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4-Square at Sterling Ranch East Traffic Technical Memorandum (LSC #S224590) November 22, 2022

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.



See comment memo also.

Developer's Statement

I, the Developer, have read and will comply with all commitments made on my behalf within this report.

11/22/2022

4-Square at Sterling Ranch East Traffic Technical Memorandum

Prepared for:

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

NOVEMBER 22, 2022

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

LSC #S224590



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November 22, 2022

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

> RE: 4-Square at Sterling Ranch East El Paso County, CO Traffic Technical Memorandum LSC #S224590

Dear Mr. Moreland:

LSC Transportation Consultants, Inc. has prepared this traffic technical memorandum for the 4-Square at Sterling Ranch East residential development. As shown in Figure 1, the site is located north of the future extension of Briargate Parkway and 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 Phase 1 Rezoning and Preliminary Plan (SP224) that included trips by the currently-proposed filing. This memorandum is intended as a site-specific, final plat traffic report for 4-Square at Sterling Ranch East.

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 filing;
- The assignment of the site-generated traffic volumes to the area roadways;
- The recommended street classifications for the internal streets within the currently-proposed filing;
- Improvements needed with the currently-proposed filing; and
- The project's obligation to the County roadway improvement fee program.

— No list included.

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 Phase 1 Rezoning and Preliminary Plan, November 17, 2022. The currently proposed filing was accounted for within that recent report.
- 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.
- 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.

The site plan does not reflect a typical single

LAND USE AND ACCESS family home lot layout, as many lots do not front on roadways. Please clarify land use.

4-Square at Sterling Ranch East is planned to include 158 lots for single-family homes. Figure 2 shows the proposed site plan.

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, which is planned to be constructed prior to the Villages at Sterling Ranch East, 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 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. These connections will need to be constructed with 4-Square at Sterling Ranch East if they are not constructed as part of Sterling Ranch East Filing 1.

Full-movement access is proposed to Sterling Ranch Road via Idaho Falls Drive. The proposed access spacing is shown in Figure 2. As shown in the figure, all of the access points meet the intersection spacing requirements.

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. 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. This deviation request is being made as part of the application for Sterling Ranch East Filing No. 1 but will be required by the currently-proposed 4-Square at Sterling Ranch East if it develops first. The draft 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 showed two offset three-quarter

As proposed, both will need to develop concurrently because of — shared infrastructure

movement (left-in/right-in/right-out only) access points in this general location. A future threequarter 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 need for this K-8 access was the subject of a comment in the SRE SKP review. Coordinate comment responses.

The currently-proposed filing was included in the Sterling Ranch Master TIS as Traffic Analysis Zone (TAZ) 19. Traffic projected to be generated by land uses within this zone was included as part of the short-term background traffic volumes in the Sterling Ranch East Phase 1 TIS. The land use and access currently proposed are consistent with what was assumed in the Master TIS and the Sterling Ranch East Phase 1 TIS.

Intersection Sight Distance

Figure 4a shows a sight-distance analysis at the proposed intersection of Idaho Falls/Sterling Ranch and the two access points to Oak Park Drive. 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 Figure 4a, the proposed intersections to Sterling Ranch Road and Idaho Falls Drive will meet the criteria.

Figure 4b 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 55 feet. As shown in Figures 4b, the proposed intersection will reset the aritaging

will meet the criteria.

Address internal sight distances. Some do not meet the 280' minimum (previous PUDSP redline)

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. A school crossing will likely be needed at the intersection of Sterling Ranch Road/Briargate Parkway. This intersection is planned to be signal controlled in the future.

Per Figure 2, the pedestrian connection from this project to Briargate will occur at Boulder City PI and to Sterling Ranch Rd will occur at Idaho Falls Dr. Is a pedestrian crossing at the Briargate / Sterling Valley signal adequate to provide access to the K-8 school, or should alternate pedestrian routes be considered?

Address recommendations for pedestrian refuge islands where applicable per ECM 2.5.6.G-J.

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

4-Square at Sterling Ranch East 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 Phase 1 TIS for the same parcels.

The Villages at Sterling Ranch East is expected to generate 1,490 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 29 vehicles would enter and 82 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 94 vehicles would enter and 55 vehicles would exit the site. Trip generation may need to be updated per

Trip generation may need to be updated per response to land use comment on page 2.

TRIP DISTRIBUTION AND ASSIGNMENT

When the distribution percentages from Figure 8 of the Sterling Ranch East Phase 1 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 Phase 1 Rezoning & Preliminary Plan TIS*. The proposed land use and access is in compliance with the Sterling Ranch Master TIS and Sterling Ranch East Phase 1 Preliminary Plan TIS. As such, there are no changes to these projected volumes or level of service results. Total traffic may need to be updated per

response to land use comment on page 2.

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.

Page 5

The volumes shown are based on the following: Briargate/Vollmer

- The short-term background traffic volumes taken from Figure 6b of the Sterling Ranch East Phase 1 TIS,
- The Sterling Ranch East Filing No. 1 site-generated traffic volumes taken from the traffic memo for that subdivision filing.,
- The Villages at Sterling Ranch East site-generated traffic volumes from our current work for the traffic memo for that subdivision,
- The 4-Square at Sterling Ranch East 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

Vehicle time-of-day distribution data may need to be updated per response to land use comment on page 2.

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, the Villages at Sterling Ranch East, and 4-Square at Sterling Ranch East.

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, eight of the hours analyzed are projected to meet the thresholds for an Eight-Hour Vehicular-Volume Traffic-Signal Warrant. Twelve of the hours analyzed are projected to meet the thresholds for a Four-Hour Vehicular-Volume Traffic-Signal Warrant.

This analysis indicates that the Eight-Hour and 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, the Villages at Sterling Ranch East, and 4-Square at Sterling Ranch East. LSC recommends at least eight hours of traffic count volume data be collected at the intersections

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 4-Square at Sterling Ranch East should be classified as Urban Local. Figure 6 shows the recommended street classifications for the internal streets and the streets in the vicinity of the site. Please provide text or figure outlining types and locations of

Fix grammar

DEVIATON REQUESTS

intersection control (stop, yield, roundabout, etc.) at internal street intersections.

The following deviation requests to the criteria contained in the *El Paso County Engineering Criteria Manual (ECM)* was requested from the intersection spacing requirements for the proposed three-quarter movement intersection of Boulder City/Briargate as part of the Sterling Ranch East Filing No. 1. Approval of that request will also be heeded for the currently-proposed 4-Square at Sterling Ranch East. No other deviation requests are anticipated.

ROADWAY IMPROVEMENTS

Tables 5 and 6 from the *Sterling Ranch East Phase 1 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 4-Square at Sterling Ranch East highlighted. Needed improvements and auxiliary turn

In an lengths may need to be updated per ROADWAY IMPROVEMENT FEE PROGRAM response to land use comment on page 2.

This project will be required to participate in the El Paso County Road Improvement Fee Program. 4-Square at Sterling Ranch East Filing 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 158 lots, the total building permit fee would be \$399,266. Note: program fees are subject to change.

