
APPENDIX D12
Trip Generation Analysis

Table 1
Proposed Project Trip Generation - Public Safety Campus¹
Calle Real Campus Master Plan

Land Use	ITE Code	Quantity	Units ²	Weekday						
				AM Peak Hour			PM Peak Hour			Daily
				In	Out	Total	In	Out	Total	
ITE Trip Generation Rates										
Government Office Building	730	--	TSF	75%	25%	3.34	25%	75%	1.71	22.59
Proposed Project Trip Generation (New and Expanded Buildings)										
Fire Department HQ	730	22.800	TSF	57	19	76	10	29	39	515
Emergency Operation Center Expansion	730	4.830	TSF	12	4	16	2	6	8	109
Proposed Project Trip Generation Sub-Total [A]				69	23	92	12	35	47	624
Buildings To Be Demolished Trip Generation										
Fire Department Admin Warehouse	730	6.000	TSF	15	5	20	3	7	10	136
Fire Department Admin Building	730	7.612	TSF	19	6	25	3	10	13	172
Buildings To Be Demolished Trip Generation Sub-Total [B]				34	11	45	6	17	23	308
Total Net Trip Generation [A] - [B]				35	12	47	6	18	24	316

¹ Source: *ITE Trip Generation Manual* (11th Edition, 2021).

² TSF = Thousand Square Feet

Table 2
Proposed Project Trip Generation - County Yards Campus¹
Calle Real Campus Master Plan

Land Use	ITE Code	Quantity	Units ²	Weekday						
				AM Peak Hour			PM Peak Hour			Daily
				In	Out	Total	In	Out	Total	
ITE Trip Generation Rates										
Warehousing	150	--	TSF	77%	23%	0.17	28%	72%	0.18	1.71
Utility	170	--	TSF	87%	13%	2.33	18%	82%	2.16	12.29
Government Office Building	730	--	TSF	75%	25%	3.34	25%	75%	1.71	22.59
Automobile Care Center ³	942	--	TSF	66%	34%	2.25	48%	52%	3.11	25.06
Proposed Project Trip Generation (New and Expanded Buildings)										
General Services Vehicle Operations Building Expansion	942	5.620	TSF	9	4	13	8	9	17	141
Storage Building	150	14.700	TSF	2	0	2	1	2	3	25
Office Building	730	18.100	TSF	45	15	60	8	23	31	409
Parks Yard Building	150	22.100	TSF	3	1	4	1	3	4	38
Flood Control Office	730	6.200	TSF	16	5	21	3	8	11	140
Water Resources and Permits Building	730	10.885	TSF	27	9	36	5	14	19	246
New Prefab Communication Tower Buildings	170	4.000	TSF	8	1	9	2	7	9	49
Proposed Project Trip Generation Sub-Total [A]				110	35	145	28	66	94	1,048
Buildings To Be Demolished Trip Generation										
Sheriff Training Facility	730	3.600	TSF	9	3	12	2	4	6	81
Public Works Flood Control Storage	150	0.200	TSF	0	0	0	0	0	0	0
General Services Facilities Shop and Office	730	11.008	TSF	28	9	37	5	14	19	249
Public Works Flood Control Buildings	730	7.800	TSF	20	6	26	3	10	13	176
General Services Vehicles Paint Shop	942	0.432	TSF	1	0	1	0	1	1	11
Public Works Road Yard Buildings	150	4.358	TSF	1	0	1	0	1	1	7
Parks Storage Building	150	2.500	TSF	0	0	0	0	0	0	4
CRA Archives Building	730	6.000	TSF	15	5	20	3	7	10	136
Community Services Department Park Operations Office	730	11.016	TSF	28	9	37	5	14	19	249
Buildings To Be Demolished Trip Generation Sub-Total [B]				102	32	134	18	51	69	913
Total Net Trip Generation [A] - [B]				8	3	11	10	15	25	135

¹ Source: ITE Trip Generation Manual (11th Edition, 2021).

² TSF = Thousand Square Feet

³ ITE Trip Generation Manual does not provide average daily trip generation rates for ITE Land Use 942. As such, the average daily trip generation rate was calculated by comparing the ratio between the average daily and PM peak hour trip generation rates for ITE Land Use 943: Car Wash and Detail Center, and applying the ratio to the PM peak hour trip generation rate for ITE Land Use 948 [i.e.(16.6/2.06)*3.11].

