

LSC Responses to Fil 1 and 2 TIS Redline Comments



LSC TRANSPORTATION CONSULTANTS, INC.
2504 East Pikes Peak Avenue, Suite 304
Colorado Springs, CO 80909
(719) 633-2868
FAX (719) 633-5430
E-mail: lsc@lsctrans.com
Website: <http://www.lsctrans.com>

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 will comply with all commitments made on my behalf within this report.

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Date

LSC Responses to Fil 1 and 2 TIS Redline Comments

Page: 1

 Number: 1 Author: dsdrice Date: 5/5/2023 8:53:41 AM



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.

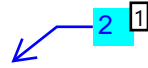
A future K-8 school site is located southwest of Briargate Parkway/Sterling Ranch Road. There are currently no details such as building layout, circulation, or number of students available. LSC assumed the future K-8 school would serve 1,100 students and that the site would have two access points to 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.

 Number: 1 Author: CDurham Subject: Callout Date: 5/3/2023 1:17:39 PM

2

 Author: kdferrin Subject: Sticky Note Date: 5/15/2023 2:33:21 PM
LSC Response: Revised as requested



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 \$2,527 per 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

 Number: 1 Author: CDurham Subject: Callout Date: 5/3/2023 1:24:36 PM

2

 Author: kdferrin Subject: Sticky Note Date: 5/15/2023 2:35:49 PM
LSC Response: Revised as requested


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

Sketch Plan TAZ	Filing No.	Location	ITE Code	ITE Land Use	Quantity	Unit	Daily	Trip Generation Rates ⁽¹⁾				Total Trip Generated				
								AM Peak Hour		PM Peak Hour		Daily	AM Peak Hour		PM Peak Hour	
								In	Out	In	Out		In	Out		
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						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. Dec-22

Fix totals

1

 Number: 1 Author: dsdrice Subject: Callout Date: 5/5/2023 8:54:47 AM

[Fix totals](#)


 Author: kdferrin Subject: Sticky Note Date: 5/15/2023 2:36:00 PM
LSC Response: Revised as requested

Table 5 Sterling Ranch East Phase 1 Preliminary Plan Intersection Improvements				
Item #	Improvement	Trigger	Timing	Responsibility
1) Burgess Road/Vollmer Road				
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
12) Marksheffel Road/Vollmer Road				
2	Signalization of the intersection	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				
3	Signalization of the intersection	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	SRMD#3
102) Briargate Parkway/Boulder City Drive				
4	Construct an eastbound left-turn lane on Briargate Parkway approaching Boulder City Drive. The lane should be 285' 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
5	Construct a westbound right-turn deceleration lane on Briargate 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 Access				
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 vph	Long Term With development of the K-8 School Parcel (Tract M)	Sterling Ranch
5) Briargate Parkway/Sterling Ranch Road				
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
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
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
303) Sterling Ranch Road/Lubbock Trail				
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
304) Sterling Ranch Road/Westmont Drive				
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				
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
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
306) Sterling Ranch Road/Newport Beach Drive				
21	Construct a northeastbound left-turn lane on Sterling Ranch Road approaching Newport Beach Drive. The lane should be 205' long plus a 200' taper.	northeastbound left-turn volume > 25 vph	With Sterling Ranch East Phase 1 Preliminary Plan	Sterling Ranch
308) Sterling Ranch Road/Idaho Falls Drive				
22	Construct a northeastbound left-turn lane on Sterling Ranch Road approaching Idaho 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
309) Sterling Ranch Road/Vancouver Street				
23	Construct a northeastbound left-turn lane on Sterling Ranch Road approaching Vancouver Street. The lane should be 265' long plus a 200' taper.	northeastbound left-turn volume > 25 vph	With Sterling Ranch East Phase 1 Preliminary Plan	Sterling Ranch

Future SRE Filings 2

SRE Fil 1 3

SRE Fil 2 4

SRE Fil 2 5

Future SRE Filings 6

SRE Fil 1 7

SRE Fil 1 8

SRE Fil 1 9

SRE Fil 2 10

Future SRE Filings 11

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

☰	Number: 1	Author: kdferrin	Subject: Text Box	Date: 2/10/2023 5:28:07 PM -07'00'
	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			
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	SRE Fil 2			
☰	Number: 11	Author: kdferrin	Subject: Callout	Date: 2/10/2023 3:22:28 PM -07'00'
	Future SRE 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 are 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⁾ (See Figure 12 for map)	Improvement Description	Timing	Design ADT (vpd)	Projected 2042 ADT (vpd)	Responsibility
V1 northbound	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)	20,000 (Directional northbound)	16,275	Sterling Ranch
V1 southbound			10,000 (Directional southbound)		
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⁾	3 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	4 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)	17,380	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		
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⁾	5 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⁾	6 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⁾	7 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	8 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)

 Number: 1 Author: kdferrin Subject: Text Box Date: 2/10/2023 3:30:07 PM -07'00'

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.

 Number: 2 Author: kdferrin Subject: Highlight Date: 2/10/2023 3:30:44 PM -07'00'

 Number: 3 Author: kdferrin Subject: Highlight Date: 2/10/2023 3:30:47 PM -07'00'

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 Number: 8 Author: kdferrin Subject: Highlight Date: 2/10/2023 3:31:09 PM -07'00'

Table 6

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With either SRE Fil 1 or Fil 2

Sterling Ranch East Phase 1 Preliminary Plan
Roadway Segment Improvements

1

Segment ID ⁽¹⁾ (See Figure 12 for map)	Improvement Description	Timing	Design ADT (vpd)	Projected 2042 ADT (vpd)	Responsibility
2	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
3	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
M3	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: Completed (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].	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].	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
B3	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 Townner 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
B3	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

7

 Number: 1 Author: kdferrin Subject: Callout Date: 2/10/2023 3:33:19 PM -07'00'
[With either SRE Fil 1 or Fil 2](#)


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[From Briargate Parkway to Idaho Falls Drive with SRE Fil 2](#)

[From Idaho Falls Drive to Vancouver Street with future filings](#)