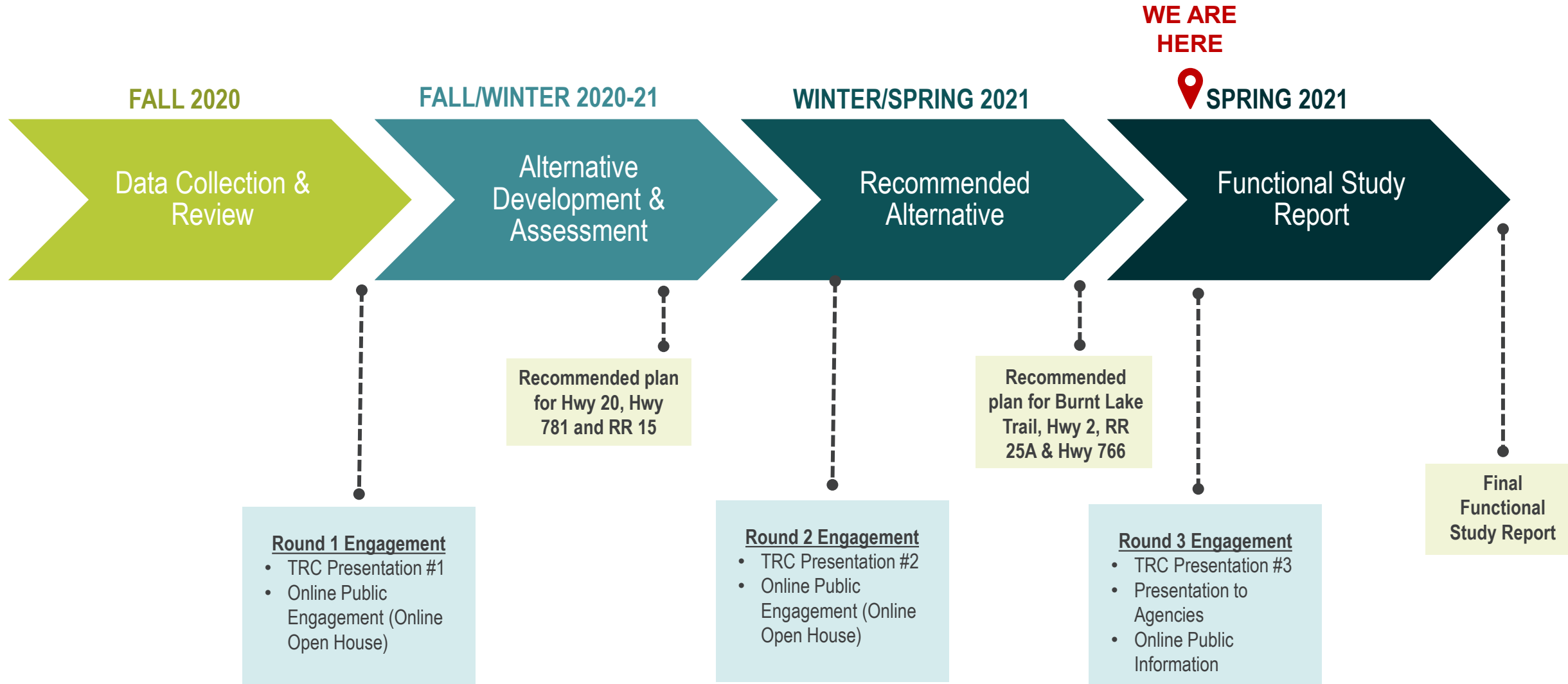


Highway 11 Functional Planning Study

Public Engagement – Recommended Plans

PROJECT PROCESS & TIMELINE



PREVIOUS ENGAGEMENT THEMES

- Through previous on-line engagement, several themes were identified:
 - Safety concerns at existing intersections
 - Strong support for Roundabout at Burnt Lake Trail & Highway 781
 - Preference for an interchange at Highway 20
 - Access concerns for RR13
 - Limited support at Benalto and Eckville for a roundabout
 - Concerns about truck movements through the roundabouts
 - Questions around timing and implementation

