WELCOME

Anthony Henday Drive

Open House, April 28, 2009





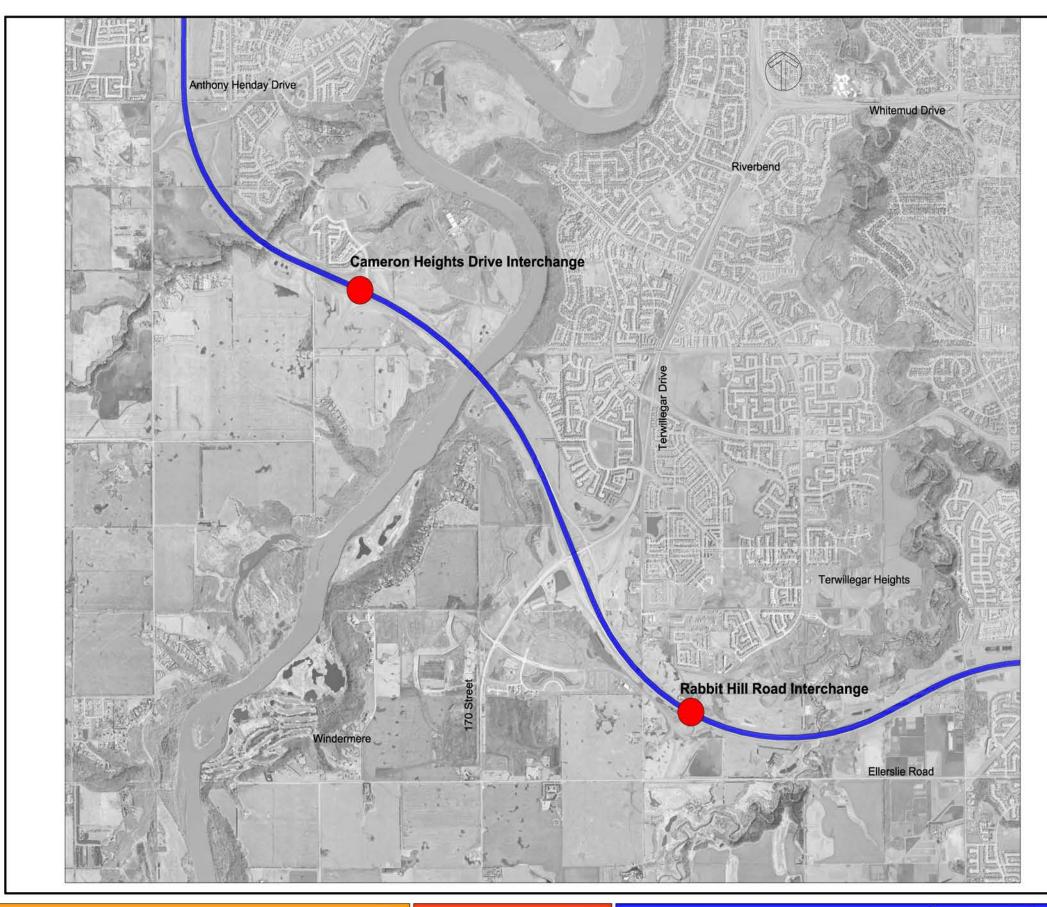
ANTHONY HENDAY DRIVE

Cameron Heights Drive and **Rabbit Hill Road**

Functional Planning and Design Studies



Location Plan



Anthony Henday Drive					
Cameron Heights Drive and Rabbit Hill Road Interchanges					
Functional Planning and Design Studies					
Location Plan					



Cameron Heights Drive

Problem / Needs

- Southwest Anthony Henday Drive opened in 2004.
- Access to Cameron Heights controlled by signalized intersection
- Anthony Henday Drive will be free flow (i.e. no at-grade intersections)
- Interchange required to accommodate access to both lacksquareCameron Heights and future development to southwest