Table 3
Proposed Project Trip Generation - Health and Government Center Campus¹
Calle Real Campus Master Plan

Land Use	ITE Code	Quantity	Units ²	Weekday						Daily
				AM Peak Hour			PM Peak Hour			
				In	Out	Total	In	Out	Total	
ITE Trip Generation Rates										
Utility	170	--	TSF	87%	13%	2.33	18%	82%	2.16	12.29
Affordable Housing	223	--	DU	29%	71%	0.50	59%	41%	0.46	4.81
Medical-Dental Office - Within/Near Hospital Campus	720	--	TSF	81%	19%	2.68	25%	75%	2.84	31.86
Government Office Building	730	--	TSF	75%	25%	3.34	25%	75%	1.71	22.59
Proposed Project Trip Generation										
Archives Parking Lot	223	59	DU	9	21	30	16	11	27	284
Child Family Services Parking Lot	223	18	DU	3	6	9	5	3	8	87
Above Behavioral Wellness Park	223	39	DU	6	14	20	11	7	18	188
Behavioral Wellness Building	720	63.000	TSF	137	32	169	45	134	179	2,007
BeWell Program Building	720	5.500	TSF	12	3	15	4	12	16	175
Public Health Admin Building	730	30.000	TSF	75	25	100	13	38	51	678
Health Care Center	720	60.000	TSF	130	31	161	43	127	170	1,912
New Commons Building/Service Center	730	62.000	TSF	155	52	207	27	79	106	1,401
New Government Center	730	170.500	TSF	427	142	569	73	219	292	3,852
Proposed Project Trip Generation Sub-Total [A]				954	326	1,280	237	630	867	10,584
Buildings To Be Demolished Trip Generation										
Archive Building	730	13.060	TSF	33	11	44	6	16	22	295
Health Stat Modular	720	1.440	TSF	3	1	4	1	3	4	46
BeWell Adult Services	720	9.100	TSF	19	5	24	7	19	26	290
PHD Building	730	113.867	TSF	285	95	380	49	146	195	2,572
PHD Admin Building	730	2.691	TSF	7	2	9	1	4	5	61
San Antonio Building	730	22.828	TSF	57	19	76	10	29	39	516
Casa Nueva Annex	730	1.200	TSF	3	1	4	1	1	2	27
PHD Environmental Modular	730	4.032	TSF	10	3	13	2	5	7	91
Agricultural Office	730	3.884	TSF	10	3	13	2	5	7	88
Employee University	730	4.320	TSF	11	3	14	2	5	7	98
Old Boiler Building	170	4.599	TSF	10	1	11	2	8	10	57
VA Clinic & Elections	730	23.844	TSF	60	20	80	10	31	41	539
Buildings To Be Demolished Trip Generation Sub-Total [B]				508	164	672	93	272	365	4,680
Total Net Trip Generation [A] - [B]				446	162	608	144	358	502	5,904

¹ Source: ITE Trip Generation Manual (11th Edition, 2021).

² TSF = Thousand Square Feet

Table 4
Proposed Project Trip Generation - Jail Campus¹
Calle Real Campus Master Plan

Land Use	ITE Code	Quantity	Units ²	Weekday						
				AM Peak Hour			PM Peak Hour			Daily
				In	Out	Total	In	Out	Total	
ITE Trip Generation Rates										
Government Office Building	730	--	TSF	75%	25%	3.34	25%	75%	1.71	22.59
Adult Detention Facility	571	--	TSF	73%	27%	0.68	16%	84%	0.48	4.09
Proposed Project Trip Generation (New and Expanded Buildings)										
Sheriff Administration Building Expansion	730	21.100	TSF	53	17	70	9	27	36	477
Proposed Project Trip Generation Sub-Total [A]				53	17	70	9	27	36	477
Buildings To Be Demolished Trip Generation										
Sheriff Capital Projects Office	730	0.400	TSF	1	0	1	0	1	1	9
Jail Buildings	571	0.707	TSF	0	0	0	0	0	0	3
Buildings To Be Demolished Trip Generation Sub-Total [B]				1	0	1	0	1	1	12
Total Net Trip Generation [A] - [B]				52	17	69	9	26	35	465

¹ Source: *ITE Trip Generation Manual* (11th Edition, 2021).