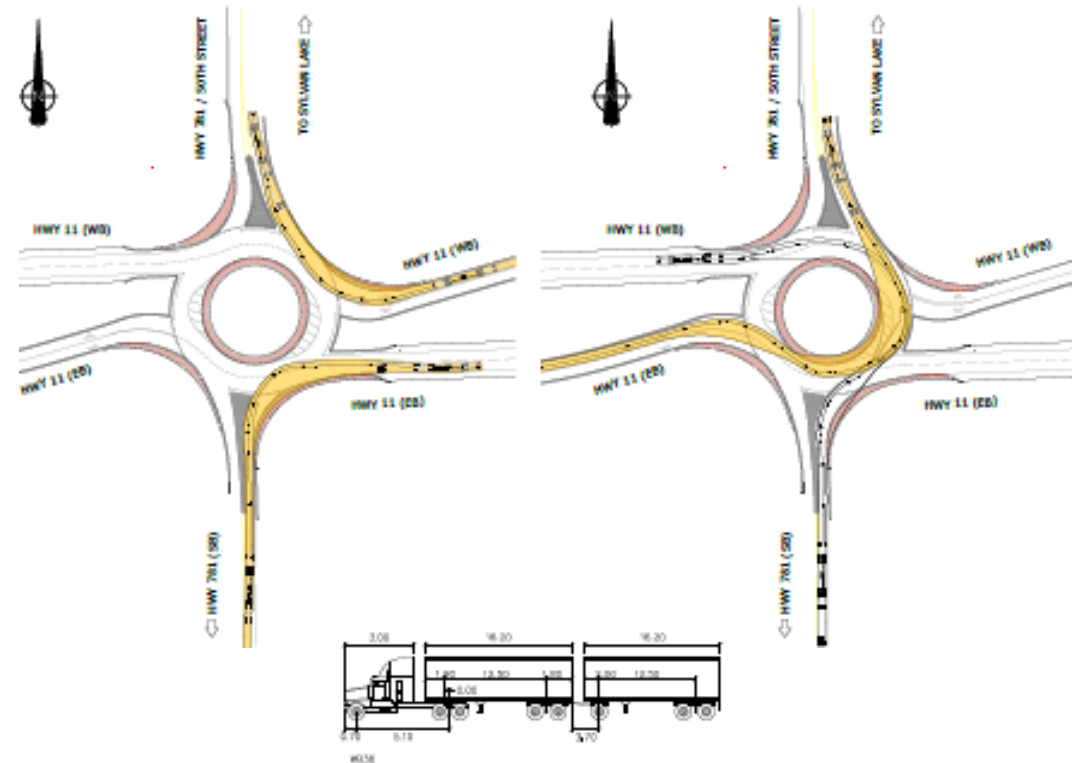
INTERSECTION EVALUATION PROCESS

- Several criteria were used to evaluate options for intersections, including costs, and benefits, safety, access and sustainability.
- Qualitative and quantitative evaluation, not just scores and numbers
- Future traffic was projected to test options decades into the future to be sure recommendations would work
- Input from public engagement was included in Community Sustainability criteria

| Criteria | SAMPLE EVALUATION | | |
|---|---|--|---|
| | <u>Base Case</u> Do Nothing (Highway 11 Twinned) | <u>Option 1</u> Signalize Intersection + Upgrades | <u>Option 2</u> 2-Lane Roundabout |
| Economic Indicators | | | |
| Benefit Cost Ratio | - | 2.4 | 3.1 (29% Better) |
| MAE Account | | | |
| Project Cost | None | Moderate Cost | High Cost |
| User Benefits | Moderate Impact | Moderate Benefit | Significant Benefit |
| Environmental & Geotechnical | Neutral | Neutral | Neutral |
| Community Sustainability | Moderate Impact | Moderate Benefit | Significant Benefit |
| Economy | Moderate Impact | Moderate Benefit | Significant Benefit |
| Results | | | |

