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Sterling Ranch East
Filing Nos. 1 and 2
PCD File Nos. SF-22-035 and SF-22-037
Traffic Technical Memorandum
(LSC #S224570)
February 10, 2023

Traffic Engineer's Statement

This traffic report and supporting information were prepared under my responsible charge and they comport with the standard of care. So far as is consistent with the standard of care, said report was prepared in general conformance with the criteria established by the County for traffic reports.



Developer's Statement

i, the Developer, have read and w	comply with all commitments made on my	/ behalf within this report
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Date

Sterling Ranch East Filing Nos. 1 & 2 Traffic Technical Memorandum

Prepared for:

Loren J. Moreland Vice President/ Project Manager Classic SRJ 2138 Flying Horse Club Drive Colorado Springs, CO 80921

FEBRUARY 10, 2023

LSC Transportation Consultants
Prepared by: Kirstin D. Ferrin, P.E.
Reviewed by: Jeffrey C. Hodsdon, P.E.

LSC #S224570 PCD File Nos. SF-22-035 and SF-22-037



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Tables 5 and 6 from *Sterling Ranch East Rezoning and Preliminary Plan TIS* with notes by LSC



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February 10, 2023

Mr. Loren J. Moreland Vice President/ Project Manager Classic SRJ 2138 Flying Horse Club Drive Colorado Springs, CO 80921

RE: Sterling Ranch East Filing

Nos. 1 & 2

El Paso County, CO

Traffic Technical Memorandum

PCD File Nos. SF-22-035 and SF-22-037

LSC #S224570

Dear Mr. Moreland:

LSC Transportation Consultants, Inc. has prepared this traffic technical memorandum for the Sterling Ranch East Filing Nos. 1 and 2 residential development. As shown in Figure 1, the sites for these two subdivision filings are located west of the future extension of Sterling Ranch Road in El Paso County, Colorado. LSC recently prepared a traffic impact study (TIS) for the Sterling Ranch East Rezoning and Preliminary Plan (SP224) that included trips by the currently-proposed filings. This memorandum is intended as a site-specific, final plat traffic report for Sterling Ranch East Filing No. 1 and Filing No. 2.

REPORT CONTENTS

This report presents:

- A summary of the proposed land use and access plan;
- The projected average weekday and peak-hour vehicle trips to be generated by the currently proposed filings;
- The assignment of the site-generated traffic volumes to the area roadways;
- The recommended street classifications for the internal streets within these two currently-proposed filings;
- Improvements needed with the currently proposed filings; and
- The project's obligation to the County roadway improvement fee program.



RECENT TRAFFIC REPORTS

- LSC completed an updated master traffic study (TIS) for the entire Sterling Ranch development, dated October 21, 2022.
- LSC prepared a TIS for the Sterling Ranch East Rezoning and Preliminary Plan, November 17, 2022. The currently proposed filings were accounted for within that recent report. Appendix A includes a link to the El Paso County Electronic Development Application Review Program (EDARP) page where a copy of the latest version of the Rezoning and Preliminary Plan TIS can be obtained.
- A list of other traffic studies within Sterling Ranch and in the vicinity of area of study completed within the past five years (that LSC is aware of) is attached for reference (Appendix Table 1).
- El Paso County is currently studying the Briargate Stapleton Corridor as part of a Pikes Peak Rural Transportation Authority (PPRTA) study. A draft version of the Briargate-Stapleton Corridor Study by Wilson & Company was published December 9, 2021.

LAND USE AND ACCESS

Sterling Ranch East Filing 2 is planned to include 42 lots for single-family homes located north of the future extension of Briargate Parkway. Sterling Ranch East Filing 1 is planned to include 294 proposed lots for single-family homes located south of Briargate Parkway. Figure 2 shows the proposed site plan.

A future K-8 school site is located southwest of Briargate Parkway/Sterling Ranch Road. There are currently no details such as building layout, circulation, or number of students available. LSC assumed the future K-8 school would serve 1,100 students and that the site would have two access points to Sterling Ranch Road and a three-quarter movement access to Briargate Parkway. An entrance-only access to Sterling Ranch was assumed just south of Briargate Parkway and an exit-only access was assumed to Sterling Ranch Road that would align with the future Oak Park Drive. The three-quarter movement access to Briargate Parkway was assumed to mostly serve teacher parking and/or a bus loop. A separate site-specific traffic impact study will be required prior to school site development.

Figure 3 shows the roadway connections that are planned to be constructed in the short term. As shown in Figure 3, by 2023 Briargate Parkway is planned to be constructed to its final cross section between Vollmer Road and Wheatland Drive, Marksheffel Road is planned to be completed between Vollmer Road and Woodmen Road, and Sterling Ranch Road is planned to be constructed from Marksheffel Road to Dines Boulevard. With Sterling Ranch East Filing No. 1, Briargate Parkway is planned to be constructed to its final cross section between Wheatland Drive and Sterling Ranch Road and Sterling Ranch Road is planned to be constructed from Dines Boulevard to Idaho Falls Drive.

Three full-movement access points (Westmont Drive, Lake Tahoe Drive, and Newport Beach Drive) are proposed to Sterling Ranch Road, a future Non-Residential Collector south of Briargate Parkway, and one full-movement access (Idaho Falls Drive) is proposed to Sterling Ranch Road north of Briargate. The proposed access spacing is shown in Figure 2. As shown in the figure, all of the access points meet the intersection spacing requirements for an Urban Non-Residential Collector and Urban Local roadways.

An additional three-quarter-movement access (Boulder City Place) is proposed to Briargate Parkway about 1,245 feet east of Wheatland Drive and 1,375 feet west of Sterling Ranch Road. As called out in the Sterling Ranch East Rezoning and Preliminary Plan TIS, this access will require a deviation to the criteria contained in the El Paso County *Engineering Criteria Manual (ECM)*. The *Briargate Parkway-Stapleton Road Corridor Study Appendix D: Access Control Plan* shows the access locations and intersection access restrictions along Briargate Parkway between Black Forest Road and Meridian Road. The access control plan shows a right-in/right-out access point north and south of Briargate Parkway between Wheatland Drive and Sterling Ranch Road. The Master TIS and Sterling Ranch East Rezoning and Preliminary Plan TIS showed two offset three-quarter movement (left-in/right-in/right-out only) access points in this general location. A future three-quarter movement access to be located 160 feet east of the currently proposed Boulder City Place would serve the future planned K-8 school parcel located southwest of the intersection of Briargate/Sterling Ranch.

The currently proposed filings were included in the Sterling Ranch Master TIS as Traffic Analysis Zones (TAZ) 18, 22, and 26. The land use and access currently proposed are consistent with what was assumed in the Master TIS and the Sterling Ranch East Rezoning and TIS.

Intersection Sight Distance

Figure 4a shows a sight-distance analysis at the proposed intersections of Westmont/Sterling Ranch, Lake Tahoe/Sterling Ranch, and Newport Beach/Sterling Ranch. Figure 4b shows a sight-distance analysis at the proposed intersection of Idaho Falls/Sterling Ranch. Based on a design speed of 40 miles per hour (mph) and the criteria contained in Table 2-21 of the *Engineering Criteria Manual (ECM)*, the required intersection sight distance at the future intersections is 445 feet. As shown in Figures 4a and 4b, the proposed intersections to Sterling Ranch Road will meet the criteria.

Figure 4c shows a sight-distance analysis at the proposed three-quarter movement intersection of Boulder City/Briargate. Based on a design speed of 50 miles per hour (mph) and the criteria contained in Table 2-21 of the *Engineering Criteria Manual (ECM)*, the required intersection sight distance at the future intersection is 555 feet. As shown in Figures 4c, the proposed intersection will meet the criteria.

Pedestrian and Bicycle Analysis

Figure 2 also shows the location of all planned trails and sidewalks in the vicinity of the site. Connections are also proposed to the planned future Sand Creek Regional Trail (west of Dines Boulevard), as shown in the attached map.

A detached sidewalk will be provided along the west side of Sterling Ranch Road. The multi-use paved shoulder on Sterling Ranch Road will accommodate bicycles.

There are no existing schools within two miles of the site. However, a K-8 school is planned southwest of the future intersection of Briargate/Sterling Ranch Road and two elementary schools are planned east of Sterling Ranch Road. School crossings will be needed at Briargate/Sterling Ranch and at one or more locations along Sterling Ranch Road between Westmont Drive and Oak Park Drive, depending on the final layout of the school sites.

Safety Analysis

Most of the roadways in the vicinity of the site have not yet been constructed. The Colorado State Patrol (CSP) provided LSC with crash history data for Vollmer Road between Tahiti Drive and Burgess Road from September 2019 through September 2022. During the reported time period, there were twelve reported crashes. Of the twelve reports, ten were single-vehicle non-intersection-related crashes on Vollmer Road. One crash involved a southbound vehicle that turned right onto Poco Road and crashed into several cars parked on Poco Road partially in the lane. The only intersection related crash occurred in June 2022. A vehicle heading northbound on Vollmer Road was slowing to turn left at Lochwinnoch Road and the vehicle behind them attempted to pass on the left side. The crash history data has been attached.

