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December 19, 2018

Tim Seibert Nor'wood Development Group 111 South Tejon Street, Suite 222 Colorado Springs, CO 80903

> RE: Wolf Ranch Master Plan Amendment Colorado Springs, CO Trip Generation Technical Memorandum LSC #184590

Dear Tim:

LSC Transportation Consultants, Inc. has prepared this trip generation technical memorandum for the proposed amendment to the Wolf Ranch Master Plan. Wolf Ranch is located in northeastern Colorado Springs, Colorado. The original Wolf Ranch Master Plan traffic study by LSC was dated April 13, 2001. Updates to that study were completed by LSC August 15, 2005 and July 3, 2013. This report presents the currently proposed land use changes to the approved Wolf Ranch Plan and resulting changes in estimated trip generation.

LAND USE AND ACCESS

The approved Wolf Ranch Master Plan and the currently proposed amendment are attached. As shown on the plan Wolf Ranch is planned to continue to be a primarily residential community consisting of a mix of residential densities, schools, parks, and open space. Retail uses are no longer planned to be included in Wolf Ranch.

Table 1 shows a comparison of the land uses assumed in the original Master Plan traffic impact study (TIS) and the latest transportation memorandum completed in 2013. In the original TIS, Wolf Ranch was divided into detailed traffic analysis zones (TAZs) based on the land uses and natural divisions such as streets and streams. A copy of the traffic analysis zone map from that report has been attached. Due to changes in the Master Plan many of these TAZ boundaries do not correlate well with the most current amendment. The master plan has been broken down into more general traffic analysis zones as shown in the attached map. Table 1 shows which of the TAZs from the original TIS are included within these larger analysis zones.

As shown in Table 1 there has been an overall reduction in the number of residential uses from 7,861 units assumed in 2001 to 7,404 in the currently proposed amendment. The number of units in the west area of the site, most have which have already been developed, represent a general decrease from what was assumed in the 2001 study while the number of units shown on the current plan amendment in the east and north portions of the site generally represent increases compared to the 2001 study. A retail center previously shown northeast of Research Parkway and Powers Boulevard and all the "Mixed Use" zones have been replaced with residential uses.

TRIP GENERATION

The trip generation estimate for the Wolf Ranch Master Plan Amendment is based on nationally published trip generation rates from Trip Generation, 10th Edition, 2017 by the Institute of Transportation Engineers (ITE). Table 2 shows the results of the trip generation. Table 2 also shows the trip generation estimate from the original Wolf Ranch Master Plan traffic study dated April 13, 2001 and the transportation memorandum dated July 3, 2013 for comparison.

As shown on Table 2, overall the projected number of vehicle-trips on the average weekday to be generated by the land uses within the Wolf Ranch Master Plan has been reduced by about 11,855 trips per day from what was assumed in the original Wolf Ranch Master Plan traffic study. Although there is an overall reduction in the number of vehicle-trips projected, the distribution of trip origin within the master plan areas/TAZs has changed with a general reduction in the number of trips generated by the land uses in the west area of the site and an increase in the number of trips projected to be generated by the land uses in the east and north areas of the site.

The traffic analysis zone with the most significant increase in the projected number of vehicle-trips generated by land uses compared to what was assumed in the original study is TAZ 1, which is located north of Briargate Parkway. The number of vehicle-trips per day for this area increased by about 4,667 vehicle-trips per day. The projected number of vehicle-trips generated by land uses within TAZs 4 and 5 located south of Research Parkway increased by a small amount above what was assumed in the original study.

Please contact me if you have any questions regarding this report.

Respectfully submitted,

LSC TRANSPORTATION CONSULTANTS, INC.