Cameron Heights Location Plan



Government of Alberta

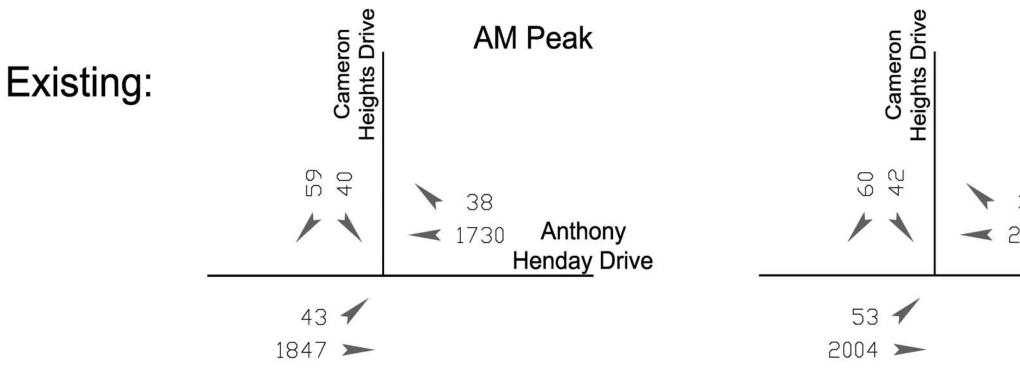
Anthony Henday Drive and **Cameron Heights Drive** Interchange

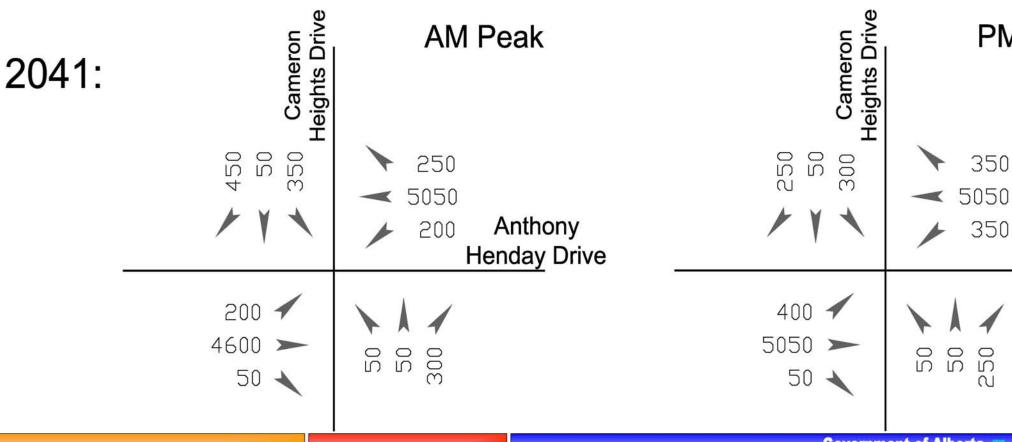
Functional Planning Study

Cameron Heights Location Plan



Existing and Future Traffic Volumes





Government of Alberta Transportation

PM Peak

31 Anthony 2163 Henday Drive

PM Peak

350 350 Anthony Henday Drive



Noise Study

- Noise study undertaken in 2007
- 20 year projection based on 80,000 veh/day, resulting in a noise level of 61.2 dBA with existing noise wall
- Threshold noise level for attenuation is 65 dBA
- Current traffic volumes approximately 40,000 veh/day
- Noise to be re-evaluated in conjunction with future widening of Anthony Henday Drive

