

## Technical Memorandum

To: Brian Stephenson, City of Murrieta

From: Marc Mizuta, Mizuta Traffic Consulting

Date: March 28, 2024

Re: Revised Traffic Analysis for the Proposed Viscar Terrace Apartments Project (PRE-2023-

00016)

Mizuta Traffic Consulting (MTC) has prepared this memo summarizing the traffic analysis along Vista Murrieta Road for the proposed Viscar Terrace Apartments project ("Project") located in the City of Murrieta. This memo will address the following two key items: 1) traffic operations along Vista Murrieta Road and 2) sight distance at the project driveway.

#### PROJECT LOCATION

The Project site is located on two parcels (APN 949-180-022 and -23) that will be combined into one. The site currently contains a single family dwelling unit and an accessory building. The Project is generally located west of Vista Murrieta Road, east of Skypark Lane, and north of Carrigan Road. Access to the site is being proposed off Vista Murrieta via one new full access driveway.

#### PROJECT DESCRIPTION

The Project proposes to demolish the existing buildings on site and construct a 172-unit affordable housing project spanning over six buildings. An emergency access that is gated is provided onto Myers Lane. Figure 1 shows the proposed site plan.

#### PROJECT TRIP GENERATION

The trip generation rate for the Project was based on the rates for the various land uses contained in the Institute of Transportation Engineers (ITE) Trip Generation Manual, 11<sup>th</sup> Edition. Table 1 summarizes the proposed trip generation for the Project.

As shown in the table, the Project is estimated to generate 828 daily trips (ADT) with 62 trips (18 inbound, 14 outbound) during the AM peak-hour and 80 trips (48 inbound, 32 outbound) in the PM peak-hour.



Table 1: Trip Generation Summary

		TRIP GENERAT	ΓΙΟΝ R <i>A</i>	TES <sup>1</sup>					
	ITE				AM PEAI	K		PM PEAK	
Land Use	Code	Weekday Dai	ily	Rate	In:Ot	ıt Ratio	Rate	In:Out	Ratio
Affordable Housing	223	4.81 trips /	du	0.36	0.29	: 0.71	0.46	0.59	: 0.41
	I	RIP GENERATION	CALCU	LATIONS					
					AM PEAI	K		PM PEAK	
Land Use		Amount	ADT	In	Out	Total	In	Out	Total
Viscar Terrace Apartments		172 du	828	18	44	62	48	32	80
TOTAL			828	18	44	62	48	32	80

Notes:

du: dwelling unit

<sup>1.</sup> The trip and passby rates for the project's land uses are based on the Institute of Transportation Engineers (ITE) Trip Generation Manual, 11th Edition.



#### PROJECT TRIP DISTRIBUTION/ASSIGNMENT

The Project trip distribution was estimated based on existing travel patterns and on logical routes to local roadway network. Since Vista Murrieta Road is not fully built to its ultimate capacity, all Project traffic was assumed to travel to/from the north. Figure 2 illustrates the assumed Project trip distribution through the project driveway. Based on the Project trip generation and distribution, the Project trips were assigned to the project driveway. Figure 3 illustrates the Project trip assignment.

#### STUDY AREA

The following intersections and roadway segment are included as part of the study area:

#### Intersections

1. Vista Murrieta Road & Project Driveway (constructed as part of Project)

#### **Segments**

1. Vista Murrieta Road between Skypark Lane and Carrigan Road

#### ANALYSIS SCENARIOS

The following scenarios were evaluated as part of the project:

- Existing Conditions: This scenario represents the conditions on the ground at the time the traffic volume data was obtained (Thursday, November 2, 2023).
- Opening Year 2026 Baseline: This scenario represents the conditions on the anticipated year of opening for the Project, which is assumed to occur in 2026. This scenario also includes traffic from other approved and reasonably foreseeable pending projects that are expected to influence the study area.
- Opening Year 2026 Plus Project: This scenario represents the conditions of the anticipated year of opening for the Project and includes the Project traffic.