By: Jeffrey C. Hodsdon, P.E., PTOE

JCH:KDF:bjwb

Principal

Enclosures: Tables 1 and 2

> Approved Wolf Ranch Master Plan **Currently Proposed Amendment** Previous TAZ Map (Figure 3)

TAZ Map

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	56 58 59 Z 5: Sout 54 55 Z 6: Nort	h of Research 100.96 57.94 17.55 Im In In A h of Research 82.9 27.23 h of Cowpok 41.79 TOTAL Mixed Im A Mixed	B IMP. SF IMP. MF B ID. Single Family ID. Multi-Family ILL RESIDENTIAL C RA1 A2 B B/C C C C/D D E Use Residential ID. Single Family ID. Multi-Family ID. School Use Commercial	222 DU 127 DU 352 DU 222 DU 127 DU 701 DU 241 DU 86 236 1,882 0 3,603 0 15 152 804 760 222 127 7,872 3,950 127	57.94 17.55 Imp Imp Al 83.48 25.47 41.79 TOTAL	IMP. MF B p. Single Family p. Multi-Family LL RESIDENTIAL K-12 Sch C A1 A2 B B/C C C C Use Residential p. Single Family p. Multi-Family LL RESIDENTIAL	265 222 127 614 2950 147 241 86 153 1,894 102 2,674 319 804 760 222 127 7,459 3,950 127	DU D	Im A 83.83 18.84 IMP. SIN TOTAL Mixed Im A Mixed Um	o. Single Family p. Multi-Family LL RESIDENTIAL K-12 Sch D GGLE FAMILY A1 A2 B B/C C C C D D Use Residential o. Single Family p. Multi-Family LL RESIDENTIAL School	133 0 0 1,069 0 1,848 281 912 427 0 2,395 472 7,404 3,950 0	DU Students DU DU DU DU DU DU DU DU DU DU
Source: Wolf Ranch Master Plan Amendment Updated Traffic Impact Analysisby LSC July 3, 2013	Z 5: Souti 54 55 Z 6: Norti 57	h of Research 100.96 57.94 17.55 Im In A h of Research 82.9 27.23 h of Cowpok 41.79 TOTAL Mixed Im In A Mixed Im In A	B IMP. SF IMP. MF B ID. Single Family ID. Multi-Family ILL RESIDENTIAL C RA1 A2 B B/C C C C C C D D USE RESidential ID. Single Family ID. Multi-Family ILL RESIDENTIAL School Use Commercial	222 DU 127 DU 352 DU 222 DU 127 DU 701 DU 241 DU 86 236 1,882 0 3,603 0 152 804 760 222 127 7,872 3,950 127 3,107	57.94 17.55 Imp Imp All 83.48 25.47 41.79 TOTAL Mixed U Neigborhoo	IMP. MF B p. Single Family p. Multi-Family LL RESIDENTIAL K-12 Sch C A1 A2 B B/C C C C Use Residential p. Single Family p. Multi-Family LL RESIDENTIAL	265 222 127 614 2950 147 241 86 153 1,894 102 2,674 319 804 760 222 127 7,459 3,950 127	DU D	Im A 83.83 18.84 IMP. SIN TOTAL Mixed Im A Mixed Um	o. Single Family p. Multi-Family LL RESIDENTIAL K-12 Sch D GGLE FAMILY A1 A2 B B/C C C C D D Use Residential o. Single Family p. Multi-Family LL RESIDENTIAL School	133 0 0 1,069 0 1,848 281 912 427 0 2,395 472 7,404 3,950 0	DU Students DU DU DU DU DU DU DU DU DU DU

