ENCLOSURE 14



TRANSPORTATION IMPACT ANALYSIS REPORT

THE MERCURY PROJECT

City of Pico Rivera, California July 5, 2022

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TRANSPORTATION IMPACT ANALYSIS REPORT THE MERCURY PROJECT

City of Pico Rivera, California July 5, 2022

1.0 INTRODUCTION

1.1 Transportation Impact Analysis Overview

This transportation impact analysis report has been prepared to identify and evaluate the potential transportation impacts of the proposed Washington and Rosemead Mixed-Use project ("proposed project"). The proposed project site is located at 8825 Washington Boulevard in the City of Pico Rivera, California. The project site is generally bounded by adjacent commercial and residential uses to the north and west, commercial uses to the east, and Washington Boulevard to the south. The proposed project site and general vicinity are shown in *Figure 1-1*.

The transportation impact analysis follows the City of Pico Rivera's *Traffic Impact Analysis Guidelines*¹ ("Guidelines"). In general, the City uses the Los Angeles County Public Works *Transportation Impact Guidelines*² as a benchmark for the Traffic Impact Analysis (TIA) requirements, with variations. The City Guidelines are focused on transportation metrics that promote: the reduction of greenhouse gas emissions, the development of multimodal networks and access to diverse land uses, as well as safety, sustainability and smart growth. In compliance with the California Environmental Quality Act (CEQA), the City Guidelines identify vehicle miles traveled (VMT) as the primary metric for evaluating a project's transportation impacts. In addition, the City Guidelines require non-CEQA intersection Level of Service (LOS) analysis evaluating potential project-related effects at key intersections in the vicinity of the project site.

This assessment report (i) presents the proposed project's existing transportation network context, (ii) forecasts project-generated traffic, (iii) presents a CEQA assessment of project-related VMT, (iv) provides a non-CEQA evaluation of project access and circulation, (v) provides a non-CEQA review of project construction activities, and (vi) recommends VMT-reducing measures or other transportation network improvement measures, where necessary.

1.2 Study Methodology

The CEQA and non-CEQA analysis criteria for this transportation impact analysis were identified in consultation with the City of Pico Rivera Public Works Department staff. The analysis criteria were determined based on the City's Guidelines, the proposed project description and location, and the characteristics of the surrounding transportation system. As defined by the City as Lead Agency

¹ City of Pico Rivera Public Works Department *Traffic Impact Analysis Guidelines*", prepared by Elie Farah, Inc., July 2020.

² Los Angeles County Public Works "Transportation Impact Analysis Guidelines", prepared by Public Works, July 23, 2020.

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under CEQA, City staff confirmed the appropriateness of the analysis methodology and criteria when it approved the transportation impact analysis Scoping Document. The approved Scoping Document is provided in *Appendix A*.

1.3 Los Angeles County Congestion Management Program Status

The Los Angeles County Congestion Management Program (CMP) was previously a state-mandated program that was enacted by the California State Legislature with the passage of Proposition 111 in 1990 that primarily utilized a level of service (LOS) performance metric. Pursuant to California Government Code §65088.3, local jurisdictions may opt out of the CMP requirement without penalty if a majority of the local jurisdictions representing a majority of the County's population formally adopt resolutions requesting to opt out of the program. As stated in a letter from the Los Angeles County Metropolitan Transportation Authority (Metro)³, by August 28, 2019 fifty-seven local jurisdictions, which in total represent 8.5 million in population, had adopted resolutions electing to be exempt from the CMP. With the Los Angeles County region having reached the statutorily required threshold, the provisions of the CMP are no longer applicable to any of the 89 local jurisdictions within Los Angeles County, regardless of whether or not a jurisdiction adopted an opt-out resolution. Therefore, CMP Traffic Impact Analysis is no longer required.

³ Kalieh Honish, Los Angeles County Metropolitan Transportation Authority, to Seleta Reynolds, City of Los Angeles Department of Transportation, "Re: Dissolution of the Congestion Management Program in Los Angeles County", August 28, 2019.

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2.0 PROJECT DESCRIPTION

2.1 Existing Project Site

The project site is located at 8825 Washington Boulevard (APN: 6370-027-018) situated along the north side of Washington Boulevard, west of Rosemead Boulevard in the City of Pico Rivera. The existing 2.85-acre project site is currently vacant, formerly occupied by a commercial building that operated as a nightclub until March 2015 and was subsequently demolished in 2020. The project site is adjacent to and would become part of the Pico Rivera Marketplace, a larger commercial site with a broad range of retail services including a fitness center, restaurants, and bank. Vehicular access to the existing project site is currently primarily provided via two driveways on Washington Boulevard. An aerial photograph of the existing project site is presented in *Figure 2-1*.

2.2 Proposed Project Description

The project applicant, Mercury Bowl, LLC: Green Rivera, LLC, is seeking approval from the City of Pico Rivera for implementation of the Washington and Rosemead Mixed-Use Specific Plan ("Specific Plan") that reflects the proposed development of a mixed-use building with subterranean parking, ground-floor retail, and residential uses. The proposed Specific Plan, if approved by the City, would allow for the future development of 255 residential dwelling units including 13 affordable units, 5,730 square feet of commercial/retail space; 1,750 square feet of ground-floor lobby/leasing space; and 13,500 square feet of recreational amenities for future residential tenants. The proposed residential unit mix consists of 35 studio units, 159 one-bedroom units, 57 two-bedroom units, and 4 three-bedroom units. Residential amenities for the proposed mixed-use development include a swimming pool, jacuzzi, poolside cabanas, clubhouse, gym, barbecue area, and garden/green areas. Construction would begin in 2022 and occupancy of the proposed project is expected to occur by year 2024. The site plan for the proposed project is illustrated in *Figure 2-2*.

2.3 Project Site Access

2.3.1 Vehicular Site Access

Vehicular access to the project site will be accommodated by a total of two driveways: one existing driveway on Washington Boulevard and one existing driveway on Rosemead Boulevard. The other existing access points along Washington Boulevard and Rosemead Boulevard for the Pico Rivera Marketplace will remain. In addition, while another existing driveway curb cut will remain along the Washington Boulevard project frontage, it is not planned for vehicular access as further described below. Descriptions of the planned project site access driveways are provided in the following paragraphs.

• Existing Washington Boulevard Main Project Driveway:

This existing driveway is located on the north side of Washington Boulevard along the easterly property boundary directly west of the existing McDonalds restaurant. This driveway currently serves the existing McDonald's restaurant adjacent to the project site. The site driveway will provide access to the main internal roadway surrounding the proposed

Figure 2-1 Aerial Photograph of Existing Site





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The Mercury Project

building and to the subterranean parking entrance for the project. The driveway will continue to accommodate left-turn ingress and right-turn ingress and egress traffic movements (i.e., no left-turns out). No physical modifications are proposed at this driveway.

• Existing Rosemead Boulevard Driveway:

This existing driveway is located on the west side of Rosemead Boulevard north of Washington Boulevard. This signalized driveway currently serves the existing Pico Rivera Marketplace and would also serve the proposed project. The driveway will continue to accommodate full access (i.e., left-turn and right-turn ingress and egress traffic movements).

The curb cut for the existing westerly site driveway on Washington Boulevard will remain; however, no vehicle access would be provided from this point. The curb cut will be used solely for emergency/fire access (e.g., for fire personnel to extend hoses via this existing curb cut).

Within the project site, vehicular circulation will be accommodated by a drive aisle which is adjacent to the north and east sides of the proposed building. The drive aisle will be no less than 28 feet wide in order to accommodate Fire Department access to the project site.

While the parking structure entrance design shown in the site plan is conceptual, the project's final design would provide a gate and storage for a minimum of two vehicles at the access control point of the parking structure.

2.3.2 Non-Vehicular Site Access

Pedestrian access to the project site will be accommodated via the existing public sidewalks and pedestrian facilities provided along Washington Boulevard and Rosemead Boulevard. A handicap accessible ramp is planned to be installed at the west corner of the site driveway at Washington Boulevard. Pedestrian access within the project site will be accommodated by an Americans with Disabilities Act (ADA) compliant walkway that will connect the building entrance and retail frontages to the public right-of-way. This walkway will provide exclusive pedestrian and bicycle access from the public sidewalks to the proposed project, thus minimizing the extent of pedestrian and bicycle interaction with vehicles at the site and providing a comfortable, convenient, and safe environment for pedestrians and bicyclists to access the proposed project from the public right-of-way. Pedestrian pathways will also be constructed surrounding the proposed building and will connect to the existing shopping center pedestrian facilities. Pedestrian access to and from the project site is illustrated in *Figure 2-3*. *Figure 2-3* also shows the proximity of the nearby existing transit stops located both east and west of the project site. Pedestrian access within the project is shown in *Figure 2-4*.

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The Mercury Project



Figure 2-4 Pedestrian Access Within the Site

2.4 Project Parking

2.4.1 City of Pico Rivera Parking Requirements

The City of Pico Rivera off-street parking requirements are set forth in Section 18.44 (Off-Street Parking and Loading) of the Municipal Code⁴. In accordance with the Municipal Code parking regulations, the following parking requirements are applicable to the project:

- Residential Multi-Family Dwelling Units:
 - Resident Parking: 2.0 parking spaces per dwelling unit (DU) (within a parking garage or carport)
 - Guest Parking: 1.0 space for each 8 DUs
- Commercial Use: 1.0 parking space per 250 square feet (SF)

Based on strict application of the City Code parking requirements, a total of 572 spaces would be required for the project as summarized below:

•	Resident Parking:	255 units x 2.0 spaces/ $DU = 510$ spaces
•	Residential Guest Parking:	255 units x 1.0 space/8 DUs = 32 spaces
•	7,480 SF x 1.0 space/250 SF = 30 spaces	
	Total City Code Required Project Parking =	= 572 spaces

As noted above, the residential parking requirements for the project is 542 spaces (i.e., 510 resident + 32 guest = 542 spaces). The overall Code residential parking ratio equates to 2.13 spaces per DU (i.e., 542 residential parking spaces/255 DU = 2.13 spaces/DU). Based on reviews of other parking standards outlined in nationally recognized publications and parking demand characteristics at other multi-family residential complexes similar to the proposed project, it can be expected that residential parking demand would be much lower for the project than what is currently required by strict application of the City Code.

2.4.2 Specific Plan Parking Requirements

As outlined in the Chapter 4 of the proposed Specific Plan, the development parking standards for the project are outlined below:

- Residential Multi-Family Dwelling Units:
 - Studio Unit: 1.0 parking space per DU
 - One-Bedroom unit: 1.4 parking spaces per DU
 - Two-Bedroom unit: 1.6 parking spaces per DU
 - Three-Bedroom unit: 2.0 parking spaces per DU

⁴ Source: City of Pico Rivera Municipal Code (Section 18.44).

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- Guest Parking: 1.0 space for each 8 DUs
- Commercial Use: 1.0 parking space per 250 square feet (SF)

Based on application of the Specific Plan parking requirements, a total of 420 spaces would be required for the project as summarized below:

•	Studio Resident Parking:	35 units x 1.0 space/DU = 35 spaces
•	One-Bedroom Resident Parking:	159 units x 1.4 spaces/DU = 223 spaces
•	Two-Bedroom Resident Parking:	57 units x 1.6 spaces/DU = 92 spaces
•	Three-Bedroom Resident Parking:	4 units x 2.0 spaces/DU = 8 spaces
•	Residential Guest Parking:	255 units x 1.0 space/8 DU = 32 spaces
•	Commercial (Leasing Space and Retail):	7,480 SF x 1.0 space/250 SF = 30 spaces
	Total Required Project Parking =	420 spaces

2.4.3 Proposed Parking Supply

The proposed project is planned to provide a total of 464 vehicular parking spaces on-site, including 437 spaces within the new parking garage and 27 on-site surface parking spaces. The new parking structure is planned to provide 390 residential spaces (i.e., 358 resident parking spaces and 32 spaces for residential guest parking) and 47 secured parking spaces. The proposed project also includes 27 on-site surface spaces located outside the structure, which would be designated and signed for the commercial uses (i.e., 26 spaces for retail/leasing use and one (1) dedicated US Postal Service parking space). Based on the residential parking supply of 390 spaces, the overall project residential parking ratio is 1.53 spaces per DU (i.e., 390 residential parking spaces/255 DU = 1.53 spaces/DU).

As part of the parking supply, a total of 19 handicap accessible spaces will be provided on-site, of which 16 spaces are allocated for residential use and three (3) spaces are allocated for the commercial use. In addition, 47 electric vehicle charging station (EVCS) installed spaces will be provided on-site (i.e., 44 residential spaces and 3 commercial spaces). Bicycle parking and storage would also be provided for the project, with a minimum of 12 long-term bicycle spaces and a minimum of four (4) short-term bicycle spaces. Short-term bicycle parking typically consists of bicycle racks. Long-term bicycle parking are fully enclosed spaces and typically consist of bicycle lockers, bicycle rooms, or bicycle cages.

