

Calgary



162 Avenue / Bridlecrest Boulevard Safety and Access Closure Pilot Open House Actions so far and potential next steps

Tony Churchill, Senior Leader Mobility Safety

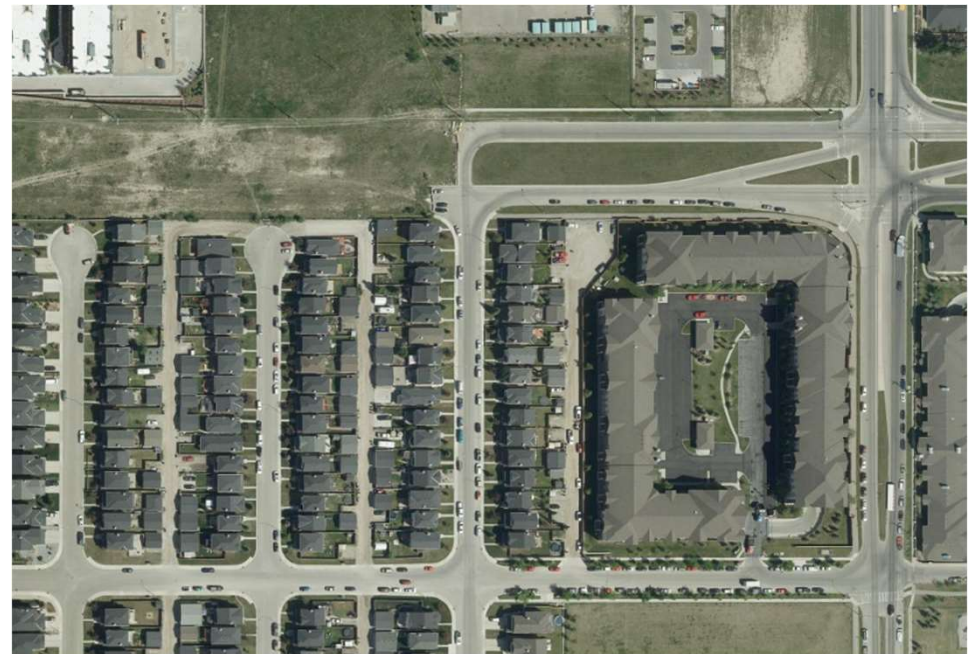
162 Ave / Bridlecrest Bv Safety and Access Closure Pilot – September 18, 2024



Background

- Intersection developed over time, prior to Stoney Trail connection this was the west end of 162 Avenue and a local road connection.
- Even though there wasn't a connection to Stoney Trail the traffic volumes and speeds were higher than observed in 2024

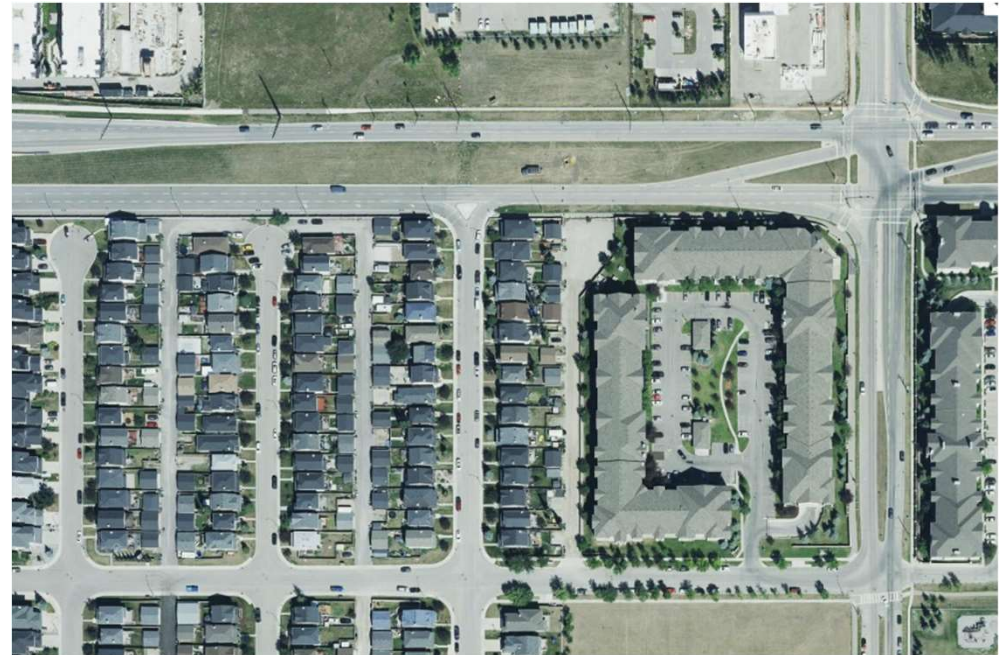
2017



Background

- Ring road connection required maintenance of access to service houses on Bridlecrest Boulevard but changed access to right-in right-out access.
- Right turn from 162 Avenue to Bridlecrest Boulevard is at the end of the merge lane from Stoney trail and a transition from a higher speed environment at the interchange to a lower speed on 162 Avenue (60 km/h) and then low speed residential (40 km/h) on Bridlecrest (since May 2021).