The traditional weekday peak-hour coinciding with the highest volume of traffic between 7:00 and 9:00 AM and between 4:00 and 6:00 PM was evaluated for each analysis scenario.

#### **METHODOLOGY**

Signalized and unsignalized intersection operations were analyzed with Synchro 11 software (Trafficware), using the methodologies outlined in the *Highway Capacity Manual* 6<sup>th</sup> *Edition* (HCM6). The HCM methodology calculates delay, which corresponds to a particular LOS, to describe the overall operation of an intersection. Delay is a measure of driver and/or passenger discomfort, frustration, fuel consumption and lost travel time.

The LOS for unsignalized intersections is determined by the computed or measured control delay and is defined for each minor movement. At a one-way or two-way stop control intersection, the



delay reported represents the worst movement, which is typically the left-turns from the minor street approach. The criteria for the LOS grade designations are provided in Table 2.

Table 2 LOS Criteria for Intersections

	LOS Criter	ia (sec/veh)	
LOS	Signalized Intersections	Unsignalized Intersections	Description
A	⊴10	⊴10	EXCELLENT. Operations with very low delay and most vehicles do not stop.
В	>10 and <u>&lt;</u> 20	>10 and <u>&lt;</u> 15	VERY GOOD. Operations with good progression but with some restricted movements.
С	>20 and <u>&lt;</u> 35	>15 and <u>&lt;</u> 25	GOOD. Operations where a significant number of vehicles are stopping with some backup and light congestion.
D	>35 and <u>&lt;</u> 55	>25 and <u>&lt;</u> 35	FAIR. Operations where congestion is noticeable, longer delays occur, and many vehicles stop. The proportion of vehicles not stopping declines.
E	>55 and <u>&lt;</u> 80	>35 and <u>&lt;</u> 50	POOR. Operations where there is significant delay, extensive queuing, and poor progression.
F	>80	>50	FAILURE. Operations that are unacceptable to most drivers, when the arrival rates exceed the capacity of the intersection.

Source: Highway Capacity Manual 6th Edition

Roadway segment LOS standards and thresholds provide the basis for analysis of arterial roadway segment performance. This analysis is based on the functional classification of the roadway, the maximum capacity, roadway geometrics, and the daily traffic volumes.

**Table 3** summarizes the capacities for the various roadway classifications with the City of Murrieta for each respective LOS.



Table 3 LOS Criteria for Roadway Segments

	Number of	Maximun	ı Two-Way Volui	me (ADT)
Facility Type	Lanes	LOS C	LOS D	LOS E
Freeway	4	61,200	68,900	76,500
Freeway	6	94,000	105,800	117,500
Freeway	8	128,400	144,500	160,500
Freeway	10	160,500	180,500	200,600
Expressway	4	32,700	36,800	40,900
Expressway	6	49,000	55,200	61,300
Multi-Modal Collector	4	28,700	32,300	35,900
Multi-Modal Collector	6	43,100	48,500	53,900
Augmented Urban Arterial	8	57,400	64,600	71,800
Urban Arterial	6	43,100	48,500	53,900
Arterial	4	28,700	32,300	35,900
Arterial	6	43,100	48,500	53,900
Major	4	27,300	30,700	34,100
Secondary	4	20,700	23,300	25,900
Collector	2	10,400	11,700	13,000

Source: City of Murrieta General Plan Update, Table 3

#### TRAFFIC VOLUMES

Existing traffic volume counts were obtained on November 2, 2023 along Vista Murrieta Road and Skypark Lane. It was confirmed that school was in session according to the Murrieta Valley Unified School District. Figure 4 illustrates the Existing traffic volumes.

The Opening Year 2026 Baseline Conditions traffic volumes were developed by applying a regional growth factor of two percent to the existing traffic volumes for two years. The growth rate is consistent with other projects in the project vicinity. Figures 5 and 6 illustrate the Opening Year 2026 Baseline and Opening Year 2026 With Project traffic volumes.