Page				Trip Generatio		and Com	•							
Temper methods of the path of		Land		Trip Generation Rates ⁽¹⁾					Average	Total Trips Gene Morning			rnoon	
Note the proposed the length of the proposed share of the propos	Zone	Use	Land Use Description	Generation	Weekday	Peak Hour		Peak Hour		Weekday	Peak Hour		Afternoon Peak Hour In Out	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			· · · · · · · · · · · · · · · · · · ·											
Mathematical Part	TA7 1: North of Briangate		- ,									1,212	1,362	800
Part	TAZ 1. NOITH OF Briangate											42 154	42 41	24 44
1908 1909									Subtotal	22,426	597	1,408 239	1,445 229	868 148
Mathematic								-				289	287	180
Mathematic	TAZ 2: Datuman Danasah	210	Single-Family Detached Housing	1271 DU	9.44	0.19	0.56	0.62	0.37	11.998	235	705	793	466
Solar 14												180	180	105
Mathematical Registry Part Par	·		·									154	41	44
## 1968 Part	·	411	Public Park	74 Acres	0.78	0.01	0.01	0.06				1 1,040	4 1,018	619
Mathematic Properties 1								_				-769 -493	-1,309 -847	-1,095 -740
## Separation protection protection of the prot								Change iro	JIII 2013 113	-15,502	-293	-495	-047	-740
Section Sect			- · ·									687	772	453
The content of the			· ·									394 34	392 9	230 10
24.4 Sauth at Recent 1909 190									Subtotal	20,027	387	1,115 24	1,173 -86	693 -109
Seminary servers at mile Seminary Horizon Seminary Seminary Seminary Seminary S								_				4	-100	-109
Part	TAZ 4: South of Research	210	Single-Family Netached Housing	487 DII	9.44	0.10	0.56	0.62	0.37	4 507	90	270	304	178
Table Tab	· ·											45	45	26
## 25 Saich of Fotoward Act of the Parkey and Early flower (Personal Case) of the Parkey and Early flower (Personal Ca	open opace		,					Change fro				315 -60	349 -67	204 -39
Montany House Montany Hous								_				-50	-2	-39 2
Part	TAZ 5: South of Research	220	Multifamily Housing /Low Riso	226 DII	7 22	0.11	0.25	0.25	0.21	1 654	24	80	80	47
TAGE North Of Coupons Part September Part Par	•											455	199	259
TAZ 6 North Of Cowards 21	open space							Change fre				535 -8	279	306
## Company No.								-				-8 -3	-20 -13	-12 -7
Map	TAZ 6: North of Cownoke	210	Circle Family Detached Herring	122 DU	0.44	0.10	0.56	0.63	0.27	1.256	25	74	02	40
Mathematical Part	TAZ 0. NOTHI OF COWPORE	210	Single-Family Detached Housing	133 DU	9.44	0.19	0.56					74 -62	83 -70	49 -41
## Parking Pa								Change fro	om 2013 TIS	-1,038	-20	-62	-69	-40
## Marker Plan Update by LSC August 15, 2005 ## Ta21: North of Briurgate 20												4,487	4,347	2,739
March Marc								_				-636 -270	-1,323 -744	-1,148 -722
TAZ 1: North of Brisney Fig. Single-Family Detached Housing 1907 DU 1.29 0.29 0.19 0.60 0.01 0.64 0.37 18.25 3.88 1.66	Wolf Panch Master Pl	an Unda	ate by ISC August 15, 2005											
TAZ 1: North of Riningrate 50 Rementary School Son DOD 1.50 D. 0.00 D. 0	won kunch waster Fit	-	· -	1907 DU	9.57	0.19	0.56	0.64	0.37	18,253	358	1,073	1,214	713
TAZ 2: Between Rosearch Parkway Fast of the Open Space Park Space	TAZ 1: North of Briargate		, ,									95	1	5
TAZ 2: Between Research Fair Park		411	City Park	5 Acres	1.59	0.37	0.15	0.21				1 160	1 216	2
March Marc									Subtotal	18,906	4/6	1,169	1,216	720