TRIP GENERATION

Sterling Ranch East Filing 2 and Sterling Ranch Filing 1 site-generated vehicle trips have been estimated using the nationally-published trip-generation rates from *Trip Generation*, 11th Edition, 2021 by the Institute of Transportation Engineers (ITE). Table 1 shows the trip-generation estimate. The trip-generation estimate is consistent with the estimate assumed in the Sterling Ranch Master TIS and the Sterling Ranch East Rezoning and Preliminary Plan TIS for the same parcels.

Sterling Ranch East Filing 2 is expected to generate 396 vehicle trips on the average weekday, with about half entering and half exiting the site during a 24-hour period. During the morning peak hour, which generally occurs for one hour between 6:30 and 8:30 a.m., about 8 vehicles would enter and 22 vehicles would exit the site. During the afternoon peak hour, which generally occurs for one hour between 4:15 and 6:15 p.m., about 25 vehicles would enter and 15 vehicles would exit the site.

Sterling Ranch East Filing 1 is expected to generate 2,772 vehicle trips on the average weekday, with about half entering and half exiting the site during a 24-hour period. During the morning peak hour, about 54 vehicles would enter and 152 vehicles would exit the site. During the afternoon peak hour, about 174 vehicles would enter and 102 vehicles would exit the site.

TRIP DISTRIBUTION AND ASSIGNMENT

When the distribution percentages from Figure 8 of the Sterling Ranch East Rezoning and Preliminary Plan TIA are applied to the new, external trip-generation estimates (from Table 1), the resulting site-generated traffic volumes can be determined. Figures 5a and 5b show the short-term residential site-generated traffic volumes. These volumes assume only the street network shown in Figure 3.

TOTAL TRAFFIC VOLUMES AND LEVELS OF SERVICE

Please refer to the short-term and 2042 peak-hour traffic-volume projections and level of service analysis shown in Figures 14c and 15c of the *Sterling Ranch East Rezoning & Preliminary Plan TIS*. The proposed land use and access is in compliance with the Sterling Ranch Master TIS and Sterling Ranch East Rezoning and Preliminary Plan TIS. As such, there are no changes to these projected volumes or level of service results.

SIGNAL WARRANT THRESHOLD ANALYSIS - AM AND PM PEAK HOURS

The intersections of Marksheffel/Vollmer and Marksheffel/Sterling Ranch were analyzed to determine if the thresholds for Four-Hour and/or Eight-Hour Vehicular-Volume Traffic-Signal Warrant thresholds would be reached or exceeded, based on the projected short-term traffic volumes.

The volumes shown are based on the short-term background traffic volumes taken from Figure 6b of the Sterling Ranch East Rezoning and Preliminary Plan TIS and the Sterling Ranch East Filing 1 site-generated traffic volumes shown in Figure 5b of this memorandum. The off-peak-hour volumes are estimates by LSC based on the peak-hour traffic volumes, 72-hour machine counts conducted by LSC on Vollmer Road in November 2020, and vehicle time-of-day distribution data for single-family homes published by the Institute of Transportation Engineers.

Marksheffel/Vollmer

Table 2 shows the results of the analysis for the intersection of Marksheffel/Vollmer. As shown in Table 2, in the short-term only five of the hours analyzed are projected to meet the thresholds for an Eight-Hour Vehicular-Volume Traffic-Signal Warrant and none of the hours analyzed are projected to meet the thresholds for a Four-Hour Vehicular Volume Traffic Signal Warrant. This analysis indicates that traffic-signal warrant(s) will likely **not** be met at the intersection of Marksheffel/Vollmer with buildout of Sterling Ranch East Filing 1.

Marksheffel/Sterling Ranch

Table 3 shows the results of the analysis for the intersection of Marksheffel/Sterling Ranch. As shown in Table 3, in the short-term only six of the hours analyzed are projected to meet the thresholds for an Eight-Hour Vehicular-Volume Traffic-Signal Warrant. In order for this warrant to be met, eight hours need to meet the thresholds. Seven of the hours analyzed are projected to meet the thresholds for a Four-Hour Vehicular Volume Traffic Signal Warrant. This analysis indicates that a Four-Hour Vehicular Volume traffic-signal warrant(s) may be met at the intersection of Marksheffel/Sterling Ranch with buildout of Sterling Ranch East Filing 1. LSC recommends at least eight hours of traffic count volume data be collected at the intersection of Marksheffel/Sterling Ranch following completion of Marksheffel Road between Vollmer Road and Woodmen Road, which is planned to be done in 2023. Once the traffic data is completed traffic-signal warrant analysis can be reanalyzed based on the existing conditions at that time. The decision to require a signal to be installed rests with the County.

SUBDIVISION STREET CLASSIFICATIONS

All of the internal streets within Sterling Ranch East Filing No. 1 and Filing No. 2 should be classified as Urban Local. Figure 6 shows the recommended street classifications for the streets in the vicinity of the site.

DEVIATON REQUESTS

No deviations are requested as part of this submittal. The Boulder City Place connection to Briargate Parkway, along with the Briargate Parkway extension to Sterling Ranch Road, are part of a separate Preliminary Plan and Final Plat and a deviation request will be requested as part of that submission.

ROADWAY IMPROVEMENTS

Tables 5 and 6 from the *Sterling Ranch East Rezoning and Preliminary Plan TIS* contained a summary of needed improvements and recommendations for auxiliary turn-lane lengths. Copies of these tables have been attached with the improvements needed either prior to or with the Sterling Ranch East Filing No. 1/2 highlighted.

The following improvements will be needed with Filing No. 1:

- Convert the intersection of Marksheffel/Vollmer to traffic signal control, once traffic signal warrants are met.
- Construct a 205' northeast-bound left-turn lane plus 160' taper on Sterling Ranch Road approaching Westmont Drive.
- Construct a 225' northeast-bound left-turn lane plus 160' taper on Sterling Ranch Road approaching Lake Tahoe Drive.
- Construct a 205' northeast-bound left-turn lane plus 160' taper on Sterling Ranch Road approaching Newport Beach Drive.

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The following improvement will be needed with Filing No. 1:

- Construct a 285' eastbound left-turn lane plus a 200' taper on Briargate Parkway approaching Boulder City Drive.
- Construct a 435' eastbound left-turn lane plus 200' taper on Briargate Parkway approaching Sterling Ranch Road.
- Construct a 240' northeast-bound left-turn lane plus 160' taper on Sterling Ranch Road approaching Idaho Falls Drive.

ROADWAY IMPROVEMENT FEE PROGRAM

This project will be required to participate in the El Paso County Road Improvement Fee Program. Sterling Ranch East Filing No. 2 and Sterling Ranch Filing 1 will join the five-mil PID. The 2019 five-mil PID building permit fee portion associated with this option is \$2,527per single-family dwelling unit. Based on 42 lots, the total building permit fee for Sterling Ranch East Filing 2 would be \$106,134. Based on 294 lots, the total building permit fee for Sterling Ranch East Filing 1 would be \$742,938. Note: program fees are subject to change.

* * * * *

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

Respectfully Submitted,

LSC TRANSPORTATION CONSULTANTS, INC.

By: Jeffrey C. Hodsdon, P.E.

Principal

JCH/KDF:jas

Enclosures: Tables 1-3

Figures 1-9

Appendix Table 1
Appendix A

Tables 5 and 6 from Sterling Ranch East Rezoning and Preliminary Plan TIS with

notes by LSC

Tables 1-3



Table 1 Trip Generation Estimate Sterling Ranch East Filing Nos.1 and 2

Sketch								Trip	Generation R	ates ⁽¹⁾			Tota	al Trip Gen	erated	
Plan			ITE					AM Pea	ak Hour	PM Pea	ak Hour		AM Pea	ak Hour	PM Pe	ak Hour
TAZ	Filing No.	Location	Code	ITE Land Use	Quantity	Unit	Daily	In	Out	In	Out	Daily	ln	Out	In	Out
			-		1				1					1		$\overline{}$
22 & 26	1	South of Briargate Parkway	210	Single-Family Detached Housing	294	DU	9.43	0.18	0.52	0.59	0.35	2,772	54	152	174	102
18	2	North of Briargate Parkway	210	Single-Family Detached Housing	42	DU ⁽²⁾	9.43	0.18	0.52	0.59	0.35	396	8	22	25	15
					294	DU					<u>.</u>	2,772	54	152	174	102

Notes:

(1) Source: "Trip Generation, 11th Edition, 2021" by the Institute of Transportation Engineers (ITE)

(2) DU = Dwelling Unit

Source: LSC Transportation Consultants, Inc.