#### INTERSECTION ANALYSIS

The City's General Plan Circulation Element Policy CIR-1.2 states that all intersections need to maintain a Level of Service (LOS) D or better during peak hours.

**Table 4** summarizes the LOS analysis results for the Vista Murrieta Road & Project Driveway intersection under all scenarios. As shown in the table, the project driveway would operate at LOS A during the weekday peak-hours. As a result, no additional improvements are required and/or recommended.



Table 4
Peak Hour Intersection LOS Summary

		Traffic	Peak	Exist Condi	$\mathcal{O}$	Openin 202	0	Openin 2025 v	$\mathcal{O}$
#	Intersection	Control	Hour	Delay <sup>l</sup>	LOS <sup>2</sup>	Delay <sup>l</sup>	LOS <sup>2</sup>	Delay <sup>l</sup>	$LOS^2$
1	Vista Murrieta	OWSC	AM	DN	Е3	DN	E3	9.2	A
	Rd & Proj Dwy	UWSC	PM	DIN	L-	DIV	L'	9.3	A

Notes:

OWSC: One-Way Stopped Control

- 1. Delays are reported as the average control delay for the entire intersection at signalized intersections and the worst movement at unsignalized intersections.
- 2. LOS calculations are based on the methodology outlined in the *Highway Capacity Manual 6th Edition (HCM6)* and performed using Synchro 11.
- 3. DNE: Does not exist and will be constructed as part of the Project.

#### ROADWAY SEGMENT ANALYSIS

The City's General Plan Circulation Element Policy CIR-1.3 states that all roadway segments need to maintain a LOS D or better. Vista Murrieta Road is classified as a Collector roadway, but is not built to its ultimate classification and functions as a 2-lane local roadway. There is no capacity assigned to a local roadway. As a result, the LOS was based on its ultimate capacity of a Collector roadway of 13,000 ADT.

**Table 5** displays the LOS analysis for the Vista Murrieta Road segment under all scenarios. As shown in the table, the Vista Murrieta Road segment would function at LOS A under all scenarios. As a result, no additional improvements are required and/or recommended.

Table 5 Opening Year 2025 Roadway LOS Summary

	Existi	ng Condi	tions	Open	ing Year	2026		ng Year 2 w/Proj	2026
Roadway Segment	ADT	v/c Ratio <sup>l</sup>	LOS	ADT	v/c Ratio <sup>l</sup>	LOS	ADT	v/c Ratio <sup>l</sup>	LOS
Vista Murrieta Rd	•								
Skypark Ln to Carrigan Rd	685	0.05	A	712	0.05	A	1,540	0.12	A

Notes:

#### SIGHT DISTANCE

The sight distance at the project driveway was analyzed to ensure it satisfied the requirements of the City's Standard Drawing No. 214. Vista Murrieta Road is classified as a Collector roadway (rolling designation) and has a design speed of 35 miles per hour (mph). A design speed of 35 mph requires a minimum corner sight distance of 385 feet and a minimum stopping sight distance of 250 feet. The sight distance is measured 10 feet behind the edge of travel way.

Figure 7 illustrates the sight distance at the project driveway. As shown in the figure, the corner sight distance of 385 feet cannot be achieved due to the horizontal curve along Vista Murrieta Road. However, the stopping sight distance of 360 feet is satisfied. The projected low traffic

<sup>1.</sup> The ultimate capacity of a Collector roadway (13,000 ADT) was used for the analysis.



volumes along this roadway with the Project and the projected lower speeds in the southbound direction due the horizontal curvature of the roadway would substantiate the Project satisfying the sight distance requirements.

