			MEETING DATE:	May 16, 2017
		STAFF REPORT	– COVER SHEET	
UBJE	ECT:	Final Draft Cycle Vision Plan	DATE:	May 5, 2017
EPA	RTMENT:	Engineering	PREPARED BY:	R.E.G Sanderson
ě	SUMMARY C	PF ISSUE:	recount to	
		oft Cycle Vision Plan May 2017 the nmunity and the Transportation Acon.		
		accept the Final Draft Cycle V g Quick Wins outlined in the plan		
	RECOMMENI	DATION:	9 <u>4</u>	
		ntion that Council accept the Fina nplementing Quick Wins as outlin	and the same of th	
			D. A. Blain, Directo	or of Planning & Engineering
•	FINANCE CON	MMENTS:		
	implement Qu	Plan provides annual funding tovuick Wins as outlined within the relation of the second secon	report. However, the prior blete.	sity items identified within
		IISTRATIVE OFFICER'S PATION/COMMENTS:	Glen Savard, Direc	tor of Finance
	Supports reco	mmendation.	Petral	nteck
			Peter Monteith, CA	÷0

7-B-3

AGENDA ITEM NO:

#### STAFF REPORT ON

# FINAL DRAFT CYCLE VISION PLAN

				*
PREPA	ARED BY	: Kevin Pollard	DATE:	May 5, 2017
POSIT	ION:	Supervisor of Roads & Transportation	DEPARTMENT:	Engineering
1.	DEFIN	ITION OF ISSUE:	,	
				AC) held April 27, 2017, the Committee.". TAC Minutes attached in Appendix 'A'
	include			ed in Appendix 'D' for information that he community and the Transportation
		nenting Quick Wins outlined in th		y 2017 and authorize staff to proceed able 2017 capital funds is requested of
2.	ВАСКО	ROUND:	360	et e
	2.1	was made to forward it to the T	ransportation Adviso	cil March 21, 2017 where the decision ory Committee (TAC) and proceed with City Hall to receive feedback from the
	2.2	The Cycle Vision Draft Plan was Committee on March 23 <sup>rd</sup> .	presented by Richar	d Drdul at the Transportation Advisory
	2.3	The second Cycle Vision Chilliwa event held on April 1 <sup>st</sup> from 10am		he Cycle Vision Draft Report at a public
¥	2.4	Technical Memorandum dated A Drdul Community Transportation	pril 13, 2017 (attach n Planning for disco	m the community summarized in the led in Appendix 'B') were presented by ussion at the Transportation Advisory in resulted in the following committee
16		"Moved / ) That the Transport	ation Advisory Comm	ittee recommend City Council give

consideration to the "Final Draft Cycle Vision Plan" dated May 2017, and

further ask Council to review funding to accelerate the realization of the plan.

Carried Unanimously"

Seconded (

2.5 Drdul Community Transportation Planning summarized the additions and changes to the Cycle Plan from TAC in the Technical Memorandum dated May 2, 2017 (attached in Appendix 'C') and now completed the Final Draft Cycle Vision Plan May 2017. A copy of the final draft document is attached in Appendix 'D'.

#### 3. ANALYSIS:

- 3.1 The second Cycle Vision event was held at City Hall on April 1<sup>st</sup>. Approximately 50 people attended, and 25 responses were received from the community, including written comments submitted at the Cycle Vision event as well as emails sent to the City after the event. Key feedback includes:
  - a) All comments were positive and supportive of the draft Cycle Plan. Several people thanked the City for developing the plan and hosting the Cycle Vision events;
  - b) The Sardis Rail Trail and protected bicycle facilities were the routes most frequently mentioned and desired by respondents;
  - c) There were many comments regarding maintenance of bicycle facilities, particularly snow removal and sweeping. These comments were likely prompted by the recent harsh winter;
  - d) There were several requests for a means of notifying interested persons of important events related to the Cycle Plan. Several persons also indicated a willingness to participate and volunteer in bicycle-related initiatives; and
  - e) A small number of specific suggestions regarding routes, facilities and supporting actions are included in the additions and changes to the Cycle Plan.
- 3.2 In Section 5 Guidelines in the Plan the following table 5.3 describing the road conditions in which various types of bicycle facilities are appropriate on urban roads. Note that these guidelines are not "cast in stone" and that other factors can affect the choice of facility, including, for example, road width, intersection and driveway spacing, truck traffic and transit service.

