

STANLEY PARK TEMPORARY BIKE LANE OPTIONS Report Back

Regular Board Meeting Monday, February 13, 2023



Purpose of Presentation



- To update the Board on considerations for different options to removing and/or changing the existing temporary bike lane on Park Drive in Stanley Park
- To seek board direction for an option for returning pre-COVID 19 Pandemic traffic flows in Stanley Park with changes to the existing temporary bike lane which are:
 - OPTION A Return the Pre-COVID-19 Traffic Flow on the East Side of the Park
 & Construct an Interim Bike Lane on the West Side of the Park
 - OPTION B Return the Pre-COVID Traffic Flow & Construct an Interim Bike Lane Around the Entire Park
 - OPTION C Return the Pre-COVID-19 Traffic Flow & Conditions on Park Drive with Added Safety Measures

Presentation Outline

















Introduction & Board Direction

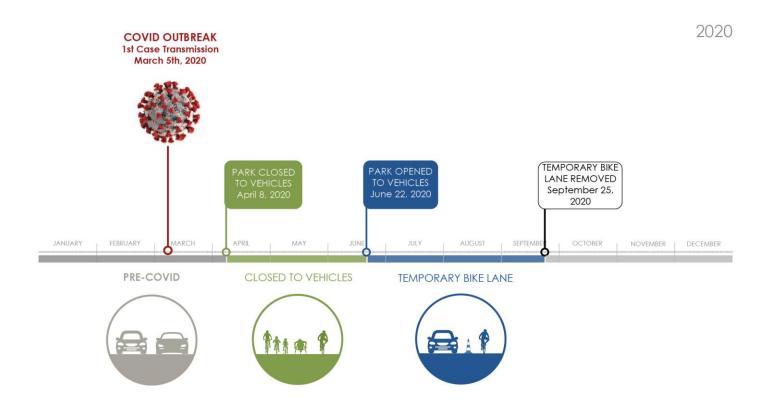






Background

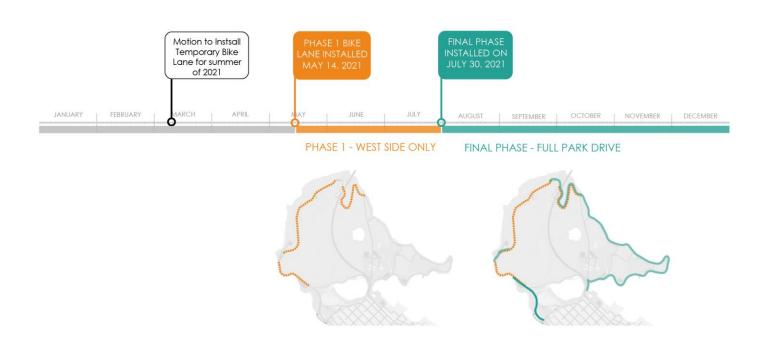