#### **SUMMARY**

The following list summarizes the key findings for the Project:

- The Project consists of demolishing the existing buildings on site and constructing a 172-unit affordable housing project spanning over six buildings.
- The Project is forecasted to generate 828 daily trips with 62 AM peak-hour trips and 62 PM peak-hour trips at the project driveway.
- The project driveway intersection with Vista Murrieta Road is expected to operate at an acceptable LOS A under all scenarios. This satisfies the General Plan Circulation Element Policy CIR-1.2.
- The Vista Murrieta Road roadway is expected to function at an acceptable LOS A under all scenarios. This satisfies the General Plan Circulation Element Policy CIR-1.3.
- The project driveway off Vista Murrieta Road satisfies the City's corner sight distance requirements per the City's Standard Drawing No. 214.

# **ATTACHMENTS**

- Figures
- Excerpts from City of Murrieta's Standard Drawings
  Existing Traffic Volume Data
- Synchro Worksheets







Viscar Terrace Apartments Project Trip Distribution

Figure 2



xx / yy = AM / PM Peak-Hour Turning Movement Volumes The naming convention for intersections is North / South & East / West

Vista Murrieta & Proj Dwy

84

92

44 / 32

MEZUTA TRAFFIC CONSULTING Viscar Terrace Apartments

Project Trip Assignment

Figure 3



xx/yy = AM/PM Peak-Hour Turning Movement Volumes The naming convention for intersections is North / South & East / West xx,xxx ADT

Vista Murrieta & Proj Dwy

Does not exist



Viscar Terrace Apartments



xx / yy = AM / PM Peak-Hour Turning Movement Volumes The naming convention for intersections is North / South & East / West

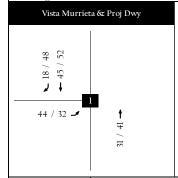
### Vista Murrieta & Proj Dwy

Does not exist





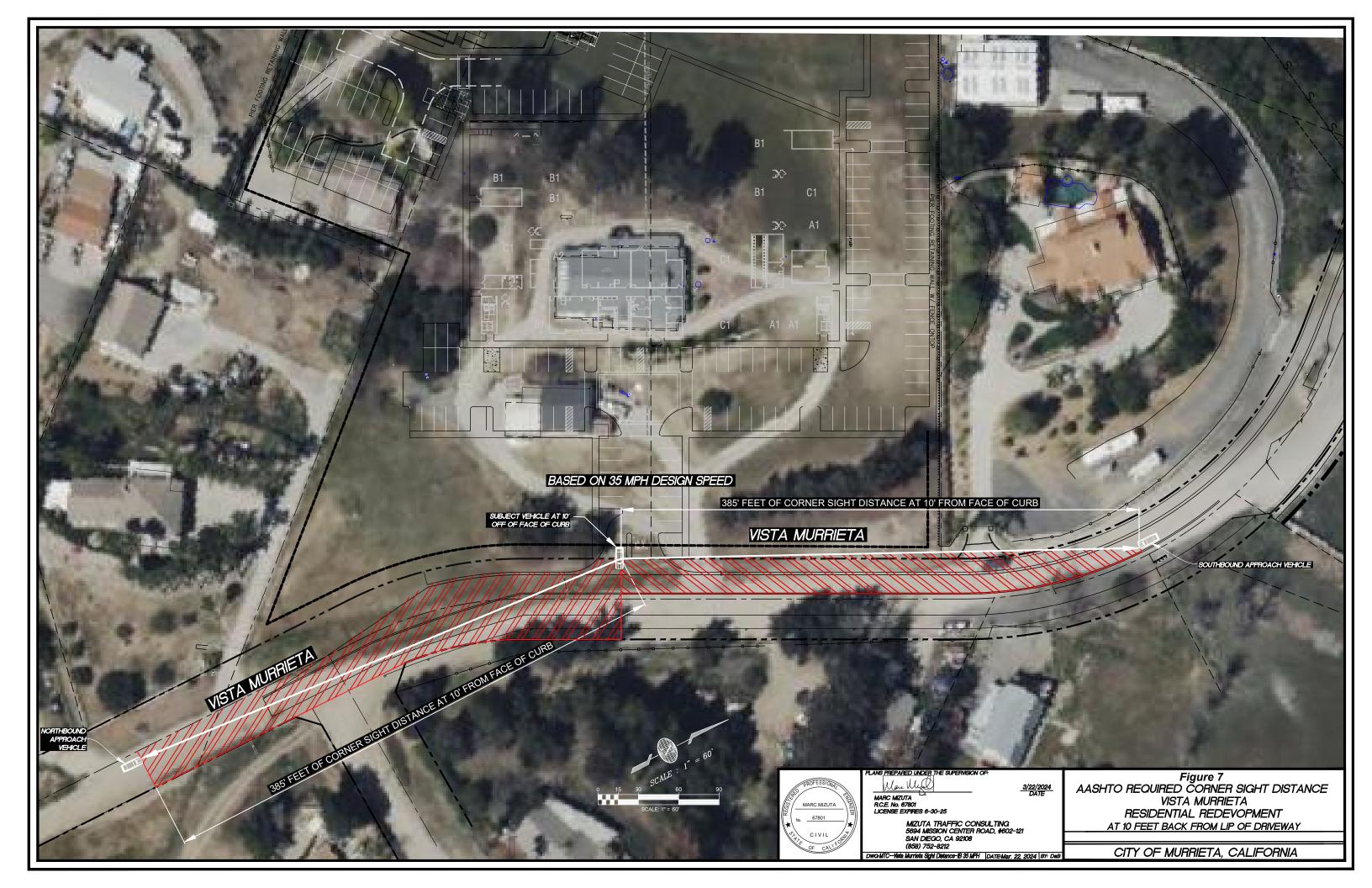
xx / yy = AM / PM Peak-Hour Turning Movement Volumes The naming convention for intersections is North / South & East / West