Residents will be required to provide the make, model, and year of their vehicle/s during lease execution and subsequently will be issued an access card or key for entry into the parking garage. All resident and employee parking policies will be outlined in the lease/rental agreement. "No Overnight Parking" signs will be posted within the existing shopping center to prohibit tenants from parking in the center overnight and will be enforced by security staff monitoring the center on a 24-hour basis. The signage will also include verbiage that notes that any violations of the parking restriction are subject to towing.

The project applicant (or successor owner/s) will identify a Community Liaison/Parking Ombudsman in order to keep nearby residential communities informed on various matters and provide an open line of communication. The Community Liaison/Parking Ombudsman will efficiently manage parking and enforce changes that the project management will make to prevent local neighborhood parking intrusion. The parking ombudsman will be responsible for enforcing resident and employee parking rules and will address any complaints from the public regarding neighborhood parking intrusion. The telephone number of the parking ombudsman will be disseminated to the surrounding communities. For example, should a community member notice a resident or employee parking in their neighborhood, they will be able to notify the ombudsman of the intrusion, as well as request enforcement if it was determined that the motorist parking was attributable to the proposed project. All verifiable violations will be documented for monitoring and reporting purposes and warnings and fines/penalties will be issued. A resident or employee that has been determined by the parking ombudsman to have violated the lease agreement policy (i.e., no onstreet parking within the neighborhood) will receive a verbal warning upon their first violation. An employee with a second violation will receive a formal written warning that includes a restatement of the policy along with a notification that the employee's supervisor/manager has been informed of the multiple violations. A resident with a second violation will receive a formal written warning that includes a restatement of the policy to be included in the resident's file. Should a subsequent employee violation occur, it will result in the preparation of a formal letter to the Human Resources department to be included in the employee's file and the employee's supervisor/manager will again be notified in order to determine the appropriate penalty. Should a subsequent resident violation occur, it will result in the issuance of a lease termination/non-renewal letter for violation of the terms outlined in the lease/rental agreement.

2.4.4 Comparison to ITE Parking Standards

Research was conducted of applicable parking ratios for multi-family residential uses outlined in industry standard publications. The parking demand for multi-family residential uses can be estimated using ratios published in the Institute of Transportation Engineers' (ITE) *Parking Generation*⁵ publication. When utilizing the ITE publication, the parking demand for the proposed project can be calculated based upon ratios per DU. More specifically, the ITE Land Use Code 221 (Multifamily Housing [Mid-Rise]) parking demand ratios were reviewed and the average weekday peak period parking demand ratio could be used to forecast the parking demand expected for the proposed project. The ITE parking demand ratios for multi-family residential are summarized below:

- Weekday peak period parking demand ratio Average Rate (General Urban/Suburban, no nearby rail transit): 1.31 spaces per dwelling unit (73 study sites, inclusive of resident and guest parking demand)
- Weekday peak period parking demand ratio 85th Percentile Rate (General Urban/Suburban, no nearby rail transit): 1.47 spaces per dwelling unit (73 study sites, inclusive of resident and guest parking demand)

⁵ Institute of Transportation Engineers Parking Generation Manual, 5th Edition, Washington D.C., 2019.

Application of the higher ITE published parking demand ratio to the proposed project would yield a peak residential parking demand of 375 spaces as summarized below:

• Peak Parking Demand: 1.47 spaces/DU x 255 DU = 375 parking spaces

In comparison, the residential parking demand of 375 spaces forecast for the project per ITE is significantly lower than the City's Code residential parking requirement of 542 spaces. In addition, the overall project residential parking ratio of 1.53 spaces per DU is higher (i.e., more conservative) than the ITE peak parking demand ratio of 1.47 spaces per DU.

2.4.5 Empirical Parking Demand Ratios at Other Multifamily Residential Sites

A review was also conducted of site-specific multifamily residential parking surveys that have been previously conducted by LLG. Parking demand data for other existing multi-family residential sites are based on the empirical parking demand studies conducted at the following three (3) multi-family residential sites:

- Paragon at Old Town located at 700 S. Myrtle Avenue, Monrovia (163 units)
- Trio Apartments located at 44 N. Madison Avenue, Pasadena (304 units)
- Main Street Village located at 2555 Main Street, Irvine (481 units)

The peak parking demand ratios for these facilities ranged between 1.22 spaces per unit (i.e., Trio Apartments) to 1.48 spaces per unit (i.e., Paragon at Old Town). The average of the peak parking ratio results for the three (3) surveyed sites was 1.36 spaces per unit. The summary of the existing parking supply ratios, as well as the observed and forecast (i.e., at full occupancy) parking demand ratios based on the number of units at the comparable sites is provided in *Appendix B*.

Application of the highest residential peak parking demand ratio to the proposed project would yield a forecast peak parking demand of 377 parking spaces (i.e., 1.48 spaces/DU x 255 DUs = 377 spaces), which is significantly lower than the City's Code residential parking requirement of 542 spaces. The overall project residential parking ratio of 1.53 spaces per DU is higher (i.e., more conservative) than the empirical (observed) parking demand ratio of 1.48 spaces per DU. Therefore, the parking requirements proposed in the Specific Plan are consistent with the empirical parking demand ratio and the ITE published residential parking demand ratio.

2.5 Project Trip Generation and Distribution

2.5.1 Project Trip Generation Forecast

Traffic trip generation is expressed in vehicle trip ends, defined as one-way vehicular movements, either entering or exiting the generating land use. Traffic volumes to be generated by the proposed project were forecast for the weekday AM and PM peak hours, and over a 24-hour period. Trip

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generation rates provided in the ITE's *Trip Generation Manual*⁶ were utilized to forecast project traffic generation for the proposed project, with the exception of the 13 affordable housing dwelling units. Traffic volumes expected to be generated by the residential component of the proposed project were based upon rates per number of dwelling units. Traffic volumes expected to be generated by the commercial component of the proposed project were based upon rates per 1,000 square feet. For purposes of trip generation, the proposed commercial/retail space was assumed to consist of 2,865 square feet of retail space and 2,865 square feet of restaurant space. Trip generation average rates for the following uses were used to forecast the traffic volumes expected to be generated by the proposed project:

- ITE Land Use Code 221: Multi-Family Housing (Mid-Rise)
- ITE Land Use Code 820: Shopping Center
- ITE Land Use Code 932: High-Turnover (Sit-Down) Restaurant

As the ITE publication does not provide trip rates for a land use such as the project's affordable housing residential land use component, it was deemed appropriate to forecast the trips expected to be generated by the affordable housing land use component using trip rates published by the City of Los Angeles Department of Transportation (LADOT) in the City's *Transportation Assessment Guidelines*⁷ (TAG) which are directly applicable to the proposed project. The LADOT trip generation rates for affordable housing projects were developed based on vehicle trip count data collected at affordable housing sites in the City of Los Angeles during year 2016. A copy of the Affordable Housing Trip Generation Study contained in LADOT's *TAG* is provided in *Appendix C*. The LADOT affordable housing trip rates include three (3) different housing type categories: affordable family housing; affordable senior housing, and affordable special needs and supportive housing. In this instance, the affordable family housing category is directly applicable to the proposed project. LADOT's affordable family housing category trip rates are summarized below:

Affordable Family Housing

- Average AM Peak Hour Trip Rate: 0.52 trips per dwelling unit; 38% inbound and 62% outbound
- Average PM Peak Hour Trip Rate: 0.38 trips per dwelling unit; 55% inbound and 45% outbound

In addition to the above project trip generation forecasts, a forecast was made of likely internal capture/captive market trips projected at the site with respect to the proposed uses. Internal capture and captive markets trips are trips made from other components of the project and other uses in the immediate vicinity of the site. The internal capture/captive market reduction for the residential uses

⁶ Institute of Transportation Engineers *Trip Generation Manual*, 10th Edition, Washington, D.C., 2017.

⁷ Transportation Assessment Guidelines, City of Los Angeles Department of Transportation, July 2020.

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has been estimated based on the ITE *Trip Generation Handbook*⁸, the National Cooperative Highway Research Program (NCHRP) Report 684 – "Enhanced Internal Trip Capture Estimation for Mixed-Use Developments"⁹ and in consultation with City Public Works staff. A conservative 15 percent (15.0%) internal capture/captive market reduction factor has been applied to the AM and PM peak hour traffic volume forecasts, as well as to the daily traffic volume forecast for the residential component of the proposed project to reflect the internal trip making between the project land uses and other site uses, as well as from other uses in the immediate vicinity.

The trip generation forecast for the proposed project is summarized in *Table 2-1*. The trip generation forecasts for the proposed project were submitted to City staff for review and were subsequently approved for analysis purposes. As presented in *Table 2-1*, the proposed project is expected to generate 111 vehicle trips (40 inbound trips and 71 outbound trips) during the weekday AM peak hour. During the weekday PM peak hour, the proposed project is expected to generate 134 net new vehicle trips (80 inbound trips and 54 outbound trips). Over a 24-hour period, the proposed project is forecast to generate 1,594 daily trip ends during a typical weekday (approximately 797 inbound trips and 797 outbound trips).

2.5.2 Project Trip Distribution and Assignment

Project traffic volumes both entering and exiting the site have been distributed and assigned to the adjacent street system based on the following considerations:

- The site's proximity to major traffic corridors (i.e., Washington Boulevard, Rosemead Boulevard, etc.);
- Expected localized traffic flow patterns based on adjacent roadway channelization and presence of traffic signals;
- Existing intersection traffic volumes;
- Ingress/egress scheme planned for the proposed project;
- Nearby population and employment centers; and
- Input from City staff.

⁸ Institute of Transportation Engineers *Trip Generation Handbook*, 3rd Edition, 2017.

⁹ National Cooperative Highway Research Program (NCHRP) Report 684 – "Enhanced Internal Trip Capture Estimation for Mixed-Use Developments," 2011.

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Table 2-1 PROJECT TRIP GENERATION [1]

		DAILY TRIP ENDS [2]	AM V	PEAK HO DLUMES	DUR [2]	PM V	PEAK HO DLUMES	DUR [2]
LAND USE	SIZE	VOLUMES	IN	OUT	TOTAL	IN	OUT	TOTAL
Apartment [3] - Less 15% Internal Capture/Captive Market [4] Affordable Housing [5] - Less 15% Internal Capture/Captive Market [4]	242 DU 13 DU	1,316 (197) 54 (8)	23 (3) 3 0	64 (10) 4 (1)	87 (13) 7 (1)	65 (10) 3 0	41 (6) 2 0	106 (16) 5 0
Retail [6] Restaurant [7]	2,865 GLSF 2,865 GSF	108 321	2 15	1 13	3 28	5 17	6 11	11 28
TOTAL		1,594	40	71	111	80	54	134

 Source: ITE "Trip Generation Manual", 10th Edition, 2017 and Transportation Assessment Guidelines (TAG), City of Los Angeles Department of Transportation (LADOT), July 2020.

[2] Trips are one-way traffic movements, entering or leaving.

[3] ITE Land Use Code 221 (Multi-Family [Mid-Rise]) trip generation average rates.

- Daily Trip Rate: 5.44 trips/dwelling unit; 50% inbound/50% outbound

- AM Peak Hour Trip Rate: 0.36 trips/dwelling units; 26% inbound/74% outbound

- PM Peak Hour Trip Rate: 0.44 trips/dwelling units; 61% inbound/39% outbound

[4] Source: ITE "Trip Generation Handbook", 3rd Edition, 2017 and the National Cooperative Highway Research Program (NCHRP) Report 684 -"Enhanced Internal Trip Capture Estimation for Mixed-Use Developments", 2011. Internal capture and Captive markets trips are trips made to and from other components of the project and other uses in the immediate vicinity of the site. A 15% internal capture/captive market reduction factor has been applied to reflect the internal trip making between the project land uses and other uses in the area.

[5] LADOT trip generation average rates for Family Affordable Housing.

- Daily Trip Rate: 4.16 trips/dwelling unit; 50% inbound/50% outbound

- AM Peak Hour Trip Rate: 0.52 trips/dwelling unit; 38% inbound/62% outbound

- PM Peak Hour Trip Rate: 0.38 trips/dwelling unit; 55% inbound/45% outbound

[6] ITE Land Use Code 820 (Shopping Center) trip generation average rates.

