

# TECHNICAL MEMORANDUM

Intersection	Change in Traffic	Potential Improvements
Highway 2 and Township Road 544	<5% increase in traffic volumes	In consultation with Sturgeon County, consider: <ul style="list-style-type: none"> <li>- revisiting illumination warrant with collision history</li> <li>- replacing turndown end on barrier in southeast corner of intersection</li> </ul>
Range Road 253 and Township Road 544	<5% increase in traffic volumes	In consultation with Sturgeon County, consider: <ul style="list-style-type: none"> <li>- reviewing collision history and the feasibility of flattening out the vertical curve on the east leg of Township Road 544</li> <li>- flattening steep sideslopes</li> <li>- reviewing NB yield sign offset from roadway for conformity with County standards</li> </ul>
Range Road 253 and Old Coal Mine Road	Approximately a 60% reduction of the to/from traffic movements from Range Road 253 onto Old Coal Mine Road	In consultation with Sturgeon County, consider: <ul style="list-style-type: none"> <li>- reviewing the collision history and whether further traffic control is required (i.e. 3-way stop)</li> <li>- readjusting the signposts to be straight</li> <li>- relocating the field access from the southeast corner of the intersection to the northeast corner of the parcel (further along Old Coal Mine Road)</li> </ul>
Everitt Drive North and Eastview Street North	Decrease of traffic turning to/from Eastview Street North to Everitt Drive by approximately 70%	- Monitor / evaluate the installed traffic calming measures for speed / collision occurrences
Coal Mine Road, Range Road 253, and Eastgate Way	Movements on Coal Mine Road between Range Road 253 and Eastgate Way would cease. Volumes of SB to EB and WB to NB movements between Range Road 253 and Coal Mine Road east would slightly increase by approximately 10%.	- The proposed closure will resolve many of the safety deficiencies associated with the west leg of Coal Mine Road between Range Road 253 and Eastgate Way.

Intersection	Change in Traffic	Potential Improvements
Bellerose Drive and Coal Mine Road	Traffic volumes would increase by approximately 30%	<ul style="list-style-type: none"> <li>- Realign Old Bellerose Drive to the west to match Coal Mine Road as the south leg of the intersection and reduce or eliminate the skew angle of Oakridge Drive</li> <li>- Review collision history to determine whether speed and/or lack of illumination may have influenced collisions</li> <li>- Consider conducting a speed study depending on collision history analysis</li> <li>- Install a "Stop Ahead" sign on the north leg of Coal Mine Road prior to the intersection to provide more warning for drivers.</li> <li>- Add pedestrian crossing to the west side of the intersection</li> </ul>
Bellerose Drive and Erin Ridge Drive / Oak Vista Drive	Traffic volumes would increase by approximately 20-25%	<ul style="list-style-type: none"> <li>- Remove trees from the northeast corner and/or replace them with shorter landscaping that doesn't block sightlines</li> <li>- Adjust the pararamps to face both north/east and south/east</li> <li>- Remove and replace street signs on southwest corner to the pedestrian crossing pole</li> <li>- Re-evaluate placement of bus stop in northwest corner to confirm whether there may be a better location for it depending on its route</li> </ul>
Erin Ridge Drive and Eastgate Way	Traffic volumes would decrease for vehicles entering or leaving Eastgate Way. The increase in throughput traffic would be approximately 5 to 10%.	<ul style="list-style-type: none"> <li>- If speed is a concern, traffic calming measures similar to those newly installed at other locations could be considered</li> <li>- Consider narrowing intersection by creating a fake curb and restrict parking within intersection limits</li> <li>- Re-evaluate bus stop placement as it is very short</li> <li>- Review drainage at intersection</li> </ul>
Erin Ridge Drive and Everitt Drive	There would be a <5% decrease in vehicles entering or leaving Everitt Drive. The decrease in through traffic would be approximately 5 to 10%.	<ul style="list-style-type: none"> <li>- Since vehicles don't appear to be slowing down with the recently installed traffic calming measure, narrow it further to encourage more speed reduction</li> <li>- Confirm appropriate pedestrian signage is in place as per the City's standards</li> </ul>

**Technical Memorandum  
Evaluation of Proposed Closure of  
Coal Mine Road at Eastgate Way**

Intersection	Change in Traffic	Potential Improvements
Everitt Drive North and Ebony Way	Traffic volumes would decrease by approximately 15%	<ul style="list-style-type: none"> <li>- With opening of the Ebony Way roadway, continue to monitor and perform traffic control evaluations; inclusive of network screening for collision occurrences</li> <li>- Re-evaluate the type of planting in median and replace it with shorter plants to improve sightlines</li> </ul>
Erin Ridge Drive and Ebony Way	Traffic volumes would increase by approximately 5-10%	<ul style="list-style-type: none"> <li>- Replace yield sign with stop sign</li> <li>- Continue to monitor operations and traffic patterns at this intersection due to the recent opening of Ebony Way through to Everitt Drive North</li> <li>- Consider completing a speed study to evaluate whether it would be desirable to lower the speed limit through this area</li> <li>- Paint crosswalk lines as per the City's standards</li> <li>- Confirm whether appropriate signage is in place as per the City's standards</li> </ul>

If the closure of Coal Mine Road occurs, the City of St. Albert should notify Sturgeon County and Alberta Transportation of the closure. The notification should state that upgrades to certain intersections in their jurisdiction may be warranted under existing conditions and should be further evaluated with the increase in traffic that is expected. From AE's observation, this could include upgrades to barriers, illumination installation, and signage.