Viscar Terrace Apartments

Opening Year 2026 With Project Traffic Volumes

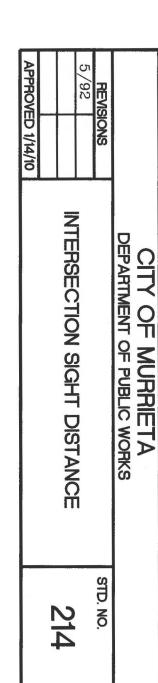
Figure 6

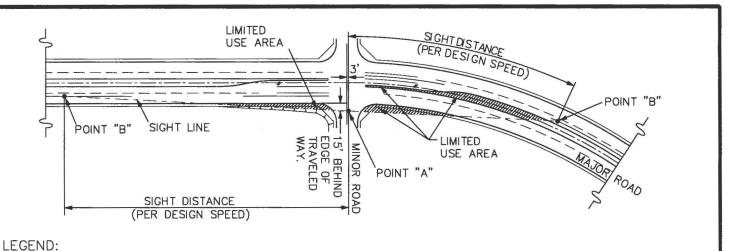


			-7/0/4			4.14			-				
5/9 10/9							ROAD	TYPE					
75/92 10/98 APPROVED 1/14/10				RESTRICTED LENGTH CUL-DE-SAC	SHORT LOCAL CUL DE SAC	LOCAL ROAD	COLLECTOR (RESIDENTIAL /INDUSTRIAL)	SECONDARY	MAJOR	MOUNTAIN ARTIERIAL	ARTERIAL	URBAN ARTERIALS	EXPRESSWAY
	DE C	R/W		50	60	60	66/78	88	100	110	110	120 134	142
H RO	CITY OF	SURFACED WIDT CURB TO CURB	Н	32	36	40	44/56	64	76	REFER TO STANDARD 114	86	98 110	86
ADWA	10 "	PREFERRED RADII (HORIZONTAL)	FLAT ROLLING MOUNTAINOUS	300 300 AS	300 300 APPRO	300 300 VED 8	,	1600 1000 CITY E	2000 1600 NGINEE	- 850 R	2000 1600	2000 1600	2400 2000
ROADWAY DESIGN REQUIREMENTS	MURRIETA  OF PUBLIC WORKS	MAX. GRADE %	FLAT ROLLING MOUNTAINOUS	4 9 15	4 9 15	4 9 15	4 8 12	3 6 9	3 6 9	- 7 9	3 6 9	3 6 –	3 6 -
ω <u>S</u>	TA WORKS	DESIGN SPEED	FLAT ROLLING MOUNTAINOUS	30 30 AS AF	30 30 PROVE	30 30 D BY	45 35 THE CIT	55 45 Y ENC	60 55 SINEER	- 45 (R=150	60 55 O' MIN.)	60 55	65 60
		INTERSECTION IN	NTERVALS	NA	200	200	200	** 330	** 660	** 330	** 1320	* 1320	* 2640
थ			Y DESIGN LESS I STREET GRADE								nt app	PROVAL.	

- 3. PART-WIDTH STREET SECTIONS SHALL BE IMPROVED AND R/W CONVEYED AS SHOWN ON TYPICAL STREET SECTIONS.

  \* DIRECT ACCESS PROHIBITED.
- \*\* RESIDENTIAL ACCESS PROHIBITED. COMMERCIAL/INDUSTRIAL DRIVEWAY ACCESS AS DETERMINED BY THE CITY ENGINEER.





LIMITED USE AREA

SIGHT LINE

CENTERLINE OF ROADWAY

CENTERLINE OF TRAFFIC LANE

STOPPING

SIGHT DIST.

(FT.)

150

200

250

300

360

430

500

580

DESIGN

SPEED

(M.P.H.)

30

35

40

45

50

55

60

CORNER

SIGHT DIST.

(FT.)

275

330

385

440

495

550

605

660

POINT "A": DRIVER'S VANTAGE POINT.

POINT "B": THE REQUIRED SIGHT DISTANCE POINT, MEASURED ALONG THE CENTERLINE OF THE NEAREST LANE OF APPROACHING TRAFFIC.

#### NOTES:

#### NOT TO SCALE

THE LIMITED USE AREA IS DETERMINED BY THE GRAPHICAL METHOD. IT SHALL
BE USED FOR THE PURPOSE OF PROHIBITING OR CLEARING OBSTRUCTIONS TO
MAINTAIN ADEQUATE SIGHT DISTANCE AT INTERSECTIONS.

2. LIMITED USE AREA TO BE KEPT CLEAR OF ALL OBSTRUCTIONS OVER 30 INCHES HIGH, INCLUDING VEGETATION.

NO TREES, WALLS, OR ANY OBSTRUCTIONS SHALL BE ALLOWED IN THE LIMITED USE AREA.

4. THE TOE OF SLOPE SHALL NOT ENCROACH INTO THE LIMITED USE AREA

5. THE SIGHT DISTANCE SHALL BE MEASURED ALONG THE CENTERLINE OF THE ROAD.

5. POINT "A" IS THE LOCATION OF THE DRIVER'S EYE, MEASURED 15 FEET BACK FROM THE EDGE OF THE TRAVELED WAY. (6 FEET FROM ETW, 1 FOOT STOP BAR, AND 8 FEET FROM FRONT BUMPER TO DRIVER.) IF THE STOP BAR IS MORE THAN 6 FEET FROM THE ETW. ADDITIONAL ALLOWANCE SHOULD BE CONSIDERED.

7. POINT "B" IS THE REQUIRED SIGHT DISTANCE POINT LOCATED ALONG THE CENTER OF THE NEAREST TRAFFIC LANE.

THE LINE OF SIGHT SHALL BE SHOWN AT INTERSECTIONS ON TENTATIVE MAPS, SITE PLANS, GRADING PLANS, STREET PLANS, AND LANDSCAPE PLANS.