- Daily Trip Rate: 37.75 trips/1,000 SF; 50% inbound/50% outbound

- AM Peak Hour Trip Rate: 0.94 trips/1,000 SF; 62% inbound/38% outbound

- PM Peak Hour Trip Rate: 3.81 trips/1,000 SF; 48% inbound/52% outbound

[7] ITE Land Use Code 932 (High-Turnover [Sit-Down] Restaurant) trip generation average rates.

- Daily Trip Rate: 112.18 trips/1,000 SF of floor area; 50% inbound/50% outbound

- AM Peak Hour Trip Rate: 9.94 trips/1,000 SF of floor area; 55% inbound/45% outbound

- PM Peak Hour Trip Rate: 9.77 trips/1,000 SF of floor area; 62% inbound/38% outbound

The general, directional traffic distribution pattern for the proposed project is presented in *Figure 2-5*. The forecast weekday AM and PM peak hour project traffic volumes at the study intersections associated with the proposed project are presented in *Figures 2-6* and *2-7*, respectively. The traffic volume assignments presented in *Figures 2-6* and *2-7* reflect the traffic distribution characteristics shown in *Figure 2-5* and the project trip generation forecasts presented in *Table 2-1*.

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Figure 2-5 Project Trip Distribution







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3.0 PROJECT SITE CONTEXT

The following sections provide an overview of the transportation infrastructure in the vicinity of the proposed project, including infrastructure which supports both motorized and non-motorized transportation modes.

3.1 Non-Vehicle Network

Non-vehicular transportation generally encompasses walking, biking, and other active transportation modes. Distinct facilities are often provided for these non-vehicular modes. Most prominently, paved sidewalks are typically provided to facilitate pedestrian travel outside of the roadway. In some cases, bicycle facilities such as painted bike lanes or separated bike paths are provided within the roadway in order to separate bike traffic from vehicular traffic. Roadways which are designed to prioritize non-vehicular transportation modes utilize complimentary non-vehicular infrastructure in order to promote comfortable, safe travel for both pedestrians and bicyclists. A review of the pedestrian and bicycle infrastructure provided in the vicinity of the project site is provided below.

3.1.1 Pedestrian System

Public sidewalks and pedestrian facilities are provided on all streets within the project vicinity. *Figure 3-1* shows the existing pedestrian and transit facilities near the project site. The proposed project is designed to encourage pedestrian activity and walking as a transportation mode with a Walkability score for the project site of approximately 81 (Very Walkable) out of 100.¹⁰ As indicated in *Figure 2–2*, walkways are planned within the proposed project which will connect to adjacent sidewalks in a manner that promotes walkability. Walkability is a term for the extent to which walking is readily available as a safe, connected, accessible and pleasant mode of transport. There are several criteria that are widely accepted as key aspects of the walkability of urban areas that should be satisfied. The underlying principle is that pedestrians should not be delayed, diverted, or placed in danger. The widely accepted characteristics of walkability are as follows:

- Connectivity: People can walk from one place to another without encountering major obstacles, obstructions, or loss of connectivity.
- Convivial: Pedestrian routes are friendly and attractive, and are perceived as such by pedestrians.
- Conspicuous: Suitable levels of lighting, visibility and surveillance over its entire length, with high quality delineation and signage.
- Comfortable: High quality and well-maintained footpaths of suitable widths, attractive landscaping and architecture, shelter and rest spaces, and a suitable allocation of roadspace to pedestrians.

¹⁰ Refer to <u>http://www.walkscore.com/</u>, which generates the walkability score for the project site. Walk Score calculates the walkability of an address by locating nearby stores, restaurants, schools, parks, etc. Walk Score measures how easy it is to live a car-lite lifestyle.

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	Site	<u>&</u>	ADA
	Signal	<mark>&</mark>	ADA Yellow Truncated Dome
STOP	Stop Sign	Î	Trash



(570)

Bike Lane/Route



Figure 3-1 Existing Nearby Pedestrian and Transit Facilities

The Mercury Project

-22-

• Convenient: Walking is a realistic travel choice, partly because of the impact of the other criteria set forth above, but also because walking routes are of a suitable length as a result of land use planning with minimal delays.

A review of the proposed project pedestrian walkways indicates that these primary characteristics are accommodated within the project. Proposed project features would include landscaped pedestrian walkways connecting facilities within the site, as well as connections with the adjacent public sidewalks on the Washington Boulevard project frontage for access to nearby pedestrian and transit facilities. As part of the Specific Plan, street trees and streetscape plantings will be provided along the public frontages in accordance with the City's standards. In addition, project signage will include wayfinding pedestrian signage around the perimeter of the project site, building identification signs, and other sign types. Wayfinding signs would be located at access points to the on-site amenities and facilities and parking areas.

3.1.2 Bicycle System

Bicycle infrastructure consists of both facilities within the roadway as well as public bicycle parking spaces. The Federal and State transportation systems recognize three primary bikeway facilities: Bicycle Paths (Class I), Bicycle Lanes (Class II), and Bicycle Routes (Class III). Bicycle Paths (Class I) are exclusive car-free facilities that are typically not located within a roadway area. Bicycle Lanes (Class II) are part of the street design that is dedicated only for bicycles and identified by a striped lane separating vehicle lanes from bicycle lanes. Bicycle Routes (Class III) are preferably located on collector and lower volume arterial streets.

Bicycle access to the project site will be facilitated by the County's bicycle roadway network. Walk Score calculates a bike score based on the topography, number and proximity of bike lanes, etc., and generates a bike score for the project site of approximately 58 (Bikeable) out of 100.¹¹ Proposed bicycle facilities (e.g., Class I Bicycle Path, Class II Bicycle Lanes, Class III Bicycle Routes, Proposed Bicycle Routes, Bicycle Boulevards, etc.) identified in the City's Circulation Element¹² will be located within an approximate one-mile radius from the project site. The location of the proposed bicycle lane network for the City in close proximity to the project site and in the surrounding area is illustrated in *Figure 3-2*. As shown in *Figure 3-2*, a Class II Bicycle Lane is proposed for Rosemead Boulevard between Gallatin Road and I-5 Freeway. In addition, a Class III Bicycle Route is proposed for Washington Boulevard between Telegraph Road and the San Gabriel River.

3.2 Transit Network

Public transit service in the vicinity of the project is currently provided by the Los Angeles County Metropolitan Transportation Authority (Metro), Montebello Transit and Norwalk Transit. The existing public transit routes in the project site vicinity are illustrated in *Figure 3–3*. A summary of

¹¹ Refer to <u>http://www.walkscore.com/</u>, which generates a bike score for the project site. Walk Score calculates the bike score of an address by locating nearby bicycling facilities as well as connections to bus/rail transit routes and stops. Walk Score measures how easy it is to live a car-lite lifestyle.

¹² City of Pico Rivera General Plan Circulation Element, October 2014.

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Figure 3-2 Proposed Bicycle Facilities



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Existing Transit Routes



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the existing transit service, including the transit routes, destinations, and the peak hour headways is presented in *Table 3–1*. As summarized in *Table 3-1*, a total of 9 public transit routes provide service near the project site.

Metro is evaluating an extension of the Metro L (Gold) Line further east from its current terminus in East Los Angeles potentially through the cities of Commerce, Montebello, Pico Rivera, Santa Fe Springs and Whittier. The proposed light rail line would travel south along Atlantic Boulevard underground from the current Metro L (Gold) Line terminus at Pomona Boulevard and Atlantic Boulevard to the Citadel Outlets in the City of Commerce. The route would then proceed east along Washington Boulevard via aerial and/or at-grade (street level) configurations with an above-grade station at Rosemead Boulevard and ending at Lambert Road in the City of Whittier.

3.3 Vehicle Network

3.3.1 Roadway Classifications

The City of Pico Rivera utilizes the roadway categories recognized by regional, state and federal transportation agencies. There are four (4) categories in the roadway hierarchy, ranging from freeways with the highest capacity to two-lane undivided roadways with the lowest capacity. The roadway categories are summarized as follows:

- *Freeways* are limited-access and high speed travel ways included in the state and federal highway systems. Their purpose is to carry regional through-traffic. Access is provided by interchanges with typical spacing of one mile or greater. No local access is provided to adjacent land uses.
- *Arterial* roadways are major streets that primarily serve through-traffic and provide access to abutting properties as a secondary function. Arterials are generally designed with two to six travel lanes and their major intersections are signalized. This roadway type is divided into two categories: principal and minor arterials. Principal arterials are typically four-or-more lane roadways and serve both local and regional through-traffic. Minor arterials are typically two-to-four lane streets that service local and commuter traffic.
- *Collector* roadways are streets that provide access and traffic circulation within residential and non-residential (e.g., commercial and industrial) areas. Collector roadways connect local streets to arterials and are typically designed with two through travel lanes (i.e., one through travel lane in each direction) that may accommodate on-street parking. They may also provide access to abutting properties.
- *Local* roadways distribute traffic within a neighborhood, or similar adjacent neighborhoods, and are not intended for use as a through-street or a link between higher capacity facilities such as collector or arterial roadways. Local streets are fronted by residential uses and do not typically serve commercial uses.

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Table 3-1 EXISTING TRANSIT ROUTES [1]

			0.0N	F BUSES/TR	AINS
		ROADWAY(S)	DUR	ING PEAK H	OUR
ROUTE	DESTINATIONS	NEAR SITE	DIR	AM	PM
Matrix 62	Downtown I as Anceles to Howaiian Gardans via	Talaman Dood Slama	aw an	C	6
	Boyle Heights, Commerce, Pico Rivera, Norwalk and Cerritos	1000 and 10000, Daugon 110000	SB-EB	1 0	0 0
Metro 108	Marina Del Rey to Pico Rivera via Fox Hills, Hyde Park,	Paramount Boulevard, Slauson Avenue	EB	4	ю
	Los Angeles, Huntington Park and City of Commerce		WB	3	3
Metro 265	Pico Rivera to Lakewood via Downey, Paramount and	Paramount Boulevard, Washington Boulevard	NB	1	1
	Long Beach		SB	1	1
Metro 266	Pasadena to Lakewood via Temple City, South El Monte,	Rosemead Boulevard, Washington Boulevard	NB	5	5
	Pico Rivera, Downey and Bellflower		SB	2	2
Montebello Transit 10	Monterey Park to Whittier via Montebello and Pico Rivera	Rosemead Boulevard, Whittier Boulevard	EB	4	4
			WB	4	5
Montebello Transit 20	Montebello to Pico Rivera	Greenwood Avenue, Washington Boulevard	NB	2	2
			SB	2	2
				1	
Montebello Transit 50	La Mirada to Downtown Los Angeles via Whittier,	Rosemead Boulevard, Washington Boulevard	ËВ	- 7	- (
			dw	Т	4
Montebello Transit 70	Montebello to Pico Rivera	Greenwood Avenue, Washington Boulevard	NB	2	2
			SB	2	2
Norwalk Transit 1	Bellflower to Pico Rivera via Norwalk and Santa Fe Springs	Norwalk Boulevard, Washington Boulevard	NB	2	2
			SB	2	2
TOTAL				40	41

[1] Sources: Los Angeles County Metropolitan Transportation Authority (Metro), City of Montebello Bus Lines and City of Norwalk Transit websites, 2021.

3.3.2 Roadway Descriptions

Immediate access to the project site is provided via Washington Boulevard and Rosemead Boulevard. The existing roadway configurations and intersection controls at the study intersections are displayed in *Figure 3-4* and descriptions of the existing roadways (e.g., roadway classifications, number of travel lanes, median type, speed limit, etc.) are provided in *Table 3-2*.

3.4 Traffic Count Data

Manual counts of vehicular turning movements by vehicle classification were conducted at each of the study intersections during the weekday morning (AM) and afternoon (PM) commute periods to determine the peak hour traffic volumes. The manual counts were conducted by an independent traffic count subconsultant (City Traffic Counters) at the study intersections from 7:00 to 9:00 AM to determine the weekday AM peak commute hour, and from 4:00 to 6:00 PM to determine the weekday PM peak commute hour. In conjunction with the manual turning movement vehicle counts, a count of bicycle and pedestrian volumes were also collected during the peak periods. Traffic volumes at the study intersections show the typical peak periods between 7:00 to 9:00 AM and 4:00 to 6:00 PM generally associated with metropolitan Los Angeles area weekday peak commute hours. It should be noted that while the traffic counts were conducted during various days in March 2021 (i.e., at a time when some Covid-19 business and school restrictions were still in effect), the count data were compared with prior (2019), non-pandemic count data provided by the City. Based on those comparisons, the through traffic volumes along Rosemead Boulevard were increased by 7.5 percent (7.5%) per year, or by a total of 15 percent (15%) to reflect pre-Covid conditions. No annual adjustments were necessary along Washington Boulevard. In addition, minor adjustments were made to some traffic movements to ensure peak hour traffic flow consistency on a corridor-level basis.

