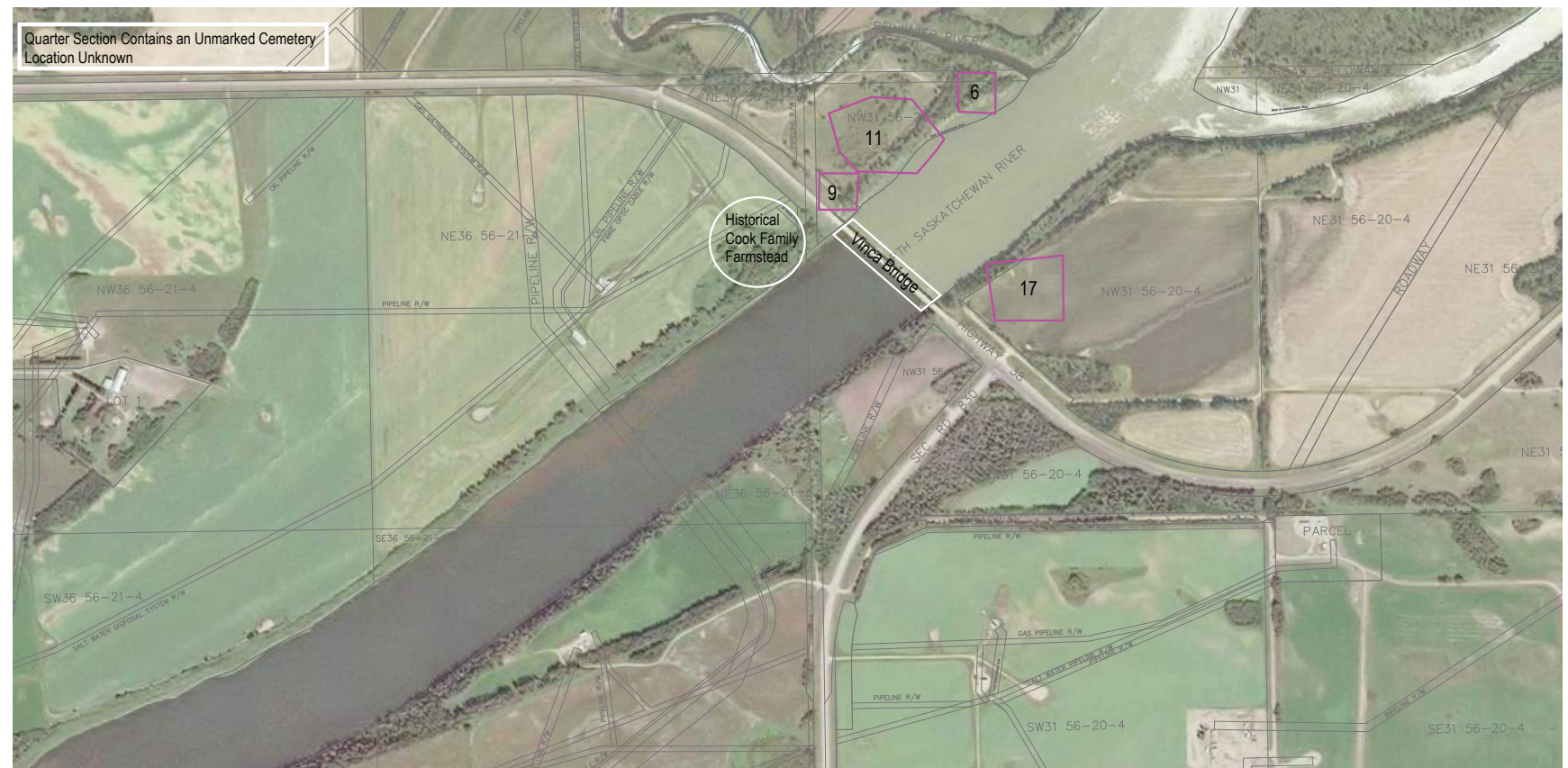
# Project Constraints: Utilities

- 24 pipelines
- 20 well sites
- 10 saltwater lines
- 3 overhead power lines
- Telecommunication lines
- 12 water wells