Parkway was did firingsize Sol Elementary School Sol		210	Single-Family Detached Housing	1812 DU	9.57	0.19	0.56	0.64	0.37	17,339	340	1,019	1,153	677
Parkway West of the Open Space			•									467	461	248
Space Spac	Parkway West of the Open		·									95 26	1 36	5 67
TAZ 3: Between Research 210 Single-Family Detached Housing 1337 DU 9.57 0.19 0.56 0.64 0.37 12,798 251	Space		Retail/Restaurants/Hotel ⁽⁴⁾	4 Acres	882.94	29.17	26.36	44.08	44.09	3,532	117	105	176	176
Parkway and Briangate 20 Single-Family Detached Housing 1337 DU 9.57 0.19 0.56 0.64 0.37 12,798 251		820	Shopping Center	216 KSF ⁽⁵⁾	51.88	0.70	0.45	2.31				97 1,809	499 2,327	541 1,714
Parkway and Briangate 20														,
Parkway East of the Open Space 411 City Park 5 Acres 82.94 29.17 26.36 40.8 44.09 3.332 178												752	851	500
Parkway and West of the Open Space 20 Single-Family Detached Housing Open Space 21 22 Single-Family Detached Housing Open Space 22 Single-Family Detached Housing Open Space 22 Single-Family Detached Housing Open Space 23 Single-Family Detached Housing Open Space 23 Single-Family Detached Housing Open Space 24 Open Space 24 Open Space 25 Open Space			•									233 1	231 1	124 2
TAZ 4: South of Research Open Space 210 Single-Family Detached Housing Open Space 220 Apartment 127 DU 6.72 0.10 0.41 0.40 0.22 833 13 13 13 13 15 127 DU 0.72 0.10 0.41 0.40 0.22 833 13 13 127 DU 0.72 0.10 0.41 0.40 0.22 833 13 13 14 127 DU 0.72 0.10 0.41 0.40 0.22 833 13 13 14 127 DU 0.72 0.10 0.41 0.40 0.22 833 13 13 14 127 DU 0.72 0.10 0.41 0.40 0.22 833 13 13 14 127 DU 0.72 0.10 0.60 0.64 0.37 0.10 0.50 0.64 0.37 0.50 0.65 0.63 0.37 0.50 0.64 0.37 0.50 0.64 0.37 0.50 0.64 0.37 0.50 0.64 0.37 0.50 0.64 0.37 0.50 0.64 0.37 0.50 0.64 0.37 0.50 0.64 0.37 0.50 0.64 0.37 0.50 0.65 0.63 0.37 0.55 0.63 0.37 0.55 0.63 0.37 0.55 0.63 0.37 0.55 0.63 0.37 0.55 0.63 0.37 0.55 0.63 0.37 0.55 0.63 0.37 0.55 0.65 0	Space											105	176	176
Parkway and West of the Open Space 220 Apartment 127 DU									Subtotal	20,183	428	1,091	1,259	802
Parkway and Early Park		210	Single-Family Detached Housing	574 DU	9.57	0.19	0.56	0.64	0.37	5,497	108	323	365	215
TAZ 5: South of Research Parkway and East of the Open Space 210 Single-Family Detached Housing Parkway and East of the Open Space 210 Single-Family Detached Housing 241 DU 9.57 0.19 0.56 0.64 0.37 2.307 4.318 2.808	· ·	220	Apartment	127 DU	6.72	0.10	0.41	0.40	0.22	853	13	52	51	28
Parkway and East of the Open Space K-12 School K-12 Sc									Subtotal	6,350	121	375	416	243
TAZ 2: Between Research Parkway and Briargate Parkway Substantian Space According According Space		210	Single-Family Detached Housing	157 DU	9.57	0.19	0.56	0.64	0.37	1,503	29	88	100	59
TAZ 6: North of Cowpoke 210 Single-Family Detached Housing 241 DU 9.57 0.19 0.56 0.64 0.37 2,307 45 ***TOTAL** 94,344 2,804 ***Wolf Ranch Master Plan Ameriment Updated Traffic Impact Analysis by LSC July 3, 2013** ***TOTAL** 94,344 2,804 ***Wolf Ranch Master Plan Ameriment Updated Traffic Impact Analysis by LSC July 3, 2013** ***TOTAL** 94,344 2,804 ***Wolf Ranch Master Plan Ameriment Updated Traffic Impact Analysis by LSC July 3, 2013** ***TOTAL** 94,344 2,804 ***Wolf Ranch Master Plan Ameriment Updated Traffic Impact Analysis by LSC July 3, 2013** ***TOTAL** 94,344 2,804 ***TOTAL** 94,344 2,904 ***TOT			K-12 School ⁽³⁾	2950 Students	1.50	0.27	0.15	0.07				455	199	259