2023



Safety concerns and collisions



- Became aware of trend in loss of control collisions on the right turn from 162 Avenue to Bridlecrest Boulevard in April 2024.
- Collisions mostly related to overdriving winter conditions but also during dry pavement conditions. One collision resulted in injury.



Actions to Mitigate collision issues

- Reviewed data and installed barriers on road right-of-way where possible without restricting parking and enhanced signage, pavement markings including crosswalks and added delineators.
- No collisions have been noted since changes were made.
- Speed behaviour at the turn appears to be much improved but will monitor through the winter.





Traffic data

- Updated traffic counts and speeds June 10, 2024 (trafficcounts.calgary.ca)
- Speed compliance is good relative to most 40 km/h roadways (lower than 2013 speeds).
- Southbound traffic is approximately double northbound volume, still within expected for local.

Traffic Count Reports



Location: N of the Intersection BRIDLECREST DR SW & BRIDLECREST BV SW
 Direction: SOUTHBOUND
 Posted Speed: 40km/h
 Study Date: Monday, 10 June 2024 - Tuesday, 11 June 2024
 Zone Hours: Weather:

Speed Classifications													TOTAL VEHICLES	
Start Time	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	100-110	110-120		≥120
00:00	0	0	0	14	2	1	0	0	0	0	0	0	0	7
01:00	0	0	0	4	6	0	0	0	0	0	0	0	0	10
02:00	0	1	0	0	1	0	0	0	0	0	0	0	0	2
03:00	0	0	0	3	1	0	0	0	0	0	0	0	0	4
04:00	0	0	2	0	1	0	0	0	0	0	0	0	0	3
05:00	0	0	1	1	1	0	0	0	0	0	0	0	0	3
06:00	0	0	1	4	3	0	0	0	0	0	0	0	0	8
07:00	0	0	2	16	5	0	0	0	0	0	0	0	0	23
08:00	0	0	12	32	13	0	0	0	0	0	0	0	0	57
09:00	0	0	2	29	13	0	0	0	0	0	0	0	0	42
10:00	0	0	1	24	11	1	0	0	0	0	0	0	0	37
11:00	0	0	4	18	16	1	0	0	0	0	0	0	0	39
12:00	0	0	15	29	12	0	0	0	0	0	0	0	0	56
13:00	0	1	13	29	8	4	0	0	0	0	0	0	0	55
14:00	0	2	13	28	14	0	0	0	0	0	0	0	0	57
15:00	0	0	27	57	16	1	0	0	0	0	0	0	0	101
16:00	0	1	26	74	20	1	0	0	0	0	0	0	0	122
17:00	0	1	26	76	32	3	0	0	0	0	0	0	0	137
18:00	0	1	16	36	13	0	0	0	0	0	0	0	0	69
19:00	0	0	16	43	12	1	0	0	0	0	0	0	0	72
20:00	0	1	14	29	8	0	0	0	0	0	0	0	0	52
21:00	0	1	11	35	8	0	0	0	0	0	0	0	0	55
22:00	0	0	4	20	3	0	0	0	0	0	0	0	0	27
23:00	0	0	2	8	6	0	0	0	0	0	0	0	0	16
Total:	0	9	207	590	225	15	0	0	0	0	0	0	0	1054
Cumulative Total:	0	9	216	814	1039	1054	1054	1054	1054	1054	1054	1054	1054	1054
Cumulative %:	0%	0.9%	20.5%	77.2%	96.6%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Total Hours														
Average Speed: 35 km/h														
85th Percentile: 43 km/h														
Total Vehicles: 1054														

Traffic Count Reports

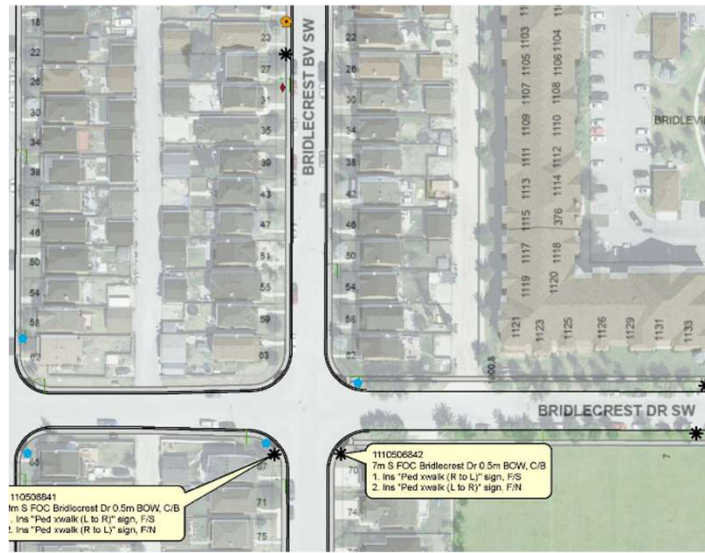
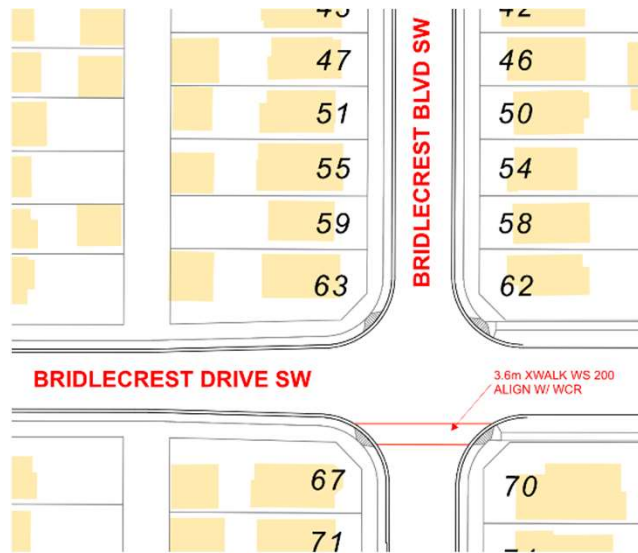


