Victoria Schedule C Parking Mandate Adjustments 13 May 2015 Todd Litman

Introduction

Many studies indicate that conventional minimum parking requirements significantly increase the cost of developing lower priced housing (Hurd 2014; Manville 2010; Portland 2012). For example, a recent City of Portland study shows that requiring 0.5 to 0.75 off-street spaces per unit increases the costs to occupants by 19-63% compared with no off-street parking, as indicated below.

	Development	# of	# of	Cost of Onsite Parking + Impacts on Affordability				Potential		b. Beetel	Monthly Rent Increase as a
	Prototype	# or Units	# of Parking Spaces	Parking Spaces per Unit	% of Ground Floor used for parking	Parking Cost as a Percentage of Total Construction Cost	Construction Cost	Range (550			percentage above No Parking Development Prototype
	No Parking			0	0%	0%	4.3 M	\$800	-	\$1,150	-
A		50	o			to utilize the full capac arking spaces are cons		ment on the s	ite (fact	oring in assu	mptions outlined in Methodology). Ir
	Tuck-Under			0.25	33%	4%	4.3 M	\$850	-	\$1,200	6%
в		45	9	A building with tuck-under parking is able to utilize nearly all development capacity, with a loss of 5 residential units. In this scenario 45 units and 9 parking spaces are constructed. There is a moderate rental rate increase associated with this scenario to accommodate the cost associated with providing tuck-under spaces and loss of potential residential units.							
	Surface			0.6	47%	2%	2.8 M	\$1,200	-	\$1,800	50%
с		30	19	A building with surface parking is able to utilize 50 percent of development capacity. In this scenario 30 units and 19 parking spaces are constructed. There is a rental rate increase associated with this scenario to accommodate for the opportunity cost associated with not producing 20 units.							
-	- F				here is a rental rate	increase associated w	ith this scenario ti	o accommoda	te for th	e opportunit	y cost associated with not producing
	Podium				here is a rental rate 66%	increase associated w	4.3 M	\$950	te for th	\$1,350	y cost associated with not producing
D	Podium	42	22	20 units. 0.5 A building with There are nega	66% h podium parking ut ative impacts to grou	10% ilizes 75% of the grour	4.3 M ad floor to provide street frontage wh	\$950 parking. In th ich may have	- is scena a direct	\$1,350 rio 42 units a impact on su	
D	Podium Podium Mechanical			20 units. 0.5 A building with There are nega	66% h podium parking ut ative impacts to grou	10% ilizes 75% of the grour und floor activity and s	4.3 M ad floor to provide street frontage wh	\$950 parking. In th ich may have	- is scena a direct	\$1,350 rio 42 units a impact on su	19%
D				20 units. 0.5 A building with There are negr street character 0.5 A building with constructed. 1	66% h podium parking ut ative impacts to gro er due to additional 40% h mechanical parking i Mechanical parking i	10% ilizes 75% of the grour und floor activity and s curb cuts and loss of c 22% g utilizes 40% of the gr	4.3 M Ind floor to provide street frontage wh ontinuous storefr 5.4 M ound floor to pro- king alternative a:	\$950 parking. In th ich may have ont/first floor \$1,175 vide parking. I is it stacks park	- is scena a direct charact - n this sc ing space	\$1,350 rio 42 units a impact on su er. \$1,660 enario 46 un ces with the a	19% Ind 22 parking spaces are constructe irrounding businesses, pedestrians, a 47% its and 23 parking spaces are id of mechanical systems. As a result
		42	22	20 units. 0.5 A building with There are negr street character 0.5 A building with constructed. 1	66% h podium parking ut ative impacts to gro er due to additional 40% h mechanical parking i Mechanical parking i	10% ilizes 75% of the grour und floor activity and a curb cuts and loss of c 22% g utilizes 40% of the gr is a space-efficient par	4.3 M Ind floor to provide street frontage wh ontinuous storefr 5.4 M ound floor to pro- king alternative a:	\$950 parking. In th ich may have ont/first floor \$1,175 vide parking. I is it stacks park	- is scena a direct charact - n this sc ing space	\$1,350 rio 42 units a impact on su er. \$1,660 enario 46 un ces with the a	19% Ind 22 parking spaces are constructe irrounding businesses, pedestrians, a 47% its and 23 parking spaces are id of mechanical systems. As a result
	Mechanical	42	22	20 units. 0.5 A building with There are negs street character 0.5 A building with constructed. I more parking : 0.75 A building with is challenged g	66% podium parking ut tive impacts to gro r due to additional 40% mechanical parking twechanical parking spaces can be constr 20% underground parki	10% ilizes 75% of the grour und floor activity and a curb cuts and loss of c 22% g utilizes 40% of the gg is a space-efficient par ructed in a smaller spa 28% ing is challenged given width (less than 100') a	4.3 M d floor to provide treet frontage wh ontinuous storefr 5.4 M ound floor to provide king alternative as ce; however, it ad 6.5 M the limitations to i	\$950 parking. In th ich may have ont/first floor \$1,175 vide parking. It it stacks park ds significant \$1,300 the 10,000 sq irculation bet	- is scena a direct charact - n this sc ing space cost, at - foot loi ween le	\$1,350 rio 42 units a impact on su er. \$1,660 enario 46 un ces with the a \$45,000 a sp \$1,900 t. The practic vels. In this s	19% ind 22 parking spaces are constructe irrounding businesses, pedestrians, a 47% ist and 23 parking spaces are id of mechanical systems. As a result ace.
	Mechanical	42	22 23	20 units. 0.5 A building with There are negs street character 0.5 A building with constructed. I more parking : 0.75 A building with is challenged g	66% podium parking ut tive impacts to gro r due to additional 40% mechanical parking twechanical parking spaces can be constr 20% underground parki	10% ilizes 75% of the grour und floor activity and a curb cuts and loss of c 22% g utilizes 40% of the gg is a space-efficient par ructed in a smaller spa 28% ing is challenged given width (less than 100') a	4.3 M d floor to provide treet frontage wh ontinuous storefr 5.4 M ound floor to provide king alternative as ce; however, it ad 6.5 M the limitations to i	\$950 parking. In th ich may have ont/first floor \$1,175 vide parking. I it stacks park ds significant \$1,300 the 10,000 sq circulation bet of providing u	- is scena a direct charact - n this sc cost, at - foot loo ween le ndergro <i>Results</i> c	\$1,350 rio 42 units a impact on su er. \$1,660 enario 46 un eas with the e \$45,000 a sp \$1,900 t. The practic vels. In this su und parking of Envision Tomo	19% ind 22 parking spaces are constructe rrounding businesses, pedestrians, a 47% its and 23 parking spaces are id of mechanical systems. As a result ace. 63% ality of producing undra 33 parking space