Table 5.3 – Bicycle facility applicability to road conditions

	Protected Facilities	Buffered Bicycle Lanes	Conventional Bicycle Lanes	Wide Traffic Lanes	Bicycle Boulevard
Classification     Major arterial     Minor arterial     Major collector     Minor collector     Local	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	**	1	. 1	· /
Average daily traffic  • > 6,000 vpd  • 1,500–6,000 vpd  • < 1,500 vpd	4	4	4	4	
Parking	1	1	/		/

3.3 Proposed changes and additions to the three maps included in the Cycle Plan are described and highlighted below. Updated versions of the maps attached in Appendix 'D'.

# Future Bicycle Network map:

- a) Add a neighbourhood route through MidTown Chilliwack development and on Meadowbrook Drive to connect to route on McIntosh Drive at Hocking Avenue;
- b) A neighbourhood route was added on Young Road through Five Corners, between sections of protected bicycle routes, recognizing that more experience cyclists may choose to continue on Young Road rather than divert to parallel streets to follow the protected bicycle network;
- c) Chilliwack Lake Road was changed to a recreational route (green line on the map) consistent with its primary use and attraction to recreational cyclists;
- d) Extend the protected facilities on Airport Road to Yale Road, to connect to north end of Sardis Rail Trail;
- e) Provide connection to neighbourhood route through MidTown Chilliwack development;
- f) Add a neighbourhood route on Yale Road between Evans and Lickman;
- g) Add a dashed dark green line indicating the possible long-term extension of the Sardis Rail Trail north;
- h) Hocking Avenue to Salish Pond Park;
- Add recreational route south from end of Sardis Rail Trail to foot of Vedder Mountain for access to the trail system; and
- j) Include "scenic" recreational routes on Camp River Road and Old Orchard Road. These routes would be identified differently on the published bicycle map from trails and dikes, so that cyclists would be aware in advance that they are rural roads with no shoulders but generally low traffic volumes, best suited to experienced cyclists.

#### Trail Connections map:

- a) Add a neighbourhood route through MidTown Chilliwack development and on Meadowbrook Drive;
- A neighbourhood route was added on Young Road through Five Corners, between sections of protected bicycle routes, as an additional connection between the Sardis Rail Trail and Experience The Fraser;
- c) Extend the protected facilities on Airport Road to Yale Road; and
- d) Add a dashed dark green line indicating the possible long-term extension of the Sardis Rail Trail north from Hocking Avenue to Salish Pond Park.

# Priority Bicycle Projects map:

- a) Extend protected facilities on Airport Road to Yale Road; and
- b) The neighbourhood route through the MidTown Chilliwack development and the section of the neighbourhood route on Hocking Avenue between Yale and Young Roads are identified as priority facilities.
- 3.4 Implementation "Quick win" projects that can be undertaken immediately and other priority bicycle projects that offer the greatest benefits for cyclists and the community are summarized in Table 4.1 below.

Table 4.1 - "Quick win" projects

	Urban Roads				
Rural Roads	Arterials and Collectors Local Streets		Spot Improvements	Off-Road Facilities	
Key shoulder bikeways 90-degree rail crossings Bicycle route signage	Demonstration protected bicycle facilities Bicycle lanes through parking removal Bicycle route signage	Crossing treatments Bicycle route signage Sharrow paint markings	Pushbuttons and detector markings Crossing treatments Bicycle racks Flexi-posts	Sardis Rail Trail extension to Airport Rd Sardis Rail Trail enhancement	

3.5 Table 4.2 summarizes estimated order-of-magnitude costs of the "quick win" projects identified above (except the Sardis Rail Trail), which total an estimated \$3.5 million.

Table 4.2 - Estimated costs of "quick win" projects

Project	Description	Quantity	Unit Cost	Total Cost
Protected facilities				
Mary-College-Young	Hodgins-Hope Slough	3.8 lane km	\$150,000	\$570,000
Princess-Young	Mary-3 <sup>rd</sup> Ave	1.4 lane km	\$150,000	\$210,000
Airport-Broadway	Young-Yale	7.0 lane km	\$50,000	\$530,000
Bicycle lanes	20 19	14		
Spadina Ave	Ashwell-Yale	2.1 lane km	\$15,000	\$32,000
Bernard Ave	Ashwell-Yale	2.6 lane km	\$15,000	\$39,000
Chilliwack Central Rd	Yale-Broadway	2.5 lane km	\$15,000	\$38,000
Knight Rd	Evans-Topaz	1.4 lane km	\$15,000	\$21,000
Stevenson Rd	Evans-Vedder	2.6 lane km	\$15,000	\$39,000
Shoulder bikeways	ji .			
Chilliwack River Rd	Knight-McGuiré	2.8 lane km	\$400,000	\$1,120,000
Crossings	Bicycle boulevards	5 crossings	\$50,000	\$250,000
	90° railway crossings	4 crossings	\$50,000	\$200,000
	Pushbuttons/markings	5 intersections	\$10,000	\$50,000
	Hook turns	9 hook turns	\$15,000	\$135,000
Signage		50+ km	\$5,000	\$250,000
Spot improvements		5+ locations	\$2,000	\$10,000
Total		+4	*/8	\$3,494,000