Molf Ranch Master Plan Ament Updated Traffic Impact Analysis by LSC July 3, 2013 TOTAL 94,344 2,804									Subtotal	5,921	829	543	299	318
March Master Plan	TAZ 6: North of Cowpoke	210	Single-Family Detached Housing	241 DU	9.57	0.19	0.56	0.64	0.37	2,307	45	136	153	90
TAZ 1: North of Briargate Parkway West of the Open Space TAZ 3: Between Research Parkway and Briargate Parkway Gasto Residential Condominium/Townhouse Space Parkway and Briargate Parkway and Briargate Parkway Bast of the Open Space TAZ 2: Between Research Parkway and Briargate Parkway Bast of the Open Space TAZ 3: Between Research Parkway and Briargate Parkway and Briargate Parkway Bast of the Open Space TAZ 3: Between Research Parkway and Briargate Parkway Bast of the Open Space TAZ 4: South of Research Parkway and Briargate Parkway Bast of the Open Space TAZ 4: South of Research Parkway and Briargate Parkway Bast of the Open Space TAZ 4: South of Research Parkway East of the Open Space TAZ 5: Between Research Parkway and Briargate Parkway East of the Open Space TAZ 5: Between Research Parkway and Briargate Parkway Bast of the Open Space TAZ 5: Between Research Parkway and Briargate Parkway East of the Open Space TAZ 6: Single-Family Detached Housing Parkway East of the Open Space TAZ 6: Single-Family Detached Housing Parkway East of the Open Space TAZ 5: Between Research Parkway and Briargate Parkway East of the Open Space TAZ 6: Single-Family Detached Housing Parkway East of the Open Space TAZ 6: Single-Family Detached Housing Parkway East of the Open Space TAZ 6: Single-Family Detached Housing Parkway East of the Open Space TAZ 6: Single-Family Detached Housing Parkway East of the Open Space TAZ 6: Single-Family Detached Housing Parkway East of the Open Space TAZ 6: Single-Family Detached Housing Parkway East of the Open Space TAZ 6: Single-Family Detached Housing Parkway East of the Open Space TAZ 6: Single-Family Detached Housing Parkway East of the Open Space TAZ 6: Single-Family Detached Housing Parkway East of the Open Space TAZ 6: South of Research Parkway East of the Open Space TAZ 6: Single-Family Detached Housing Parkway East of the Open Space TAZ 6: South of Research Parkway East of the Open Space TAZ 6: South of Research Parkway East of Housing Parkway East of Housing									TOTAL	94,344	2,804	5,123	5,670	3,887
TAZ 1: North of Briargate	Wolf Ranch Master Pl				•									
Subtotal												901 116	1,009 111	593 55
TAZ 2: Between Research Parkway and Briargate Space	TAZ 1: North of Briargate											101	37	38
TAZ 2: Between Research Parkway and Briargate Parkway East of the Open Space 210 Single-Family Detached Housing 1281 DU 9.52 0.19 0.56 0.63 0.37 12,195 240 101 101 101 101 101 101 101 101 101 1			·							10		1	1	2
TAZ 2: Between Research Parkway and Briargate Parkway Mest of the Open Space									Subtotal	17,759	450	1,119	1,158	688
TAZ 2: Between Research Parkway wand Briargate Parkway West of the Open Space		210	Single-Family Detached Housing	1281 DU	9.52	0.19	0.56	0.63	0.37	12,195	240	721	807	474