, resulting se wall 3A) veh/day future





Noise Modeling Results - Current Conditions



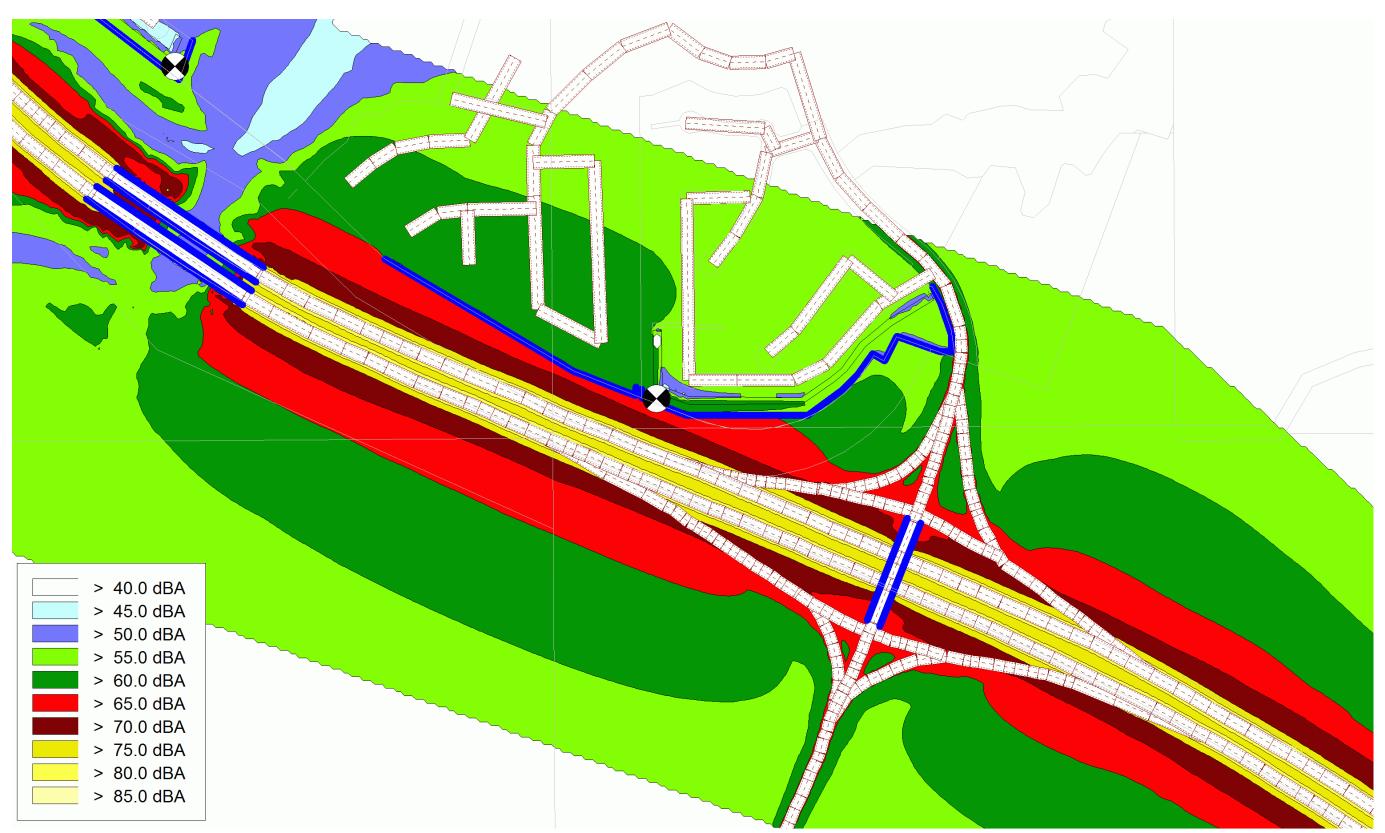
Government of Alberta Transportation

ACI Acoustical Consultants Inc.





Noise Modeling Results - Future Conditions



ACI Acoustical Consultants Inc.





Interchange Evaluation Criteria

- Driver Safety
- Traffic Accommodation
- Community Impact
- Bridge Requirements
- Impact on Anthony Henday Drive
- Economics (Construction Costs)
- Impact on E.L. Smith Access
- Connectivity to 23 Avenue





Evaluation of Alternatives

- 7 interchange alternatives were developed
- 4 were eliminated through an initial screening analysis due to:
 - Designs that were unsafe for drivers
 - Inability to accommodate future traffic volumes ____
 - Unacceptable impact on Anthony Henday Drive ____
 - Unacceptable impact on E.L. Smith access road
- 3 remaining alternatives were reviewed and a recommended alternative has been identified