TRUCK MANOEUVERS THROUGH ROUNDABOUTS

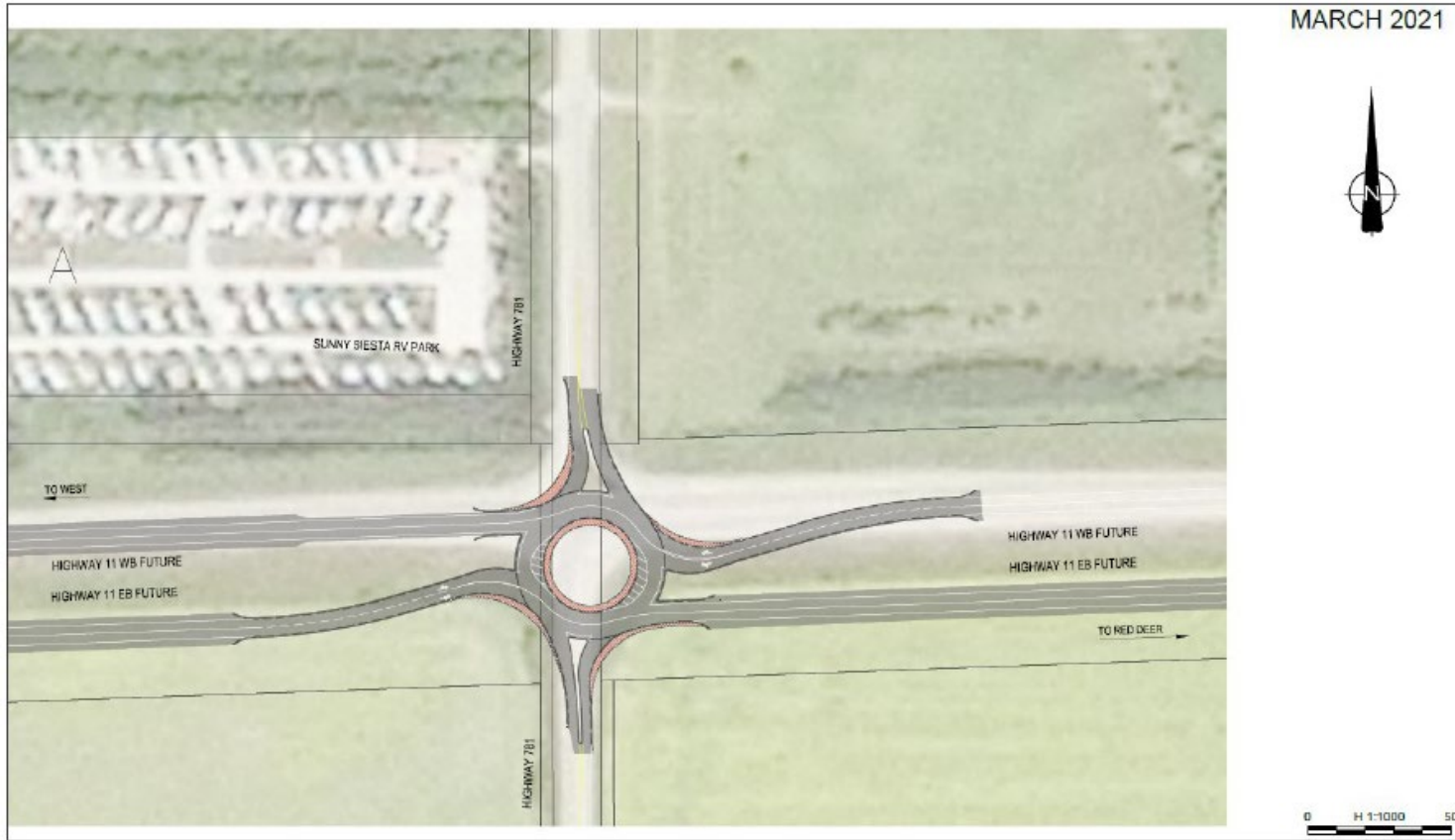
- Roundabouts today are designed to accommodate large vehicles by including:
 - Truck aprons and mountable curbs in the middle
 - Wider approach areas entering and exiting roundabouts
- As more roundabouts are constructed across Alberta, there are many examples of how roundabouts work for large vehicles
- Designs are always being improved, and truck movements through the roundabouts are part of the design process





RECOMMENDATION: HIGHWAY 11 / HIGHWAY 20

- 2 - Lane Roundabout with single EB Bypass and right-in/right-out Range Road 13 access (south leg).
- Roundabout has higher safety benefits for traffic and better for traffic processing (less delay).
- Public indicated desire to maintain RR 13 access.
- Not included in the Highway 11 twinning project, no timelines for construction at the present time.
- When traffic growth requires the need for an upgrade, the roundabout will be revisited with the Town of Sylvan lake and area residents.



RECOMMENDATION: HIGHWAY 11 / HIGHWAY 781

- Phased implementation of a 2-Lane Roundabout (full access) in conjunction with Highway 11 Twinning.
- Roundabout provides higher safety benefits and aligns with network needs.
- Westbound to northbound bypass lane could be constructed in future when conditions warrant further improvements.
- Construction recommended to proceed – currently pending funding and construction approvals.

RECOMMENDATION: HIGHWAY 11 / RANGE ROAD 15



- Construct 2-Lane Roundabout (full access) along with Highway 11 Twinning.
- Roundabouts provide higher safety benefits, maintains corridor consistency and additional capacity in the longer-term.
- Coordinated with Sylvan Lake development growth
- Construction recommended to proceed – currently pending funding and construction approvals.



RECOMMENDATION: HIGHWAY 11 / BURNT LAKE TRAIL

- Upgrade intersection to a 2-lane roundabout with right-turn bypass lane to support west-north and south-west movements when warranted.
- No plans for construction, Implement upgrades when intersection delays warrant improvements in the future.
- Ultimate plan of Highway 11 / Highway 2 interchange will result in the closure of this intersection.
- Public largely in favour of improvements, with roundabout receiving the most positive feedback.