Background

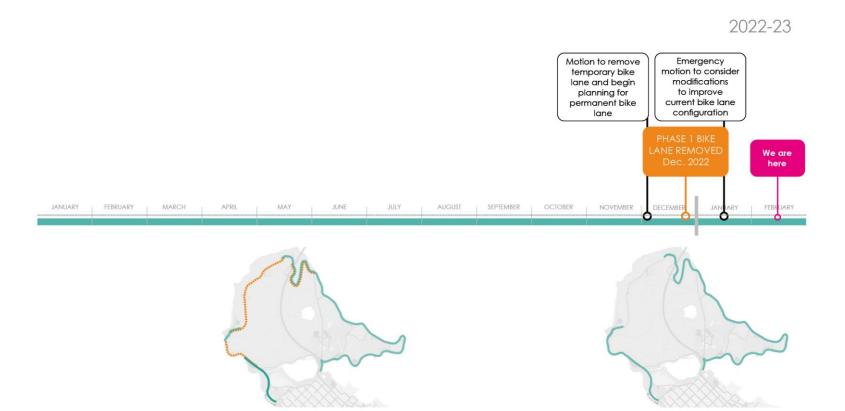


2021



Background

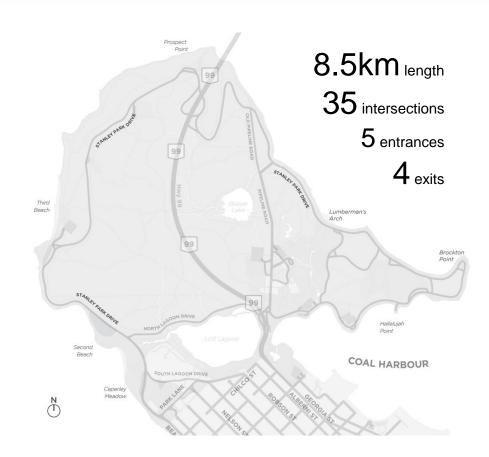




Board Direction

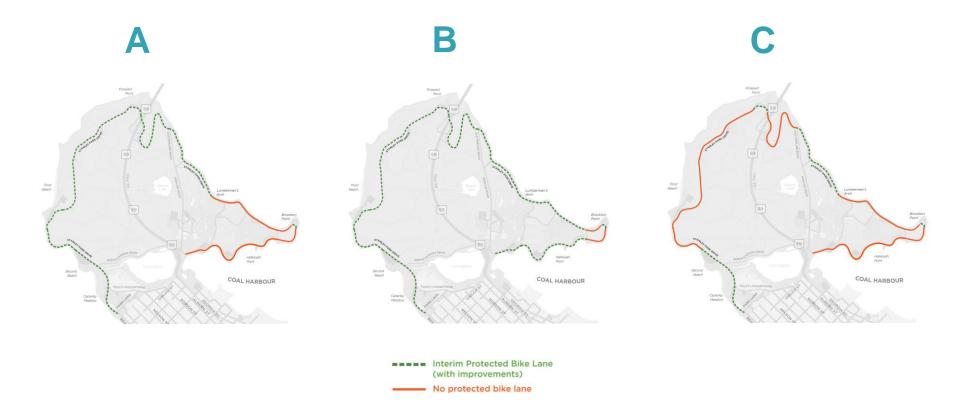


- 1. Remove "temporary" nature of the bike lane
- Maintain some sections of bike lane for safety & accessibility
- 3. Confirmed feedback on key issues & challenges
- 4. Plan for more permanent bike lane in the near future



Options for Bike Lane Removal and/or Changes





Public & Stakeholder Engagement



Board Motions & Feedback

Engagement

Over 15,000 responses over three public surveys

Over 50 stakeholders engaged in over 85 meetings

At least 150 individual speakers at Board Meetings

Thousands of web visits

Hundreds of emails



Key Issues & Considerations

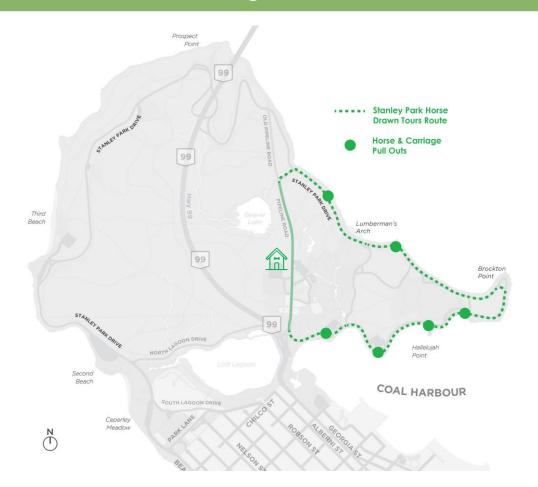






Vehicle Traffic Congestion – Horse & Carriage







Tuesday, June 30th, 2020 4:44pm

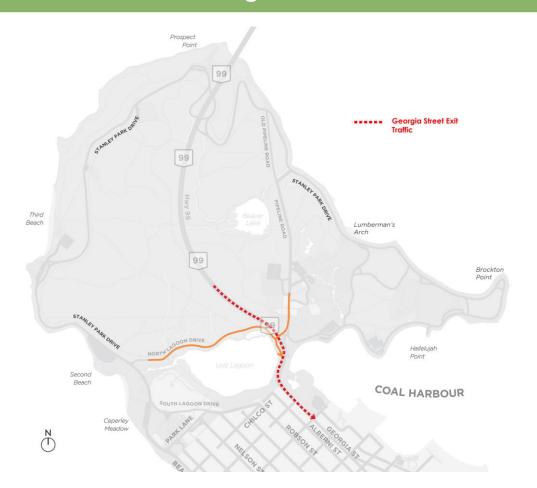
Vehicle Traffic Congestion – Aquarium Traffic





