Section 17D.075.210

Appendix C

rmulas, Trip Rates, Pass-By, Trip Length Adjustment Factors used in Rate Schedule

17D.075.200 Appendix C Trip Rates, Pass-By, Trip Length Adjustment Factors used in Rate Schedule

		_			Trip
		<u> </u>	ITE Avg.	Pass-by	Length Adj.
Land Use Category	Land Use		Trip Rate	Rate	Factor*
Residential	Code	Unit			
Single Family & Duplex	210	dwelling	1	0%	1.17
Multi-Family 1-2 level	220	dwelling	0.67	0%	1.23
Multi-Family 3-10 level	221	dwelling	0.44	0%	1.23
ADU		dwelling	0.44	0%	1.23
Multi Family Low-Income		dwelling	0.4	0%	1.23
Assisted Living	254	bed	0.29	0%	0.93
Continuing Care Retirement Communit	255	dwelling	0.16	0%	0.93
Nursing Home	620	beds	0.22	0%	0.93
Commercial Services				144 7	
Hotel (3 Levels or More)	310	room	0.59	0%	1.33
Hotel/Motel	320	room	0.47	0%	1.33
Multiplex Movie Theater	445	sq ft/GFA	0.00294	0%	0.77
Health Club	492	sq ft/GFA	0.00353	25%	1.03
Day Care	565	sq ft/GFA	0.01234	25%	0.60
Bank	912	sq ft/GFA	0.0243	50%	0.50
Commercial institutional					
Elementary School	520	sq ft/GFA	0.0013	30%	0.67
Middle School	522	sq ft/GFA	0.0009	30%	0.67
High School	530	sq ft/GFA	0.0007	20%	0.90
University/College	550	ASF*	0.000445	0%	1.50
Religious Institute	560	sq ft/GFA	0.00055	0%	1.00
Library	590	sq ft/GFA	0.0073	25%	0.67
Hospital	610	sq ft/GFA	0.00093	20%	1.67
Commercial - Restaurant				20.75	
Drinking Establishment	925	sq ft/GFA	0.01134	40%	0.67
Quality Restaurant	931	sq ft/GFA	0.00749	35%	0.90
High Turnover Restaurant	932	sq ft/GFA	0.00985	40%	0.75
Fast Casual Restaurant	332	sq ft/GFA	0.00905	40%	0.67
	934		0.01835	50%	0.67
Fast Food Restaurant (with drive-thru)	937	sq ft/GFA			
Coffee Shop with Drive-Thru	937	sq ft/GFA	0.0428	80%	0.50
Commercial - Retail	042	om #/CLA	0.00435	400/	0.70
Free-Standing Discount Superstore	813	sq ft/GLA	0.00435	40%	0.70
Specialty Retail Center	826	sq ft/GLA	0.00271	45%	0.70
Hardware/Paint Store	816	sq ft/GFA	0.00484	45%	0.70
Nursery/Garden Center	817	sq ft/GFA	0.00694	30%	0.70
Shopping Center	820	sq ft/GLA	0.00371	40%	0.70
Automobile Sales - Used/New	841	sq ft/GFA	0.00262	20%	1.10
Tire Store	848	Service bay	3.54	28%	0.80
Supermarket	850	sq ft/GFA	0.00948	40%	0.70
Convenience Market	851	sq ft/GFA	0.05241	60%	0.43
Pharmacy	881	sq ft/GFA	0.00991	50%	0.57
Furniture Store	890	sq ft/GFA	0.00045	40%	0.57
Quick Lubrication Vehicle Shop	941	Service Bay	5.19	20%	0.80
Auto Parts & Service Center	943	sq ft/GFA	0.00446	30%	0.80
Service Station/Minimart/Carwash	853	VFP	19.07	70%	0.60
Industrial		1			
Light Industry/High Technology	110	sq ft/GFA	0.00097	0%	1.50
Heavy Industrial	120	sq ft/GFA	0.00068	0%	1.50
Industrial Park	130	sq ft/GFA	0.00085	0%	1.50
Manufacturing	140	sq ft/GFA	0.00073	0%	1.50
Warehousing	150	sq ft/GFA	0.00032	0%	1.50
Mini-Storage	151	sq ft/GFA	0.00019	0%	1.30
Commercial - Administrative Office					
Veterinary Clinic	640	sq ft/GFA	0.00472	10%	1.20
General Office	710	sq ft/GFA	0.00149	10%	1.30
Medical Office / Clinic	720	sq ft/GFA	0.00357	10%	1.20
Office Park	750	sq ft/GFA	0.00148	10%	1.30

Formula for Base Fee by District

Base Fee = (Project Costs) / (Trip Ends) * Developer %

Project Costs = Total cost of capacity improvement projects for each district

Trip Ends = growth in PM peak trips over 20 years from SRTC travel demand model.

Developer % = Share of costs assigned to developers vs. city or grant funds. (currently 50%)

Formula for Land Use Rates

Rate = [(Base Fee * ITE Trip Rate) - (Base Fee * ITE Trip Rate * Pass-by %)] * Trip Length Factor

ITE Trip Rate = Trip generation rate from ITE Manual, varies by land use

Pass-by % = Trips that are already using the adjacent arterial and stop at the land use. Does not add new trips to the network.

Trip Length Factor = adjusts the rate to account for trip length. People drive farther to unique destinations such as Costco or the hospital, but often go to the closest grocery store or gas station.