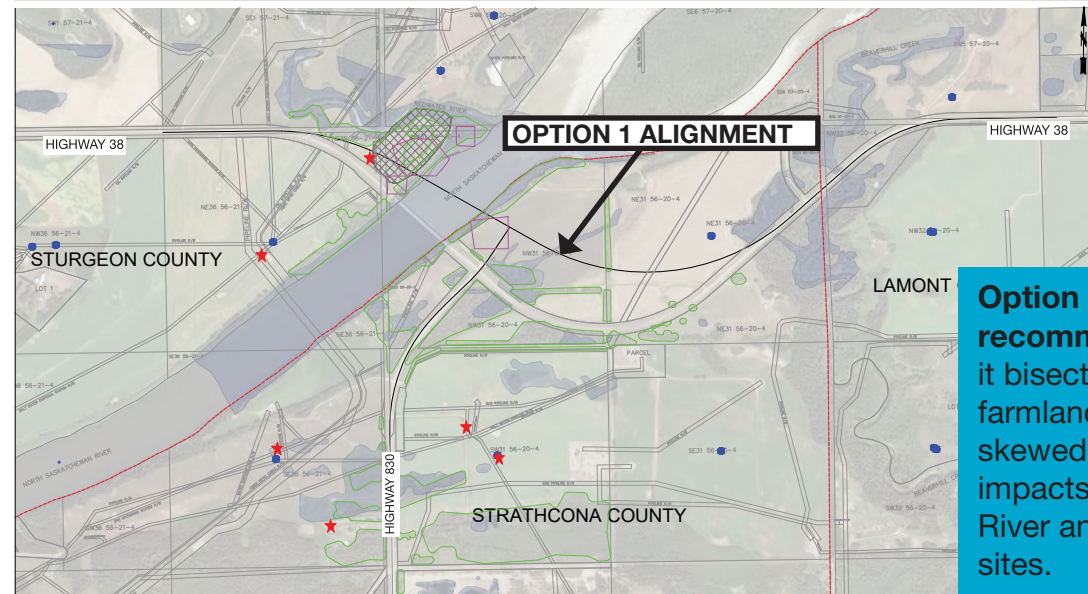
# Project Constraints: Historical

- No Aboriginal Traditional Use sites within the project limits
- 4 Historical Sites
- 3 Historical Structures
  - Vinca Bridge
  - Cook Family Farmstead
  - Cook Family Cemetery