Vehicle Traffic Congestion – Exit to Georgia Street



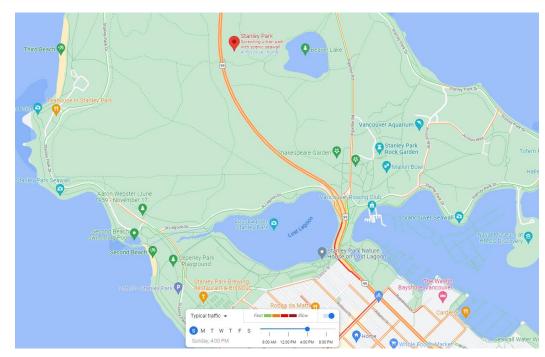


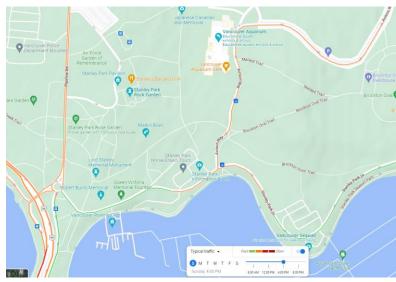


May Long Weekend Sunday, May 21, 2022 4:45pm

Vehicle Traffic Congestion







Aside from these exceptions, overall vehicle traffic flowed generally well throughout the Park

Temporary Look

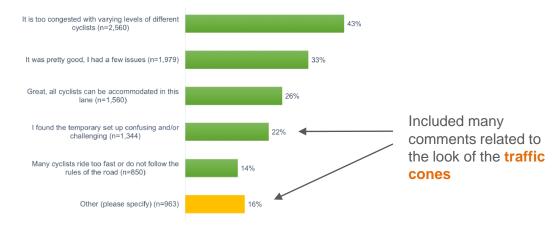








2020 Public Survey: Thoughts about cycling lane (6006 cyclist responses)



2021 Public Survey: Experience using the bike lane (735 cyclist responses)

When asked about what aspects of their experience were

worse

top choice at 41% (299 responses)
"the bike lane on Park Drive was too
congested with cyclists of varying
abilities in one lane"

When asked about what aspects of

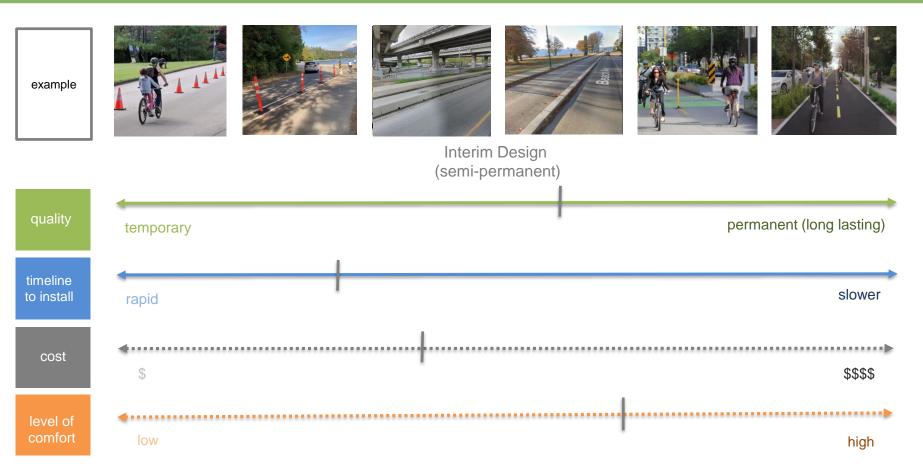
better

top choice at 55% (404 responses) "I felt safer with the concrete barriers in place".