The per-unit fee may need to be updated per response to land use comment on page 2.

* * * * *

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 1-6 Tables 5 and 6 from *Sterling Ranch East Phase 1 Rezoning and Preliminary Plan TIS* with notes by LSC

Tables



Update per response to the comment on page 2 about anticipated land use

| | | Table 1 FourSquare at Sterling Ranch East | | | | | | | | | | | | |
|--|---|--|-----------------|-------------------|-------|-------|--------------|----------------------|---------|-------|-------|-------------|--------|---------|
| | | | Trip Generation | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Sketch | | | | | | Trip | Generation F | Rates ⁽¹⁾ | | | Tota | l Trip Gene | rated | |
| Plan | | | | | | AM Pe | ak Hour | | ak Hour | | AM Pe | ak Hour | PM Pea | ak Hour |
| TAZ | Code Y Y | INE Land Use | Quantity | Unit | Daily | In | Out | In | Out | Daily | In | Out | In | Out |
| 19 | 210 Single-F | amily Detached Housing | 158 | DU ⁽²⁾ | 9.43 | 0.18 | 0.52 | 0.59 | 0.35 | 1,490 | 29 | 82 | 94 | 55 |
| | - Currin | | | | | | | | | | | | | |
| Notes: | | | | | | | | | | | | | | |
| (1) Source: "Trip Generation, 11th Edition, 2021" by the Institute of Transportation Engineers (ITE) | | | | | | | | | | | | | | |
| (2) DU = Dwelling Unit | | | | | | | | | | | | | | |
| Source: LSC Transpo | Source: LSC Transportation Consultants, Inc. Nov-22 | | | | | | | | | | | | | |

Table 2 Traffic Signal Warrant Analysis Marksheffel Road/Vollmer Road Warrant Analysis⁽¹⁾ Warrant 2: Four Hour Vehicular Volume Warrant 1: Eight Hour Vehicular Volume Evaluation Evaluation Warrant Threshold Met? Short-Term Background Short-Term Total Short-Term SRE Filing 1 Villages at SRE FourSquare at SRE Short-Term Warrant Warrant Warrant Warrant Background Traffic⁽²⁾ Generated Traffic Short-Term Total Traffic Warrant Thresholds Generated Traffic Generated Traffic Background Short-Term Total Threshold hreshold Threshold Threshold Major⁽³⁾ Minor⁽⁴⁾ Condition A Condition B Met? Major Minor Major Minor Major Minor Major Minor Conditio Conditio Conditio Conditio Minor Met? Minor Marksheffel Major Minor Major Minor WB WB Hour Marksheffel Vollmer Vollmer Marksheffe Vollmer Marksheffel Vollmer Marksheffel Vollmer nΔ n B nΔ n B Minimum Minimum Short-Term Total Traffic⁽⁵⁾ 12-1 AM 53 53 600 150 900 75 No No No No No No 0 150 No No No No No 1-2 AM 26 19 26 19 600 900 75 No No No 0 0 0 0 0 2-3 AM 150 900 75 No No 600 No No 0 0 0 75 3-4 AM 28 3 0 0 0 0 28 600 150 900 No No No No No No 0 0 3 4-5 AM 43 117 43 600 75 14 15 900 No No No No No No 5-6 AM 34 117 37 900 No 600 150 75 No No 0 0 0 No No No 6-7 AM 347 101 0 350 108 600 150 900 75 75 No No No No No No 2 5 1 2 0 7-8 AM 833 174 837 185 191 600 150 900 Yes No 192 No No No Yes No 8-0 AM 931 147 935 157 600 150 900 75 167 د 0 Yes Yes Yes No 166 No 9-10 AM 805 935 92 92 4 0 0 809 98 98 600 150 150 900 75 75 No No No No 199 No 198 No 3 1 10-11 AM 900 166 165 940 600 No No No 4 4 Yes Yes No 0 0 1055 11-12 PM 87 4 0 1062 93 600 150 900 75 No Yes No Yes 134 No 131 No 5 0 12-1 PM 999 51 0 0 5 1 0 0 1004 52 600 150 900 75 No No No No 150 221 No 149 No 758 73 900 1-2 PM 15 775 78 600 150 75 No No No No No 213 No 2-3 PM 871 77 5 4 0 0 878 83 600 150 900 75 No No No No 182 No 181 No 3-4 PM 927 74 6 4 2 0 0 935 80 600 150 900 75 No No No Yes 168 No 166 No 4-5 PM 962 93 972 99 150 75 No 160 157 No 7 4 3 2 0 0 600 900 Yes No Yes No 5-6 PM 99 No 807 92 819 600 150 900 75 No No No 198 No 195 No 0 0 553 6-7 PM 73 564 80 600 150 900 75 No No No No 314 No 308 No 9 5 2 0 0 348 7-8 PM 357 58 150 75 No No 53 600 No No No 7 4 1 0 0 900 No 8-9 PM 282 38 289 42 600 150 900 75 No No No No No No 3 0 5 1 0 9-10 PM 180 30 186 33 150 900 75 No No No No No No 5 2 1 0 0 600 10-11 PM 101 14 106 16 150 900 75 No 600 No No No No No 4 2 1 0 0 0 11-12 AM 55 9 57 10 150 900 75 No 2 0 0 600 No No No No No 0 0 Numbers of Hours the Warrant Thresholds Are Met 1 4 2 5 0 0 No No Warrant Met? No No 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 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.