Simple Diamond

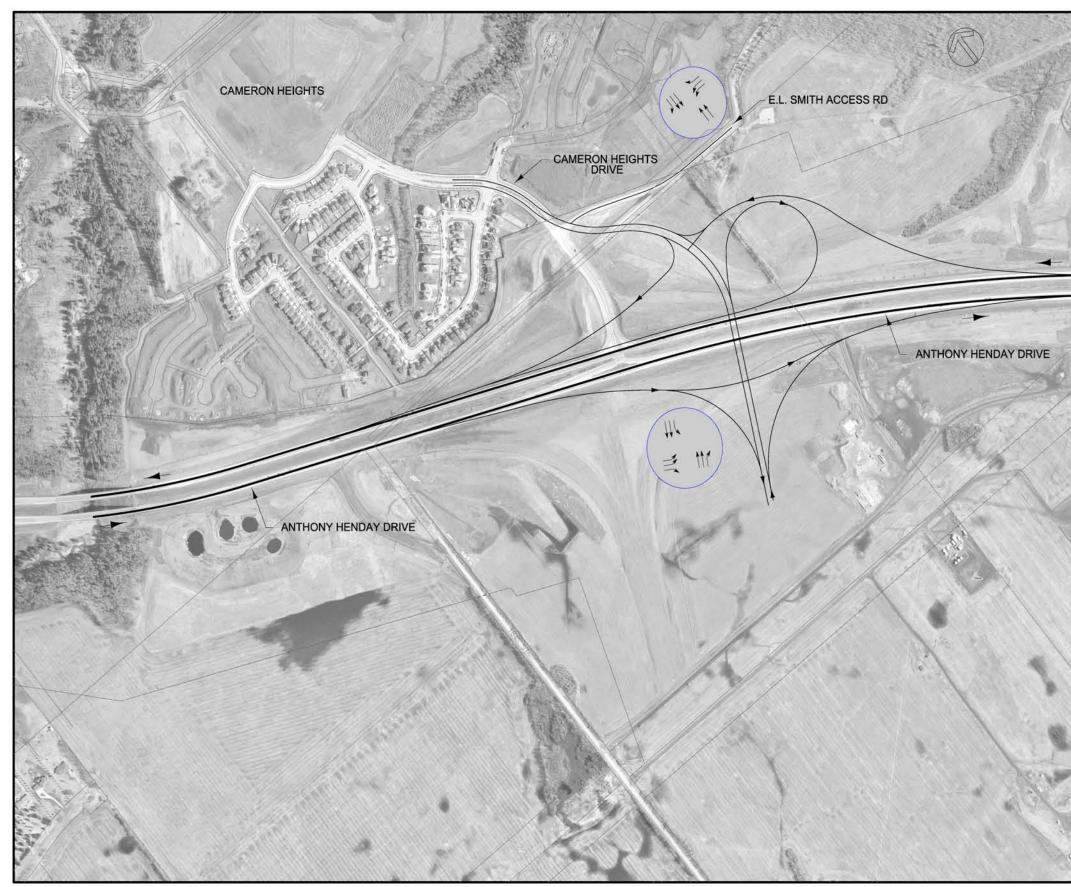


Anthony Henday Drive and Cameron Heights Drive Interchange					
	Functional Planning Study				
>	Cameron Heights Drive to pass over Anthony Henday Drive				
A	Cameron Heights Drive to ultimately connect to 23 Avenue / SR627 (initially connecting to 184 Street).				
A	7 lane structure required to accommodate future traffic.				
۶	Sidewalk to be included on the bridge				
*	Intersections on Cameron Heights Drive north of Anthony Henday Drive approximately 150m apart.				
Simple Diamond Interchange west of existing intersection					





Loop Ramp in Northeast Quadrant



Anthony Henday Drive and **Cameron Heights Drive** Interchange Functional Planning Study Cameron Heights Drive to pass over Anthony Henday Drive Cameron Heights Drive to ultimately connect to 23 Avenue / SR627 (initially connecting to 184 Street). Loop ramp in northeast quadrant accommodates northbound to westbound movement 4 lane structure required Sidewalk to be included on the bridge Increased separation between intersections on Cameron Heights Drive north of Anthony Henday Drive. Curvilinear alignment for Cameron Heights Drive north of Anthony Henday Drive.

East ramp terminals encroach onto the North Saskatchewan River Bridge

Loop Ramp in Northeast Quadrant

Interchange 300m east of existing intersection





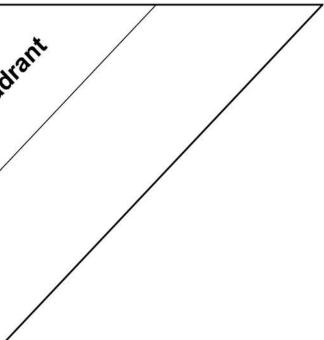
Trumpet



Anthony Henday Drive and **Cameron Heights Drive** Interchange Functional Planning Study Cameron Heights Drive to pass over Anthony × Henday Drive Cameron Heights Drive to ultimately connect to 23 Avenue / SR627 (initially connecting to 184 Street). Loop ramp in northeast quadrant accommodates northbound to westbound and southbound to westbound movements 4 lane structure required 2 Sidewalk to be included on the bridge > Trumpet Interchange east of existing intersection



Evaluation Matrix		Jiamond Loop R	amp in Northeast Quadr
Ranking Criteria	Simple	Looph	an. Trumpet
Driver Safety	2	4	4
Traffic Accommodation	2	4	3
Community Impact (Visual and Noise)	3	4	4
Bridge Requirements	2	4	3
Impact on Anthony Henday Drive	5	2	5
Construction Costs	3	2	4
Impact on E.L. Smith Access	4	4	3
Connectivity to 23 Avenue	4	3	4
Ranking Total	25	27	30