Parking Requirement Impacts on Housing Affordability (Portland 2012)

arison: Parking Prototype Impacts on Form and Affordability Prepared by Bureau of Planning and Sustainability

Other research indicates that lower-priced, infill housing often has parking demands (the number of parking spaces that residents want) far lower than conventional codes require (Arrington and Sloop 2010; Metro Vancouver 2012; Millard-Ball 2015; Schneider, Handy and Shafizadeh 2014). Residents of compact, multimodal neighborhoods typically own half as many vehicles as in sprawled, automobile-dependent areas, and vehicle ownership rates are also much lower than average for lower-income households, and in buildings with parking management strategies such as shared parking, unbundled or priced parking, and carsharing services in or near residential buildings (Litman 2006). Since driveways often eliminate one on-street parking space, off-street parking only provides a net gain if each driveway serves at least two off-street spaces.

As a result, conventional parking requirements are economically inefficient and unfair: they force households to pay for parking spaces that they do not need or want; force lower-income households to subsidize parking facilities used by their more affluent neighbors; and often reduce public on-street parking spaces while providing little net increase in total parking supply.

Reducing parking requirements does not eliminate off-street parking supply, it simply allows developers to decide how much parking to supply based on market demands, and creates incentives to more efficiently manage parking supply, for example, by sharing parking facilities and creating carsharing services that substitute for private vehicle ownership. The City of Victoria has good experience with reduced parking requirements; a decade ago parking requirements were eliminated in the downtown

and Harris Green areas, after which thousands of new housing units have been developed, many relatively affordable units with unbundled parking (parking rented separately from building space).

The City of Victoria currently requires between 0.5 off-street parking spaces per unit for boarding houses and housekeeping units, up to 1.5 spaces per dwelling unit for condominiums. Most new rental apartments or condominiums, including those located near urban villages serving lower-income househods, would be required to have 1.0 to 1.4 parking spaces per unit, which is far more than typically required, as indicated by the low vehicle occupancy rates found in many apartment and condominium parking lots.

Below are proposed amendments to Victoria City Zoning Code Schedule C to make these requirements better reflect actual demands.

Proposed Amendment 1

Eliminate minimum off-street parking requirements for lower-priced housing, defined as housing priced 30% below the median for its category (single-family, townhouses, apartments) located near downtown and urban villages.

Proposed Amendment 2

Adjust current Schedule C off-street parking requirements based on the following table.