their experience were

Interim Bike Lane





Interim Bike Lane Considerations







Examples of extruded concrete curbs



Top left: Extruded 6" curb (under 1'

wide), Beaty Street (2016)

Above: Extruded 6" curb (over 1' wide),

Beach Avenue (2020)

Left: Cast-In-Place Concrete 3" curb (over 1' wide), 10th Ave Bike Lane

(2019)

Interim Bike Lane Considerations









Top left: New York City, NY

Above: Robson Street, Vancouver, B.C.

Left: Toronto, ON

Options Overview & Details







Changes That Apply to All Options



All three options involve:



Removal or replacement of traffic cones & delineators



And replacing them with a concrete mountable curb



Including all "breaks" in barrier for emergency & operational access



Changes That Apply to All Options



All three options involve:

2

Open exit to west end





Changes That Apply to All Options



All three options involve:



Improvements to Coach
Bus Parking and/or
Maneuvering



Including up to three coach bus parking stalls at Prospect Point



Sections Maintained in All Options



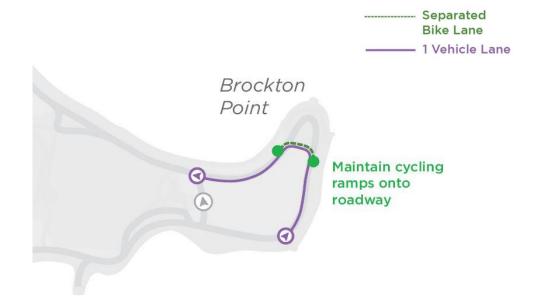
All three options maintain these three components (including the changes reflected on previous slide (i.e. cone removal/replacement):



Brockton Point

By-Pass





Sections Maintained in All Options

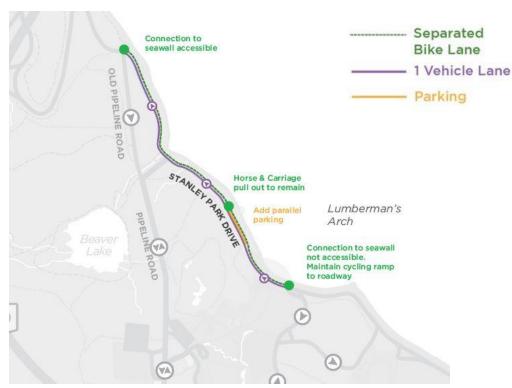


All three options maintain these three components (including the changes reflected on previous slide (i.e. cone removal/replacement):



Lumberman's Arch By-Pass





Sections Maintained in All Options



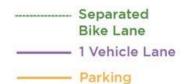
All three options maintain these three components (including the changes reflected on previous slide (i.e. cone removal/replacement):



Second Beach Angled Parking Separation





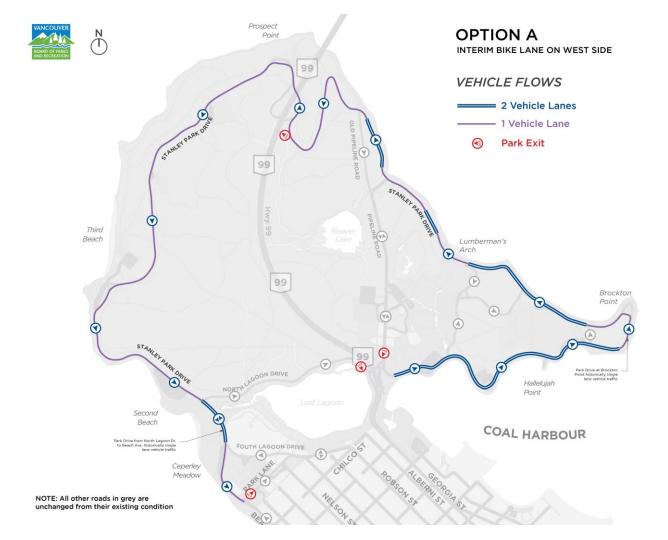




OPTION A

Return to Pre-COVID Traffic Flow
& Construct Interim Bike Lane on West Side of Park