Fix totals

Dec-22

Table 2 Traffic Signal Warrant Analysis Marksheffel Road/Vollmer Road

																Morr	ant Analys	io(1)				
												18/	4. Flui		h!! 14-1			15	Warrant		ır Vehicular V	olume
												warr	ant 1: Eigr	it Hour ve	hicular Vol		eshold Me			Evalu		
															W	t?	Short-Term E	ackground	Short-Ter	m Total		
		-Term		Filing 1		s at SRE		e at SRE							Short				Warrant	Warrant	Warrant	Warrant
	Backgroun		Generat	ed Traffic	Generat	ed Traffic	Generate	ed Traffic	Short-Term	Total Traffic		Warrant T			Backg	round	Short-Te	erm Total	Threshold	Threshold	Threshold	Threshold
	Major ⁽³⁾	Minor ⁽⁴⁾	Major	Minor	Major	Minor	Major	Minor	Major	Minor		ition A	Condi	ition B	Condition	Condition	Condition	Condition	Minor	Met?	Minor	Met?
Hour	Vollmer	Marksheffel	Vollmer	Marksheffel	Vollmer	Marksheffel	Vollmer	Marksheffel	Vollmer	Marksheffel	Major	Minor	Major	Minor	Α	В	Α	В	Minimum	WB	Minimum	WB
Short-Term To																						
12-1 AM	53	3	0	0	0	0	0	0	53	3	600	150	900	75	No	No	No	No	Low Volume	No	Low Volume	No
1-2 AM	26	3	0	0	0	0	0	0	26	3	600	150	900	75	No	No	No	No	Low Volume	No	Low Volume	No
2-3 AM	19	0	0	0	0	0	0	0	19	0	600	150	900	75	No	No	No	No	Low Volume	No	Low Volume	No
3-4 AM	28	3	0	0	0	0	0	0	28	3	600	150	900	75	No	No	No	No	Low Volume	No	Low Volume	No
4-5 AM	43	14	0	1	0	0	0	0	43	15	600	150	900	75	No	No	No	No	Low Volume	No	Low Volume	No
5-6 AM	117	34	0	2	0	1	0	0	117	37	600	150	900	75	No	No	No	No	Low Volume	No	Low Volume	No
6-7 AM	347	101	2	5	1	2	0	0	350	108	600	150	900	75	No	No	No	No	Low Volume	No	Low Volume	No
7-8 AM	833	174	3	8	1	3	0	0	837	185	600	150	900	75	Yes	No	Yes	No	192	No	191	No
8-9 AM	931	147	3	7	1	3	0	0	935	157	600	150	900	75	No	Yes	Yes	Yes	167	No	166	No
9-10 AM	805	92	3	4	1	2	0	0	809	98	600	150	900	75	No	No	No	No	199	No	198	No
10-11 AM	935	92	4	4	1	2	0	0	940	98	600	150	900	75	No	Yes	No	Yes	166	No	165	No
11-12 PM	1055	87	5	4	2	2	0	0	1062	93	600	150	900	75	No	Yes	No	Yes	134	No	131	No
12-1 PM	999	51	0	0	5	1	0	0	1004	52	600	150	900	75	No	No	No	No	150	No	149	No
1-2 PM	758	73	15	3	2	2	0	0	775	78	600	150	900	75	No	No	No	No	221	No	213	No
2-3 PM	871	77	5	4	2	2	0	0	878	83	600	150	900	75	No	No	No	No	182	No	181	No
3-4 PM	927	74	6	4	2	2	0	0	935	80	600	150	900	75	No	No	No	Yes	168	No	166	No
4-5 PM	962	93	7	4	3	2	0	0	972	99	600	150	900	75	No	Yes	No	Yes	160	No	157	No
5-6 PM	807	92	9	5	3	2	0	0	819	99	600	150	900	75	No	No	No	No	198	No	195	No
6-7 PM	553	73	9	5	2	2	0	0	564	80	600	150	900	75	No	No	No	No	314	No	308	No
7-8 PM	348	53	7	4	2	1	0	0	357	58	600	150	900	75	No	No	No	No	Low Volume	No	Low Volume	No
8-9 PM	282	38	5	3	2	1	0	0	289	42	600	150	900	75	No	No	No	No	Low Volume	No	Low Volume	No
9-10 PM	180	30	5	2	1	1	0	0	186	33	600	150	900	75	No	No	No	No	Low Volume	No	Low Volume	No
10-11 PM	101	14	4	2	1	0	0	0	106	16	600	150	900	75	No	No	No	No	Low Volume	No	Low Volume	No
11-12 AM	55	9	2	1	0	0	0	0	57	10	600	150	900	75	No	No	No	No	Low Volume	No	Low Volume	No
										Number	of Hours	the Warran	t Threshold	ds Are Me	t 1	4	2	5	J	0	ŀ	0
													Wai	rrant Met	? \	0	N	10		No	ŀ	No
																			•			

- (1) Thresholds are based on 2 or more lanes on the major approach and 1 lane on the minor approach (Warrant evaluation assuming the westbound left turn only for the minor street) (2) Source: Sterling Ranch East Phase 1 Rezoning and Preliminary Plan Traffic Impact Study, November 14, 2022 (3) The major street traffic includes all movements (left, through, and right)

- (4) The minor street traffic includes only the left turns from the minor street
 (5) Off peak hour traffic volumes are based on the projected peak hour traffic volumes, 72-hour machine counts conducted on Vollmer Road in November 2020 and vehicle time-of-day distribution data for single-family residential published by the Institute of Transportation Engineers

Source: LSC Transportation Consultants, Inc. 11/30/22 7:51

Table 3 Traffic Signal Warrant Analysis Marksheffel Road/Sterling Ranch Road

																Warr	ant Analys	is ⁽¹⁾				
												Warı	ant 1: Eigh	nt Hour Ve	hicular Vol	ume Evalu	ation		Warrant	2: Four Hou	ır Vehicular V	olume 'olume
															w	arrant Thr	eshold Me	t?	Short-Term E	Background	Short-Ter	rm Total
	Short-	Torm	SRE F	lim as d	Villages	-4 CDE	4-Square	-4 CDE							Short		0011010 1110	•••	0.1011 101111	Lucity, curra		1
	Background		Generate		Generate		4-Square Generate		Short-Term	Tatal Tuaffia		Warrant T	مامام مام مسما				Chart Ta	erm Total	141	Warrant	18/	Warrant
	Баскугоин	Minor ⁽⁴⁾	Generate		Generate		Generate		Short-Term			warrant i	nresnoias		Баску	round	Short-16	erm rotai	Warrant	Threshold	Warrant	Threshold
	Maior ⁽³⁾	Sterling	Maior	Minor Sterlina	Maior	Minor Sterling	Maior	Minor Sterlina	Maior	Minor Sterling	Cond	ition A	Condi	tion B	Canditian	Canditian	Canditian	Condition	Threshold Minor	Met?	Threshold Minor	Met?
Hour	Marksheffel		Marksheffel		Marksheffel				Marksheffel		Major	Minor	Major	Minor	Condition	B	Condition	B	Minimum	WB	Minimum	WB
Hour	Marksnettei	Ranch	Marksneπei	Ranch	Marksnettei	Ranch	Marksheffel	Ranch	Marksnettei	Ranch	wajor	MILLOL	wajor	MILLOL	Α	В	Α	В	Wilnimum	WD	Wilnimum	VVD
Short-Term To	Short-Term Total Traffic ⁽⁵⁾																					
12-1 AM	47	7	1	22	1	11	1	4	50	44	600	150	900	75	No	No	No	No	Low Volume	No	Low Volume	No
1-2 AM	20	7	1	9	1	5	1	2	23	23	600	150	900	75	No	No	No	No	Low Volume	No	Low Volume	No
2-3 AM	19	0	0	9	0	5	0	2	19	16	600	150	900	75	No	No	No	No	Low Volume	No	Low Volume	No
3-4 AM	21	7	1	9	1	5	1	2	24	23	600	150	900	75	No	No	No	No	Low Volume	No	Low Volume	No
4-5 AM	31	26	4	13	2	7	3	2	40	48	600	150	900	75	No	No	No	No	Low Volume	No	Low Volume	No
5-6 AM	64	65	10	22	6	11	8	4	88	102	600	150	900	75	No	No	No	No	Low Volume	No	Low Volume	No
6-7 AM	193	192	28	69	17	36	24	12	262	309	600	150	900	75	No	No	No	No	Low Volume	No	Low Volume	No
7-8 AM	414	332	49	138	29	72	41	24	533	566	600	150	900	75	No	No	No	No	383	No	324	Yes
8-9 AM 9-10 AM	469 406	280 176	41 26	160	24	83	35 22	28	569 469	551 410	600 600	150 150	900	75	No	No	No	No	356 387	No	306 356	Yes Yes
10-11 AM	406 503	176		138	15	72	22	24		410			900	75	No	No	No	No	387	No	307	Yes
10-11 AM 11-12 PM	616	166	26 25	181 233	15	95 122	22	32 41	566 677	484 562	600 600	150 150	900	75	No Yes	No No	No Yes	No	284	No No	259	Yes
12-1 PM	928	114	25 87	158	15 42	88	42	88	1099	448	600	150	900	75 75	No	Yes	Yes	No Yes	168	No	120	Yes
1-2 PM	415	164	124	53	60	29	60	29	659	275	600	150	900	75	No	No	Yes	No	383	No	266	Yes
2-3 PM	483	172	131	61	63	34	63	34	740	301	600	150	900	75	No	No	Yes	No	349	No	230	Yes
3-4 PM	552	166	126	74	61	41	61	41	800	322	600	150	900	75	No	No	Yes	No	314	No	200	Yes
4-5 PM	636	208	158	92	76	51	76	51	946	402	600	150	900	75	Yes	No	Yes	Yes	276	No	164	Yes
5-6 PM	589	205	156	90	75	50	75	50	895	395	600	150	900	75	No	No	Yes	No	296	No	176	Yes
6-7 PM	460	164	124	75	60	42	60	42	704	323	600	150	900	75	No	No	Yes	No	360	No	248	Yes
7-8 PM	318	119	91	54	44	30	44	30	497	233	600	150	900	75	No	No	No	No	Low Volume	No	342	No
8-9 PM	307	86	65	55	31	31	31	31	434	203	600	150	900	75	No	No	No	No	Low Volume	No	373	No
9-10 PM	214	67	51	39	24	22	24	22	313	150	600	150	900	75	No	No	No	No	Low Volume	No	Low Volume	No
10-11 PM	107	31	23	19	11	11	11	11	152	72	600	150	900	75	No	No	No	No	Low Volume	No	Low Volume	No
11-12 AM	63	19	15	11	7	6	7	6	92	42	600	150	900	75	No	No	No	No	Low Volume	No	Low Volume	No
										Number	s of Hours	the Warrar	t Threshold	s Are Met	2	1	8	2		0		12
													Wai	rrant Met	N	0	Y	es		No		Yes
																			l		Į.	