The existing traffic volumes at the study intersections during the weekday AM and PM peak hours are shown in *Figures 3-5* and *3-6*, respectively. Summary data worksheets of the manual traffic counts at the study intersections are contained in *Appendix D*.

3.5 Cumulative Development Projects

3.5.1 *Cumulative Projects*

A forecast of on-street traffic conditions prior to (i.e., without) implementation of the proposed project was prepared by incorporating the potential trips associated with other known development projects (cumulative projects) in the area. With this information, the potential impact of the proposed project can be evaluated within the context of likely future development that would be in place when the project becomes operational. The cumulative projects research was based on information on file at the City of Pico Rivera Community and Economic Development Department, County of Los Angeles Department of Regional Planning, and City of Montebello. In addition, cumulative projects lists from recently approved transportation impact study memoranda of understanding (MOUs) and transportation impact studies in the project vicinity were also reviewed. The list of cumulative projects in the project site area is presented in *Table 3-3*. The location of the cumulative projects is shown in *Figure 3-7*.

Figure 3-4 Existing Lane Configurations

(S) Signalized Intersection

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[A] Overlap Phase



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Table 3-2 EXISTING ROADWAY DESCRIPTIONS

ROADWAY	CLASSIFICATION [1]	TRAVE DIRECTION [2]	TRAVEL LANES DIRECTION [2] NO. LANES [3]		SPEED LIMIT
Paramount Boulevard	Major Arterial	NB-SB	4	N/A	30
Crossway Drive	Local Street	NB-SB	2	N/A	25
Rosemead Boulevard	Major Arterial	NB-SB	4	N/A	35
Coffman & Pico Road	Local Street	EB-NB	2	2WLT	35
Washington Boulevard	Major Arterial	EB-WB	6 [11]	2WLT	35

Notes:

[1] Roadway classifications obtained from the City of Pico Rivera General Plan Circulation Element, October 2014.

[2] Direction of roadways in the project area: NB-SB = northbound and southbound; and EB-WB = eastbound and westbound.

[3] Number of lanes in both directions on the roadway. Variations in number of travel lanes due to time restricted on-street parallel parking are noted below.

[4] Median type of the road: RMI = Raised Median Island; 2WLT = 2-Way Left-Turn Lane; and N/A = Not Applicable.

[5] Tow Away No Stopping 4 PM to 7 PM in the northbound direction.

[6] Tow Away No Stopping 7 AM to 9 AM and 4 PM to 6 PM in the southbound direction.

[7] Tow Away No Stopping 7 AM to 9 AM in the southbound direction.

[8] Class III Bike Route

[9] Class II Bike Lane

[10] Tow Away No Stopping 4 PM to 7 PM in the northbound and southbound direction.

[11] Tow Away No Stopping 4 PM to 7 PM in the eastbound direction and westbound direction.

[12] Tow Away No Stopping 7 AM to 9 AM and 4 PM to 6 PM in the westbound direction.



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CUMULATIVE PROJECTS LIST AND TRIP GENERATION [1] Table 3-3

MAP	PROJECT	PROJECT NAME/NUMBER	LAND USE DA	TA	PROJECT DATA	DAILY TRIP ENDS [2]	MA	PEAK H(DLUMES	OUR [2]	MA	PEAK H(JLUMES	DUR [2]
NO.	STATUS	ADDRESS/LOCATION	LAND-USE	SIZE	SOURCE	VOLUMES	Z	OUT	TOTAL	N	OUT	TOTAL
			Cit	y of Pico Rivera								
PRI	Proposed	5201-5211 Paramount Boulevard	Medical Office Building	10,000 GSF	[3]	348	22	6	28	10	25	35
PR2	Proposed	Southwest Corner of Durfee Avenue and Whittier Boulevard	Bank	12,925 GSF	[4]	1,293	71	52	123	132	132	264
PR3	Proposed	9102 Slauson Avenue	Apartment	6 DU	[5]	44	1	2	3	2	1	б
PR4	Proposed	Westside of San Gabriel River at Burke Street	Single-Family Residential	18 DU	[9]	170	3	10	13	11	7	18
PR5	Entitled	7105 Paramount Boulevard	Industrial	28,458 GSF	[7]	141	18	5	20	2	16	18
PR6	Entitled	9056 Burma Road	Apartment	4 DU	[5]	29	0	2	2	1	1	2
PR7	Entitled	9141 Slauson Avenue	Fitness Center	675 GSF	[8]	None	1	0	1	1	1	2
PR8	Proposed	Village Walk Shopping Center 8580 Whittier Boulevard	Fast Food Restaurant Restaurant Retail Coffee Shop	3,432 GSF 2,000 GSF 1,800 GLSF 1,800 GSF	[6]	1,575	49	46	95	50	46	96
PR9	Proposed	Beverly Boulevard Warehouse Project Beverly Boulevard & San Gabriel River	Warehouse Copy, Print, Express Ship Store	375,903 GSF 2,500 GSF	[10]	808	50	17	67	27	61	88
PR10	Proposed	Baybar Distribution Building 3900 Baybar Road	Light Industrial	44,620 GSF	[11]	221	27	4	31	4	24	28
PR11	Proposed	301 Jacmar Drive	Townhomes	31 DU	[12]	227	3	11	14	11	9	17
TOTAI						4,856	245	152	397	251	320	571

[1] Sources: City of Pico Rivera Community & Economic Development Division and County of Los Angeles Department of Regional Planning, except as noted below and by applying trip rates as provided in the ITE "Trip Generation Manual", 10th Edition, 2017.

Trips are one-way traffic movements, entering or leaving.
Trips are one-way traffic movements, entering or leaving.
TE Land Use Code 720 (Medical-Dentist Office Building) trip generation average rates.
TE Land Use Code 912 (Drive-in Bank) trip generation average rates.
TE Land Use Code 210 (Single Family Housing Low-Rise) trip generation average rates.
TE Land Use Code 210 (Single Family Detected Housing) trip generation average rates.
TE Land Use Code 492 (HeilhFritness Club) trip generation average rates.
TE Land Use Code 492 (HeilhFritness Club) trip generation average rates.
FE Land Use Code 492 (HeilhFritness Club) trip generation average rates.
Source: "Village Walk Shopping Conter TIS", prepared by LIC Bengineers, dated February 2018.
Source: "Paverty Boulevard Warehouse VMT Assessment", prepared by Michael Baker International, dated November 2020.
Source: "301 Jacmar Drive Project Trip Generation & Site Access/Circulation Study", prepared by Ganddini Group, dated September 2020.

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Traffic volumes expected to be generated by the cumulative projects were calculated using rates provided in the ITE *Trip Generation Manual*, or they were obtained from other recently approved transportation impact studies. The cumulative projects' respective traffic generation for the weekday AM and PM peak hours, as well as on a daily basis for a typical weekday, is summarized in *Table 3-3*. The cumulative projects traffic volumes were distributed and assigned to the street system based on their locations in relation to the study intersections, their proximity to major traffic corridors, proposed land uses, nearby population and employment centers, etc. The distribution of the cumulative projects traffic volumes to the study intersections during the weekday AM and PM peak hours are displayed in *Figures 3-8* and *3-9*, respectively.

3.5.2 Ambient Traffic Growth

Horizon year background traffic growth estimates have been calculated using an ambient traffic growth factor. The ambient traffic growth factor is intended to include unknown future projects in the study area as well as account for typical growth in traffic volumes due to the development of projects outside the study area. Ambient traffic growth in the Downey area (i.e., included in Regional Statistical Area 22 [RSA 22] that includes Pico Rivera), which is presented in the 2010 Congestion Management Program¹³, indicates existing traffic volumes are expected to increase at an annual rate of approximately 0.24 percent (0.24%) per year between years 2020 and 2025. An annual growth rate of one percent (1.0%) until the year 2024 (i.e., the anticipated project build-out year) was selected for this analysis in consultation with City staff. Therefore, application of this one percent (1.0%) ambient growth factor in addition to the forecast traffic generated by the known cumulative projects allows for a conservative forecast of future traffic volumes in the project study area as incorporation of both (i.e., an ambient traffic growth rate and a detailed list of cumulative development projects) is expected to overstate potential future traffic volumes. The cumulative development projects should already be incorporated as part of the growth rate projection per the adopted, local and regional planning documents (i.e., which account for the future population, housing, and employment [socio-economic data] projections).

¹³ 2010 Congestion Management Program, Los Angeles County Metropolitan Transportation Authority, October 2010.



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4.0 CEQA TRANSPORTATION ANALYSIS

4.1 Vehicle Miles Traveled Analysis

The State of California Governor's Office of Planning and Research (OPR) issued proposed updates to the CEQA guidelines in November 2017 and an accompanying technical advisory guidance finalized in December 2018 (*OPR Technical Advisory*) that amends the Appendix G question for transportation impacts to delete reference to vehicle delay and level of service and instead refer to Section 15064.3, subdivision (b)(1) of the CEQA Guidelines asking if the project will result in a substantial increase in vehicle miles traveled (VMT). The California Natural Resources Agency certified and adopted the CEQA Guidelines in December of 2018, and as of July 1, 2020 the provisions of the new section are in effect statewide. Concurrently, OPR developed the *Technical Advisory on Evaluating Transportation Impacts in CEQA* (December 2018), which provides non-binding recommendations on the implementation of VMT methodology which has significantly informed the way VMT analyses are conducted in the State. Accordingly, for the purpose of environmental review under CEQA, the City of Pico Rivera has established criteria for transportation impacts based on VMT for land use projects and plans which is generally consistent with the recommendations provided by OPR in the *Technical Advisory*.

4.1.1 Screening Criteria

Traditionally, public agencies have set certain thresholds to determine whether a project requires detailed transportation analysis or if it could be assumed to have less than significant environmental impacts without additional study. Consistent with the OPR's *Technical Advisory*, the City of Pico Rivera has determined the following screening criteria for certain land development projects that may be presumed to result in a less than significant VMT impact:

- Projects that result in a net increase of 110 or less daily vehicle trips
- Projects located in a High-Quality Transit Area (i.e., within half-mile distance of an existing rail transit station or located within half-mile of two or more existing bus routes with a frequency of service interval of 15 minutes or less during morning and evening peak hours)
- Project is locally serving retail (less than 50,000 square feet), including gas stations, banks, restaurants, shopping center.
- Local-serving community colleges, K-12 schools, local parks, daycare centers, etc.
- Residential projects with 100 percent affordable housing
- Community institutions project (public library, fire station, local government)
- Local-serving hotels (e.g., non-destination hotels)
- Local-serving assembly uses (places of worship, community organizations)

- Public parking garages and parking lots
- Assisted living or senior housing projects
- Affordable, supportive, or transitional housing projects

Proposed projects are not required to satisfy all of the screening criteria in order to screen out of further VMT analysis; satisfaction of one criterion is sufficient for screening purposes. Although the commercial (retail/restaurant) portion of the project screens out since it is less than 50,000 square feet and therefore locally-serving, a VMT analysis is still required for the proposed residential component of the project.

4.1.2 Impact Criteria and Methodology

A project that does not meet the screening criteria requires preparation of a detailed VMT analysis to determine whether the project would result in a significant transportation impact. The recommended threshold for residential projects presented in the *Technical Advisory* is as follows: "A proposed project exceeding a level of 15 percent below existing VMT per capita may indicate a significant transportation impact. Existing VMT per capita may be measured as regional VMT per capita or as city VMT per capita." Therefore, a proposed project's VMT per capita must be 85% or less of the existing VMT per capita.

The most readily available Southern California Association of Governments Regional Travel Demand Model (SCAG RTDM) at the time of study preparation has been utilized to determine the residential VMT per capita for the City of Pico Rivera. The baseline residential VMT per capita utilizing SCAG RTDM for the City of Pico Rivera is provided below:

- City of Pico Rivera residential VMT: 14.39 residential VMT per capita
- Residential significance threshold: 12.23 VMT per capita (i.e., 15% below the existing baseline residential VMT per capita)

As the commercial (retail/restaurant) portion of the project screens out, since it is less than 50,000 square feet and therefore locally-serving, the residential VMT per capita associated with the project is then compared to the City of Pico Rivera baseline residential VMT per capita in order to determine whether or not the project would be expected to result in a significant impact.

4.1.3 Project VMT Analysis

Project-specific regional travel demand modeling was conducted using the most readily available SCAG RTDM at the time of study preparation. The Project is located within Traffic Analysis Zone (TAZ) 21804400. The Project development totals were converted into socio-economic data, which describes both demographic and economic characteristics of the region by TAZ, and were then coded into the SCAG RTDM. The VMT analysis results for the project using the SACG RTDM are provided below:

• The estimated residential VMT per capita for the proposed project is estimated at 14.13 residential VMT per capita.