OPTION A

Return the Pre-COVID-19 Traffic Flow on the East Side of the Park & Construct an Interim Bike Lane on the West Side of the Park

OPTION A - SUMMARY OF WORK	lin. m.	Each	cost	:	tot	al cost
Concrete Barriers to be Removed & Relocated		393	\$	145.00	\$	56,985.00
CL painting to be removed & reinstated	2,325		\$	12.00	\$	27,900.00
Cones to be removed	3218.8				\$	10,000.00
Signage to be removed	lump sum				\$	30,000.00
Special Line Painting to be removed	127		\$	321.00	\$	40,767.00
New Concrete barriers for west side		598		\$250.00	\$	149,550.00
Repainting of traffic lines					\$	30,000.00
Project Management, Traffic control, traffic management					\$	55,000.00
Removal of curb and gutters, drainage pipes, asphalt ramps and asphalt path					\$	50,000.00
Contingency (10%)					\$	45,020.20
Engineering Design Fees					\$	50,000.00
TOTAL COST					\$	545,222.20

NOTE: The above costs are preliminary estimates to give a sense of the scope of work and costs. Final cost estimate will to be confirmed through official procurement process for construction, pending Board decision.

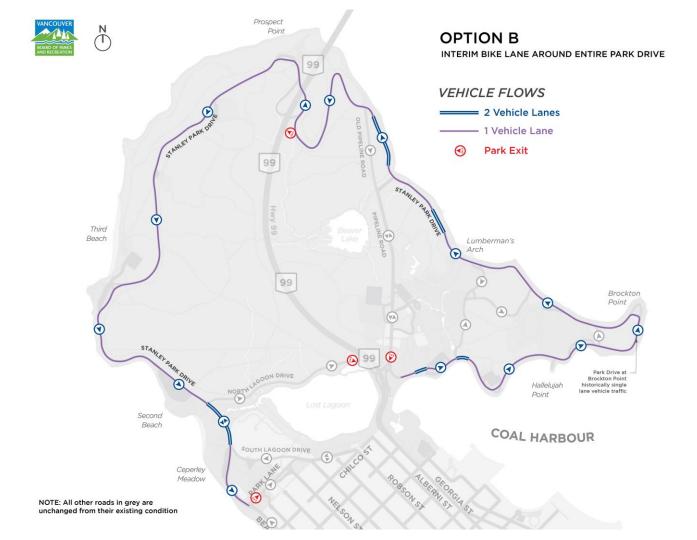


OPTION B

Return to Pre-COVID Traffic Flow & Construct Interim Bike Lane Around the Entire Park







OPTION B

Return the Pre-COVID Traffic Flow & Construct an Interim Bike Lane Around the Entire Park

OPTION B - SUMMARY OF WORK	lin. m. cost		total cost		
Concrete Barriers to be Removed	0	\$ 145.00	\$	-	
CL painting to be removed & reinstated	0	\$ 12.00	\$	-	
Cones to be removed	3218.8		\$	10,000.00	
Signage to be removed	lump sum		\$	-	
Special Line Painting to be removed	0	\$ 321.00	\$	-	
Install mountable curb	3816	\$ 100.00	\$	381,600.00	
Repainting of traffic lines			\$	-	
Project Management, Traffic control, traffic management			\$	65,000.00	
Removal of curb and gutters, drainage pipes, asphalt ramps ar	\$	-			
Contingency (10%)			\$	45,660.00	
Engineering Design Fees			\$	50,000.00	
TOTAL COST			\$	552,260.00	