Notes:

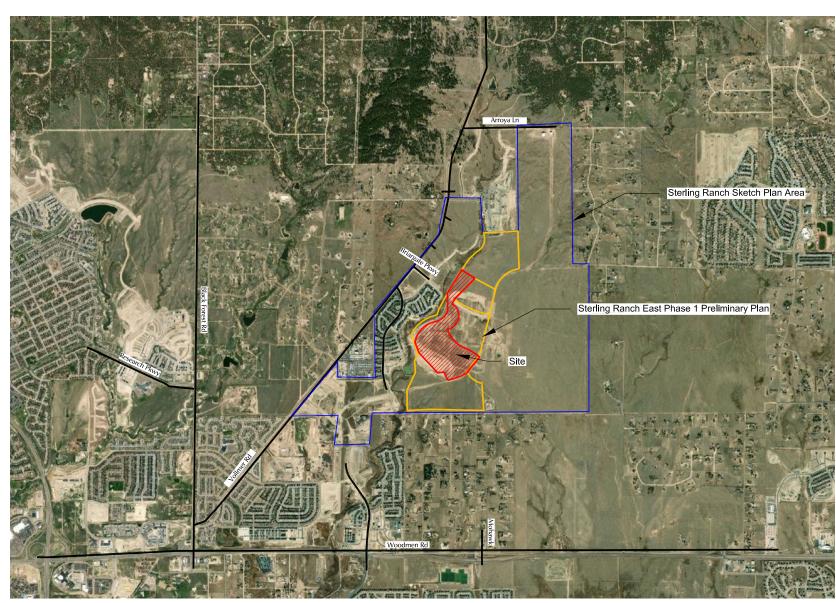
- (1) Thresholds are based on 2 or more lanes on the major approach and 1 lane on the minor approach (Warrant evaluation assuming the southbound left turn only for the minor street)
- (2) Source: Sterling Ranch East Phase 1 Rezoning and Preliminary Plan Traffic Impact Study, November 14, 2022
- (3) The major street traffic includes all movements (left, through, and right)
- (4) The minor street traffic includes only the left turns from the minor street
- (5) Off peak hour traffic volumes are based on the projected peak hour traffic volumes, 72-hour machine counts conducted on Vollmer Road in November 2020 and vehicle time-of-day distribution data for single-family residential published by the Institute of Transportation Engineers

Source: LSC Transportation Consultants, Inc.