 CORNER SIGHT DISTANCE IS MEASURED FROM A 3.5 FOOT HEIGHT AT THE LOCATION OF THE DRIVER'S EYE ON THE MINOR ROAD, TO A 4.25 FOOT OBJECT HEIGHT IN THE CENTER OF THE NEAREST TRAFFIC LANE OF THE MAJOR ROAD.

10. WHEN AN INTERSECTION IS LOCATED ON A VERTICAL CURVE, A PROFILE OF THE SIGHT LINE SHALL BE PROVIDED.

11. IF DESIGNING A MINOR ROAD OR DRIVEWAY FOR TRUCK TRAFFIC, OR DOWNGRADES STEEPER THAN 3% AND LONGER THAN 1 MILE, ADDITIONAL SIGHT DISTANCE MAY BE REQUIRED AS DETERMINED BY THE CITY ENGINEER.

MUR001

Site Code: 235-231042

## Counts Unlimited, Inc.

PO Box 1178 Corona, CA 92878 Phone: (951) 268-6268 email: counts@countsunlimited.com

City of Murrieta Skypark Lane B/ Myers Lane - Vista Murrieta 24 Hour Directional Volume Count

MUR002

Site Code: 235-231042

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878 Phone: (951) 268-6268 email: counts@countsunlimited.com

City of Murrieta Vista Murrieta
B/ Skypark Lane - Carrigan Road 24 Hour Directional Volume Count

Start	11/2/23	Eastbo			Totals	Westb			Totals		ed Totals
Time	Thu		Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00		0	6			0	5				
12:15 12:30		1 1	7 4			2 1	9				
12:45		0	3	2	20	0	6	3	20	5	40
01:00		1	5	2	20	1	7	3	20	3	40
01:15		0	2			0	1				
01:30		Ō	4			Ō	8				
01:45		0	3	1	14	0	3	1	19	2	33
02:00		0	9			0	10				
02:15		0	5			0	5				
02:30		0	6			0	2				
02:45		0	4	0	24	0	5	0	22	0	46
03:00		0	7			0	3				
03:15		0	11			0	4				
03:30		1	5	4	24	0	9	4	20	2	60
03:45 04:00		0 0	11 <b>7</b>	1	34	1 0	12 9	1	28	2	62
04:00 04:15		0	10			1	15				
04:30		0	9			0	11				
04:45		0	13	0	39	0	15	1	50	1	89
05:00		0	7	Ü	00	2	23		00		00
05:15		Ö	3			2	4				
05:30		0	11			3	6				
05:45		1	7	1	28	0	11	7	44	8	72
06:00		0	3			0	5				
06:15		1	2			0	3				
06:30		0	3			1	5				
06:45		3	7	4	15	1	5	2	18	6	33
07:00		13	1			3	0				
07:15		6	2			11	1				
07:30 07:45		4 9	2	32	7	7 3	1 2	24	4	56	11
08:00		7	7	32	,	12	1	24	4	30	- 11
08:15		10	6			14	4				
08:30		8	1			9	2				
08:45		5	0	30	14	8	0	43	7	73	21
09:00		12	3		• •	4	0	.0	•		
09:15		3	2			3	1				
09:30		3	5			5	5				
09:45		1	1	19	11	7	1	19	7	38	18
10:00		4	1			7	0				
10:15		1	0			6	1				
10:30		1	1		_	1_	0				_
10:45		5	2	11	4	7	0	21	1	32	5
11:00		2	0			0	1				
11:15 11:30		0 6	1			9 4	1 0				
11:45		4	0	12	1	4	0	17	2	29	3
Total		113	211	113	211	139	222	139	222	252	433
Combined		324		32		36			61	68	
Total				32	14		ı	31	01	00	55
AM Peak	-	08:15	-	-	-	08:00	-	-	-	-	-
Vol.	-	35	-	-	-	43	-	-	-	-	-
P.H.F.		0.729	04.00			0.768	04.45				
PM Peak	-	-	04:00	-	-	-	04:15	-	-	=	-
Vol. P.H.F.	-	-	39 0.750	-	-	-	64 0.696	-	-	-	-
rathe.			0.750				0.030				
Percentag		34.9%	65.1%			38.5%	61.5%				
				A A DT COE		23.070	0070				
ADT/AADT		ADT 685		AADT 685							