Parkway and Briargate Parkway West of the Open Space 411 City Park 156 Acres 1.89 0.37 0.15 0.21 0.38 294 57 Retail/Restaurants/Hotel 4 Acres 882.94 29.17 26.36 44.08 44.09 3,532 117 820 Shopping Center TAZ 3: Between Research Parkway and Briargate Parkway and Briargate Parkway and Briargate Parkway and Briargate Parkway East of the Open Space 411 City Park 500 Single-Family Detached Housing 572 DU 572 DU 573 Co.59 0.20 0.07 0.08 645 124 574 Co.59 0.21 0.38 294 57 575 Co.59 0.20 0.07 0.08 645 124 575 Co.20 0.07 0.08 645 124 576 Co.20 0.07 0.08 645 124 576 Co.20 0.07 0.08 645 124 577 Co.20 0.09 0.05 0.01 0.02 0.08 0.08 0.08 0.09 0.09 0.09 0.09 0.09	TA7 2: Potwoon Possarch	220	Apartment	992 DU	6.65	0.10	0.41	0.40	0.22	6,597	101	405	400	215
Space 411 City Park 156 Acres 1.89 0.37 0.15 0.21 0.38 294 57	Parkway and Briargate											116	111	55
Retail/Restaurants/Hotel 4 Acres 882.94 29.17 26.36 44.08 44.09 3,532 117 820 Shopping Center 107 KSF 66.21 0.94 0.58 2.81 3.17 7,118 101 Subtotal 32,229 764 TAZ 3: Between Research Parkway and Briargate 220 Apartment 572 DU 6.65 0.10 0.41 0.40 0.22 3,804 58 Parkway East of the Open Space 411 City Park 5 Acres 1.89 0.37 0.15 0.21 0.38 10 2 Subtotal 5 Acres 1.89 0.37 0.15 0.21 0.38 10 2 Subtotal 5 Acres 1.89 0.37 0.15 0.21 0.38 10 2 Subtotal 5 Acres 1.89 0.37 0.15 0.21 0.38 10 2 Subtotal 5 Acres 1.89 0.37 0.15 0.21 0.38 10 2 Subtotal 5 Acres 1.89 0.37 0.15 0.21 0.38 10 2 Subtotal 5 Acres 1.89 0.37 0.15 0.21 0.38 10 2 Subtotal 5 Acres 1.89 0.37 0.15 0.21 0.38 10 2 Subtotal 5 Acres 1.89 0.37 0.15 0.21 0.38 10 2 Subtotal 5 Acres 1.89 0.37 0.15 0.21 0.38 10 2 Subtotal 5 Acres 1.89 0.37 0.15 0.21 0.38 10 2 Subtotal 5 Acres 1.89 0.37 0.15 0.21 0.38 10 2 Subtotal 5 Acres 1.89 0.37 0.15 0.21 0.38 10 2 Subtotal 5 Acres 1.89 0.37 0.15 0.21 0.38 10 3 Subtotal 5 Acres 1.89 0.37 0.15 0.21 0.38 10 2 Subtotal 5 Acres 1.89 0.37 0.15 0.21 0.38 10 2 Subtotal 5 Acres 1.89 0.37 0.15 0.21 0.38 10 2 Subtotal 5 Acres 1.89 0.37 0.15 0.21 0.38 10 3 Subtotal 5 Acres 1.89 0.37 0.15 0.21 0.38 10 3 Subtotal 5 Acres 1.89 0.37 0.15 0.21 0.38 10 3 Subtotal 5 Acres 1.89 0.37 0.15 0.21 0.38 10 3 Subtotal 5 Acres 1.89 0.37 0.15 0.21 0.38 10 3 Subtotal 5 Acres 1.89 0.37 0.15 0.21 0.38 10 3 Subtotal 5 Acres 1.89 0.37 0.15 0.21 0.38 10 3 Subtotal 5 Acres 1.89 0.37 0.15 0.21 0.38 10 3 Subtotal 5 Acres 1.89 0.37 0.15 0.21 0.38 10 3 Subtotal 5 Acres 1.89 0.37 0.15 0.21 0.38 10 3 Subtotal 5 Acres 1.89 0.37 0.15 0.21 0.38 10 3 Subtotal 5 Acres 1.89 0.37 0.15 0.21 0.38 10 3 Subtotal 5 Acres 1.89 0.37 0.15 0.21 0.38 10 3 Subtotal 5 Acres 1.89 0.37 0.15 0.21 0.38 10 3 Subtotal 5 Acres 1.89 0.37 0.15 0.21 0.38 10 3 Subtotal 5 Acres 1.89 0.37 0.15 0.21 0.38 10 3 Subtotal 5 Acres 1.89 0.37 0.15 0.21 0.38 10 3 Subtotal 5 Acres 1.89 0.37 0.15 0.21 0.38 10 Subtotal 5 Acres 1.89 0.39 0.37 0.15 0.21 0.38 10 Subtotal 5 Acres 1.89 0.39 0.37 0.15 0.21 0.38 10 Sub	·											101 23	37 32	38 60
TAZ 3: Between Research Parkway and Briargate Space 220 Apartment 572 DU 6.65 0.10 0.41 0.40 0.22 3,804 58 Parkway East of the Open Space 411 City Park 5 Acres 1.89 0.37 0.15 0.21 0.38 10 2 Retail/Restaurants/Hotel 4 Acres 882.94 29.17 26.36 44.08 44.09 3,532 117 Subtotal 20,417 434 TAZ 4: South of Research 210 Single-Family Detached Housing 487 DU 9.52 0.19 0.56 0.63 0.37 4.636 91												105	176	176