4.1.4 CAPCOA Guidance and Project Design Features

The California Air Pollution Control Officers Association's (CAPCOA) Handbook for Analyzing Greenhouse Gas Emissions Reductions, Assessing Climate Vulnerabilities, and Advancing Health and Equity¹⁴ ("2021 Handbook") provides a comprehensive set of guidelines for assessing and quantifying reductions in greenhouse gas emissions. The emissions reduction measures are grouped by emission sector into nine categories, including transportation, energy, water, and other related areas. Transportation emissions can be reduced by improving the emissions profile of the vehicle fleet, or by reducing VMT. Reductions in VMT are achieved when any of the following occurs: 1) vehicle ownership declines, 2) vehicle trips are reduced, 3) vehicle trip lengths are reduced, or 4) any combination of the first three variables. The 2021 Handbook lists 30 quantified measures covering a total of six transportation subsectors, including land use, trip reduction programs, parking or road pricing/management, neighborhood design, transit, and clean vehicles and fuels. The majority of the measures quantified in the 2021 Handbook aim to reduce VMT, although two strategies are aimed at improving the emissions profile of the vehicle fleet and thus do not result in quantified VMT reductions. The VMT reducing strategies are broadly referred to as transportation demand management (TDM) strategies due to the focus on reducing the amount of automobile travel generated by a project.

The following TDM strategies have been determined to be applicable as project design features (PDF):

• <u>T-1. Increase Residential Density (9.79%)</u>

This measure accounts for the VMT reduction achieved by a project that is designed with a higher density of dwelling units (DU) compared to the average residential density in the country. When reductions are being calculated from a baseline derived from a travel demand model, the residential density of the relevant TAZ is used for the comparison instead. Increased densities affect the distance people travel and provide greater options for the mode of travel they choose. Increasing residential density results in shorter and fewer trips by single-occupancy vehicles and thus a reduction in VMT.

The project-generated VMT is derived from the SCAG travel demand model data. Therefore, the proposed project's potential VMT reduction is determined by comparing the residential density in TAZ 21804400 without and with the residential development. The residential density of the TAZ was determined based on parcel-level data obtained from the Los Angeles County Office of the Assessor, which reports the type of residential development (e.g., single family, duplex, multi-family), the number of units, and the acreage of each parcel.

¹⁴ Handbook for Analyzing Greenhouse Gas Emissions Reductions, Assessing Climate Vulnerabilities, and Advancing Health and Equity Final Draft, California Air Pollution Control Officers Association, December 2021, adopted December 15, 2021.

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• <u>T-4: Integrate Affordable and Below Market Rate Housing (1.43%)</u>

This measure requires inclusion of below market rate (BMR) housing. BMR housing provides greater opportunity for lower income families to live closer to job centers and achieve a jobs/housing match near transit. Increasing affordable housing creates the opportunity for a greater diversity of people to be closer to their desired destinations and the resources they may need to access. Close proximity to destinations allows for more opportunities to use active transportation and transit and to be less reliant on private vehicles.

• <u>T-15: Limit Residential Parking Supply (3.84%)</u>

This measure will reduce the total parking supply available at a residential project or site. Limiting the amount of parking available creates scarcity and adds additional time and inconvenience to trips made by private auto, thus disincentivizing driving as a mode of travel. Reducing the convenience of driving results in a shift to other modes and decreased VMT and thus a reduction in GHG emissions. This strategy changes the on-site parking supply to provide less than the amount of vehicle parking required by Code. Based on published literature and other site-specific parking surveys of other mixed-use projects' actual peak parking demands, lower than Code-required parking supplies have been determined to be sufficient. Through the Specific Plan, lower parking requirements and types of supply within the project site are being incorporated to encourage smart growth development and alternative transportation choices by project residents and employees. The proposed residential on-site parking supply (i.e., a total of 390 spaces) is planned to be less than the amount of vehicle parking that would have otherwise been required for the residential portion of the project through strict application of the City's Code (i.e., a residential Code requirement of 542 spaces). Parking restrictions will be implemented and enforced at the existing Pico Marketplace to prohibit tenants from parking in the center overnight. The signage will also include verbiage that notes that any violations of the parking restriction are subject to towing.

The combination of the TDM measures discussed above results in a 14.49 percent (14.49%) reduction in VMT. The residential VMT per capita for the proposed project would subsequently be reduced to 12.08 residential VMT per capita, which is below the calculated City significance threshold of 12.23 residential VMT per capita. Therefore, the TDM measures which have been incorporated into the project design are expected to reduce the project's VMT to a less than significant level.

4.1.5 Summary of Cumulative VMT Analysis

As stated in the County's TIA Guidelines (refer to page 13), analyses should consider both shortterm and long-term project effects on VMT. Short-term effects are evaluated in the detailed projectlevel VMT analysis summarized above. Long-term, or cumulative, effects are determined through a consistency check with the Southern California Association of Government's (SCAG's) Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS). The RTP/SCS is the regional plan that demonstrates compliance with air quality conformity requirements and greenhouse gas (GHG) reduction targets. As such, projects that are consistent with this plan in terms of development, location, density, and intensity, are part of the regional solution for meeting air pollution and GHG reduction goals. Projects that are deemed to be consistent would have a less than significant cumulative impact on VMT. Development in a location where the RTP/SCS does not specify any development may indicate a significant impact on transportation. However, as noted in the County's TIA Guidelines, for projects that do not demonstrate a project impact by applying an efficiency-based impact threshold (i.e., VMT per capita, VMT per employee, or VMT per service population) in the impact analysis, a less than significant project impact conclusion is sufficient in demonstrating there is no cumulative VMT impact. Projects that fall under the County's efficiencybased impact thresholds are already shown to align with the long-term VMT and GHG reduction goals of SCAG's RTP/SCS. The County's TIA Guidelines also note that projects which demonstrate VMT impacts through application of efficiency-based thresholds, and which are deemed inconsistent with the RTP/SCS, could contribute toward a significant cumulative impact on VMT. Since the expected significant residential VMT per capita project-related impact can be reduced to a less than significant level, it is also concluded that the project would also result in a less than significant cumulative impact on VMT.

4.2 Active Transportation and Public Transit Analysis

Pursuant to current CEQA Guidelines, a significant impact may also occur "if the project conflicts with adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decreases the performance or safety of such facilities". The following section provides a brief review of the City's adopted policies, plans, and programs pertaining to active transportation and public transit analysis.

4.2.1 Adopted Policies, Plans, or Programs

The City's current Circulation Element of the General Plan sets forth goals and policies pertaining to complete streets, transit and public transportation, and bicycle routes and pedestrian facilities, safety, among other things. Relevant adopted policies include:

- Policy 5.1-1 Multimodal Options. Make transportation mode shifts possible by designing, operating, and maintaining streets to enable safe and convenient access and travel for all users—pedestrians, bicyclists, transit riders, and people of all ages and abilities, as well as freight and motor vehicle drivers—and to foster a sense of place in the public realm.
- Policy 5.1-2 Serve All Users. Provide a safe, efficient, and accessible transportation network that meets the needs of all users in the community, including seniors, youth, and the disabled, and contributes to the community's quality of life.
- Policy 5.1-3 Complete Streets. Accommodate other modes of travel such as bicycling and walking when implementing roadway improvements, where feasible.
- Policy 5.4-1 Continuous Network. Provide a safe and continuous bicycle and pedestrian network that links neighborhoods, parks, schools, libraries, commercial development, major

employers, and other frequently visited destinations as a means of improving health in the city.

- Policy 5.4-3 Bicycle Network. Design and implement a functional bicycle network by expanding bicycle routes, striping bicycle lanes where feasible, providing signage for bicycle routes, and providing adequate bicycle parking at City facilities.
- Policy 5.4-4 Bicycle Support Facilities. Require bicycle parking and support facilities at new industrial, commercial, institutional developments, and transit facilities, as appropriate.
- Policy 5.4-6 Pedestrian Network. Improve the pedestrian network by incorporating streetscape improvements such as shade trees, plantings, lighting, and street furniture.
- Policy 5.4-7 Sidewalk Deficiencies. Improve areas with sidewalk deficiencies to increase walking in Pico Rivera.
- Policy 5.4-8 ADA. Incorporate American with Disabilities Act (ADA) requirements to create an accessible pedestrian system that can serve all users.

4.2.2 Qualitative Impact Conclusions

The proposed project is not expected to have a significant impact on active transportation or public transit in the vicinity of the project site. As described in *Section 3.1.1* herein, the project site is planned to accommodate pedestrian and bicycle access via exclusive walkways which connect the proposed project to the public sidewalks. The walkways minimize the extent of pedestrian and bicycle interaction with vehicles at the site and provide a comfortable, convenient, and safe environment which in turn can encourage use of active transportation modes. The project site is further planned to provide bicycle parking facilities for use by residents, retail employees and the public. The proposed project is therefore found to be in alignment with the City's General Plan Circulation Element goals to promote pedestrian and bicycle safety and provide appropriate and supportive active transportation infrastructure.

The proposed project is located along Washington Boulevard, which is currently served by public bus transit service provided by Montebello Bus Line 50. As noted in *Section 3.1*, the project site is within easy walking distance from existing bus stops located along Washington Boulevard. The proposed project is not expected to affect access or safety at the existing bus stops, nor is it expected to hinder public transit service along Washington Boulevard. Further, the proposed project is not expected to preclude the City from constructing bicycle facilities or pursuing bicycle network improvements along local roadways within the study area. Development of the proposed project will not prevent the City from completing any proposed transit, bicycle, or pedestrian facilities.

Since the proposed project is not found to result in conflicts with adopted policies, plans, or programs, nor is it expected to negatively affect the performance or safety of existing or planned pedestrian, bicycle, or transit facilities, it is determined that the proposed project will have a less than significant impact on active transportation and public transit in the vicinity of the project site.

5.0 **OPERATIONAL ANALYSIS**

In order to estimate the proposed project's effect on intersection operations (non-CEQA), a multistep process has been utilized. The first step is trip generation, which estimates the total arriving and departing traffic volumes on a peak hour and daily basis. The second step of the forecasting process is trip distribution, which identifies the origins and destinations of inbound and outbound project traffic volumes. These origins and destinations are typically based on demographics and existing/anticipated travel patterns in the study area. The third step is traffic assignment, which involves the allocation of project traffic to study area streets and intersections. Traffic distribution patterns are indicated by general percentage orientation, while traffic assignment allocates specific volume forecasts to individual roadway links and intersection turning movements throughout the study area. The proposed project's forecast trip generation, distribution, and assignment is presented in *Section 2.5* herein. With the forecasting process complete and project traffic assignments developed, the effect of the proposed project is isolated by comparing operational conditions at the selected study intersections and site driveways using existing and expected future traffic volumes without and with forecast project traffic.

5.1 Intersection Level of Service Analysis

5.1.1 Analysis Methodology

The study intersections were evaluated using the Intersection Capacity Utilization (ICU) method of analysis which determines Volume-to-Capacity (v/c) ratios on a critical lane basis. The ICU method is intended for signalized intersection analysis and determines the v/c ratios on a critical lane basis (i.e., based on the individual v/c ratios for key conflicting traffic movements). The ICU numerical value represents the percent signal (green) time, and thus capacity, required by existing and/or future traffic. It should be noted that the ICU methodology assumes uniform traffic distribution per intersection approach lane and optimal signal timing. The overall intersection v/c ratio is subsequently assigned a Level of Service (LOS) value to describe intersection operations. Level of Service varies from LOS A (free flow) to LOS F (jammed condition). A description of the ICU method and corresponding Level of Service is provided in *Appendix F*.

As noted in the City of Pico Rivera's *Traffic Impact Analysis Guidelines*, the ICU calculations are based on a lane capacity of 1,600 vehicles per hour (vph) for left-turn, through, and right-turn lanes, and a dual turn-lane capacity of 2,880 vph. A clearance interval of 0.15 is also included in the ICU calculations.

5.1.2 Analysis Criteria and Thresholds

The relative effect of the added project traffic volumes expected to be generated by the proposed project during the weekday AM and PM peak hours was evaluated based on analysis of existing and future operating conditions at the study intersections, without and with the proposed project. The previously discussed capacity analysis procedures were utilized to evaluate the future v/c relationships and service level characteristics at each study intersection.

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The potential effect of project-generated traffic at the study intersections was identified using the criteria set forth in the City of Pico Rivera's *Traffic Impact Analysis Guidelines*. According to the City's guidelines, a detrimental effect is determined based on the threshold criteria presented in *Table 5-1*.

INTERSECTIO	Table 5-1 CITY OF PICO RIVERA N ANALYSIS THRESHOLD CRITERIA
Level of Service	Project Related Increase in <i>v/c</i>
С	equal to or greater than 0.04
D	equal to or greater than 0.02
E / F	equal to or greater than 0.01

The City's guidelines require improvement measures whenever traffic generated by the proposed development exceeds the criteria above.