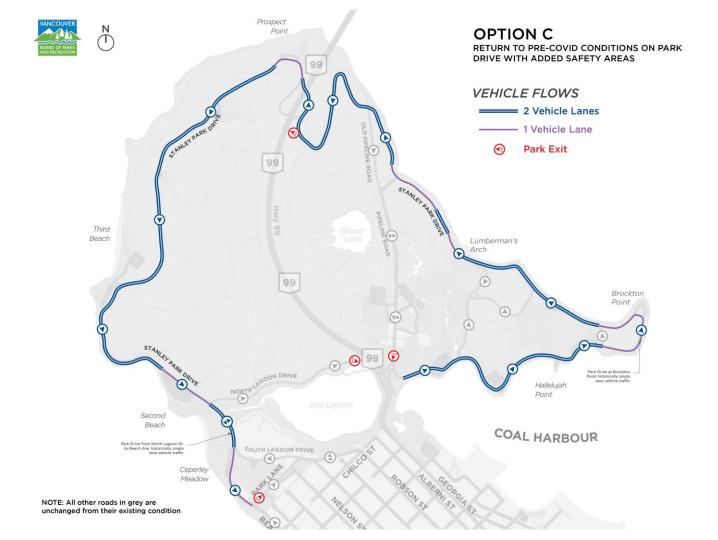
NOTE: The above costs are preliminary estimates to give a sense of the scope of work and costs. Final cost estimate will to be confirmed through official procurement process for construction, pending Board decision.



OPTION C

Return to Pre-COVID Traffic Flow & Condition on Park Drive with Added Safety Measures





OPTION C

Return the Pre-COVID-19 Traffic Flow & Conditions on Park Drive with Added Safety Measures

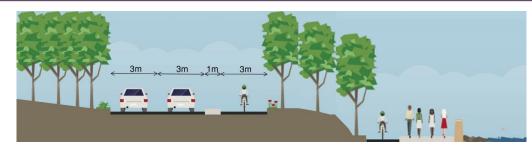
OPTION C - SUMMARY OF WORK	lin. m.	units	cost	tot	al cost
Concrete Barriers to be Removed	1,224	408	\$145	\$	59,208.33
CL painting to be removed & reinstated	1,862		\$12	\$	22,344.00
Cones to be removed	2,756			\$	10,000.00
Signage to be removed	lump sum			\$	25,000.00
Special Line Painting to be removed	115		\$300	\$	34,500.00
Repainting of traffic lines				\$	30,000.00
Project Management, Traffic control, traffic management			\$	55,000.00	
Removal of curb and gutters, drainage pipes, asphalt ramps and asphalt path				\$	40,000.00
Contingency (10%)				\$	27,605.23
Engineering Design Fees				\$	30,000.00
TOTAL COST				\$	333,657.57

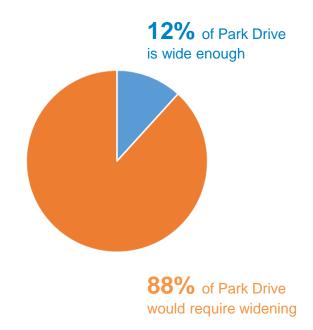
NOTE: The above costs are preliminary estimates to give a sense of the scope of work and costs. Final cost estimate will to be confirmed through official procurement process for construction, pending Board decision.

Future Permanent Bike Lane & Vehicle Lanes



Two-Lane Vehicle Traffic + Bike Lane Assessment







Summary of Options – Costs & Timelines



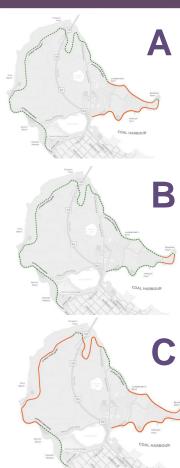
Option	Description	Timeline & Costs		
Α	Return the Pre-COVID Traffic Flow & Construct Interim Bike Lane on West Side of Park - Remove the temporary bike lane on the east side of	Summer 2023 TOTAL COST ~\$550k for upgrades to semi-		
	Stanley Park, and upgrade the bike lane on west side only for the summer of 2023	permanent bike lane (includes design fees)		
В		0 0000		
	Return the Pre-COVID Traffic Flow &	Summer 2023		
	Construct Interim Bike Lane Around the Entire Park - Replace temporary segments of the bike lane as a more semi-permanent bike lane that would be in place for summer of 2023	TOTAL COST ~\$550k for upgrades to semi- permanent bike lane (includes design fees)		
С	Return the Pre-COVID Traffic Flow & Condition on Park Drive with Added Safety Measures -	Late Spring 2023		
	Remove most of the temporary bike lane on Park Drive, with some sections remaining as detailed in report for safety and accessibility, with potential for a future permanent bike lane to be delivered when funding is available in future capital plans.	TOTAL COST ~\$330k for removal with some sections upgraded (includes design fees)		