Ranking Legend 5 – Best Case 1 – Worst Case





Recommended Alternative



Anthony Henday Drive and Cameron Heights Drive Interchange

- Cameron Heights Drive to pass over Anthony Henday Drive
- Cameron Heights Drive to ultimately connect to 23 Avenue / SR627 (initially connecting to 184 Street).
- Loop ramp in northeast quadrant accommodates northbound to westbound and southbound to westbound movements
- 4 lane structure required
- Sidewalk to be included on the bridge

Trumpet Interchange east of existing intersection



What Happens Next

- Review / incorporate comments from open house
- Finalize functional plan
- Post on Government of Alberta Transportation website
- Initiate preliminary design of interchange
- Conduct open house (early fall, 2009)
- Complete design of interchange
- Implementation not in current 3 year construction program



Rabbit Hill Road

Problem/Needs

- Southwest Anthony Henday Drive opened in 2004
- South ramps (connecting to Windermere Boulevard) open to traffic April 2009
- North ramps (connecting to Rabbit Hill Road) will be open to traffic fall 2009
- 2 lane extension from Windermere Boulevard to Ellerslie Road to be constructed in 2009
- Bridge required to complete interchange





Rabbit Hill Road Location Plan



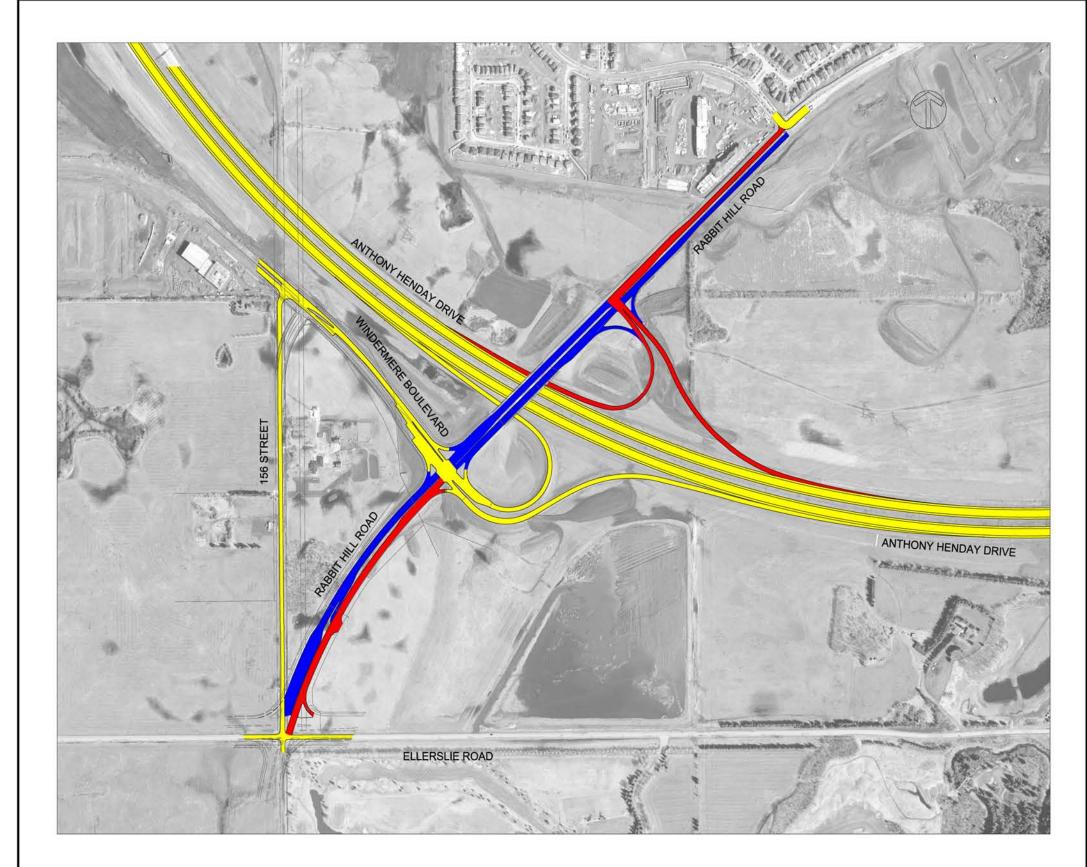
Anthony Henday Drive and **Rabbit Hill Road** Interchange