11/30/22 7:50

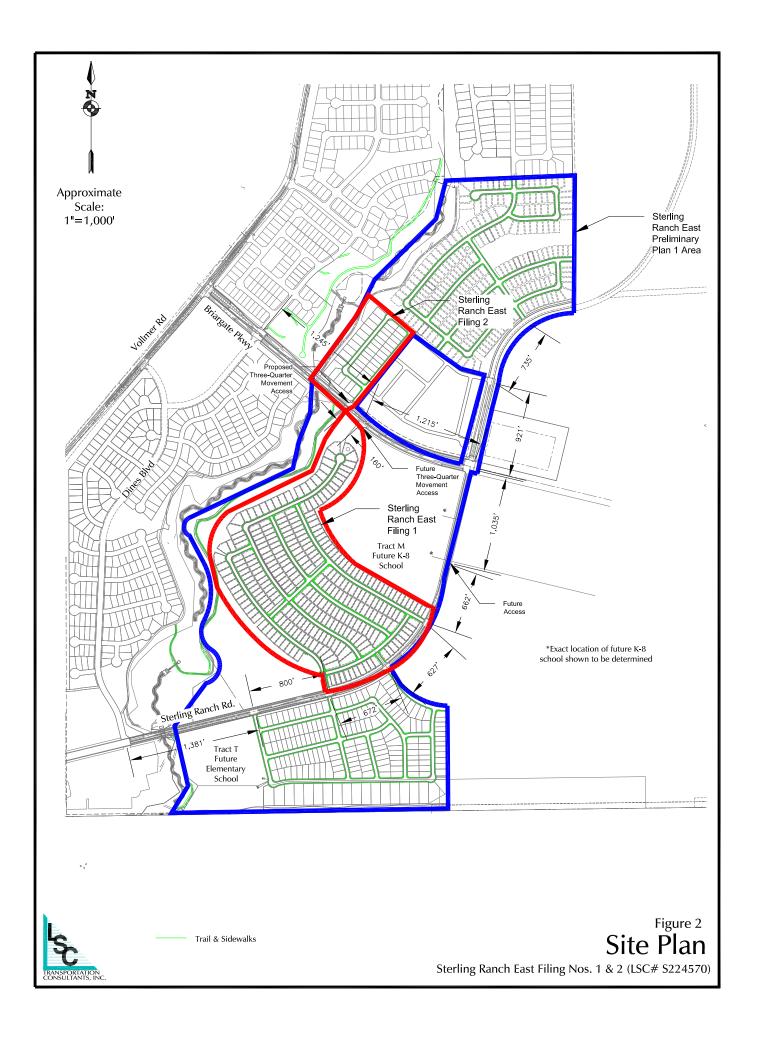
Figures 1-9

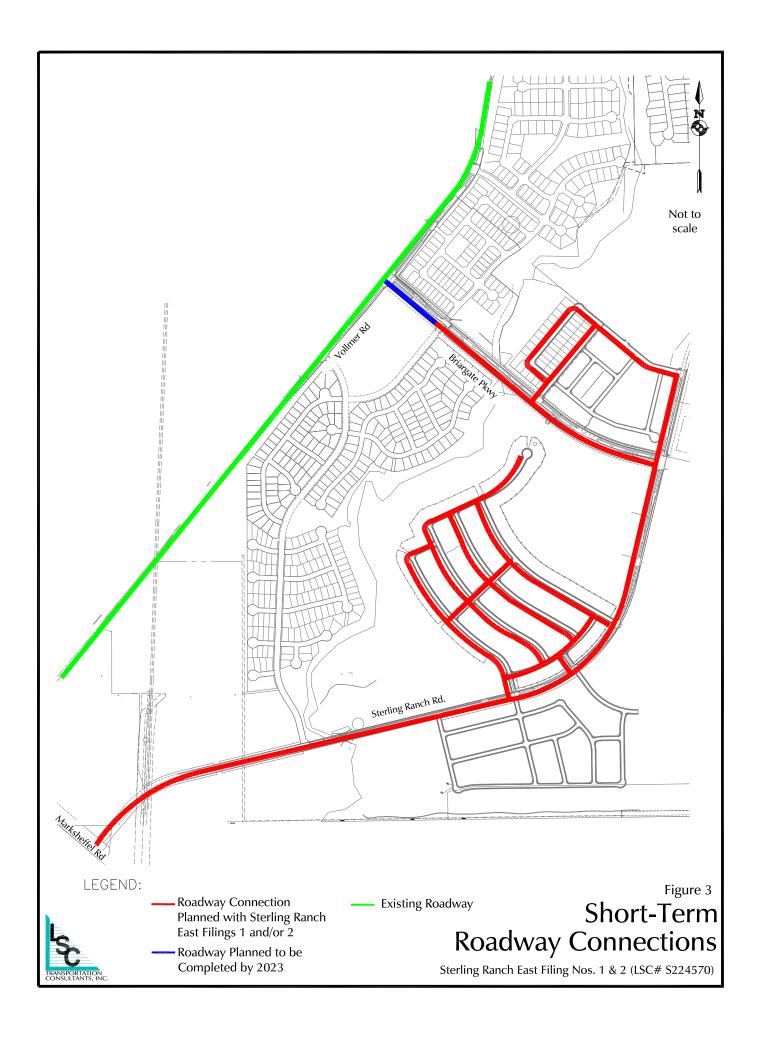


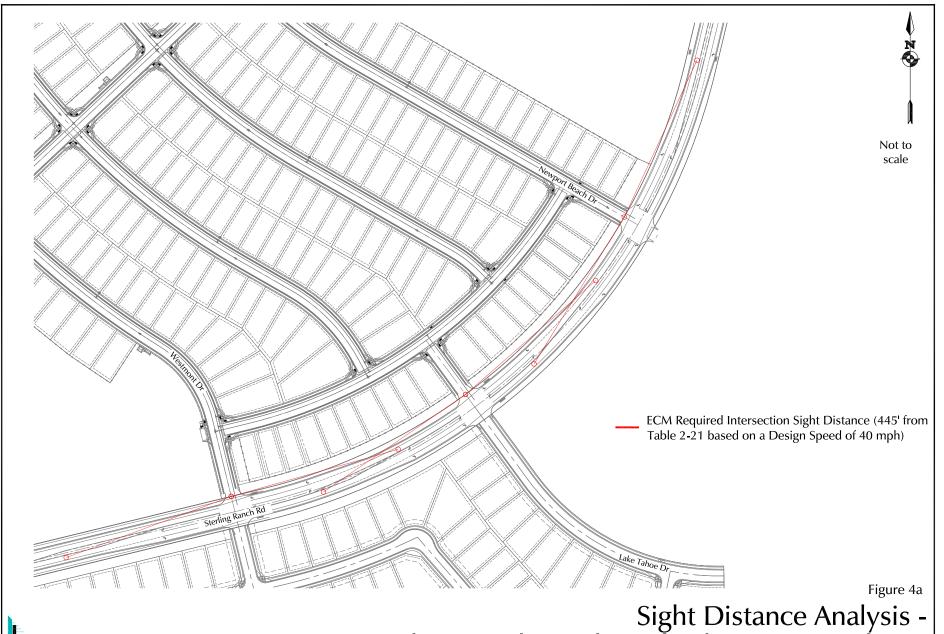




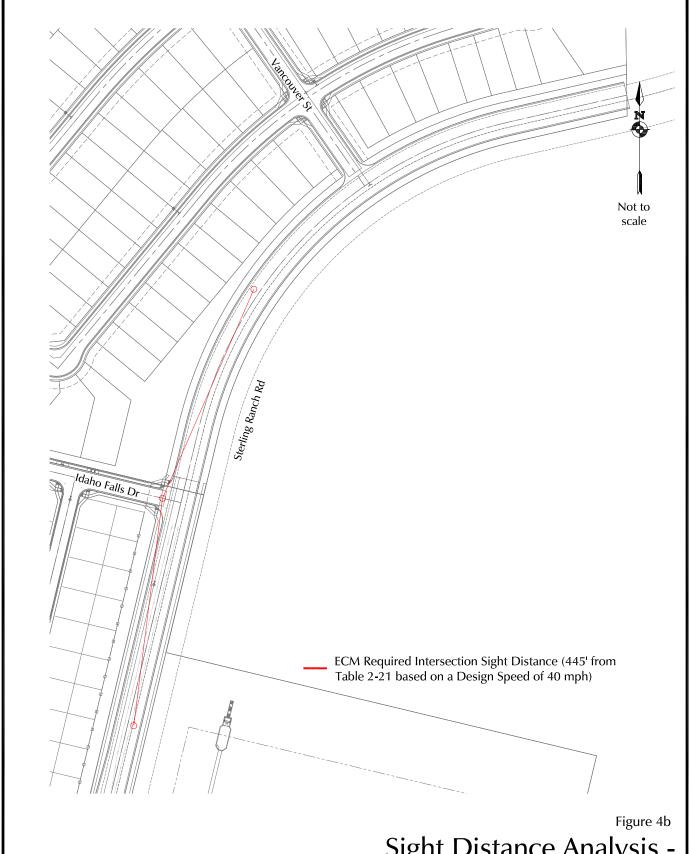
Vicinity Map



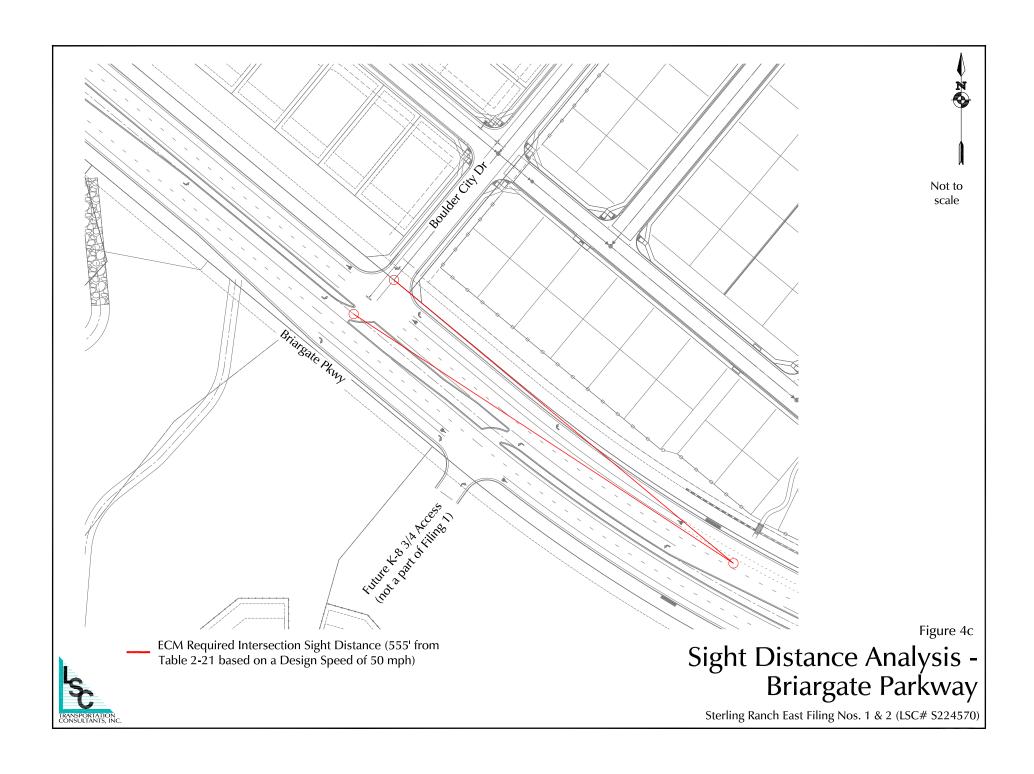


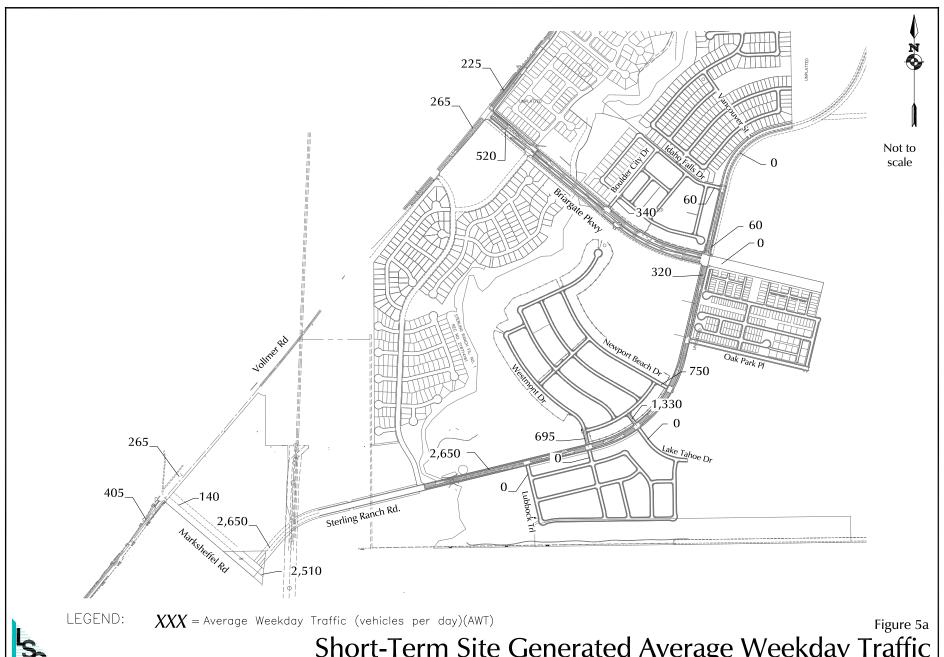


Sight Distance Analysis -Sterling Ranch Road South of Briargate Parkway

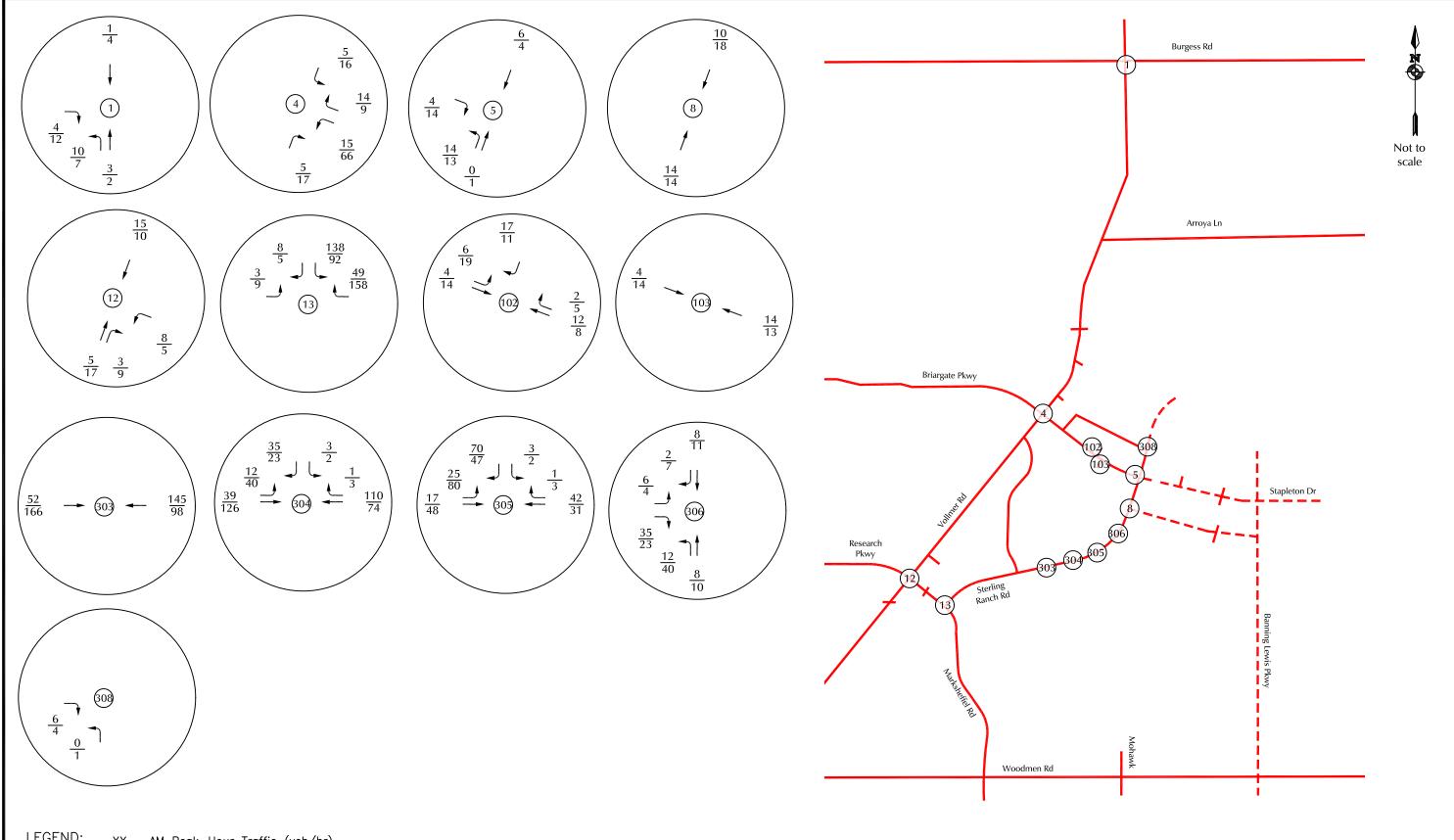


Sight Distance Analysis -Sterling Ranch Road North of Briargate Parkway





Short-Term Site Generated Average Weekday Traffic

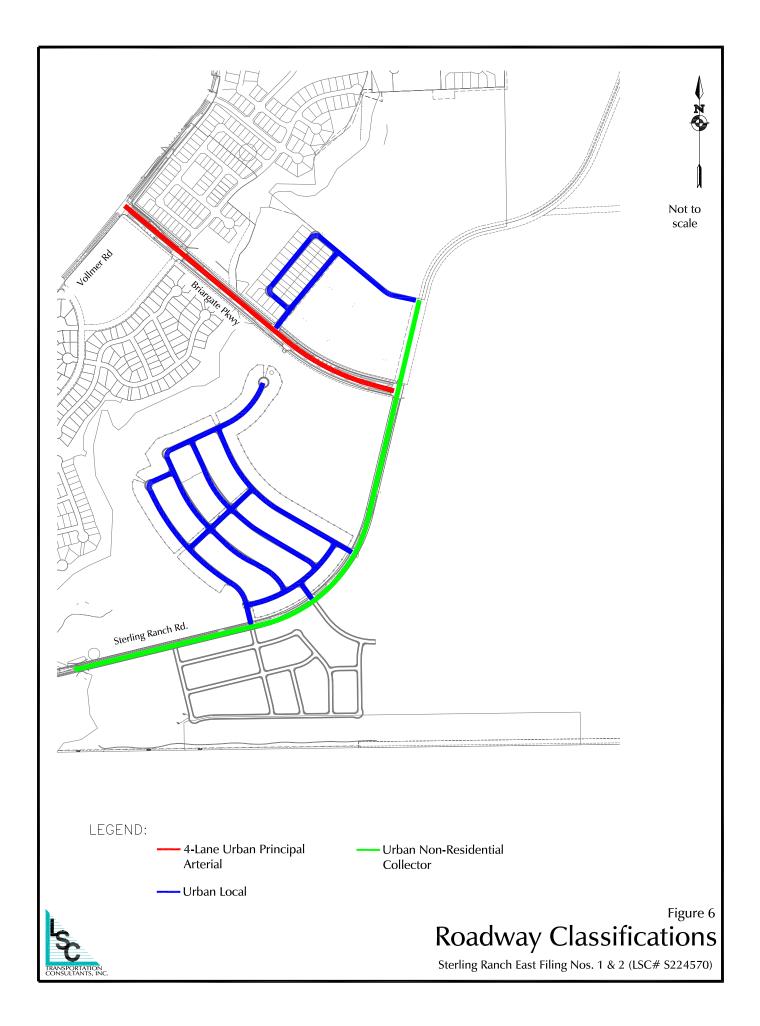


LEGEND:

 $\frac{XX}{XX} = \frac{AM \ Peak-Hour \ Traffic \ (veh/hr)}{PM \ Peak-Hour \ Traffic \ (veh/hr)}$



Figure 5b



Appendix Table 1



Appendix Table 1 Area Trafffic Impact Studies Sterling Ranch East Filing Nos. 1 & 2

Sterling Ranch Phase 1 Traffic Impact Study Sterling Ranch Phase 1-3 Transportation Memorandum Sterling Ranch Filing No. 1 and Homestead at Sterling Ranch Filing No. 1 Transportation Sterling Ranch Filing No. 2 Transportation Memorandum Sterling Ranch Filing No. 3 Transportation Memorandum Sterling No. 1 Traffic Technical Memorandum Sterling No. 1 Traffic Technical Memorandum Sterling No. 1 Traffic Technical Memorandum Sterling No. 2 Traffic Technical Memorandum Sterling No. 3 Transportation Consultants, Inc. Jun. Homestead North Filing No. 2 Traffic Technical Memorandum Sterling Ranch Filing No. 3 Traffic Generation Analysis PUDSP222 Sterring Ranch East Preliminary