Summary of Options – What They Achieve



KEY CONDITIONS	OPTION A	OPTION B	OPTION C
Replacement/ Removal of Traffic Cones			-
Exit at West End Neighbourhood	/	/	
Brockton Point By-Pass	/	/	
Lumberman's Arch By-Pass	/	/	
Prospect Point Upgrades & Bus Parking	/	/	
Second Beach Parking Lot Safety Upgrades	/	/	
Teahouse Parking Lot - Revert Back to Previous Circulation			
Vehicle Congestion Relief for H & C	/		
Congestion Relief due to Aquarium parking lot	/		/
Enables semi-permanent bike lane this summer	-	/	
Enables fully permanent bike lane incrementally over time			

	PRE-COVID	BASELINE	OPTION A	OPTION B	OPTION C
			Return the Pre-COVID	Return the Pre-COVID	Return the Pre-COVID
		Current Configuration	Traffic Flow &	Traffic Flow &	Traffic Flow &
DETAILS	2019	(after phase 1	Construct Interim Bike	Construct Interim Bike	Condition on Park
		removal)	Lane on West Side of	Lane Around the Entire	Drive with Added
			Park	Park	Safety Measures
Protected Bike Lane	0%	85%	60%	95%	30%
No protected bike lane	100%	15%	40%	5%	70%
# of parking stalls open	2317	2211	2190	2174	2242
% of parking stalls open	100% open	95% open	95% open	94% open	97% open





Proposed Recommendation



A. THAT the Vancouver Park Board directs staff to proceed with implementation to (insert wording of OPTION A, B, or C) for returning pre-COVID 19 Pandemic traffic flows in Stanley Park and improving the 2021 temporary bike lane: and

OPTION A – Return the Pre-COVID-19 Traffic Flow on the East Side of the Park & Construct an Interim Bike Lane on the West Side of the Park - Remove the temporary bike lane on the east side of Stanley Park, and upgrade the bike lane on the west side of the park to a semi-permanent bike lane for summer of 2023; or

OPTION B – Return the Pre-COVID Traffic Flow & Construct an Interim Bike Lane Around the Entire Park – Replace several temporary segments of the bike lane with a semi-permanent bike lane that would be in place for summer of 2023; or

OPTION C – Return the Pre-COVID-19 Traffic Flow & Conditions on Park Drive with Added Safety Measures – Remove much of the temporary bike lane on Park Drive in May of 2023, with some sections remaining for safety as detailed in the report.

Proposed Recommendation



- B. THAT staff redirect funding from appropriate funding sources within the existing capital expenditure budget to enable this work; and
- C. THAT the Vancouver Park Board confirms that this motion supersedes and replaces all previous motions passed by the Park Board with respect to the timing of the removal of the temporary bike lane on Park Drive.

Recommendation as Amended



- A. THAT the Vancouver Park Board directs staff to proceed with Option C to return pre-COVID 19 Pandemic traffic flows in Stanley Park and improve the 2021 temporary bike lane, specifically to remove much of the temporary bike lane on Park Drive as soon as possible with work to be completed before the end of May 2023, with some sections remaining for safety as detailed in the report, and with the following additional direction to staff:
 - I. Restore vehicle parking at Lumberman's Arch that was available pre-COVID-19; and
 - II. Report back to the Park Board no later than November 2023 with a dedicated bike lane proposal for summer 2024 that incorporates 2023 summer usage data, stakeholder input and park user experience;
- B. THAT staff redirect funding from appropriate funding sources within the existing capital expenditure budget to enable this work; and
- C. THAT the Vancouver Park Board confirms that this motion retains the full intent of all previous motions passed by the Park Board, with the exception of the timing of the removal of the temporary bike lane on Park Drive, which are now superseded by this motion.