5.1.3 Transportation Analysis Scenarios

Pursuant to the City's guidelines, LOS calculations have been prepared for the following scenarios:

- [a] Existing conditions.
- [b] Existing with project conditions.
- [c] Condition [b] with implementation of improvement measures, where necessary.
- [d] Condition [a] plus 1.0 percent (1.0%) annual ambient traffic growth through year 2024 and with completion and occupancy of the cumulative projects (i.e., future without project conditions).
- [e] Condition [d] with completion and occupancy of the proposed project.
- [f] Condition [e] with implementation of improvement measures, where necessary.

The traffic volumes for each new condition were added to the volumes in the prior condition to determine the change in capacity utilization at the study intersections.

The transportation analysis prepared for the study intersections using the ICU methodology is summarized in *Table 5-2*. The ICU data worksheets for the analyzed intersections are contained in *Appendix F*.

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SUMMARY OF VOLUME TO CAPACITY RATIOS AND LEVELS OF SERVICE WEEKDAY AM AND PM PEAK HOURS Table 5-2

			Ξ		YEAR 20	21 [3	[2		[4] VFAR 2(24	YEAR 20	124	5]	
			YEAR 2 EXISTI)21 VG	EXISTING	M L	CHANGE V/C or	SIGNIF.	FUTUR PRE-PROJ	ECT	FUTURE	M F	CHANGE V/C or	SIGNIF.
NO.	INTERSECTION	PEAK HOUR	V/C or DELAY	LOS [a]	V/C or Delay	LOS [a]	DELAY [(2)-(1)]	IMPACT [b]	V/C or DELAY	LOS [a]	V/C or DELAY	LOS [a]	DELAY [(5)-(4)]	IMPACT [b]
1	Paramount Boulevard/ Washington Boulevard	AM PM	0.736 0.987	ЕC	0.743 0.994	ЕC	0.007 0.007	No No	0.762 1.021	ЧС	0.769 1.028	C F	0.007 0.007	No No
2	Crossway Drive/ Washington Boulevard	AM PM	0.471 0.712	C A	0.477 0.719	C A	0.006 0.007	No No	0.483 0.731	C A	0.489 0.739	C A	0.006 0.008	No No
c,	Rosemead Boulevard/ Coffman & Pico Road	AM PM	0.495 0.607	A B	0.497 0.609	A B	0.002 0.002	No No	0.507 0.627	A B	0.509 0.630	A B	0.002 0.003	No No
4	Rosemead Boulevard/ Washington Boulevard	AM PM	0.649 0.786	C C	0.657 0.801	D	0.008 0.015	No No	0.669 0.812	B	0.677 0.826	B D	0.008 0.014	No No

Level of Service (LOS) is based on the reported ICU value for signalized intersections and the delay value for unsignalized intersections.

According to the City of Pico Rivera Traffic Impact Study Guidelines, July 2020, an impact is considered significant if the project-related increase [b]

in the volume-to-capacity ratio (v/c) equals or exceeds the thresholds shown the following table:

Project Related Increase in v/c LOS Final v/c

equal to or greater than 0.04 > 0.710 - 0.800

D C E,F

equal to or greater than 0.02 > 0.810 - 0.900 > 0.910

equal to or greater than 0.01

5.1.4 Existing Conditions

As indicated in column [1] of *Table 5–2*, three of the four study intersections currently operate at LOS D or better during the weekday AM and PM peak hours. The following study intersection is expected to operate at LOS E during the peak hour shown below:

• Int. No. 1: Paramount Boulevard/Washington Boulevard: Weekday PM Peak Hour

The existing traffic volumes at the study intersections during the weekday AM and PM peak hours are displayed in *Figures 3–5* and 3-6, respectively.

5.1.5 Existing With Project Conditions

As shown in column [2] of *Table 5–2*, the project-related effects in the v/c ratios at the study intersections are not expected to exceed the City's threshold criteria. Therefore, based on the results of the operation evaluation, no project-specific intersection improvements are required or proposed at the study intersections. The existing with project traffic volumes at the study intersections during the weekday AM and PM peak hours are illustrated in *Figures 5–1* and *5–2*, respectively.

5.1.6 Future Without Project Conditions

The future cumulative baseline conditions were forecast based on the addition of traffic generated by the completion and occupancy of the cumulative projects, as well as the growth in traffic due to the combined effects of continuing development, intensification of existing developments and other factors (i.e., ambient growth). The v/c ratios at all of the study intersections are incrementally increased with the addition of ambient traffic and traffic generated by the cumulative projects listed in *Table 3–3*. As presented in column [3] of *Table 5–2*, three of the four study intersections are expected to operate at LOS D or better during the weekday AM and PM peak hours with the addition of growth in ambient traffic and cumulative projects traffic under the future without project conditions. The following study intersection is expected to operate at LOS F during the peak hour shown below with the addition of growth in ambient traffic and cumulative projects traffic under the future the projects traffic under the future without project the future without project traffic under the addition of growth in ambient traffic and cumulative projects traffic under the future without project the future without project traffic under the future without project the future without project traffic under the future without project the future without project traffic under the future without project the future without project traffic under the future without project the future without project traffic under the future without project the future without project traffic under the future without project the future without project traffic under the future without project the future without project conditions:

• Int. No. 1: Paramount Boulevard/Washington Boulevard: Weekday PM Peak Hour

The future without project (existing, ambient growth and cumulative projects) traffic volumes at the study intersections during the weekday AM and PM peak hours are presented in *Figures* 5-3 and 5-4, respectively.

5.1.7 Future With Project Conditions

As shown in column [4] of *Table 5–2*, the project-related effects in the v/c ratios at the study intersections are not expected to exceed the City's threshold criteria. Therefore, based on the results of the operation evaluation, no project-specific intersection improvements are required or proposed. The future with project (existing, ambient growth, cumulative projects and project) traffic volumes at the study intersections during the weekday AM and PM peak hours are illustrated in *Figures 5–5* and *5–6*, respectively.



c=//00_file_/8144/9/f5_13/gwb/8144/9/if_doi/:0



o:/job_file/4418/dwg/f5-2.dwg LDP 09:35:46 01/06/2022 rodriguez



o:/job_file/44/18/dwg/f5-3.dwg LDP 09:36:01 01/06/2022 rodriguez



o:/job_file/44/8/4wg/f5-4.dwg LDP 09:35:12 01/06/2022 rodriguez



couping 2202/00/10 85:55:00 PM LDP 09/08144/911_doj/:0



co:/job_f16/202/00/02 24:44:42 01/06/2022 rodriguez

5.2 Access and Circulation Review

The access and circulation have been evaluated for the project. The analysis of site driveways was prepared based on the *Highway Capacity Manual*¹⁵ (HCM) operational analysis methodology. The driveway analyses were prepared utilizing the *Synchro 11* software package, which implements the Highway Capacity Manual operational methods. A *Synchro* network was created based on existing conditions field reviews at the site driveways. In addition, specifics such as traffic volume data, lane configurations, available vehicle storage lengths, crosswalk locations, posted speed limits, traffic signal timing and phasing for signalized locations, etc., were coded to complete the roadway network. Traffic volume data were obtained from manual counts conducted at the site driveways during the weekday morning and afternoon commute periods and are contained in *Appendix D*.

The operational analysis of vehicle queuing at the site driveways was prepared for the following conditions:

- [a] Existing conditions.
- [b] Condition [a] plus 1.0 percent (1.0%) annual ambient traffic growth through year 2024 (i.e., project build-out) and with completion and occupancy of the related projects (i.e., future without project conditions).
- [c] Condition [b] with completion and occupancy of the proposed project (i.e., future with project conditions).

The HCM methodology for signalized and unsignalized intersections was utilized to calculate vehicle queuing. The operational analysis reports the 95th percentile queues (in feet) for all approaches for the signalized intersections and the minor street approaches for the unsignalized intersections. The 95th percentile queue is the maximum back of queue with 95th percentile traffic volumes. The HCM 6th Edition methodology worksheets report queues in number of vehicles. As such, an average vehicle length of 25 feet, which includes the length of the vehicle and spacing between vehicles, was assumed for analysis purposes. The reported queues therefore represent the calculated maximum back of queue in feet. The summary of the operational analysis of the site driveways is provided in *Table 5-3*. As presented in *Table 5-3*, it is concluded the proposed project weekday AM and PM peak hour traffic volumes will not cause or substantially extend vehicle queuing at the site driveways. The HCM methodology worksheets for the site driveways are contained in *Appendix G*.

¹⁵ *Highway Capacity Manual 6th Edition*, Transportation Research Board of the National Academies of Sciences-Engineering-Medicine, 2016.

Table 5-3 SUMMARY OF VEHICLE QUEUING [1] WEEKDAY AM AND PM PEAK HOURS

					95th P	ERCENTILE QUEU	ES (FEET PER LAN	E) [2]
						YEAR 2024	YEAR 2024	
		TRAFFIC		PEAK		FUTURE W/O	FUTURE W/	CHANGE
NO.	DRIVEWAY	CONTROL	MOVEMENT	HOUR	EXISTING	PROJECT	PROJECT	IN QUEUE [3]
1	Project Driveway/	Unsignalized	EB Left	AM	25	28	40	15
	Washington Boulevard			PM	43	48	80	37
	1							
			WB Right	AM	0	0	0	0
	1		-	PM	0	0	0	0
2	Rosemead Boulevard/	Signalized	NB Left	AM	3	3	3	0
	The Marketplace			PM	8	8	8	0
	1							
			SB Right	AM	113	120	145	32
				PM	238	255	270	32

[1] Pursuant to LA County Public Works' *Transportation Impact Analysis Guidelines*, July 2020, the Highway Capacity Manual (HCM) methodology for intersections was utilized to calculate vehicle queuing.

[2] The 95th percentile queue is the maximum back of queue with 95th percentile traffic volumes. The HCM 6th Edition methodology worksheets report queues in number of vehicles per lane, however an average vehicle length of 25 feet was assumed for analysis purposes. The reported queues therefore represent the calculated maximum back of queue in feet per lane.

[3] Represents the change in calculated maximum back of queue (in feet per lane) due to the addition of project-related traffic.

6.0 **PROJECT CONSTRUCTION PHASE ANALYSIS**

The project construction evaluation addresses activity associated with project construction and major in-street construction of infrastructure projects. The analysis addresses the effect of a project's construction activity on existing pedestrian, bicycle, transit, or vehicular circulation in the vicinity. Factors which are to be considered include the location of the project site, functional classification of the adjacent streets, availability of alternate routes or additional capacity, temporary loss of bicycle parking, temporary loss of bus stops or rerouting of transit lines, duration of temporary loss of access, affected land uses, and magnitude of the temporary construction activities.

While detailed construction plans have not yet been developed, the project applicant has provided preliminary information regarding the overall construction activities in order to identify the potential construction traffic generation. The following general construction details are provided based on information provided by the project applicant team:

Construction of the project is expected to occur within 24 months, beginning in 2022 with an estimated completion and project occupancy by 2024. Construction activities would be permitted between the hours of 7:00 AM and 4:00 PM, Monday through Friday. No construction would occur on Saturday or Sunday. Earthwork activities necessary for construction would require an estimated 27,400 cubic yards of export. All earthwork volumes have been adjusted to account for swelling and shrinking. Exported soil materials likely would be disposed of at the Azusa Landfill.

Based on the modeling data provided by the project team, the construction vehicles that are planned to be utilized for import and export activities will have a capacity of 14 cubic yards per truck. A total of 3,196 truck trips would be required for complete export of material associated with the project. During peak grading activities (20-32 workdays), up to 143 truck trips per day and 30 workers can be expected. Following the completion of the site grading, building construction would occur during the following 20 months, requiring 60 workers per day. Asphalt paving and architectural coating would occur during the final two months of construction, requiring 12-15 workers per day.

It is assumed that the equipment staging area during construction would occur on/within the project site. Construction worker parking also could occur on-site. Based on the above construction hours it is assumed that workers would generally arrive at the site by 7:00 AM and depart the site by 4:30 PM (i.e., after a nine-hour workday including a lunch break), except when overtime is necessary to maintain the schedule. At this time, it is not known if temporary travel lane closures will be necessary during the course of project construction. However, any such travel lane closures would be expected to occur outside the weekday AM and PM commute hours so as to maintain roadway capacity when the street system is typically most heavily constrained. In addition, access to the existing Pico Rivera Marketplace will not be impeded as the other existing access points along Washington Boulevard and Rosemead Boulevard for the center will remain open during construction.