TAZ 3: Between Research Parkway and Briargate Parkway East of the Open Space Parkway East of the Open Space 210 Single-Family Detached Housing 1373 DU 9.52 0.19 0.56 0.63 0.37 13,071 257 0.00 0.41 0.40 0.22 3,804 58 0.00 0.41 0.40 0.22 3,804 58 0.00 0.41 0.40 0.22 3,804 58 0.00 0.41 0.40 0.22 0.41 0.40 0.40 0.22 0.41 0.40 0.40 0.40 0.40 0.40 0.40 0.40		820	Shopping Center	107 KSF	66.21	0.94	0.58	2.81				62 1,533	302 1,865	341 1,359
Parkway East of the Open Space 220 Apartment 572 DU 6.65 0.10 0.41 0.40 0.22 3,804 58 Parkway East of the Open Space 411 City Park 5 Acres 1.89 0.37 0.15 0.21 0.38 10 2 Space Retail/Restaurants/Hotel 4 Acres 882.94 29.17 26.36 44.08 44.09 3,532 117 TAZ 4: South of Research 210 Single-Family Detached Housing 487 DU 9.52 0.19 0.56 0.63 0.37 4,636 91										,		,	,	,
Parkway East of the Open Space 411 City Park 5 Acres 1.89 0.37 0.15 0.21 0.38 10 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			, ,									772	865 231	508
Space Retail/Restaurants/Hotel 4 Acres 882.94 29.17 26.36 44.08 44.09 3,532 117 Subtotal 20,417 434 TAZ 4: South of Research 210 Single-Family Detached Housing 487 DU 9.52 0.19 0.56 0.63 0.37 4,636 91	Parkway East of the Open		·									233 1	231 1	124 2
TAZ 4: South of Research 210 Single-Family Detached Housing 487 DU 9.52 0.19 0.56 0.63 0.37 4.636 91	Space		•						44.09	3,532	117	105	176	176
210 Single-raining betached housing 467 DO 957 (179 (156 (167 (177 4,030 31									Subtotal	20,417	434	1,111	1,273	810
PAIKWAY AUGUVEST OF THE	TAZ 4: South of Research Parkway and West of the	210	Single-Family Detached Housing	487 DU	9.52	0.19	0.56	0.63	0.37	4,636	91	274	307	180
Open Space 230 Residential Condominium/Townhousε 127 DU 5.81 0.07 0.37 0.35 0.17 <u>738</u> 9	•	230	Residential Condominium/Townhouse	127 DU	5.81	0.07	0.37	0.35	0.17	738		46	44	22
Subtotal 5,374 100									Subtotal	5,374	100	320	351	202
TAZ 5: South of Research Parkway and East of the 210 Single-Family Detached Housing 147 DU 9.52 0.19 0.56 0.63 0.37 1,399 28		210	Single-Family Detached Housing	147 DU	9.52	0.19	0.56	0.63	0.37	1,399	28	83	93	54
Parkway and East of the Open Space K-12 School 2950 Students 1.50 0.27 0.15 0.07 0.09 <u>4,418 800</u>	•		, ,						0.09	4,418	800	455	199	259
Subtotal 5,817 828									Subtotal	5,817	828	538	292	313
TAZ 6: North of Cowpoke 210 Single-Family Detached Housing 241 DU 9.52 0.19 0.56 0.63 0.37 2,294 45	TAZ 6: North of Cowpoke	210	Single-Family Detached Housing	241 DU	9.52	0.19	0.56	0.63	0.37	2,294	45	136	152	89
TOTAL 83,890 2,621									TOTAL	83.890	2.621	4,757	5,091	3,461

Notes:

(1) 2005 TIS Source: "Trip Generation," Institute of Transportation Engineers, 7th ed., 2003.
2013 TIS Source: "Trip Generation," Institute of Transportation Engineers, 9th ed., 2012.
Current Source: "Trip Generation," Institute of Transportation Engineers, 10th ed., 2017.

(2) DU = dwelling units
(3) Trip generation rates based on the transportation study for the Science Canyon Campus prepared by Radix Engineering, Inc.
(4) Trip generation rates estimates by LSC
(5) KSF = thousand square feet
Source: LSC Transportation Consultants, Inc.