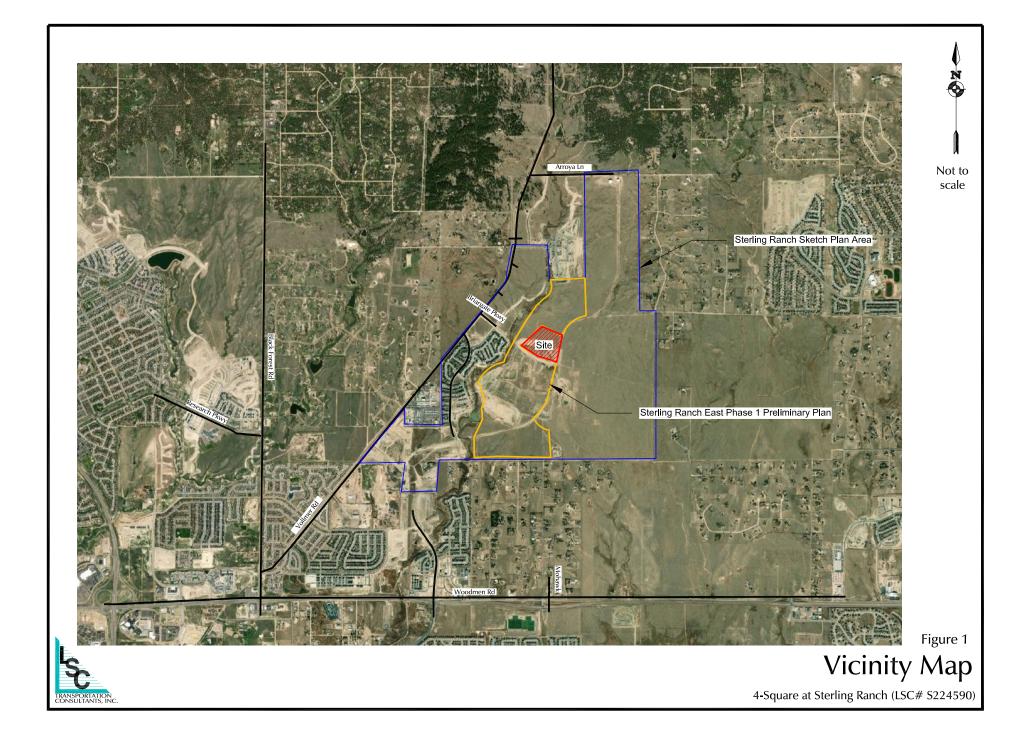
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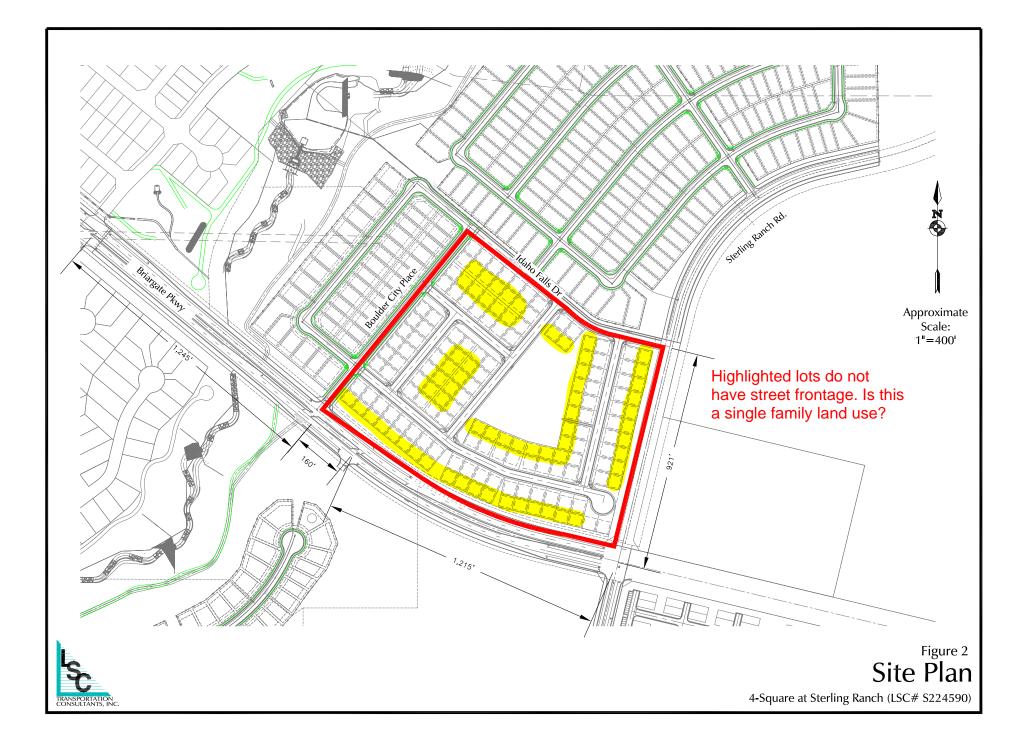
| | Table 3 Traffic Signal Warrant Analysis Marksheffel Road/Sterling Ranch Road | | | | | | | | | | | | | | | | | | | | | |
|--|---|----------------------------------|-------------|-------------------|-------------|-----------|-------------|-------------------|-------------|-------------------|------------|------------|---|-----------|----------|----------|------------|-----------|--------------------|---------------------------------------|--------------------|-------------------|
| Warrant Analysis ⁽²⁾ | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | Warrant 1: Eight Hour Vehicular Volume Evaluation Evaluation Evaluation | | | | | | | | | olume |
| | | | | | | | | | | | Short-Ter | rm Total | | | | | | | | | | |
| | Short- | | SRE Fi | ling 1 | Villages | at SRE | FourSqua | re at SRE | | | | | | | Short | -Term | | | | , , , , , , , , , , , , , , , , , , , | | |
| | Backgroun | | Generate | | Generate | | Generate | | Short-Term | | | Warrant T | hresholds | | Backg | round | Short-T | erm Total | Warrant | Warrant | Warrant | Warrant |
| | Maior ⁽³⁾ | Minor ^(*) Sterling | Maior | Minor Sterling | Major | Minor | Major | Minor Sterling | | Minor Sterling | Conc | lition A | Cond | ition B | Conditio | Conditio | Conditio | Conditio | Threshold Minor | Threshold Met? | Threshold Minor | Threshold Met? |
| Hour | Marksheffel | Ranch | Marksheffel | Ranch | Marksheffel | Ranch | Marksheffel | Ranch | Marksheffel | Ranch | Major | | Major | | n A | n B | n A | n B | Minimum | WB | Minimum | WB |
| | | | | | | 7 | | | 7 | | | | | | | | | | | | | |
| Short-Term Te | | - | | 00 | | | | | | | 000 | 450 | 000 | 76 | N. | N., | NI. | . N. | 1 | NI. | 1 | N. |
| 12-1 AM 1-2 AM | 47 20 | 7 | 1 | 22 9 | 1 | <u>11</u> | 1 | 4 | 50 | 44 23 | 600 600 | 150 150 | 900 900 | 75 75 | No | No No | No No | No No | Low Volume | No No | Low Volume | No 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 7-8 AM | 193 414 | 192 332 | 28 49 | 69 138 | 17 29 | 36 | 24 41 | 12 24 | 262 | 309 566 | 600 600 | 150 150 | 900 900 | 75 75 | No | No No | No No | No No | Low Volume 383 | No No | Low Volume 324 | No Yes |
| 8-9 AM | 414 | 280 | 49 | 160 | 29 | 83 | 35 | 24 | 569 | 551 | 600 | 150 | 900 | 75 | No | No | No | No | 356 | No | 306 | Yes |