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Based on a review of the construction phasing, it is determined that the overall highest construction peak hour traffic generation is expected to occur during grading activities. Other phases such as demolition, building construction, asphalt paving and architectural coating are expected to be less intensive in terms of overall construction traffic generation during the weekday AM and PM peak hours. In addition, with implementation of a Construction Staging and Traffic Management Plan (CSTMP), as discussed further below, it is anticipated that most haul truck activity to and from the project site could occur outside of the morning and afternoon peak hours. Accordingly, construction traffic associated with the other phases are not expected to result in any construction traffic impacts given implementation of the CSTMP.

6.1 Screening Criteria

In order to determine the appropriateness and applicability of construction phase analysis for land use development projects, the County's Guidelines provide the following questions for consideration, with discussion of the proposed project's expected construction activities provided below:

- For projects that require construction activities to take place within the right-of-way of a highway or arterial, would it be necessary to close any temporary lanes, alleys, or streets for more than one day (including day and evening hours, and overnight closures if on a residential street)?
 - No. The project is not expected to require construction activities for more than one day within the right-of-way of Washington Boulevard, which is designated as a major arterial in the City's General Plan Circulation Element.
- For projects that require construction activities to take place within the right-of-way of a Local Street, would it be necessary to temporarily close any lanes, alleys, or streets for more than seven days (including day and evening hours, and including overnight closures if on a residential street)?
 - No. The project is not expected to require construction activities within the right-ofway of any Local Street as designated in the City's General Plan Circulation Element.
- Would in-street construction activities result in the loss of any vehicle, bicycle, or pedestrian access, including loss of existing bicycle parking to an existing land use for more than one day, including day and evening hours and overnight closures if access is lost to residential units?
 - No. The project is not expected to result in the loss of vehicle, bicycle, or pedestrian access to any adjacent existing land uses. The majority of construction activity is expected to take place internal to the project site.
- Would in-street construction activities result in the loss of any ADA access to an existing transit station, stop, or facility (e.g., layover zone)?
 - No. The project is not expected to result in the loss of ADA access to an existing transit station, stop, or facility.

- Would in-street construction activities restrict access to any bus stops for more than one day, or necessitate any rerouting of a bus route?
 - No. The project is not expected to restrict access to any bus stops for more than one day, or necessitate any rerouting of a bus route.
- Would construction of a project interfere with pedestrian, bicycle, transit, or vehicle circulation and accessibility to adjoining areas?
 - No. The project is not expected to interfere with pedestrian, bicycle, transit, or vehicle circulation and accessibility to adjoining areas.

As the answer is no to all of the screening criteria above, further analysis of project construction is not required. While it is concluded that the proposed project would not result in the closure of travel lanes, alleys, or streets for more than one day, would not relocate existing bus transit stops or routes, and would not interfere with pedestrian, bicycle, transit, or vehicle circulation and accessibility during construction, it is recommended that a construction work site traffic control plan be submitted to the City for review and approval prior to the start of construction activity. The construction work site traffic control plan is required to identify the location of any temporary roadway lane and/or sidewalk closures needed during project construction, including the construction of the new (replacement) project driveway and handicap accessible ramp, and installation of new curb and gutter near the driveway that is planned for closure. As the new driveway will be designed to meet City standards, no hazards with respect to driveway design and/or safety are expected.

Section 6.0 above notes that the project applicant would be required to prepare a detailed CSTMP, which would include any applicable street/lane/sidewalk closure information, a detour plan, haul route(s), and a staging plan. The plan would be based on the nature and timing of the Project's specific construction activities and would consider other projects under construction in the immediate vicinity of the Project Site, if any. The CSTMP also would include features such as notification to adjacent project owners and occupants of upcoming construction activities, advance notification regarding any temporary transit stop relocations, and limitation of any potential roadway lane closure(s) to off-peak travel periods, to the extent feasible.

Specifically, the CSTMP will include, but not be limited to, the following measures:

- Advance notification of adjacent property owners and occupants of upcoming construction activities, including durations and daily hours of operation.
- Temporary traffic control during all construction activities adjacent to public rights-of-way to improve traffic flow on public roadways (e.g., flag person/s).
- Scheduling of construction activities to reduce the effect on traffic flow on surrounding arterial streets.
- Potential sequencing of construction activity for the Project to reduce the amount of construction-related traffic on arterial streets.

- Containment of construction activity within the Project Site boundaries, per the Worksite Traffic Control Plan.
- Prohibition on construction-related vehicles/equipment parking on surrounding public streets.
- Coordination with transit service provider/s to address any potential conflicts with existing transit service.
- Safety precautions for pedestrians and bicyclists through such measures as alternate routing and protection barriers shall be implemented as appropriate.
- Schedule delivery of construction materials and hauling/transport of oversize loads to nonpeak travel periods, to the extent possible. No hauling or transport shall be allowed during nighttime hours, Sundays, or federal holidays unless required by the City and/or Caltrans.
- Installation of appropriate traffic signs around the project site to ensure pedestrian, bicycle, and vehicle safety, as may be necessary.
- Installation of truck crossing signs within 300 feet of the exit of the Project Site in each direction.
- Securing of loads by trimming and watering or covering to prevent the spilling or blowing of the earth material.
- Cleaning of trucks and loads at the export site to prevent blowing dirt and spilling of loose earth.
- Identification of a construction manager and provision of a telephone number for any inquiries or complaints from residents regarding construction activities. The telephone number shall be posted at the site readily visible to any interested party during site preparation, grading, and construction.
- Obtain a Caltrans transportation permit for use of oversized transport vehicles on Caltrans facilities, if needed.

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7.0 SUMMARY AND CONCLUSIONS

- **Project Description** The project site is located at 8825 Washington Boulevard (APN: 6370-027-018) situated along the north side of Washington Boulevard, west of Rosemead Boulevard in the City of Pico Rivera. The existing 2.85-acre project site is currently vacant, formerly occupied by a commercial building that operated as a nightclub until March 2015 and was subsequently demolished in 2020. The project applicant, Mercury Bowl, LLC: Green Rivera, LLC, is seeking approval from the City of Pico Rivera for implementation of the Washington and Rosemead Mixed-Use Specific Plan that reflects the proposed development of a mixed-use building with subterranean parking, ground-floor retail, and residential uses. If the Specific Plan is approved by the City, it would allow for the development of 255 residential dwelling units including 13 affordable units, 5,730 square feet of commercial/retail space; 1,750 square feet of ground-floor lobby/leasing space; and 13,500 square feet of recreational amenities for future residential tenants. The proposed residential unit mix consists of 35 studio units, 159 onebedroom units, 57 two-bedroom units, and 4 three-bedroom units. Amenities for the proposed mixed-use development include a swimming pool, jacuzzi, poolside cabanas, clubhouse, gym, barbecue area, and garden/green areas. Construction and occupancy of the proposed project is expected to occur by the end of year 2024.
- **Project Site Access** Vehicular access to the project site is planned to be accommodated by a total of two (2) driveways: one (1) existing driveway on Washington Boulevard and one (1) existing driveway on Rosemead Boulevard. The curb cut for the existing westerly site driveway on Washington Boulevard will remain and will be used solely for emergency/fire access but not for vehicular access. Pedestrian and bicycle access to the project site is planned to be accommodated via exclusive walkways which would connect to the public right-of-way.
- **Project Trip Generation** The proposed project is expected to generate 111 vehicle trips (40 inbound trips and 71 outbound trips) during the weekday AM peak hour. During the weekday PM peak hour, the proposed project is expected to generate 134 net new vehicle trips (80 inbound trips and 54 outbound trips). Over a 24-hour period, the proposed project is forecast to generate 1,594 daily trip ends during a typical weekday (797 inbound trips and 797 outbound trips).
- *Transportation Demand Management Measures* Transportation demand management (TDM) measures are proposed to be incorporated as project design features.
- *VMT Analysis:* It is concluded that development of the project is not expected to result in a significant residential (household) VMT impact based on the City's significance thresholds contained herein. Further, based on the project-related VMT analysis and the conclusions reported in Section 4.1.5 (i.e., which conclude that the proposed project aligns with the long-term VMT and GHG reduction goals of SCAG's RTP/SCS), no cumulative VMT impacts are anticipated.

LINSCOTT, LAW & GREENSPAN, engineers

- **CEQA** Active Transportation and Public Transit Assessment The proposed project is found to be in alignment with the City's General Plan Circulation Element goals to promote pedestrian and bicycle safety and provide appropriate and supportive active transportation infrastructure. Further, development of the proposed project will not prevent the City from completing any proposed transit, bicycle, or pedestrian facilities. It is therefore determined that the proposed project will have a less than significant impact on active transportation and public transit in the vicinity of the project site.
- Intersection Level of Service Analysis – A total of four (4) study intersections were selected for analysis in consultation with City staff in order to determine potential effects related to the proposed project. The study locations were evaluated using the Intersection Capacity Utilization (ICU) methodology. It is concluded that the project-related effects in the *v/c* ratios at the study intersections are not expected to exceed the City's threshold criteria under either the Existing With Project or Future With Project conditions. Therefore, based on the results of the operation evaluation, no project-specific intersection improvements are required or proposed.
- **Project Access and Circulation Review** A review of the project site driveways was conducted. It is concluded that the proposed project weekday AM and PM peak hour traffic volumes will not cause or substantially extend vehicle queuing at the site driveways.
- **Project Construction Phase Analysis** While it is concluded the proposed project would not result in the closure of through travel lanes, alleys, or streets, would not relocate existing bus transit stops or routes, and would not interfere with pedestrian, bicycle, transit, or vehicle circulation and accessibility during construction, it is recommended that a construction work site traffic control plan be submitted to the City for review and approval prior to the start of construction activity should any travel lane closure/s be proposed. The project applicant would also prepare a detailed Construction Staging and Traffic Management Plan, which includes any applicable street/lane/sidewalk closure information, a detour plan, haul route(s), and a staging plan. No hazards or other safety concerns are expected at the project driveways and the new Washington Boulevard driveway will be designed in accordance with City standards and be in very close proximity to the existing driveway which is planned for closure.

APPENDIX A

SCOPE OF STUDY FORM



	Sco	be of Stud	dy Fo	rm-F	Part A			
To be completed by the p	reparer of a tra	ffic study and start of a	approve	d by th udv	ne City's P	ublic Works De	partment	prior to
Project Name:		Washingto	n and Ro	semea	ad Mixed-U	se		
Project Address:		8825	Washing	ton Bo	oulevard			
	255	Apartments (13	affordab	le), 5,5	i00 SF retai	l/restaurant,		
Project Description:		27,	000 SF S	Self-Sto	orage			
Developer's Name:		Mercury Bo	owl, LLC,	, Greer	n <mark>Rivera</mark> , LL	.C		
Address:	1801	Century Park Ea	ast, Suite	2100,	Los Angele	es, CA 90067		
Telephone No.	586-41	9-0927	Fa	x Num	ber:			
Email Address:		jerome(Doptimus	sprope	rtiesllc.com			
Trip Generation Rates From	<u>I: ITE</u>	Ed.	Other:		ITE 1	Oth Edition, LAD	OT TAG	
Trip Generation For:	Refer to attack	ned Table 2-1						
Land Use (1)				Lar	nd Use (2)			
ITE Land Use Code			ITE	land	Use Code			
Daily Trips]	Daily Trips			
AM Peak Hour Trips			AM	Peak I	Hour Trips			
Inbound					Inbound			
Outbound					Outbound			
Total					Total			
PM Peak Hour Trips			PM	Peak I	Hour Trips			
Inbound					Inbound			
Outbound					Outbound			
Total					Total			
	(Use	Additional Shee	et(s). if ne	ecessa	rv)		I	
Pass-by Trips (%), if applic	able:	%						
Trip Credits, if applicable for	or any existing u	ise: None						
Land Use (1)				Lar	nd Use (2)			
ITE Land Use Code			ITE	Land	Use Code			
Daily Trips				[Daily Trips			
AM Peak Hour Trips			AM Pea	ak Hou	r Trips			
Inbound					Inbound			
Outbound					Outbound			
Total					Total			
PM Peak Hour Trips:			PM Pea	ak Hou	r Trips:			
Inbound					Inbound			
Outbound					Outbound			
Total					Total			
Project Opening Year:	2024			Build	-out Year:	2024		
Study Intersections: 1	Paramount I	Blvd/Washington	n Blvd	6				
2	Crossway D	rive/Washingtor	Blvd	7				
3	Rosemead	Blvd/Coffman-F	Pico	8				
4	Rosemead E	Blvd/Washingtor	n Blvd	9				
5				10				
	(Use	Additional Shee	et(s), if ne	ecessa	ry)			

			Scop	e of	Study	form(con	tinu	led)					
Study Segments:	Washir	ngton l	BI, btwn	Rose	mead BI &	R Paramo	unt	6						
2	Rosem	nead B	l, btwn	Washi	ngton BI 8	Whittier	BI	7						
3								8						
4								9						
5								10						
			(Use	Addit	ional Shee	et(s), if ne	cess	ary)						
Ambient Growth Rat	te:	0.2	24	%	Source:	LA Count	y CN	IP, R	SA 22					
Trip Distribution:		East	25	%	West	25	%		North	25	%	South	25	%
Include exhibit show intersections and pr	wing trip roject dr	o distr rivewa	ibution ays	/ assi	gnment a	nd a map	sho	wing	the pr	oject's f	rips a	at the stu	ıdy	
	c													
	((Use A	dditiona	al She	et(s), if ne	cessary)								
Preparer's N	ame: F	France	esca Bra	avo, Li	nscott, La	w & Gree	nspa	n, En	gineers	6				
Add	Iress: 6	600 So	outh Lak	ke Ave	nue, Suite	e 500, Pas	sader	na, C	A 9110	6				
Telephone	e No.	(626) 796-2	322 ex	xt. 223	Fax	Num	nber:		(626) 79	2-094	1		
Email Add	lress:				brav	vo@llgeng	ginee	rs.co	m					
Signa	ature:							Date:	Marc	h 1, 202	1			

Part B- VMT Analysis

1. Project Screening

The project does not meet screening criteria.