Plan/Traffic Generation Analysis PUDSP224 Sterring Ranch East Preliminary Plan/Traffic Generation Analysis PUDSP225 Sterring Ranch East Preliminary Plan/Traffic Generation Analysis PUDSP226 Sterring Ranch East Preliminary Plan Traffic Impact Study Sterring Ranch East Preliminary Plan/Traffic Generation Analysis PUDSP226 Sterring Ranch East Preliminary Plan/Traffic Impact Study Sterring Ranch East Preliminary Plan/Traffic Impact Study Sterring Ranch	ne 5, 2008 earch 16, 2015 tober 2, 2017 ecember 19, 2017 viil 3, 2018 ecember 20, 2018
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Other Area Reports	
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1 7	v 9, 2019
	cember 13, 2019
	y 16, 2021
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	tober, 2021
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	nuary, 2023
	ne, 2022
	cember 9, 2021
Notes:	
(1) Follow the links listed below to obtain the most recent version of each listed study. To obtain a copy of the version of each study used in preparing this report please contact LSC Transportation C	2, 2021
Source: LSC Transportation Consultants, Inc.	,

Appendix A



This memorandum was based on the *Sterling Ranch East Rezoning and Preliminary Plan TIS* dated February 10, 2023. The latest version of this report can be found at https://epcdevplanreview.com/Public/ProjectDetails/184081. If you need a copy of the February 10, 2023 version of the report, please contact LSC Transportation Consultants, Inc.