RECOMMENDATION: HIGHWAY 11 / RANGE ROAD 25A - BENALTO



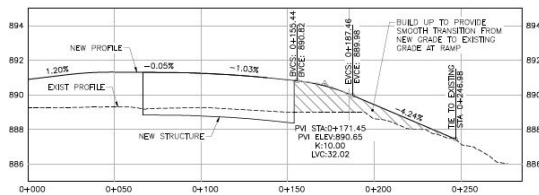
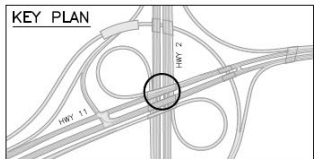
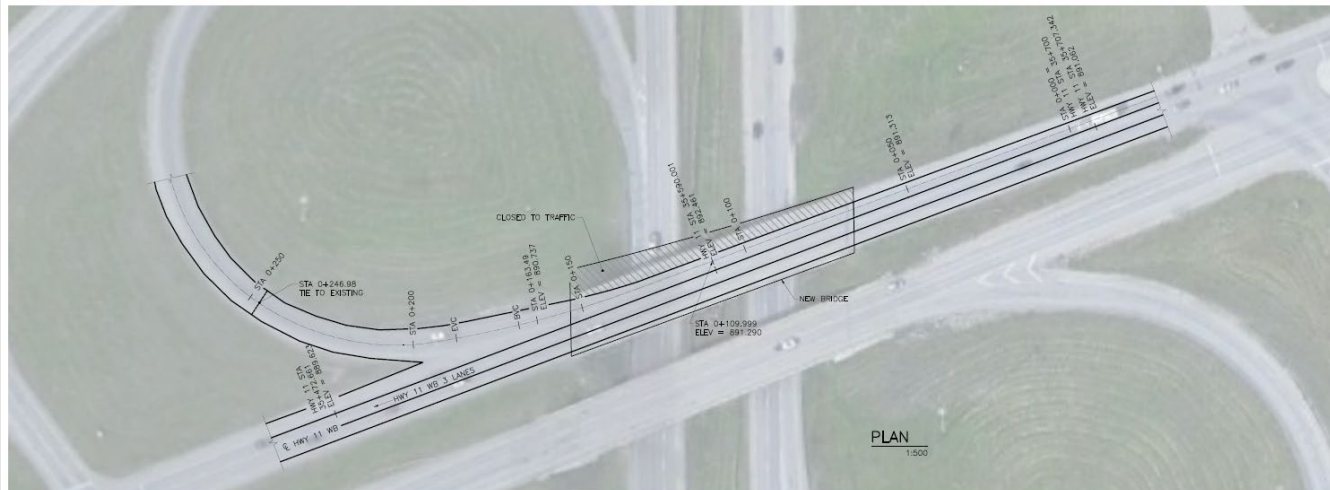
- Maintain existing stop controlled intersection with future highway twinning.
- Recommend 2-Lane Roundabout beyond the long-term (30+ years) when traffic growth warrant improvements.
- Construction beyond 25 years – not currently being considered
- Traffic Signal was evaluated, but when traffic warrants the upgrade, a roundabout will be more effective.



RECOMMENDATION: HIGHWAY 11 / HIGHWAY 766 - ECKVILLE

- Maintain existing stop controlled intersection with future highway twinning.
- Recommend 2-Lane Roundabout beyond the long-term (30+ years) when traffic growth warrant improvements.
- Construction beyond 25 years – not currently being considered.
- Traffic Signal was evaluated, but when traffic warrants the upgrade a roundabout will be more effective.

RECOMMENDATION: HIGHWAY 2 / HIGHWAY 11 INTERCHANGE



HWY 11 PROFILE AT Q RIGHT LANE
HORIZ 1:1000
VERT 1:100

- Bridge will require rehabilitation within 10 years that will extend life for approximately 20 years.
- Within 30 years full reconstruction will be required on westbound structure (with rehabilitation).
- Ultimate bridge may be constructed for future interchange when warranted.
- Upgrades to Highway 2 (6-lanes) will require this bridge to be replaced with ultimate bridge.

NEXT STEPS



Online Public Information Sharing (ongoing)



Presentation to Councils & Elected Officials



Move Forward with Design for Highway 781 and Range Road 15 Roundabouts and plan for construction



Finalize Functional Planning Report



Hwy 11 Twinning Study – Sylvan Lake to Rocky Mountain House Commencing in May 2021



Ongoing investment in planning and monitoring of the function and safety of intersections along Highway 11.

**Thank you for your
participation**