

APPENDIX A

Walkway Level of Service Work Sheets

WALKWAY ANALYSIS WORKSHEET	
Location: _____	COUNTS
City, State: _____	Date: _____
Curb Line/Sidewalk Edge	Time: _____
<div style="display: flex; align-items: center;"> <div style="border-left: 1px solid black; border-right: 1px solid black; padding: 0 5px; margin-right: 5px;"> $W_T =$ </div> <div style="border-bottom: 1px solid black; padding: 2px 5px;"> W_{B1} (curb) = _____ ft </div> </div>	PEAK 15-MIN FROM _____ to _____
<div style="display: flex; align-items: center;"> <div style="border-left: 1px solid black; border-right: 1px solid black; padding: 0 5px; margin-right: 5px;"> $W_T =$ </div> <div style="border-bottom: 1px solid black; padding: 2px 5px;"> W_{B2} (street furn.) = _____ ft </div> </div>	
<div style="display: flex; align-items: center;"> <div style="border-left: 1px solid black; border-right: 1px solid black; padding: 0 5px; margin-right: 5px;"> $W_T =$ </div> <div style="border-bottom: 1px solid black; padding: 2px 5px;"> W_E (effective width) = _____ ft </div> </div>	$V_1 =$ _____
<div style="display: flex; align-items: center;"> <div style="border-left: 1px solid black; border-right: 1px solid black; padding: 0 5px; margin-right: 5px;"> $W_T =$ </div> <div style="border-bottom: 1px solid black; padding: 2px 5px;"> W_{B3} (window shop) = _____ ft </div> </div>	$V_2 =$ _____ (ped/15 min)
<div style="display: flex; align-items: center;"> <div style="border-left: 1px solid black; border-right: 1px solid black; padding: 0 5px; margin-right: 5px;"> $W_T =$ </div> <div style="border-bottom: 1px solid black; padding: 2px 5px;"> W_{B4} (bldg protrusions) = _____ ft </div> </div>	
<div style="display: flex; align-items: center;"> <div style="border-left: 1px solid black; border-right: 1px solid black; padding: 0 5px; margin-right: 5px;"> $W_T =$ </div> <div style="border-bottom: 1px solid black; padding: 2px 5px;"> W_{B5} (inside clearance) = _____ ft </div> </div>	
Wall Line/Sidewalk Edge	
<p>Pedestrian Volume</p> <p style="text-align: right;">$V_1 =$ _____ ped/15 min</p> <p style="text-align: right;">$V_2 =$ _____ ped/15 min</p> <p style="text-align: right;">$V_p = V_1 + V_2 =$ _____ ped/15 min</p>	
<p>Walkway Width</p> <p style="text-align: right;">$W_T =$ _____ ft</p> <p style="text-align: right;">$W_B = W_{B1} + W_{B2} + W_{B3} + W_{B4} + W_{B5} =$ _____ ft</p> <p style="text-align: right;">$W_E = W_T - W_B =$ _____ ft</p>	
<p>Average Walkway LOS</p> <p style="text-align: right;">$v = V_p / 15W_E =$ _____ ped/min/ft</p> <p style="text-align: right;">Average LOS = _____ (Table 13-3)</p>	
<p>Platoon Walkway LOS</p> <p style="text-align: right;">$v_p = v + 4 =$ _____ ped/min/ft</p> <p style="text-align: right;">Platoon LOS = _____ (Table 13-3)</p>	