| 9-10 AM | 406 | 176 | 26 | 138 | 15 | 72 | 22 | 24 | 469 | 410 | 600 | 150 | 900 | 75 | No | No | No | No | 387 | No | 356 | Yes |
| 10-11 AM | 503 | 176 | 26 | 181 | 15 | 95 | 22 | 32 | 566 | 484 | 600 | 150 | 900 | 75 | No | No | No | No | 339 | No | 307 | Yes |
| 11-12 PM | 616 | 166 | 25 | 233 | 15 | 122 | 21 | 41 | 677 | 562 | 600 | 150 | 900 | 75 | Yes | No | Yes | No | 284 | No | 259 | Yes |
| 12-1 PM | 928 | 114 | 87 | 158 | 42 | 88 | 42 | 88 | 1099 | 448 | 600 | 150 | 900 | 75 | No | Yes | Yes | Yes | 168 | No | 120 | Yes |
| 1-2 PM 2-3 PM | 415 483 | 164 172 | 124 131 | 53 61 | 60 63 | 29 34 | 60 63 | 29 34 | 659 | 275 301 | 600 600 | 150 150 | 900 900 | 75 75 | No No | No No | Yes Yes | No No | 383 349 | No No | 266 230 | Yes Yes |
| 3-4 PM | 463 552 | 166 | 126 | 74 | 61 | 41 | 61 | 34 41 | 800 | 301 | 600 | 150 | 900 | 75 | No | No | Yes | No | 349 | No | 230 | 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 10-11 PM | 214 107 | 67 31 | 51 23 | 39 19 | 24 11 | <u>22</u> | 24 | 22 11 | 313 | 150 72 | 600 600 | 150 150 | 900 900 | 75 75 | No | No No | No No | No No | Low Volume | No No | Low Volume | No No |
| 11-12 AM | 63 | 19 | 15 | 19 | 7 | 6 | 7 | 6 | 92 | 42 | 600 | 150 | 900 | 75 | No | No | No | No | Low Volume | No | Low Volume | No |
| | | | | | . · · | | | 1 1 | 1 | | | the Warrar | | | | 1 | 8 | 2 | | 0 | | 12 |
| | | | | | | / | \sim | \sim | | | | | | rrant Met | | lo | , | Yes | | No | | Yes |
| | | | | | | | | | | | | | | | · · · · | | 1 | | 4 | | | I |
| 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) | | | | | | | | | | | | | | | | | | | | | |
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| (d) The major street train includes only the left time street | | | | | | | | | | | | | | | | | | | | | | |
| (c) in the main of the data and included any the latter and indicated and the main and acceleration (c) off peek 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 | | | | | | | | | | | | | | | | | | | | | | |
| (c) on peak now terms for using for the projected peak now real pe | | | | | | | | | | | | | | | | | | | | | | |
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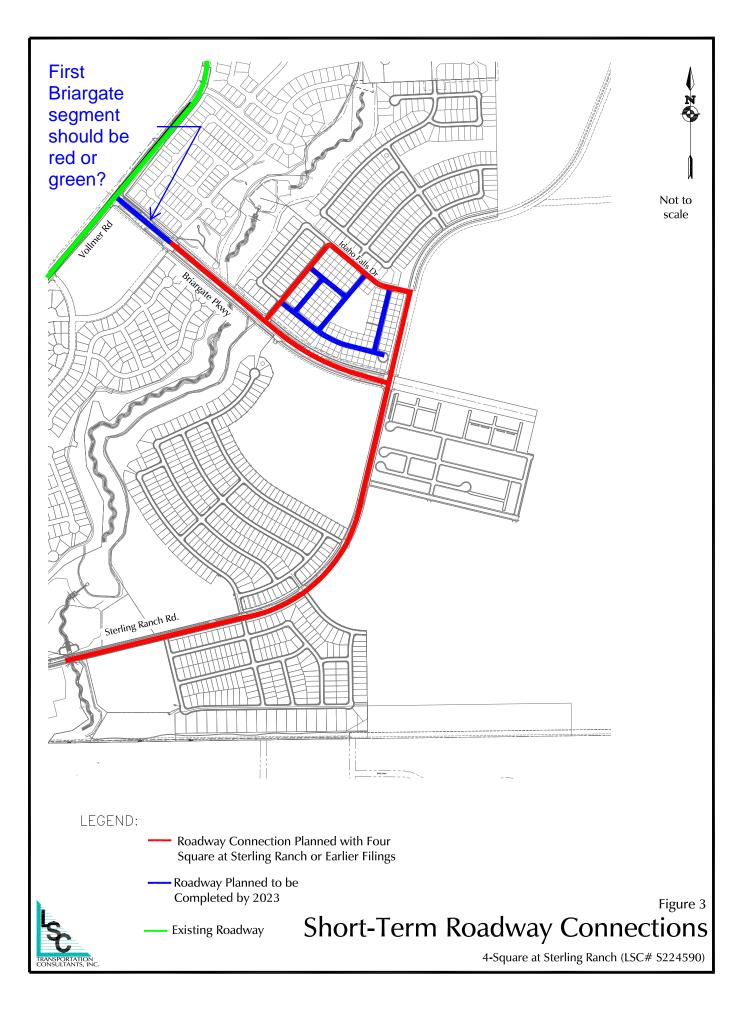
Site-generated traffic and distribution may need to be updated per response to land use comment on page 2

