VII. STANDING COMMITTEE

B. Finance, Audit and Facilities Committee

State Route 520 Project

See Attached

WSDOT Local Streets Traffic Modeling Results
Based on Tech Committee Graphic distributed 9/13/05
Prepared by Peter Dewey
10/11/2005

	2030 Bi-directional PM Peak Hour Traffic Volumes									
Volume change	No build Volume	Base 6 lane (w/ Montlake Interchange)			Union Bay Bridge			Parallel Montlake Bridge		
			Volume			Volume			Volume	
			change	% change		change	% change		change	% change
			from no	from no		from no	from no		from no	from no
		Volume	build	Build	Volume	build	Build	Volume	build	Build
Local Streets										
15th north of Pacific Street	1,150	1,080	(70)	-6%	1,530	380	33%	1,280	130	11%
Pacific west of 15th Ave	1,650	1,570	(80)	-5%	2,310	660	40%	1,820	170	10%
Pacific east of 15th Ave	2,680	2,570	(110)	-4%	3,660	980	37%	2,950	270	10%
Montlake north of Pacific Place	4,930	4,840	(90)	-2%	5,930	1,000	20%	5,400	470	10%
45th east of Montlake	4,490	4,200	(290)	-6%	5,440	950	21%	4,880	390	9%
Montlake at Shelby	5,660	5,760	100	2%	3,070	(2,590)	-46%	6,250	590	10%
Montlake at Calhoun	2,070	1,940	(130)	-6%	2,540	470	23%	2,320	250	12%
Arboretum on/off ramps	1,150	1,215	65	6%	1,710	560	49%	1,200	50	4%
SR 520										
SR 520 at Portage Bay	6,790	7,240	450	7%	6,580	(210)	-3%	7,275	485	7%
SR 520 east of Arboretum	8,630	8,900	270	3%	8,910	280	3%	8,890	260	3%

Notes:

The street system assumed for the No build, Base 6 lane and Parallel Montlake Bridge options are equivalent. The street system assumed with the Union Bay Bridge option includes an additional traffic lane *in each direction* on Montlake Blvd, 45th to Pacific Street, an additional eastbound lane on Pacific Place and a lengthened eastbound turn pocket on eastbound Pacific Street at Pacific Place. These street changes were added as was required to maintain intersection performance at acceptable levels. Without these street changes, traffic volumes would be much lower and some of the area intersections would fail.

Under the Union Bay bridge option, Shelby Hamlin volume would decline 46% which all other local street volumes would increase up to 49%, including a 23% volume increase on Montlake Blvd as it passes through the Montlake business district at Calhoun

Under the Union Bay bridge option, Montlake Blvd north of Pacific Place would have a PM peak volume 90% of the SR 520 volume at Portage Bay. 45th Street east of Montlake would be 83% of the SR 520 volume at Portage Bay.