² TSF = Thousand Square Feet

Table 5
Proposed Project Trip Generation - Community Services Campus¹
Calle Real Campus Master Plan

Land Use	ITE Code	Quantity	Units ²	Weekday						Daily	
				AM Peak Hour			PM Peak Hour				
				In	Out	Total	In	Out	Total		
ITE Trip Generation Rates											
Affordable Housing	223	--	DU	29%	71%	0.50	59%	41%	0.46	4.81	
Adult Detention Facility	571	--	TSF	73%	27%	0.68	16%	84%	0.48	4.09	
Fire and Rescue Station ³	575	--	TSF	29%	71%	0.48	29%	71%	0.48	4.80	
Government Office Building	730	--	TSF	75%	25%	3.34	25%	75%	1.71	22.59	
Proposed Project Trip Generation (New and Expanded Buildings)											
County Juvenile Hall	223	75	DU	11	27	38	21	14	35	361	
Food Bank	223	14	DU	2	5	7	4	2	6	67	
Site btwn Page & Fire	223	18	DU	3	6	9	5	3	8	87	
New Fire Station	575	8.000	TSF	1	3	4	1	3	4	38	
New Coroner's Office	730	6.000	TSF	15	5	20	3	7	10	136	
Sheriff's Anex	730	3.500	TSF	9	3	12	2	4	6	79	
Proposed Project Trip Generation Sub-Total [A]				41	49	90	36	33	69	768	
Buildings To Be Demolished Trip Generation											
Sheriff Coroner Office Annex	730	0.800	TSF	2	1	3	0	1	1	18	
Sheriff Coroner Storage	730	0.200	TSF	1	0	1	0	0	0	5	
Fire Station 13	575	5.560	TSF	1	2	3	1	2	3	27	
Fire Battalion Chief Office Bunk	575	2.184	TSF	0	1	1	0	1	1	10	
Sheriff's Annex	730	5.074	TSF	13	4	17	2	7	9	115	
Juvenile Hall VE Modular	571	0.720	TSF	0	0	0	0	0	0	3	
Juvenile Hall	571	22.462	TSF	11	4	15	2	9	11	92	
Courtroom Modular	730	2.800	TSF	7	2	9	1	4	5	63	
Buildings To Be Demolished Trip Generation Sub-Total [B]				35	14	49	6	24	30	333	
Total Net Trip Generation [A] - [B]				6	35	41	30	9	39	435	

¹ Source: *ITE Trip Generation Manual* (11th Edition, 2021).

² TSF = Thousand Square Feet

³ ITE Trip Generation Manual does not provide AM Peak Hour or average daily trip generation rates for ITE Land Use 575. As such, the AM peak hour trip generation rates was assumed to be equivalent to the PM peak hour trip generation rates. The average daily trip generation rate was calculated by increasing the PM peak hour generator by tenfold.

Table 6
Proposed Project Trip Generation - Summary¹
Calle Real Campus Master Plan

Campus	Weekday						
	AM Peak Hour			PM Peak Hour			Daily
	In	Out	Total	In	Out	Total	
Proposed Project Trip Generation (New and Expanded Buildings)							
Public Safety	69	23	92	12	35	47	624
County Yards	110	35	145	28	66	94	1,048
Health and Government Center	954	326	1,280	237	630	867	10,584
Jail	53	17	70	9	27	36	477
Community Services	41	49	90	36	33	69	768
Proposed Project Trip Generation Sub-Total [A]	1,227	450	1,677	322	791	1,113	13,501
Buildings To Be Demolished Trip Generation							
Public Safety	34	11	45	6	17	23	308
County Yards	102	32	134	18	51	69	913
Health and Government Center	508	164	672	93	272	365	4,680
Jail	1	0	1	0	1	1	12
Community Services	35	14	49	6	24	30	333
Buildings To Be Demolished Trip Generation Sub-Total [B]	680	221	901	123	365	488	6,246
Total Net Trip Generation [A] - [B]	547	229	776	199	426	625	7,255

¹ Source: *ITE Trip Generation Manual* (11th Edition, 2021).

² TSF = Thousand Square Feet