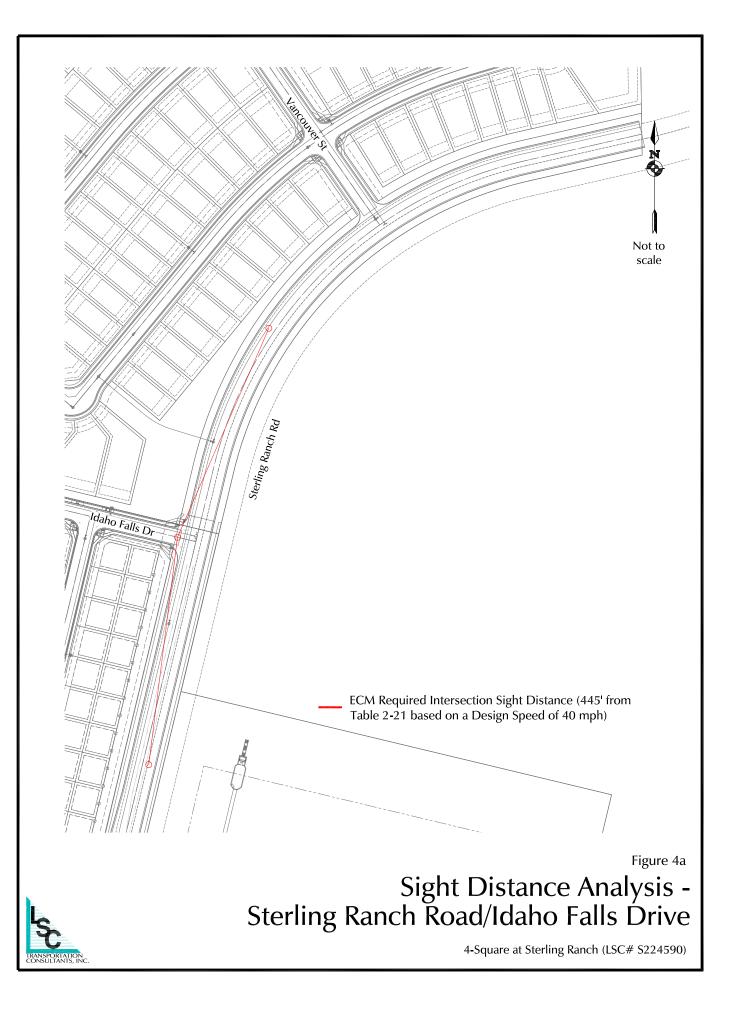
Figures

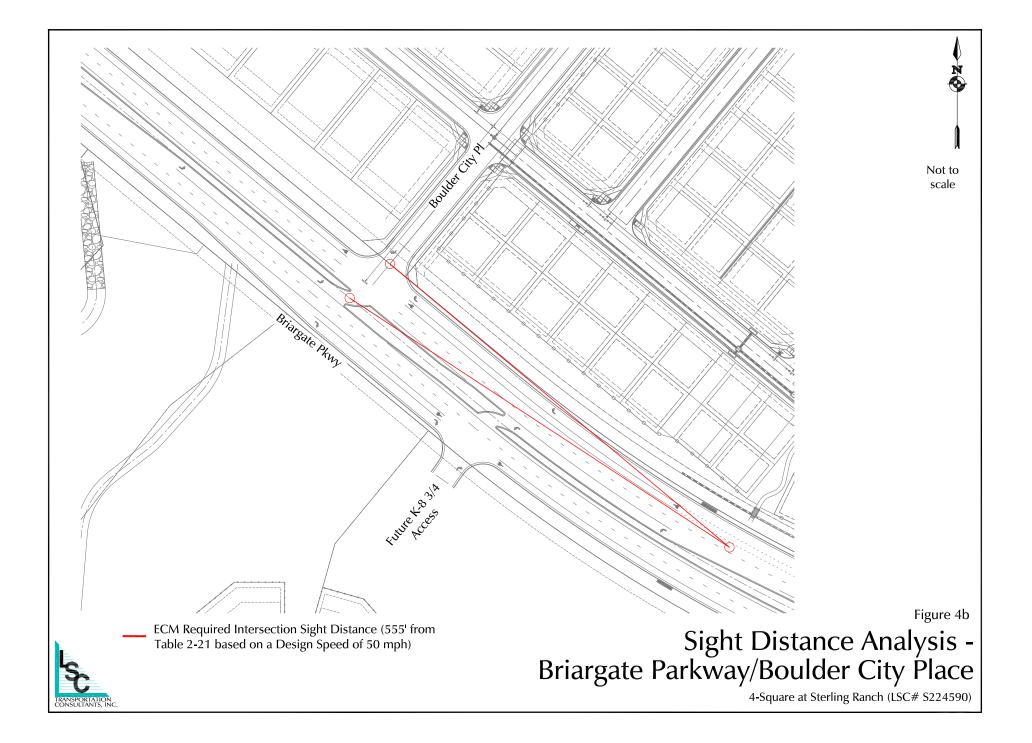


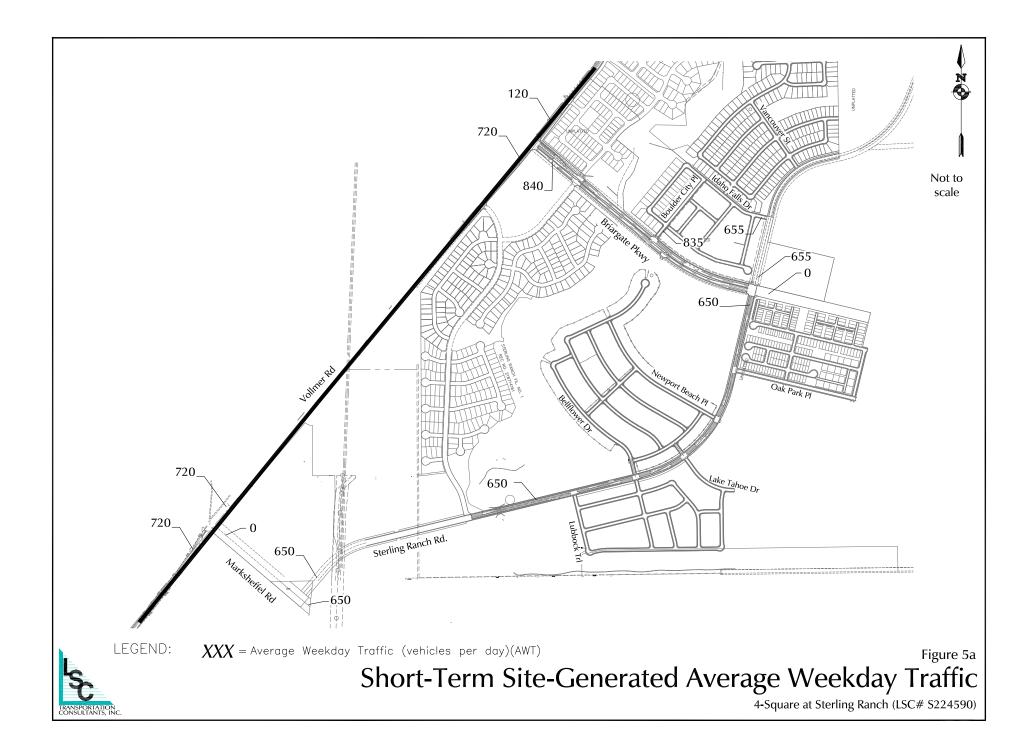


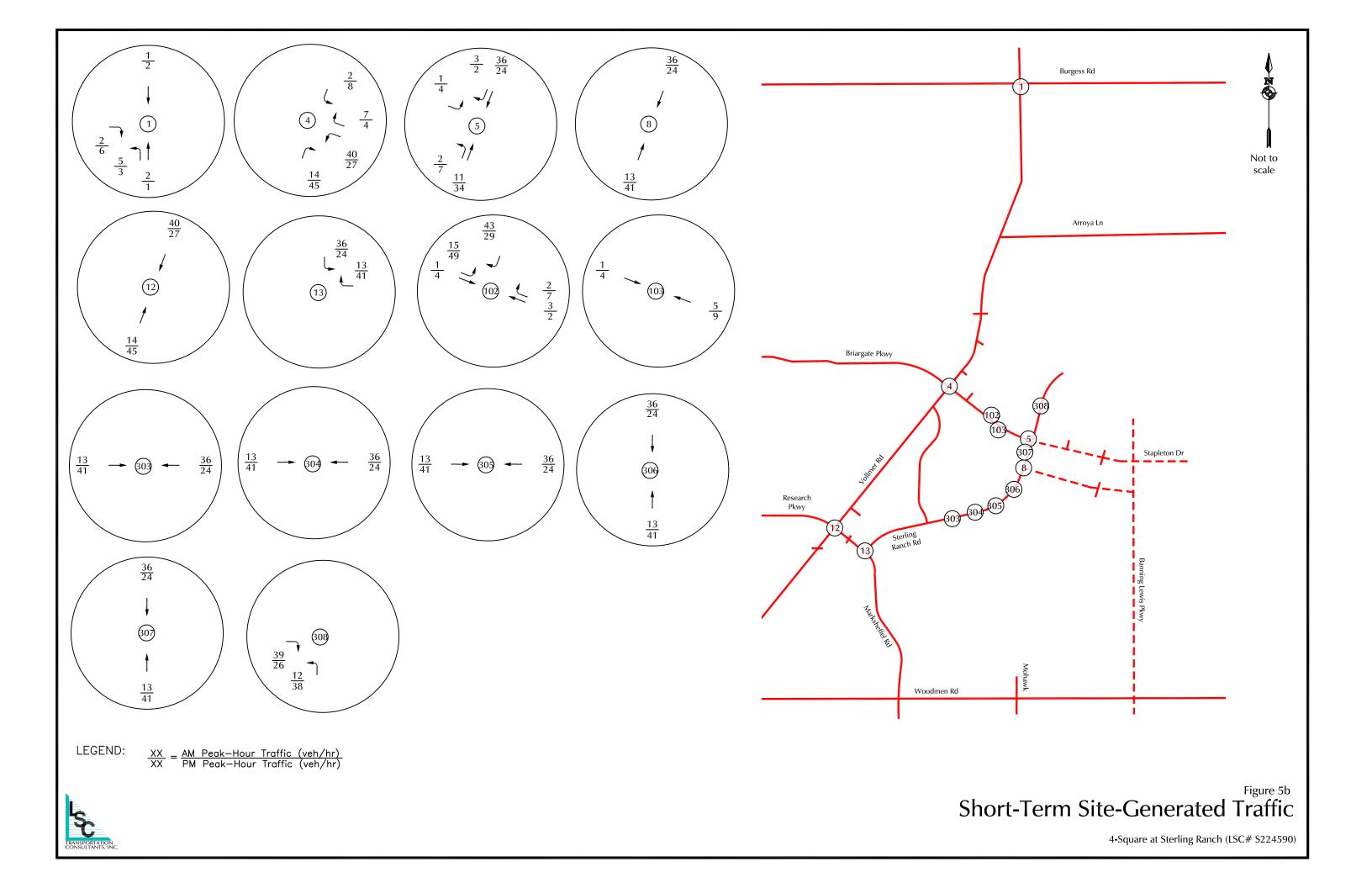


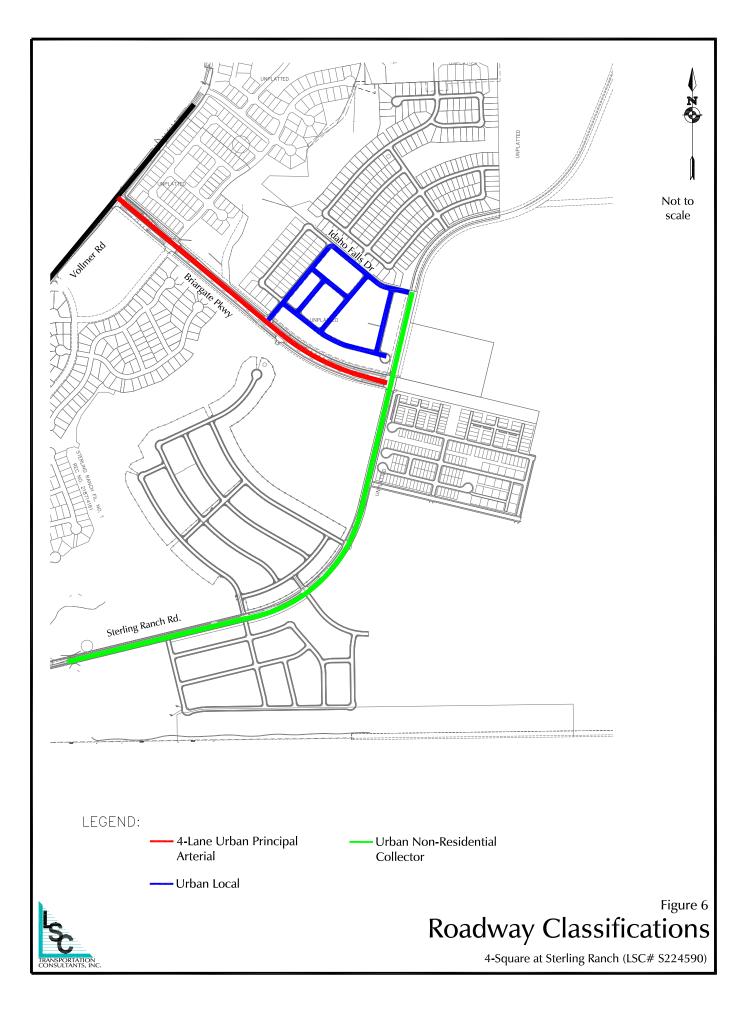












Additional Attachments

Tables 5 and 6 from *Sterling Ranch East Phase 1 Rezoning and Preliminary Plan TIS* with notes by LSC



Source: Sterling Ranch East Phase 1 Rezoning and Preliminary Plan TIS, November 17, 2022. With notes for Sterling Ranch East Filings 1A and 1 and FourSquare at Sterling Ranch East by LSC 11/17/2022 Table 5 Sterling Ranch East Phase 1 Preliminary Plan Intersection Improvements Item # Timina Responsibility Improvement Triager 1) Burgess Road/Vollmer Road When the LOS degrades below LOS F This in may be eligible inten fee impact program nstruct as a modern one-lane roundabou Existing deficiency Future SRE 12) Marksheffel Road/Vollmer Road Filings 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 may be eligible inte fee impact program ation of the intersection 14) Marksheffel Road/Sterling Ranch Road SRE Fil 1 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 3 SRMD#3 102) Briargate Parkway/Boulder City Place With Sterling Ranch East Phase 1 Preliminary Plan or Foursquare at Sterling Ranch SRE Fil 1A or eastbound left-turn volume > 10 vph Construct an eastbound left-turn lane on Briargate Parkway approaching Boulde City Place. The lane should be 285' long plus a 200' taper. sterling Ranch 4 FourSquare at westbound right-turn volume > 25 vph Construct a westbound right-turn deceleration lane on Briargate Parkway approaching Boulder City Place. The lane should be 235' long plus a 200' tape 5 Long Term Sterling Ranch SRE 103) Briargate Parkway/Future School 3/4 Movement Access Long Term With development of the K-8 School Parcel (Tract M) Construct a westbound left-turn lane on Briargate Parkway approaching the schoo access. The lane should be 285' long plus a 200' taper. westbound left-turn volume > 10 vph 6 Sterling Ranch Long Term With development of the K-8 School Parcel (Tract M) nstruct an eastbound right-turn deceleration lane on Briargate Parkway roaching the school access. The lane should be 235' long plus a 200' tape eastbound right-turn volume > 25 vph Sterling Ranch 5) Briargate Parkway/Sterling Ranch Road SRE Fil 1A With Sterling Ranch East Phase 1 Preliminary Plan 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 Sterling Ranch or Foursquare at Sterling Ranch Long Term With development of the K-8 School Parcel (Tract M) eastbound right-turn volume > 25 voh Construct an eastbound right-turn deceleration lane on Briargate Parkway approaching Sterling Ranch Road. The lane should be 235' long plus a 200' taper Sterling Ranch Long Term With development of the K-8 School Parcel (Tract M) 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 Sterling Ranch 10 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 11 Sterling Ranch Long Term Future SRE eastbound