Appendix Figure A-1
Walkway Analysis Worksheet

Source: Figure 13-13, *Highway Capacity Manual*, Chapter 13

TABLE A1
PEDESTRIAN LEVEL OF SERVICE – SATURDAY NIGHT PRE-EVENT CONDITIONS –
NORTH-SOUTH STREETS

STREET	SECTION		SIDEWALK SIDE	SIDEWALK				ORS – INTERNAL CIRCULATION			LAS & ED TOTAL		STAPLES/LACC + LAS & ED		
	FROM	TO		FULL WIDTH	CURB SIDE ADJUST	BLDG SIDE ADJUST	EFFEC WID	PEAK 15 MIN PEDS	FLOW RATE (ped/min/ft)	LEVEL OF SERVICE	FLOW RATE (ped/min/ft)	LEVEL OF SERVICE	PEAK 15 MIN PEDS	PED RATE (ped/min/ft)	FLOW LEVEL OF SERVICE
Cherry	Olympic	11th	East	10	1.5	0	8.1	16	0.15	A	0.28	A	351	2.78	B
			West	NO SIDEWALK											
Georgia	Olympic	11th	East	10	1.5	0	8.1	79	0.65	A	1.06	A	324	2.57	B
			West	10	1.5	0	8.1	79	0.65	A	1.06	A	261	2.08	B
Figueroa	9th	Olympic	East	12	2	1.5	8.1	0	0.12	A	1.49	A	820	6.55	B
			West	12	2	0	11	0	0.10	A	3.60	B	1485	10.00	C
Figueroa	Olympic	11th	East	12	2	1.5	8.1	32	0.36	A	1.05	A	764	6.11	B
			West	15	2	0	11	158	0.88	A	1.78	A	1608	8.32	C
Figueroa	11th	12th	East	15	2	0	11	236	1.29	A	1.65	A	636	3.34	B
			West	30	2	1.5	26	315	0.83	A	1.27	A	1135	2.89	B
Figueroa	12th	Pico	East	15	2	0	11	236	1.29	A	1.92	A	500	2.64	B
			West	17	1.5	0	15	236	1.08	A	1.46	A	969	4.23	B
Figueroa	Pico	Venice	East	16	2	1.5	12	0	0.08	A	0.45	A	148	0.87	A
			West	10	1.5	0	8.1	0	0.12	A	0.25	A	348	2.84	B
Flower	9th	Olympic	East	13	2	1.5	9.1	0	0.05	A	0.30	A	169	1.24	A
			West	12	2	1.5	8.1	16	0.18	A	1.55	A	387	3.10	B
Flower	Olympic	11th	East	15	2	1.5	11	0	0.04	A	0.14	A	151	0.92	A
			West	22	2	1.5	18	16	0.08	A	0.27	A	265	0.98	A
Flower	11th	12th	East	12	1.5	1.5	9.1	32	0.29	A	1.07	A	459	3.46	B
			West	10	2	1.5	6.1	142	1.53	A	3.15	B	622	6.45	B
Flower	12th	Pico	East	9.5	1.5	1.5	6.1	32	0.40	A	2.73	B	897	9.27	C
			West	10	2	0	8.1	126	1.11	A	1.70	A	519	4.38	B
Flower	Pico	Venice	East	9	1.5	1.5	6.1	0	0.08	A	0.47	A	106	1.26	A
			West	10	2	1.5	6.1	0	0.08	A	0.44	A	169	1.81	A

TABLE A2
PEDESTRIAN LEVEL OF SERVICE – SATURDAY NIGHT PRE-EVENT CONDITIONS -
EAST-WEST STREETS

STREET	SECTION		SIDEWALK SIDE	SIDEWALK				ORS – INTERNAL CIRCULATION			LAS & ED TOTAL		STAPLES/LACC + LAS & ED		
	FROM	TO		FULL WIDTH	CURB SIDE ADJUST	BLDG SIDE ADJUST	EFFEC WID	PEAK 15 MIN PEDS	FLOW RATE (ped/min/ft)	LEVEL OF SERVICE	FLOW RATE (ped/min/ft)	LEVEL OF SERVICE	PEAK 15 MIN PEDS	PED RATE (ped/min/ft)	FLOW LEVEL OF SERVICE
Olympic	Georgia	Figueroa	North	15	2	1.5	11	79	0.50	A	1.51	A	576	3.38	B
			South	15	2	0	1	189	1.01	A	1.91	A	1002	5.17	B
Olympic	Figueroa	Flower	North	15	2	0	1	32	0.24	A	0.42	A	208	1.14	A
			South	13	2	1.5	9	32	0.33	A	0.82	A	747	5.34	B
11th	Cherry	Georgia	North	15	2	0	1	16	0.12	A	0.21	A	293	1.54	A
			South	10	2	0	1	16	0.19	A	0.34	A	104	0.93	A
11th	Georgia	Figueroa	North	15	2	0	1	236	1.29	A	2.63	B	1144	5.94	B
			South	20	2	1.5	11	79	0.38	A	0.73	A	1441	5.88	B
11th	Figueroa	Flower	North	10	2	0	1	126	1.18	A	2.34	B	785	6.67	B
			South	10	2	1.5	6	110	1.28	A	2.54	B	1004	10.45	D
12th	Figueroa	Flower	North	15	2	0	1	158	0.85	A	1.29	A	568	2.95	B
			South	10	1.5	0	8	158	1.29	A	1.98	A	1198	9.45	C
Pico	Figueroa	Flower	North	19.5	2	0	11	79	0.36	A	0.89	A	486	1.91	A
			South	11.5	2	1.5	6	0	0.13	A	0.42	A	113	1.07	A