- 3.6 Priority Projects involve bicycle lanes, pathways, crossings and other facilities to be undertaken after the "quick win" projects described above. In general, these projects are more costly or complex than the "quick win" projects. These other priority projects have been identified based on five criteria:
  - a) Provide protection from traffic, such as off-road pathways, protected on-road facilities.
  - b) Is part of the core route network.
  - c) Facilitate travel on neighbourhood routes where they intersect with major roads.
  - d) Eliminate gaps in the network, such as bicycle lanes that do not continue through signalized intersections, facilities that are missing on one side of a road.

Table 4.3 summarizes the estimated order of magnitude cost of priority projects, which total an estimated \$30.2 million.

Table 4.3 - Estimated costs of priority projects

Project	Description	Quantity	Unit Cost	Total Cost
Protected facilities				
Sardis Rail Trail south		8.0 km	\$1,000,000	\$8,000,000
SRT to Hocking		0.5 km	\$1,000,000	\$500,000
Teskey Way pathway		$0.7  \mathrm{km}$	\$150,000	\$105,000
Bicycle lanes	78			
Ashwell Rd	Spadina-Amadis	0.5 lane km	\$500,000	\$250,000
First Ave	Spadina-Broadway	3.0 lane km	\$150,000	\$450,000
Stevenson Rd	Vedder-Higginson	0.3 lane km	\$300,000	\$90,000
Tyson Rd	Insley-Evans	0.4 lane km	\$50,000	\$20,000
Watson-Promontory	Tyson-Chilliwack R Rd	4.8 lane km	\$150,000	\$720,000
Yarrow Central Rd	Community-Eckert	0.9 lane km	\$50,000	\$45,000
Shoulder bikeways	4		5.	
Chilliwack Central Rd	Broadway-Ford	18.2 lane km	\$400,000	\$7,280,000
Ford & McGrath Rds	Chilliwack CentCNR	4.6 lane km	\$300,000	\$1,380,000
Sumas Prairie Rd	Keith Wilson-Yale	6.4 lane km	\$150,000	\$960,000
Keith Wilson Rd	Lickman-Vedder R	10.1 lane km	\$500,000	\$5,050,000
Boundary Rd	No. 3 Rd-Vedder R	3.1 lane km	\$300,000	\$930,000
Vedder Mountain Rd	Spot widening	2 spots	\$100,000	\$200,000
Crossings	Bicycle boulevards	10+ crossings	\$50,000	\$500,000
a a	Pushbuttons/markings	10+ intersect's	\$10,000	\$100,000
Bridges	Keith Wilson at Vedder R	1 improved		\$2,000,000
	Young at Hope R	1 improved		\$500,000
jā.	Williams at Hope R	1 new bridge		\$850,000
Signage	-	50+ km	\$5,000	\$250,000
Total				\$30,180,000

3.7 The 10 year financial plan contains funding in each year for bicycle projects, the 10 year sum is \$16.85 million dedicated to bicycle projects. The proposed final draft of the Cycle Vision Plan proposes more "Quick Win" and "Priority Project" than the 10 years of funding can support. The funding table below illustrates the details of the estimated values of the projects and the available projects.

Cycle Vision Quick Win Projects	\$3,494,000
Cycle Vision Priority Projects	\$30,180,000
Total Cycle Vision Projects	\$33,674,000
Existing Financial Plan Funding 2017-2026	\$16,850,000
Cycle Vision Projects Funded outside 10 year period	\$16,824,000

The current 2017 Bicycle funding of \$1,682,000 is sufficient to advance the Quick Win projects. Funding options including potential grant opportunities will be presented at Council budget review.

3.8 The proposed Cycle Vision Plan contains a numbers of quick win projects that when complete will aide cyclists travel in Chilliwack. Many of the Quick Win projects proposed require design work, or implementation planning prior to construction. Engineering Department staff will work with plan author Mr. Richard Drdl to prioritize the Quick Win projects and complete the implementation design work necessary for tendering and neighbourhood communication.

# 4. RECOMMENDATION & SUBSTANTIATION:

Recommendation:

Recommendation that Council accept the Final Draft Cycle Vision Plan May 2017 and authorize staff to proceed implementing Quick Wins as outlined in the plan, utilizing available 2017 capital funds.

# APPENDIX 'A'