Location: N of the Intersection BRIDLECREST DR SW & BRIDLECREST BV SW
 Direction: NORTHBOUND
 Posted Speed: 40km/h
 Study Date: Monday, 10 June 2024 - Tuesday, 11 June 2024
 Zone Hours: Weather:

Speed Classifications													TOTAL VEHICLES	
Start Time	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	100-110	110-120		≥120
00:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00	0	0	1	1	0	0	0	0	0	0	0	0	0	2
02:00	0	0	1	0	0	0	0	0	0	0	0	0	0	1
03:00	0	0	0	0	1	0	0	0	0	0	0	0	0	1
04:00	0	0	1	2	1	0	0	0	0	0	0	0	0	4
05:00	0	1	1	8	1	1	0	0	0	0	0	0	0	12
06:00	0	1	2	18	10	2	0	0	0	0	0	0	0	31
07:00	0	0	9	17	10	1	0	0	0	0	0	0	0	37
08:00	0	1	13	39	21	1	0	0	0	0	0	0	0	75
09:00	0	0	3	9	3	4	1	0	0	0	0	0	0	20
10:00	0	0	2	15	13	0	1	0	0	0	0	0	0	31
11:00	0	0	5	11	9	2	0	0	0	0	0	0	0	27
12:00	0	1	8	10	11	1	0	0	0	0	0	0	0	34
13:00	0	0	4	12	5	0	0	0	0	0	0	0	0	21
14:00	0	0	4	15	8	2	0	0	0	0	0	0	0	27
15:00	0	0	10	26	11	0	0	0	0	0	0	0	0	47
16:00	0	0	5	18	10	3	0	0	0	0	0	0	0	34
17:00	0	1	10	19	8	6	0	0	0	0	0	0	0	38
18:00	0	1	8	14	7	0	0	0	0	0	0	0	0	30
19:00	0	0	8	11	2	2	0	0	0	0	0	0	0	21
20:00	0	1	7	5	3	0	0	0	0	0	0	0	0	16
21:00	0	1	4	11	1	1	0	0	0	0	0	0	0	18
22:00	0	0	3	2	2	0	0	0	0	0	0	0	0	7
23:00	0	0	1	2	0	0	0	0	0	0	0	0	0	3
Total:	0	8	106	266	135	20	2	0	0	0	0	0	0	537
Cumulative Total:	0	8	114	380	515	535	537	537	537	537	537	537	537	537
Cumulative %:	0%	1.5%	21.2%	70.8%	95.9%	96.6%	100%	100%	100%	100%	100%	100%	100%	100%
Total Hours														
Average Speed: 38 km/h														
85th Percentile: 45 km/h														
Total Vehicles: 537														

Actions to Mitigate other safety concerns

- All-Way stop review at Bridlecrest Boulevard and Bridlecrest Drive updated with latest traffic counts does not meet criteria. Crosswalk on south side of intersection (east-west crossing) approved for install this fall.





Potential Access Closure Pilot

- Change access so only northbound right turn possible at 162
- Bridlecrest Boulevard north of Bridlecrest Drive becomes one way northbound
- Parking maintained on both sides facing northbound
- Impacts residents on this block but also access for all others in area that now need to go to 24 st





Potential Access closure pilot

- If residents on the directly affected block support a pilot, then plans can be made to initiate the pilot this fall including arranging to monitor traffic volumes. Feedback will be welcomed by Ward 13 Office regarding broader impacts.
 - Potential outcomes of the pilot:
 - Maintain as is – no cost
 - Close to match pilot configuration – probable cost ~ \$500K
 - Explore full closure of Bridlecrest Boulevard at 162 Avenue (requires re-alignment of a portion of 162 Avenue) – probable cost > \$1.5M

- Next Steps
- Decision from community and Ward 13 Office about proceeding with a pilot
 - If approved, Mobility will determine timeline for pilot and initiate
 - Pilot results will inform future direction



Thanks!!

Feedback and thoughts welcome:

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