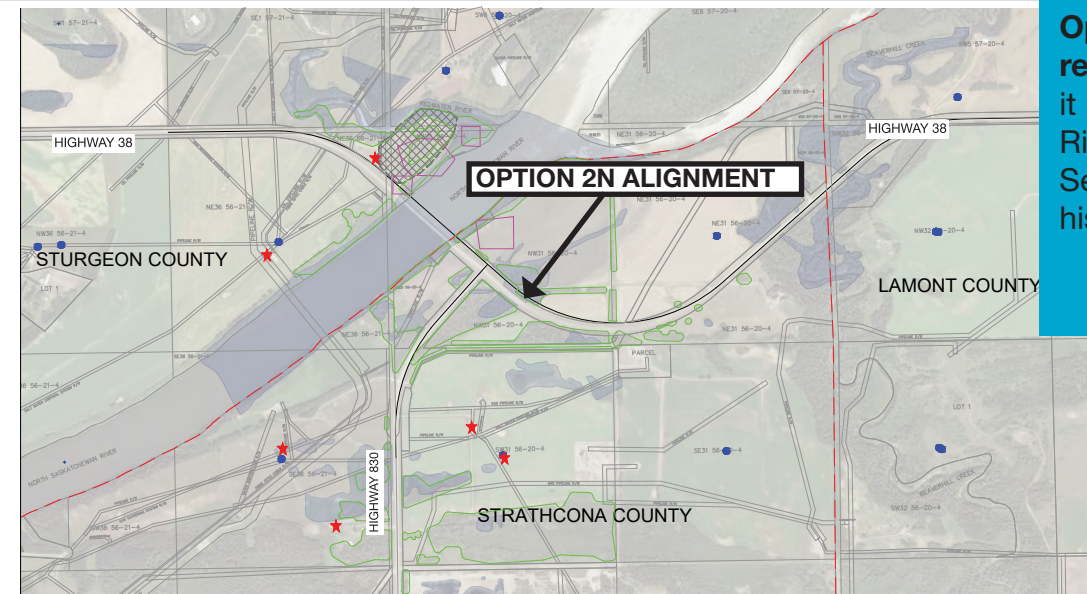




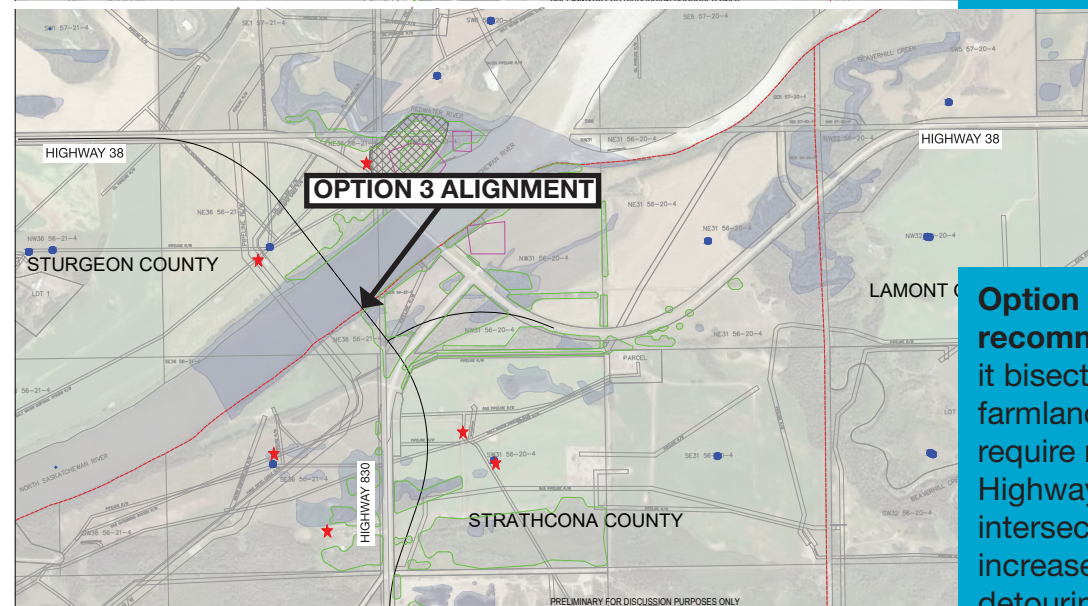
# Evaluation of Options



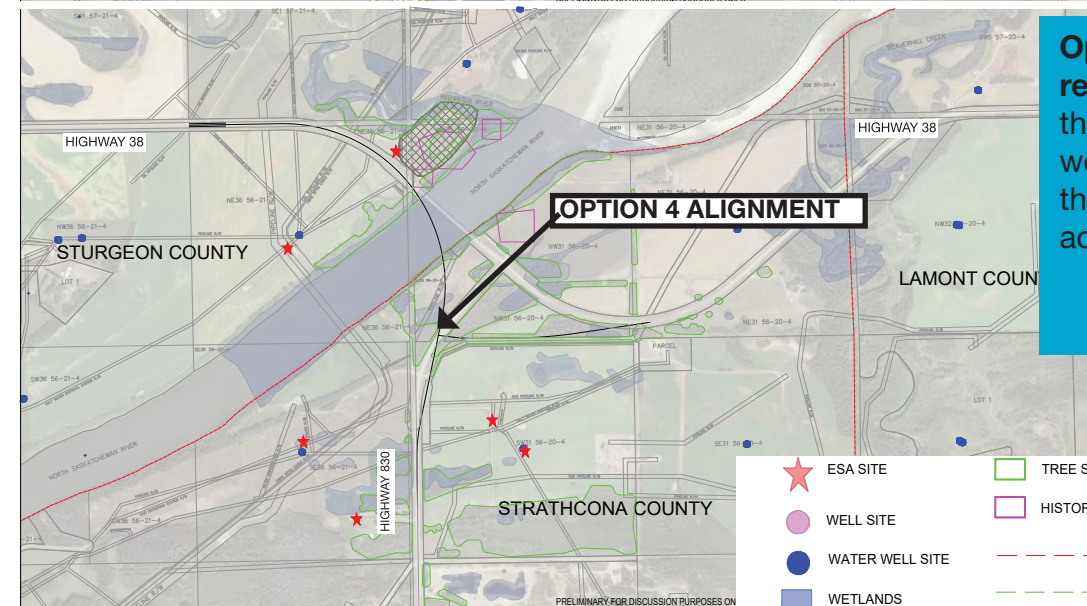
**Option 1: Not recommended** because it bisects agricultural farmland, requires a skewed bridge and impacts the Red Water River and 3 historical sites.



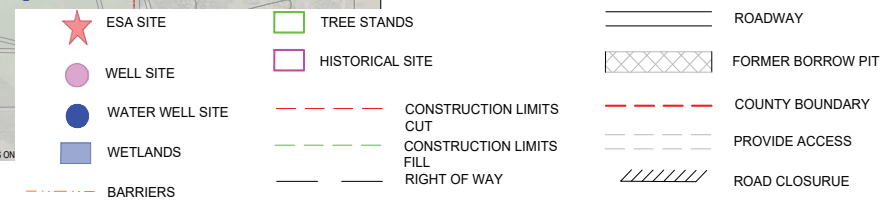
**Option 2N: Not recommended** because it impacts the Red Water River, an Environmentally Sensitive Area and 3 historical sites.