Intersection						
Int Delay, s/veh	2.9					
Movement	<b>□</b> DI	EDD	NDI	NDT	CDT	CDD
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	Y			્રન	Þ	
Traffic Vol, veh/h	44	0	0	31	45	18
Future Vol, veh/h	44	0	0	31	45	18
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	_	-
Veh in Median Storage		_	_	0	0	_
Grade, %	0	_	_	0	0	_
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	48	0	0	34	49	20
Major/Minor	Minor2	-	Major1	N	/lajor2	
	93	59	69	0	-	0
Conflicting Flow All						
Stage 1	59	-	-	-	-	-
Stage 2	34	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	907	1007	1532	-	-	-
Stage 1	964	-	-	_	_	-
Stage 2	988	_	_	_	_	_
Platoon blocked, %	000			_	_	_
· ·	007	1007	1532	-		
Mov Cap-1 Maneuver	907		1332		-	-
Mov Cap-2 Maneuver	907	-	-	-	-	-
Stage 1	964	-	-	-	-	-
Stage 2	988	-	-	-	-	-
Annroach	ED		NB		SB	
Approach	EB					
HCM Control Delay, s	9.2		0		0	
HCM LOS	Α					
Minor Lane/Major Mvn	nt	NBL	NDT	EBLn1	SBT	SBR
	IL					אמט
Capacity (veh/h)		1532	-	00.	-	-
HCM Lane V/C Ratio		-	-	0.053	-	-
HCM Control Delay (s)		0	-	9.2	-	-
HCM Lane LOS		Α	-	Α	-	-
HCM 95th %tile Q(veh	)	0	-	0.2	-	-

OYWPAM.syn Synchro 11 Report 03/29/2024

Intersection						
Int Delay, s/veh	1.7					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	Y		,,,,,,,	4	₽	USIN
Traffic Vol, veh/h	32	0	0	41	52	48
Future Vol, veh/h	32	0	0	41	52	48
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	_	NOHE		NOHE
Veh in Median Storage			-	0	0	-
			-			-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	35	0	0	45	57	52
Major/Minor N	Minor2	ı	Major1	N	/lajor2	
Conflicting Flow All	128	83	109	0		0
Stage 1	83	-	-	_	_	_
Stage 2	45	_	_	_	_	_
Critical Hdwy	6.42	6.22	4.12	_	_	_
Critical Hdwy Stg 1	5.42	0.22	7.12	_	_	_
Critical Hdwy Stg 2	5.42	_				_
			2.218	_	_	_
Pot Cap-1 Maneuver	866	976	1481	-	-	-
Stage 1	940	-	-	-	-	
Stage 2	977	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	866	976	1481	-	-	-
Mov Cap-2 Maneuver	866	-	-	-	-	-
Stage 1	940	-	-	-	-	-
Stage 2	977	-	-	-	-	-
A nove a a b	ED		ND		CD	
Approach	EB		NB		SB	
HCM Control Delay, s	9.3		0		0	
HCM LOS	Α					
Minor Lane/Major Mvm	t	NBL	NBT I	EBLn1	SBT	SBR
		1481		866	-	
Canacity (Ven/n)		-	_	0.04	-	_
Capacity (veh/h)						
HCM Lane V/C Ratio		Λ	_	03	_	_
HCM Lane V/C Ratio HCM Control Delay (s)		0	-	9.3	-	-
HCM Lane V/C Ratio		0 A 0	- -	9.3 A 0.1	-	-

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