Factor	Description	Minimum Off-street Requirement Adjustments
	Residents share parking lots rather	
Facility sharing	than being assigned individual spaces	Reduce requirements 20%
Priced or unbundled	Parking sold or rented separately from	
parking	building space	Reduce requirements 20%
Density	Number of residents or housing units per acre/hectare	Reduce requirements 1% for each resident per acre (e.g. 15% at 15 residents per acre and 30% at 30 res. per acre)
Land use mix	Range of land uses located within convenient walking distance	Reduce requirements 10% in walkable, mixed-use neighborhoods
Transit accessibility	Nearby transit service frequency and quality	Reduce requirements 10% within 0.4 kilometers of frequent bus service.
Carsharing	Whether a carsharing service is available nearby	Reduce residential requirements 20% if carsharing vehicles are located in or near a residential building
Demographics	Age and physical ability	Reduce requirements 20% for housing for young (under 25) elderly (over 65) or disabled people
Income	Average income of residents or commuters	Reduce requirements 20% if most occupants will be lowest income quintile households

Parking Requirement Adjustment Factors

This table summarizes various factors that can allow parking supply and zoning requirements to be reduced.

If multiple factors apply, adjustments are multiplicative, since each additional factor applies to a smaller base. For example, if shared parking reduces requirements by 20%, 15 residents per acre reduces requirements 15%, and lower-income residents reduce requirements 10%, the total is calculated as 1-[(1-20%) * (1-15%) * (1-10%)] = 39% reduction, not 1-(20% + 15% + 10%) = 45% reduction.

To be effective and politically acceptable this may require additional parking management and enforcement. The city can work with neighborhood associations, local businesses and developers to create parking management programs in specific areas that allow and support more sharing of off-street parking, and more effective regulation of municipal on- and off-street parking.

References

G.B. Arrington and Kimi Iboshi Sloop (2010), "New Transit Cooperative Research Program Research Confirms Transit-Oriented Developments Produce Fewer Auto Trips," *ITE Journal* (<u>www.ite.org</u>), Vol. 79, No. 6, June, pp. 26-29; at <u>http://bit.ly/1L2inL4</u>.

Eric Jaffe (2015), *The High Cost Of Residential Parking: Every Time A New Building Includes Space For Cars, It Passes Those Costs On To Tenants,* City Lab (<u>www.citylab.com</u>); at <u>www.citylab.com/cityfixer/2015/05/how-parking-keeps-your-rent-too-damn-high-in-2-charts/392894</u>.</u>

A-P Hurd (2014), How Outdated Parking Laws Price Families Out of the City: Bundling Parking With Living Space Structurally Raises The Cost Of Urban Life, City Lab (<u>www.citylab.com</u>); at <u>http://bit.ly/1KZZCYq</u>.

Todd Litman (2006), *Parking Management Best Practices*, Planners Press (<u>www.planning.org</u>). Also see, *Parking Management: Comprehensive Implementation Guide*, Victoria Transport Policy Institute (<u>www.vtpi.org</u>); at <u>www.vtpi.org/park_man_comp.pdf</u>.

Todd Litman (2015), *Affordable-Accessible Housing in a Dynamic City*, Victoria Transport Policy Institute (<u>www.vtpi.org</u>); at <u>www.vtpi.org/aff_acc_hou.pdf</u>.

Michael Manville (2010), *Parking Requirements as a Barrier To Housing Development: Regulation and Reform In Los Angeles*, UCLA Institute of Transportation Studies (<u>www.its.ucla.edu</u>); at <u>http://bit.ly/1H3RbaH</u>.

Metro Vancouver (2012), *Metro Vancouver Apartment Parking Study; Revised Technical Report*, Metropolitan Planning, Environment, and Parks (<u>www.metrovancouver.org</u>); at www.metrovancouver.org/planning/development/strategy/Pages/Implementation.aspx.

Adam Millard-Ball (2015), "Phantom Trips: Overestimating the Traffic Impacts of New Development," *Journal of Transportation and Land Use* (<u>www.jtlu.org</u>); at <u>http://bit.ly/1OsKll4</u>; summary at <u>http://bit.ly/1HkHmt1</u>.

Portland (2012), *Cost of Onsite Parking + Impacts on Affordability*, Portland Bureau of Planning and Sustainability (<u>www.portlandoregon.gov</u>); at <u>www.portlandoregon.gov/bps/article/420062</u>.

Robert J. Schneider, Susan L. Handy and Kevan Shafizadeh (2014), "Trip Generation for Smart Growth Projects," *Access 45*, Fall 2014 (<u>http://bit.ly/1DHcCiG</u>); also see the "*Smart Growth Trip-Generation Adjustment Tool*" (<u>http://bit.ly/1z2q5Dd</u>).

Victoria (2005), "Schedule C: Off-street Parking," Zoning Code, City of Victoria (<u>www.victoria.ca</u>); at <u>http://bit.ly/1AXwsDj</u>.