Additional Attachments

Tables 5 and 6 from *Sterling Ranch East Rezoning and Preliminary Plan TIS* with notes by LSC



Source: Sterling Ranch East Rezoning and Preliminary Plan TIS, February 10, 2023 With notes for Sterling Ranch East Filings 1 and 2 by LSC 2/10/2023

		Table 5 Sterling Ranch East Phase 1 Preliminary Plan			
Item #	Improvement	Intersection Improvements Trigger	Timing	Responsibility	
	•	1) Burgess Road/Vollmer Road			E (DE
1	Reconstruct as a modern one-lane roundabout	When the LOS degrades below LOS F	Existing deficiency	This intersection may be eligible intersection under the fee impact program	Future SRE Filings
2	Signalization of the intersection	Marksheffel Road/Vollmer Road Once warrants are met. The decision on timing of traffic signal installation rests with El Paso County Public Works.	Anticipated by buildout of Sterling Ranch East Phase 1 Preliminary Plan	This intersection may be eligible intersection under the fee impact program	
		14) Marksheffel Road/Sterling Ranch Road	T.		—SRE Fil 1
3	Signalization of the intersection	Once warrants are met. The decision on timing of traffic signal installation rests with EI Paso County Public Works.	Anticipated by buildout of Sterling Ranch East Phase 1 Preliminary Plan	SRMD#3	
4	Construct an eastbound left-turn lane on Briargate Parkway approaching Boulder City Drive. The lane should be 285' long plus a 200' taper.	102) Briargate Parkway/Boulder City Drive eastbound left-turn volume > 10 vph	With Sterling Ranch East Phase 1 Preliminary Plan or Foursquare at Sterling Ranch	Starling Perich	SRE Fil 2
5	Construct a westbound right-turn deceleration lane on Briangate Parkway approaching Boulder City Drive. The lane should be 235' long plus a 200' taper.	westbound right-turn volume > 25 vph	Long Term	Sterling Ranch	
		103) Briargate Parkway/Future School 3/4 Movement Ad	ccess		
6	Construct a westbound left-turn lane on Briargate Parkway approaching the school access. The lane should be 285' long plus a 200' taper.	westbound left-turn volume > 10 vph	Long Term With development of the K-8 School Parcel (Tract M)	Sterling Ranch	
7	Construct an eastbound right-turn deceleration lane on Briargate Parkway approaching the school access. The lane should be 235 long plus a 200' taper.	eastbound right-turn volume > 25 yph	Long Term With development of the K-8 School Parcel (Tract M)	Sterling Ranch	
		5) Briargate Parkway/Sterling Ranch Road			SRE Fil 2
8	Construct an eastbound left-turn lane on Briargate Parkway approaching Sterling Ranch Road. The lane should be 435' long plus a 200' taper.	eastbound left-turn volume > 10 vph	With Sterling Ranch East Phase 1 Preliminary Plan or Foursquare at Sterling Ranch	Sterling Ranch	SKE FII 2
9	Construct an eastbound right-turn deceleration lane on Briargate Parkway approaching Sterling Ranch Road. The lane should be 235' long plus a 200' taper.	eastbound right-turn volume > 25 vph	Long Term With development of the K-8 School Parcel (Tract M)	Sterling Ranch	
10	Construct a northbound to eastbound right-turn acceleration lane on Briargate Parkway at Sterling Ranch Road. The lane should be 580' long plus a 180' taper.	northbound right-turn volume > 50 vph	Long Term With development of the K-8 School Parcel (Tract M)	Sterling Ranch	
11	Construct a westbound left-turn lane on Briargate Parkway approaching Sterling Ranch Road. The lane should be 285' long plus a 200' taper.	westbound left-turn volume > 10 vph	Long Term	Sterling Ranch	
12	Construct an eastbound right-turn deceleration lane on Briargate Parkway approaching Sterling Ranch Road. The lane should be 235' long plus a 200' taper.	eastbound right-turn volume > 25 vph	Long Term	Sterling Ranch	Future SRE
13	Construct a southbound to westbound right-turn acceleration lane on Briargate Parkway at Sterling Ranch Road. The lane should be 580' long plus a 180' taper.	southbound right-turn volume > 50 vph	With Sterling Ranch East Phase 1 Preliminary Plan	Sterling Ranch	Filings
		303) Sterling Ranch Road/Lubbock Trail	1		
14	Construct an northeastbound right-turn deceleration lane on Sterling Ranch Road approaching Lubbock Trail. The lane should be 155' long plus a 160' taper	northeastbound right-turn volume > 50 vph	Long Term With development of the Elementary School Parcel (Tract F)	Sterling Ranch	
15	Construct a southwestbound left-turn lane on Sterling Ranch Road approaching Lubbock Trail. The lane should be 305' long plus a 200' taper.	southwestbound-turn volume > 25 vph	Long Term With development of the Elementary School Parcel (Tract F)	Sterling Ranch	CDE E:1 1
-		304) Sterling Ranch Road/Westmont Drive			SRE Fil 1
16	Construct an northeastbound left-turn deceleration lane on Sterling Ranch Road approaching Westmont Drive. The lane should be 205' long plus a 160' taper	northeastbound left-turn volume > 25 vph	With Sterling Ranch East Phase 1 Preliminary Plan	Sterling Ranch	
17	Construct a southwestbound left-turn lane on Sterling Ranch Road approaching Westmont Drive. The lane should be 205' long plus a 200' taper.	southwestbound-turn volume > 25 vph	Long Term (Needed with construction of a northeastbound left-turn lane)	Sterling Ranch	
		305) Sterling Ranch Road/Lake Tahoe Drive			—SRE Fil 1
18	Construct an northeastbound left-turn deceleration lane on Sterling Ranch Road approaching Lake Tahoe Drive. The lane should be 225 long plus a 160' taper	northeastbound left-turn volume > 25 vph	With Sterling Ranch East Phase 1 Preliminary Plan	Sterling Ranch	~- ~ 1111
19	Construct a southwestbound left-turn lane on Sterling Ranch Road approaching Lake Tahoe Drive. The lane should be 205' long plus a 200' taper.	southwestbound-turn volume > 25 vph	Not Required (Needed with construction of a northeastbound left-turn lane)	Sterling Ranch	
20	Construct an northeastbound right-turn deceleration lane on Sterling Ranch Road approaching Lake Tahoe Drive. The lane should be 155' long plus a 160' taper	northeastbound right-turn volume > 50 vph	Long Term	Sterling Ranch	ODE ET 4
		306) Sterling Ranch Road/Newport Beach Drive			—SRE Fil 1
21	Construct a northeastbound left-turn lane on Starting Ranch Road approaching Newport Beach Drive. The lane should be 205' long plus a 200' taper.	northeastbound left-turn volume > 25 vph 308) Sterling Ranch Road/Idaho Falls Drive	With Sterling Ranch East Phase 1 Preliminary Plan	Sterling Ranch	(DP Fit 6
22	Construct a northeastbound left-turn lane on Sterling Ranch Road approaching tlaho Falls Drive. The lane should be 240' long plus a 200' taper.	northeastbound left-turn volume > 25 vph	With Sterling Ranch East Phase 1 Preliminary Plan	Sterling Ranch	SRE Fil 2
23	Construct a northeastbound left-turn lane on Sterling Ranch Road approaching Vancouver Street. The lane should be 265 long plus a 200' taper.	309) Sterling Ranch Road/Vancouver Street northeastbound left-turn volume > 25 vph	With Sterling Ranch East Phase 1 Preliminary Plan	Sterling Ranch	Future SRE
Notes: Source: L	C Transportation Consultants, Inc. (February 2023)				Filings

Source: Sterling Ranch East Phase 1 Rezoning and Preliminary Plan TIS, February 10, 2023. Improvements needed prior to Sterling Ranch East Filings 1 and 2 have been highlighted in green. Improvements needed with Sterling Ranch East Filings 1 and 2 are highlighted in yellow and noted.

Table 6

(Page 1 of 2)