TABLE A3
PEDESTRIAN LEVEL OF SERVICE – SATURDAY NIGHT PRE-EVENT CONDITIONS –
NORTH-SOUTH STREETS

STREET	SECTION		SIDEWALK SIDE	SIDEWALK				ORS – INTERNAL CIRCULATION			LAS & ED TOTAL		STAPLES/LACC + LAS & ED		
	FROM	TO		FULL WIDTH	CURB SIDE ADJUST	BLDG SIDE ADJUST	EFFECTIVE WIDTH	PEAK 15 MIN PEDS	FLOW RATE (ped/min/ft)	LEVEL OF SERVICE	FLOW RATE (ped/min/ft)	LEVEL OF SERVICE	PEAK 15 MIN PEDS	PED FLOW RATE (ped/min/ft)	LEVEL OF SERVICE
Cherry	Olympic	11th	East West	10 NO SIDEWALK	1.5	0	8.5	16	0.15	A	0.16	A	336	2.65	B
Georgia	Olympic	11th	East West	10	1.5	0	8.5	79	0.65	A	0.69	A	277	2.20	B
				10	1.5	0	8.5	79	0.65	A	0.69	A	214	1.71	A
Figueroa	9th	Olympic	East West	12	2	1.5	8.5	0	0.12	A	0.25	A	663	5.31	B
				12	2	0	10	0	0.10	A	0.45	A	1013	6.85	B
Figueroa	Olympic	11th	East West	12	2	1.5	8.5	32	0.36	A	0.43	A	685	5.49	B
				15	2	0	13	158	0.88	A	0.97	A	1450	7.51	C
Figueroa	11th	12th	East West	15	2	0	13	236	1.29	A	1.32	A	573	3.02	B
				30	2	1.5	26	315	0.83	A	0.87	A	978	2.50	B
Figueroa	12th	Pico	East West	15	2	0	13	236	1.29	A	1.35	A	390	2.07	B
				17	1.5	0	15	236	1.08	A	1.12	A	890	3.89	B
Figueroa	Pico	Venice	East West	16	2	1.5	12	0	0.08	A	0.12	A	85	0.53	A
				10	1.5	0	8	0	0.12	A	0.13	A	332	2.72	B
Flower	9th	Olympic	East West	13	2	1.5	9	0	0.05	A	0.08	A	137	1.01	A
				12	2	1.5	8	16	0.18	A	0.32	A	230	1.86	A
Flower	Olympic	11th	East West	15	2	1.5	11	0	0.04	A	0.05	A	135	0.83	A
				22	2	1.5	18	16	0.08	A	0.10	A	218	0.81	A
Flower	11th	12th	East West	12	1.5	1.5	9	32	0.29	A	0.37	A	365	2.76	B
				10	2	1.5	6	142	1.53	A	1.69	A	480	5.00	B
Flower	12th	Pico	East West	9.5	1.5	1.5	6	32	0.40	A	0.63	A	692	7.17	C
				10	2	0	8	126	1.11	A	1.17	A	456	3.86	B
Flower	Pico	Venice	East West	9	1.5	1.5	6	0	0.08	A	0.12	A	74	0.91	A
				10	2	1.5	6	0	0.08	A	0.11	A	137	1.48	A

TABLE A4
PEDESTRIAN LEVEL OF SERVICE – SATURDAY NIGHT PRE-EVENT CONDITIONS –
EAST-WEST STREETS

STREET	SECTION		SIDEWALK SIDE	SIDEWALK				ORS – INTERNAL CIRCULATION			LAS & ED TOTAL		STAPLES/LACC + LAS & ED		
	FROM	TO		FULL WIDTH	CURB SIDE ADJUST	BLDG SIDE ADJUST	EFFECTIVE WIDTH	PEAK 15 MIN PEDS	FLOW RATE (ped/min/ft)	LEVEL OF SERVICE	FLOW RATE (ped/min/ft)	LEVEL OF SERVICE	PEAK 15 MIN PEDS	PED FLOW RATE (ped/min/ft)	LEVEL OF SERVICE
Olympic	Georgia	Figueroa	North South	15	2	1.5	14	79	0.50	A	0.60	A	419	2.47	B
				15	2	0	14	189	1.01	A	1.10	A	844	4.37	B
Olympic	Figueroa	Flower	North South	15	2	0	14	32	0.24	A	0.26	A	176	0.98	A
				13	2	1.5	9	32	0.33	A	0.38	A	684	4.90	B
11th	Cherry	Georgia	North South	15	2	0	14	16	0.12	A	0.13	A	277	1.46	A
				10	2	0	14	16	0.19	A	0.21	A	88	0.80	A
11th	Georgia	Figueroa	North South	15	2	0	14	236	1.29	A	1.42	A	908	4.73	B
				20	2	1.5	16	79	0.38	A	0.41	A	1363	5.57	B
11th	Figueroa	Flower	North South	10	2	0	14	126	1.18	A	1.29	A	659	5.62	B
				10	2	1.5	6	110	1.28	A	1.41	A	894	9.32	C
12th	Figueroa	Flower	North South	15	2	0	14	158	0.85	A	0.89	A	489	2.54	B
				10	1.5	0	8	158	1.29	A	1.36	A	1119	8.83	C
Pico	Figueroa	Flower	North South	19.5	2	0	11	79	0.36	A	0.41	A	360	1.43	A
				11.5	2	1.5	6	0	0.13	A	0.15	A	82	0.80	A