right-turn volume > 25 vph Construct an eastbound right-turn deceleration lane on Briargate Parkway approaching Sterling Ranch Road. The lane should be 235' long plus a 200' taper Sterling Ranch 12 Long Term Filings southbound right-turn volume > 50 vph With Sterling Ranch East Phase 1 Preliminary Plan 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 Sterling Ranch 13 303) Sterling Ranch Road/Lubbock Trail Long Term ment of the Eleme Parcel (Tract F) northeastbound right-turn volume > 50 vph construct an northeastbound right-turn deceleration lane on Sterling Ranch Roa pproaching Lubbock Trail. The lane should be 155' long plus a 160' taper Sterling Ranch 14 Long Term ment of the Eleme Parcel (Tract F) southwestbound-turn volume > 25 vph Construct a southwestbound left-turn lane on Sterling Ranch Road approa ubbock Trail. The lane should be 305' long plus a 200' taper. 15 Sterling Ranch SRE Fil 1 304) Sterling Ranch Road/Bellflower Drive northeastbound left-turn volume > 25 vph nstruct an northeastbound left-turn deceleration lane on Sterling Ranch Ro proaching Bellflower Drive. The lane should be 205' long plus a 160' taper With Sterling Ranch East Phase 1 Preliminary Plan 16 Sterling Ranch Long Term (Needed with construction of a northeastbound left-turn lane) southwestbound-turn volume > 25 vph 17 Construct a southwestbound left-turn lane on Sterling Ranch Road approach Beliflower Drive. The lane should be 205' long plus a 200' taper. Sterling Ranch 305) Sterling Ranch Road/Lake Tahoe Drive SRE Fil 1 With Sterling Ranch East Phase 1 Preliminary Plan 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 18 Sterling Ranch Not Required (Needed with construction of a northeastbound left-turn lane) 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 19 Sterling Ranch northeastbound right-turn volume > 50 vph nstruct an northeastbound right-turn deceleration lane on Sterling Ranch Ro rroaching Lake Tahoe Drive. The lane should be 155' long plus a 160' taper Long Term Sterling Ranch 20 SRE Fil 1 306) Sterling Ranch Road/Newport Beach Place northeastbound left-turn volume > 25 vph 21 nstruct a northeastbound left-turn lane on Sterling Ranch Road approaching wport Beach Place. The lane should be 205' long plus a 200' taper. With Sterling Ranch East Phase 1 Preliminary Plan Sterling Ranch SRE Fil 1A 308) Sterling Ranch Road/Idaho Falls Drive northeastbound left-turn volume > 25 vph With Sterling Ranch East Phase 1 Preliminary Plan Construct a northeastbound left-turn lane on Sterling Ranch Road approaching daho Falls Drive. The lane should be 240' long plus a 200' taper. 22 Sterling Ranch **Future SRE** 309) Sterling Ranch Road/Vancouver Street northeastbound left-turn volume > 25 vph nstruct a northeastbound left-turn lane on Sterling Ranch Road approaching noouver Street. The lane should be 265' long plus a 200' taper. With Sterling Ranch East Phase 1 Preliminary Plan 23 Sterling Ranch Filings ion Consultants, Inc. (November 2022)