Sterling Ranch East Rezoning and Preliminary Plan

Roadway Segment Improvements

Segment ID ⁽¹⁾		Segment improvements		Projected	
(See Figure 12 for map)	Improvement Description	Timing	Design ADT (vpd)	2042 ADT (vpd)	Responsibility
V1 northbound V1 southbound	Per the City of Colorado Springs, an outside paved shoulder will need to be added along the east side of Vollmer Road from Dry Needle Place up to the south end of segment V2 improvements.	With Sterling Ranch Filing No. 4 but potentially complete concurrently with the construction of the right-turn lane at Pioneer Landscape Center access for the Sterling Ranch Recycling Facility (PCD No. PPR2241)	5,500 (Directional northbound) 10,000 (Directional southbound)	16,275	Sterling Ranch
V1	Improve Vollmer Road between Dry Needle Place and the Sterling Ranch south boundary to a standard 4-Lane Urban Minor Arterial Cross Section (add a second northbound through lane and painted center median). (2)	The need driven by anticipated traffic from each development impacting this section of Vollmer Road.	20,000		Sterling Ranch, if necessary, prior to construction by others.
V2	Improve Vollmer Road between the Sterling Ranch south boundary to Lochwinnoch Lane/Sterling property boundary to a standard 4-Lane Urban Minor Arterial Cross Section. (2)	Short-Term Future (With Sterling Ranch Fil No. 2 Or Sterling Ranch Phase 2)	20,000 (Note: Existing Capacity 8,000 ⁽³⁾)	17,475	Sterling Ranch
V3	Short Term: Improve Vollmer Road from Lochwinnoch Lane to Sterling Ranch boundary (northeast of Glider Loop) to provide 36' of pavement (existing pavement 1 approx. 23.38') and stripe for one through lane plus a 6' paved, striped outside shoulder in each direction. (2)	Short-Term Future (With Homestead North)	11,000 (Note: Existing Capacity 8,000)		Sterling Ranch
	Long Term: Improve Vollmer Road from Lochwinnoch Lane to Sterling Ranch boundary (northeast of Glider Loop) to a standard 4-Lane Urban Minor Arterial Cross Section. (2)	Long-Term Future	20,000	17,380	Sterling Ranch with potential County assistance with ROW acquisition - pursuant to the recent development agreement between Sterling Ranch and EPC.
V4	Improve Vollmer Road from Sterling Ranch boundary (northeast of Glider Loop) to Briargate Parkway to a standard 4-Lane Urban Minor Arterial Cross Section. (2)	Short-Term Future— May 2024 Updated 10/15/2022 - Sections V4, V5, V6 to be constructed by May 2024 (prior note: With Homestead North Filing 1)	20,000	16,445	Sterling Ranch
V5	Improve Vollmer Road from Briargate Parkway to Jane Kirkham Drive to a standard 4-Lane Urban Minor Arterial Cross Section. (2)	Short-Term Future— May 2024 Updated 10/15/2022 - Sections V4, V5, V6 to be constructed by May 2024 (prior note: prior note: With Homestead North Filing 1)	20,000	11,690	Sterling Ranch
V6	Improve Vollmer Road from Jane Kirkham Drive to Sam Bass Drive to a standard 4-Lane Urban Minor Arterial Cross Section. (2)	Short-Term Future— May 2024 Updated 10/15/2022 - Sections V4, V5, V6 to be constructed by May 2024 (prior note: prior note: With Homestead North Filing 2)	20,000	11,425	Sterling Ranch
V7	Improve Vollmer Road between Sam Bass Drive and Poco Road to a 4-lane Urban Minor Arterial but with necessary lane transitions, redirect tapers, etc. south of Poco to adequately transition between the 4-Lane Urban Minor Arterial Cross Section and the 2-Lane Rural Arterial Cross Section north of Poco Road.	Short-Term Future – May 2024 Updated 10/15/2022 - Sections V4, V5, V6 to be constructed by May 2024 (prior note: With Homestead North Filing 3)	20,000	10,030	Sterling Ranch
V8	Improve Vollmer Road from Poco Road to Shoup Road to a Rural 2-Lane Arterial Cross Section. (2)	Long-Term Future	10,000	11,790	El Paso County Project ID U-12

Part 1/2 of this table (see Part 2 on next page)

Notes:

- (1) See Figure 10
- (2) Adequate transition/redirect tapers would be needed between the various cross sections on Vollmer Road. Based on the criteria contained in Table 2-29 of the *El Paso Engineering Criteria Manual*, an appropriate taper ratio for a roadway with a design speed of 40 miles per hour is 20:1
- (3) Source: Table 20 Road Impact Fee Study Updated November 16, 2016

Source: LSC Transportation Consultants, Inc. (February 10, 2023)

Table 6

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Sterling Ranch East Phase 1 Preliminary Plan

Fil 2

Roadway Segment Improvements

	Roadway	Segment Improvements			
Segment ID ⁽¹⁾ (See Figure			Design ADT	Projected 2042 ADT	
12 for map)	Improvement Description	Timing	(vpd)	(vpd)	Responsibility
SR1	Construct Sterling Ranch Road as an Urban Non-Residential Collector from Marksheffel Road to Dines Boulevard.	Short Term - with Sterling Ranch Fil No. 2	20,000	14,840	Sterling Ranch
SR2	Construct Sterling Ranch Road as an Urban Non-Residential Collector from Dines Boulevard to Briargate Parkway.	Short-Term	20,000	10,275	Sterling Ranch
SR3	Construct Sterling Ranch Road as an Urban Collector from Briargate Parkway to Vancouver Street.	Short Term	10,000	9,300	Sterling Ranch
SR4	Construct Sterling Ranch Road from Vancouver Street north to Arroya (or ultimate north terminus).	Long-Term Future	10,000	4,260	Sterling Ranch
M1	Construct Marksheffel Road as an Urban Principal Arterial to City of Colorado Springs standards in 107' of right-of-way between Vollmer Road and Sterling Ranch Road.	Updated 10/15/2022: to be completed by the end of 2022 (prior note: With Sterling Ranch Fil No. 2	40,000	23,370	Sterling Ranch
M2	Construct Marksheffel Road as an Urban Principal Arterial to City of Colorado Springs standards in 107' of right-of-way between Sterling Ranch Road and the south boundary of the Sterling Ranch Master Plan Area. 10/16/2022 NOTE: With the completion of M2 in 2023, the connection between Vollmer and Woodmen Road (via M3) will be completed.	Short Term Updated 10/15/2022: to be completed in 2023 (prior note: With Sterling Ranch Phase 2)	40,000	29,600	Sterling Ranch
М3	Construct Marksheffel Road between the south boundary of the Sterling Ranch Master Plan Area and Woodmen Road. (Note this segment is located within the City of Colorado Springs). 10/16/2022 NOTE: With the completion of M2 in 2023, the connection between Vollmer and Woodmen Road (via M3) will be completed.	Updated 10/15/2022: <u>Completed</u> (by Others)	40,000	24,525	Others (Completed)
M4	Construct Marksheffel Road between Black Forest Road and Vollmer Road.	Long-Term Future	40,000	27,910	Others
B1	Construct the south half section of Briargate Pkwy (4-Lane Principal Arterial) between Vollmer Road and Wheatland Drive [now full section by 2023].	Short-Term Future Updated 10/15/2022: Full section to be completed in 2023 with Homestead at Sterling Ranch Filing No. 1 (prior note: With Homestead at Sterling Ranch Fil 2)	20,000	24,745	Sterling Ranch
	Construct the north half section of Briargate Pkwy (4-Lane Principal Arterial) between Vollmer Road and Wheatland Drive [now full section by 2023].	Short-Term Future Updated 10/15/2022: Full section to be completed in 2023 with Homestead at Sterling Ranch Filing No. 1 (prior note: Long-Term Future)	40,000		Sterling Ranch
B2	Construct Briargate Pkwy (full section) as a 4-Lane Principal Arterial between Wheatland Dr and Sterling Ranch Road.	Short-Term Future Updated 10/15/2022: Full section to be completed in 2023 or Spring 2024 (prior note: Long-Term Future)	40,000	26,375	Sterling Ranch
В3	Construct Briargate Pkwy as a 4-Lane Principal Arterial between Sterling Ranch Road and Banning Lewis Parkway.	Intermediate Term	40,000	22.365	Sterling Ranch
B4	Construct Stapleton Road as a 4-Lane Principal Arterial between Banning Lewis Parkway and Meridian Road (including upgrade of existing rural two-lane segment between Towner and Meridian).	Long-Term Future	40,000	17,945	Others
B5	Construct Briargate Pkwy as a 4-Lane Principal Arterial between Black Forest Road and Vollmer Road.	Long-Term Future	40,000	24,340	Others; PPRTA A List Project
BL1	Construct Banning Lewis Parkway as a 4-Lane Principal Arterial between the south Sterling Ranch boundary and Briargate Pkwy.	Long-Term Future	40,000	20,320	Financial assurances for half-section, Sterling Ranch half-section or full-section w/ cost recovery
BL2	Construct Banning Lewis Parkway as a 4-Lane Principal Arterial between Woodmen Road and the south Sterling Ranch boundary. (Note this segment will be located within the City of Colorado Springs)	Long-Term Future	40,000	28,480	Others
W1	Widen Woodmen Road from 4-lane to 6-lane section from Powers Boulevard to US 24.	Long-Term Future	72,000	66,690	PPRTA A-List Project; City of Colorado Springs ConnectCOS Index No.476
B1	Widen Black Forest Road between Woodmen Road to just north of Research Road to two northbound and southbound through lanes.	Black Forest Widening Project	40,000	28,420	City of Colorado Springs
B2	Widen Black Forest Road from just north of Research Road to Briargate Parkway.	Long-Term Future	40,000	25,145	Others/City of Colorado Springs
В3	Widen Black Forest Rd from Briargate Pkwy to Old Ranch Rd as a 4-lane Principal Arterial with bike and pedestrian facilities.	Long-Term Future	40,000	19,135	PPRTA B List Project ConnectCOS Index No. 479

Part 2/2 of this table

Notes:

- (1) See Figure 10
- (2) Adequate transition/redirect tapers would be needed between the various cross sections on Vollmer Road. Based on the criteria contained in Table 2-29 of the El Paso Engineering Criteria Manual, an appropriate taper ratio for a roadway with a design speed of 40 miles per hour is 20:1
- (3) Source: Table 20 Road Impact Fee Study Updated November 16, 2016

Source: LSC Transportation Consultants, Inc. (February 10, 2023)

From Briargate Parkway to Idaho Falls Drive with SRE Fil 2

From Idaho Falls Drive to Vancouver Street with future filings