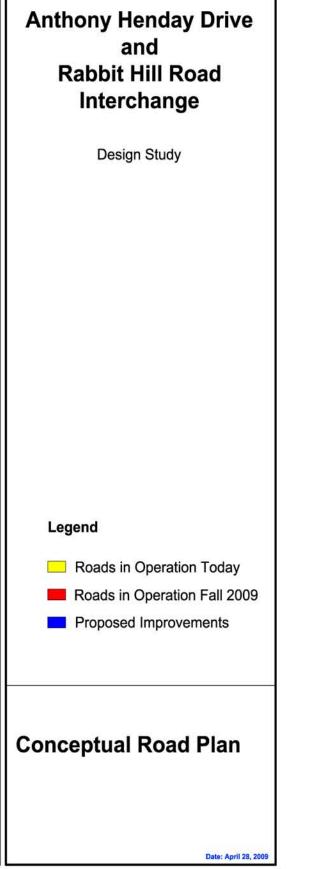
Design Study

Rabbit Hill Road Location Plan



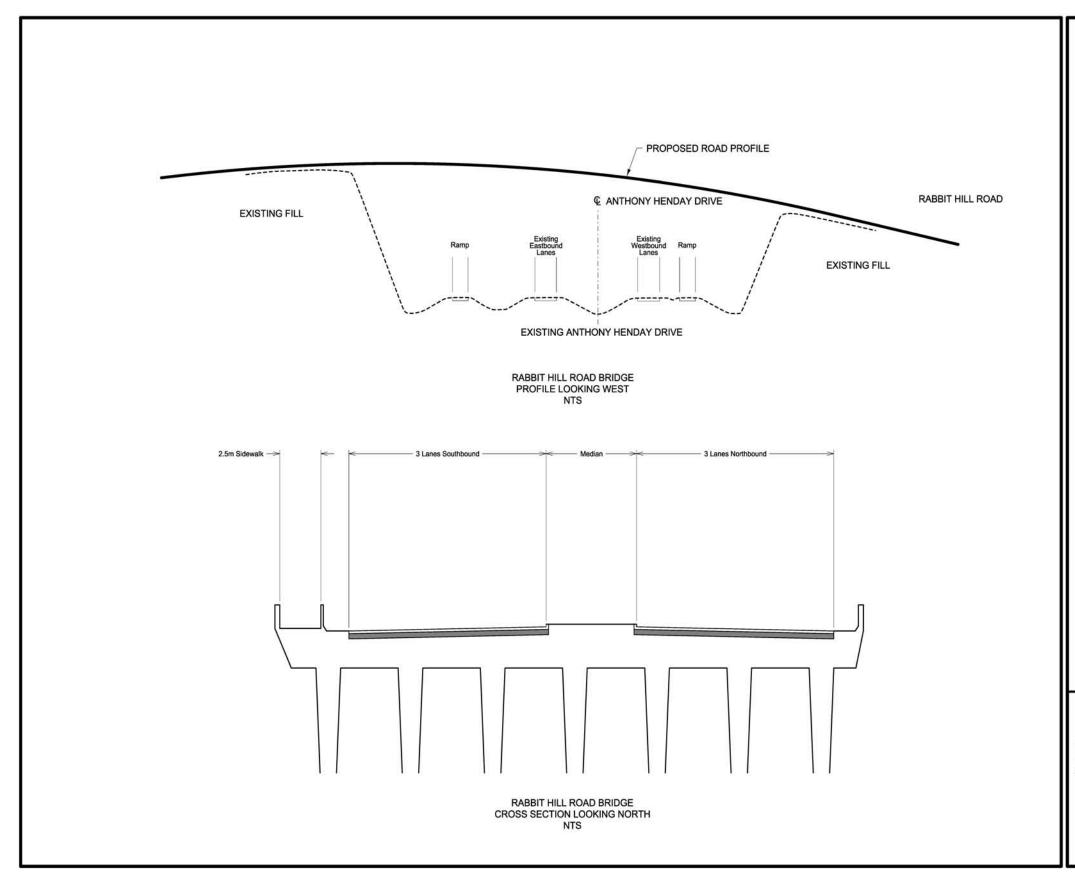
Proposed Improvements







Bridge Profile and Cross Section





What Happens Next

- Review / incorporate comments from open house
- Finalize design of bridge and roads
- Post design on Government of Alberta Transportation website
- Implementation not in current 3 year construction program





THANK YOU

for attending tonight's open house

Please fill out a questionnaire