| mber 17, 202 have been h 1 or 1A hav | Ranch East Phase 1 Rezoning and Preliminary Plan TIS, 22. Improvements needed prior to FourSquare at Sterling Ranch ighlighted in green. Improvements needed with Sterling Ranch e been highlighted in yellow. Improvements needed with ng Ranch East as noted in text boxes with pointer. | Table 6 Roadway Segment Improvements Sterling Ranch East Phase 1 Preliminary Plan (Page 1 of 2) | | | | | | | |
|---|---|---|--|---|--------------------|--|--|--|--|
| ID ⁽¹⁾ (See Figure 16 for map) | Improvement Description | | Timing | Responsibility | | | | | |
| V1 northbound V1 southbound | Restriping the 38' of pavement for two 11' southbound lanes (remove the bike lane), a 12 outside paved shoulder along the east edge ⁽²⁾ (Pending City Traffic Engineering Approval) | 2' northbound lane and a 4' | With Sterling Ranch Filing No. 4 | 5,500 (Directional northbound) 10,000 (Directional southbound) | 13,080 | Sterling Ranch | | | |
| V1 | Improve Vollmer Road between Dry Needle Place and the Sterling Ranch south boundary Minor Arterial Cross Section (Add a second northbound through lane and painted center | | Intermediate-Term Future | 20,000 | | Sterling Ranch, if necessary pri- construction by Others | | | |
| V2 | Improve Vollmer Road between the Sterling Ranch south boundary to Lochwinnoch Lane, to a standard 4-Lane Urban Minor Arterial Cross Section ⁽²⁾ | /Sterling property boundary | Short-Term Future (With Sterling Ranch Fil No. 2 Or Sterling Ranch Phase 2) | (With Sterling Ranch Fil No. 2 Or Or Or Capacity 8,000 ⁽³⁾) | | | | | |
| V3 | Short Term: Improve Vollmer Road from Lochwinnoch Lane to Sterling Ranch boundary (provide 36' of pavement (existing pavement 1 approx. 23.38') and stripe for one through striped outside shoulder in each direction ⁽²⁾ Long Term: Improve Vollmer Road from Lochwinnoch Lane to Sterling Ranch boundary (not striped outside should from Lochwinnoch Lane to Sterling Ranch boundary (not striped outside should from Lochwinnoch Lane to Sterling Ranch boundary (not striped outside should from Lochwinnoch Lane to Sterling Ranch boundary (not striped outside should from Lochwinnoch Lane to Sterling Ranch boundary (not striped outside should from Lochwinnoch Lane to Sterling Ranch boundary (not striped outside should from Lochwinnoch Lane to Sterling Ranch boundary (not striped outside should from Lochwinnoch Lane to Sterling Ranch boundary (not striped outside should from Lochwinnoch Lane to Sterling Ranch boundary (not striped outside should from Lochwinnoch Lane to Sterling Ranch boundary (not striped outside should from Lochwinnoch Lane to Sterling Ranch boundary (not striped outside should from Lochwinnoch Lane to Sterling Ranch boundary (not striped outside should from Lochwinnoch Lane to Sterling Ranch boundary (not striped outside should from Lochwinnoch Lane to Sterling Ranch boundary (not striped outside should from Lochwinnoch Lane to Sterling Ranch boundary (not striped outside should from Lochwinnoch Lane to Sterling Ranch boundary (not striped outside should from Lochwinnoch Lane to Sterling Ranch boundary (not striped outside should from Lochwinnoch Lane to Sterling Ranch boundary (not striped outside should from Lochwinnoch Lane to Sterling Ranch boundary (not striped outside should from Lochwinnoch Lane to Sterling Ranch boundary (not striped outside should from Lochwinnoch Lane to Sterling Ranch boundary (not striped outside should from Lochwinnoch Lane to Sterling Ranch boundary (not striped outside should from Lochwinnoch kan to striped outside should from Lane to striped outsid | lane and plus a 6' paved, | Short-Term Future (With Homestead North) Long-Term Future | 11,000 (Note: Existing Capacity 8,000) 20,000 | 15,040 | Sterling Ranch By others - pursuant to the re development agreement betw | | | |
| ₩4 | a standard 4-Lane Urban Minor Arterial Cross Section ⁽²⁾ Improve Vollmer Road from Sterling Ranch boundary (northeast of Glider Loop) to Briarga Lane Urban Minor Arterial Cross Section ⁽²⁾ | ate Parkway to a standard 4- | Sections V4, V5, V6 to be constructed by May 2024 | 20,000 | 14,495 | Sterling Ranch and EPC. | | | |
| V5 | Improve Vollmer Road from Briargate Parkway to Jane Kirkham Drive to a standard 4-Lan Cross Section ⁽²⁾ | e Urban Minor Arterial | Sections V4, V5, v6 to be constructed by May 2024 | 20,000 | 11,690 | Sterling Ranch | | | |
| V6 | Improve Vollmer Road from Jane Kirkham Drive to Sam Bass Drive to a standard 4-Lane U Section ⁽²⁾ | Irban Minor Arterial Cross | Short-Term Future– May 2024 Sections V4, V5, v6 to be constructed by May 2024 | 20,000 | 11,425 | Sterling Ranch | | | |
| <mark>V7</mark> | Improve Vollmer Road between Sam Bass Drive and Poco Road to a 4-lane Urban Minor A lane transitions, redirect tapers, etc. south of Poco to adequately transition between the Cross Section and the 2-Lane Rural Arterial Cross Section north of Poco Road. | | Sections V4, V5, v6 to be constructed by May 2024 | 20,000 | <mark>9,920</mark> | Sterling Ranch | | | |
| V8 | Improve Vollmer Road from Poco Road to Shoup Road to a Rural 2-Lane Arterial Cross Sec | ction ⁽²⁾ | Long-Term Future | 10,000 | 8,760 | El Paso County Project ID U-12 | | | |
| Notes: (1) See Fi (2) Adequ 40 mil (3) Source | gure 10 Jate transition/redirect tapers would be needed between the various cross sections on Vol le per hour is 20:1 e: Table 20 Road Impact Fee Study Updated November 16, 2016 Importation Consultants, Inc. (November 22, 2022) | llmer Road. Based on the criteri | ia contained in Table 2-29 of the <i>El Paso Engineering Criteria</i> | ' <i>Manual</i> an appropria | te taper ratio f | · · | | | |