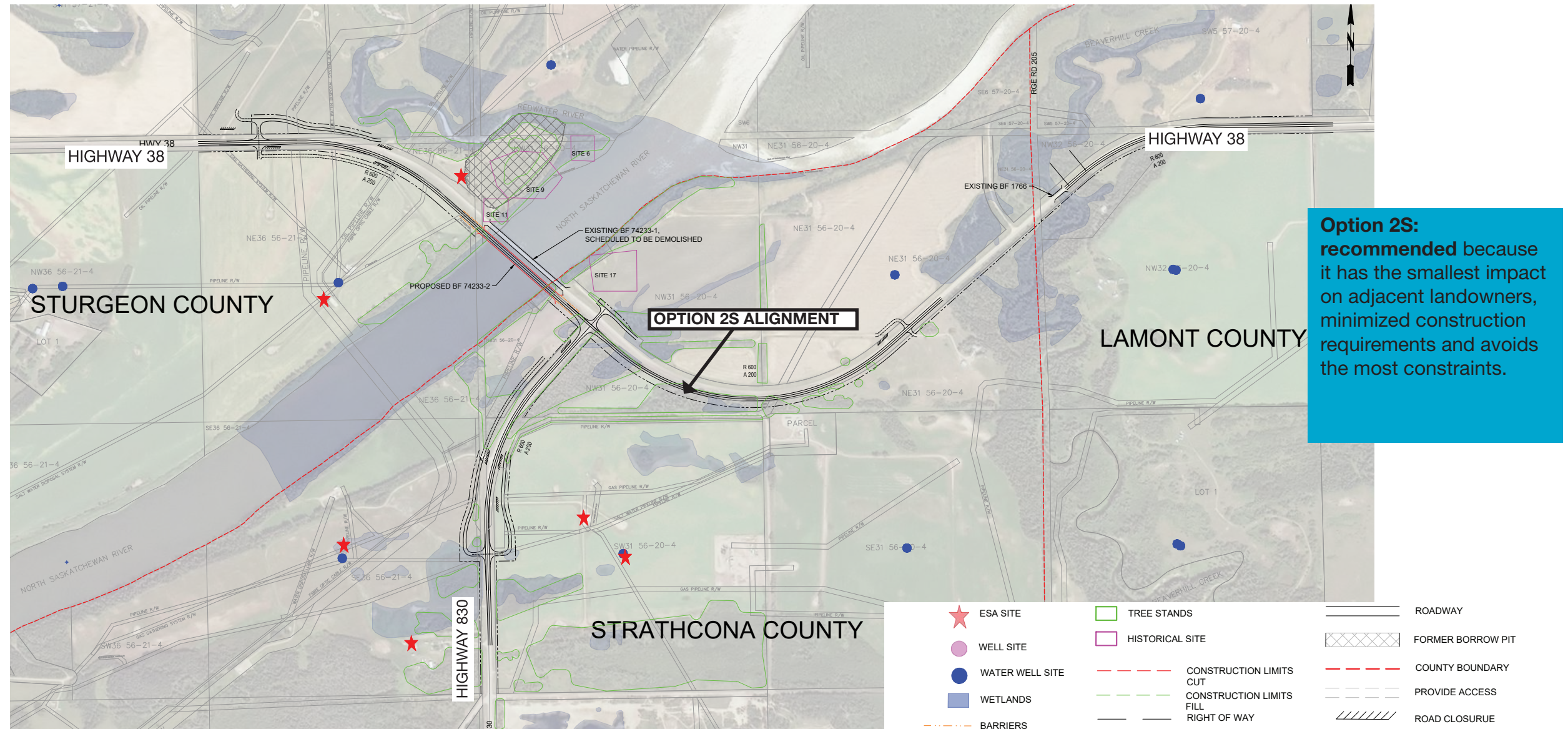
**Option 3: Not recommended** because it bisects agricultural farmland and would require raising the Highway 38/830 intersection, which increases construction detouring.



**Option 4: Not recommended** because the posted speed limit would be lower than what the project was trying to achieve.



# Recommended Option



# Project Schedule and Next Steps

- Finalize Functional Planning – early Fall 2020
- Consult with affected landowners – Summer to Fall 2020
- Field Investigations – Summer to Fall 2020
- Preliminary Engineering – Fall 2020 to Spring 2021
- Construction timeline unknown at this time. Dependant on funding.



# Thank you for your interest in the project

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For more information and updates, please visit the project website:

<https://www.alberta.ca/major-transportation-projects.aspx>

If you have any questions, please contact us using the project email address:

[vincabridge@islengineering.com](mailto:vincabridge@islengineering.com)