Source: Sterling Ranch East Phase 1 Rezoning and Preliminary Plan TIS, November 17, 2022. Improvements needed prior to FourSquare at Sterling Ranch Table 6 East have been highlighted in green. Improvements needed with Sterling Ranch **Roadway Segment Improvements** With 4-Square Filing 1 or 1A have been highlighted in yellow. Improvements needed with FourSquare Sterling Ranch East as noted in text boxes with pointer. **Sterling Ranch East Phase 1 Preliminary Plan** at SRE (Page 2 of 2) Segment ID⁽¹⁾ (See Figure 16 for map) **Improvement Description** Timing Short Term - with Sterling Ranch Fil No. 2 SR1 Construct Sterling Ranch Road as an Urban Non-Residential Collector from Marksheffel Road to Dines Boulevarc SR2 K Short-Term - with this Preliminary Plan Construct Sterling Ranch Road as an Urban Non-Residential Collector from Dines Boulevard to Briargate Parkway SR3 Construct Sterling Ranch Road as an Urban Collector from Briargate Parkway to Vancouver Street. Short-Term - with this Preliminary Plan SR4 Construct Sterling Ranch Road from Vancouver Street north to Arroya (or ultimate north terminus) Long-Term Future Construct Marksheffel Road as an Urban Principal Arterial to City of Colorado Springs standards in 107' of right-of-way betwe To be completed by the end of 2022 M1 ollmer Road and Sterling Ranch Road 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. To be completed **in 2023** M2 10/16/2022 NOTE: With the completion of M2 in 2023, the connection between Vollmer and Woodmen Road (via M3) will b completed. 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) M3 **<u>Completed</u>** (by Others) 10/16/2022 NOTE: With the completion of M2 in 2023, the connection between Vollmer and Woodmen Road (via M3) will be completed. M4 Construct Marksheffel Road between Black Forest Road and Vollmer Road Long-Term Future Full section to be completed in 2023 with Homestea **B1** construct the full section of Briargate Pkwy (4-Lane Principal Arterial) between Vollmer Road and Wheatland Drive at Sterling Ranch Filing No. 1 Full section to be completed in 2023 or Spring 2024 Construct Briargate Pkwy (full section) as a 4-Lane Principal Arterial between Wheatland Dr and Sterling Ranch Road **B**2 B3 Intermediate Term Construct Briargate Pkwy as a 4-Lane Principal Arterial between Sterling Ranch Road and Banning Lewis Parkway Construct Stapleton Road as a 4-Lane Principal Arterial between Banning Lewis Parkway and Meridian Road (including upgrade of Β4 Long-Term Future existing rural two-lane segment between Towner and Meridian) Construct Briargate Pkwy as a 4-Lane Principal Arterial between its current terminus and Black Forest Road and between Black B5 Long-Term Future Forest Road and Vollmer Road BL1 Construct Banning Lewis Parkway as a 4-Lane Principal Arterial between the south Sterling Ranch boundary and Briargate Pkwy Long-Term Future Construct Banning Lewis Parkway as a 4-Lane Principal Arterial between Woodmen Road and the south Sterling Ranch boundary BL2 Long-Term Future (Note this segment will be located within the City of Colorado Springs) W1 Widen Woodmen Road from 4-lane to 6-lane section from Powers Boulevard to US 24 Long-Term Future 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 Managl* an appropriate taper ratio for a roadway with a design speed of 40 mile per hour is 20:1 (3) Source: Table 20 Road Impact Fee Study Updated November 16, 2016 Source: LSC Transportation Consultants, Inc. (November 22, 2022)

| | Projected | |
|---------------------|---------------------|----------------|
| Design ADT | 2042 ADT | |
| (vpd) | (vpd) | Responsibility |
| | | |
| <mark>20,000</mark> | <mark>14,840</mark> | Sterling Ranch |
| <mark>20,000</mark> | <mark>10,275</mark> | Sterling Ranch |
| <mark>10,000</mark> | <mark>9,300</mark> | Sterling Ranch |
| 10,000 | 4,260 | Sterling Ranch |
| <mark>40,000</mark> | <mark>23,935</mark> | Sterling Ranch |
| | | |
| 40,000 | <mark>29,600</mark> | Sterling Ranch |
| | | |

| 40,000 | 28,480 | Others (Completed) |
|---------------------|---------------------|---|
| 40,000 | 27,910 | Others |
| <mark>40,000</mark> | <mark>24,745</mark> | Sterling Ranch |
| <mark>40,000</mark> | <mark>26,375</mark> | Sterling Ranch |
| 40,000 | 20,935 | Sterling Ranch |
| 40,000 | 17,945 | Others |
| 40,000 | 23,320 | Others |
| 40,000 | 20,320 | Future- TBD with the future preliminary plan for that area- potentially, financial assurances for half-section, west-side half-section or full-section w/ cost recover may be required |
| 40,000 | 28,480 | Others |
| 72,000 | 66,690 | Others |
| | | |

From Briargate Parkway to Idaho Falls Dr with 4-Square at SRE. From Idaho Falls Dr to Vancouver St with future SRE filings.