2. Project Generated VMT Methodology

To Be Determined

3. VMT Methodology Benchmarks

To Be Determined

Specific issues to be addressed in the Study (in addition to the standard analysis described in the Guideline) (To be filled out by City Staff)

Scoping Agreement Submitted on <u>March 1, 20</u>	21
Revised on,,,,	,
Approved Scoping Agreement:	
Approved Scoping Agreement: Approved By (Department of Public Works):	
Approved Scoping Agreement: Approved By (Department of Public Works): Signature:	Date:



3/24/2021



correction 1202/10/50 14:35:01 90.1-11/gwb/8144/911-00/:0

Washington-Rosemead Mixed-Use Project


Table 2-1 PROJECT TRIP GENERATION [1]

		DAILY	AM	PEAK HO	OUR	PM	PEAK HO	DUR
		TRIP ENDS [2]	V	OLUMES	[2]	V	OLUMES	[2]
LAND USE	SIZE	VOLUMES	IN	OUT	TOTAL	IN	OUT	TOTAL
Apartment [3]	242 DU	1,316	23	64	87	65	41	106
- Less 15% Internal Capture/Captive Market [4]		(197)	(3)	(10)	(13)	(10)	(6)	(16)
Affordable Housing [5]	13 DU	54	3	4	7	3	2	5
- Less 15% Internal Capture/Captive Market [4]		(8)	0	(1)	(1)	0	0	0
Retail [6]	2,750 GLSF	104	2	1	3	5	5	10
	,							
Restaurant [7]	2.750 GSF	308	15	12	27	17	10	27
[,]	_,,,,,,				_,	- /		-,
Self-Storage [8]	27.000 GSF	41	2	1	3	2	3	5
ben biologe [0]	27,000 001	71	2	1	5	2	5	5
TOTAL		1.618	42	71	113	82	55	137

 Source: ITE "Trip Generation Manual", 10th Edition, 2017 and Transportation Assessment Guidelines (TAG), City of Los Angeles Department of Transportation (LADOT), July 2020.

- [2] Trips are one-way traffic movements, entering or leaving.
- [3] ITE Land Use Code 221 (Multi-Family [Mid-Rise]) trip generation average rates.
 - Daily Trip Rate: 5.44 trips/dwelling unit; 50% inbound/50% outbound
 - AM Peak Hour Trip Rate: 0.36 trips/dwelling units; 26% inbound/74% outbound
 - PM Peak Hour Trip Rate: 0.44 trips/dwelling units; 61% inbound/39% outbound

[4] Source: ITE "Trip Generation Handbook", 3rd Edition, 2017 and the National Cooperative Highway Research Program (NCHRP) Report 684 -"Enhanced Internal Trip Capture Estimation for Mixed-Use Developments", 2011. Internal capture and Captive markets trips are trips made to and from other components of the project and other uses in the immediate vicinity of the site. A 15% internal capture/captive market reduction factor has been applied to reflect the internal trip making between the project land uses and other uses in the area.

- [5] LADOT trip generation average rates for Family Affordable Housing.
 - Daily Trip Rate: 4.16 trips/dwelling unit; 50% inbound/50% outbound
 - AM Peak Hour Trip Rate: 0.52 trips/dwelling unit; 38% inbound/62% outbound
- PM Peak Hour Trip Rate: 0.38 trips/dwelling unit; 55% inbound/45% outbound
- [6] ITE Land Use Code 820 (Shopping Center) trip generation average rates.
 - Daily Trip Rate: 37.75 trips/1,000 SF; 50% inbound/50% outbound
 - AM Peak Hour Trip Rate: 0.94 trips/1,000 SF; 62% inbound/38% outbound
 - PM Peak Hour Trip Rate: 3.81 trips/1,000 SF; 48% inbound/52% outbound
- [7] ITE Land Use Code 932 (High-Turnover [Sit-Down] Restaurant) trip generation average rates.
 - Daily Trip Rate: 112.18 trips/1,000 SF of floor area; 50% inbound/50% outbound
 - AM Peak Hour Trip Rate: 9.94 trips/1,000 SF of floor area; 55% inbound/45% outbound
 - PM Peak Hour Trip Rate: 9.77 trips/1,000 SF of floor area; 62% inbound/38% outbound
- [8] ITE Land Use Code 151 (Mini-Warehouse) trip generation average rates.
 - Daily Trip Rate: 1.51 trips/1,000 SF; 50% inbound/50% outbound
 - AM Peak Hour Trip Rate: 0.10 trips/1,000 SF; 60% inbound/40% outbound
 - PM Peak Hour Trip Rate: 0.17 trips/1,000 SF; 47% inbound/53% outbound

APPENDIX B

EMPIRICAL PARKING DEMAND DATA

Appendix Table B-1	SUMMARY OF PARKING DEMAND RATIOS AT COMPARABLE SITES [1]
--------------------	--

			EXISTIN	G ON-SITE [3]	EXISTING	OBSERVED [4]	AT FULL (DCCUPANCY [5]
	TOTAL NO.		ON-SITE	PARKING	PEAK	PEAK PARKING	PEAK	PEAK PARKING
	DWELLING	OCCUPANCY	PARKING	SUPPLY RATIO	PARKING	DEMAND RATIO	PARKING	DEMAND RATIO
SITES	UNITS [2]	LEVELS [2]	SUPPLY	(SPACES/UNIT)	DEMAND	(SPACES/UNIT)	DEMAND	(SPACES/UNIT)
1. Paragon at Old Town	163	95.7%	404	2.48	231	1.42	241	1.48
2. Trio Apartments	304	94.0%	480	1.58	348	1.14	370	1.22
3. Main Street Village	481	93.8%	1,020	2.12	639	1.33	681	1.42
TOTALS (1 + 2 + 3)	948	94.5%	1,904	2.01	1,218	1.28	1,292	1.36

[1] The parking demand ratios were developed based on the number of dwelling units and parking spaces provided at each observation site, as well as the results of the parking accumulation surveys conducted for each

[2] The site characteristics, including number of residential units and the site occupancy levels at the time of the parking accumulation surveys were provided by Lincoln Property Company representatives. site (on-site and on-street as applicable) in September 2012 (refer to Appendix A for a summary of the parking surveys for each site).

[4] The existing peak parking demand was observed to occur at 11:00 PM for the Paragon at Old Town and at 12:00 AM midnight for the Trio Apartments and Main Street Village. The existing peak parking demand for [3] The parking supply was inventoried by LLG Engineers in September 2012. The parking supply includes all marked parking spaces provided on-site (i.e., regular, handicap, visitor, etc.) for residents, guests, vendors. The existing supply parking ratios are based on the number of spaces provided by the total number of dwelling units.

the Paragon at Old Town and Trio Apartments included on-site and on-street observed parking demand associated with residents/guests for the sites. The weekday parking demand ratios are based on the parking demand observed for each site divided by the total number of dwelling units.

[5] Peak parking demand was forecasted at full (100%) occupancy for each site. The peak parking demand ratios at full occupancy were derived by dividing the peak parking demand by the total number of dwelling units.

APPENDIX C

LADOT AFFORDABLE HOUSING TRIP GENERATION STUDY





Transportation Assessment Guidelines

July 2020



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For comments or questions regarding the transportation study review policies and practice of the City of Los Angeles,

please contact:

City of Los Angeles Department of Transportation

Bureau of Planning & Development Services

Eddie Guerrero, P.E., Transportation Engineer, Metro and West Los Angeles Office

David Somers, Transportation Planning and Policy

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www.ladot.lacity.org

calibration of the simulation model.

Land Use Development Projects

Project Trip Generation

A land use project's daily vehicle trips and trip generation may be estimated using the VMT Calculator tool or information from the most recent edition of the ITE Trip Generation Manual. However, if the project is in a Transportation Specific Plan (TSP) area, then the procedures and trip rates identified in the TSP should be applied. If other rates are proposed, then these rates must first be submitted with the appropriate background survey data for approval by LADOT. A table presenting the estimated number of daily trips and AM and PM peak-hour trips generated by the proposed project entering and exiting the site must be included.

The following adjustments may apply to some projects (any trip generation rate adjustments must be approved by LADOT during the scoping process):

ITE 10th Edition – The 10th Edition of the ITE Trip Generation manual, released in September 2017 introduces trip generation rates for select land uses categorized by area type: Rural, General Urban/Suburban, Dense Multi-Use Urban, and City Core. The manual provides descriptions of the area types and guidance on how these rates should be applied. As part of the MOU process, LADOT should be consulted to confirm the appropriate ITE area type for the project location. If Dense Multi-Use Urban or City Core rates are to be used, care should be taken to ensure that the sample size within the ITE database is appropriate, in accordance with guidance in the *ITE Trip Generation Handbook*.

In addition, locally available trip generation rates developed from counts conducted at market-rate residential properties in the City of Los Angeles are higher than the ITE 10th Edition rates for mid-rise and high-rise multifamily uses in dense multi-use urban areas. The empirical rates presented in **Table 3.3-1** should be used for these uses.

LAND USE	AM PEAK HOUR	PM PEAK HOUR
	(trips per DU)	(trips per DU)
Multifamily Mid-Rise	0.31	0.30
Multifamily High-Rise	0.23	0.30

Table 3.3-1: Local Trip Generation Rates for Multifamily Mid-Rise and High-Rise Residential Land Uses in Dense Multi-Use Urban Areas

- <u>Unique Developments</u> Unique types of development may require trip generation studies of similar facilities in order to establish a trip rate for use in the analysis. These developments may include land uses for which trip generation rates are not available in the ITE Trip Generation manual, or land uses for which the rates in the ITE Trip Generation manual are based on a small sample of surveyed sites. The procedures and the results of the trip generation studies must be approved by LADOT.
- Existing or Qualified Terminated Use When estimating the Project's net new trips either when evaluating a land use project's deficiencies toward access and circulation, or for screening a project from VMT analysis, any claim for trip credits for an existing or terminated land use generally requires that the use of land must have been active for at least 6 consecutive months during the past 2 years from the time of the base year vehicle trip counts. To fully ensure that trip credit claims are validated by LADOT, appropriate supporting documentation must be submitted, such as copies of any building permit, certificate of occupancy, business license, lease agreement, affidavits, utility bills, or photographs, as well as documentation as to when the previous land use

was terminated, if applicable. Documentation of any previous environmental review should be included in this submittal. The absence of documentation of previous environmental review may result in denial of the claim for trip credits. Note that some TSP ordinances allow different time frames for the determination of existing use trip credits and of any applicable trip fees.

- <u>Mixed-Use Internalization</u> Internal trip credits are a reduction to the trip generation estimates for individual land uses within a mixed-use development to account for trips internal to the site. Methods for determining internalization are provided in the Institute of Transportation Engineers Trip Generation Handbook, Transportation Research Board (TRB) National Cooperative Highway Research Program (NCHRP) Report 684: Enhancing Internal Trip Capture Estimation for Mixed-Use Developments, and the United States Environmental Protection Agency's Mixed-Use Trip Generation Tool (MXD).
- <u>Pass-by Trips</u>³⁹ Any claim for "pass-by" trip generation adjustments must use the trip rates summarized in **Attachment H** titled "Pass-By Trip Rates," which are based on rates published by ITE. However, these rates may be superseded by additional guidelines provided in specific plans. For the purpose of analyzing project driveways, the pass-by trip adjustment does not apply to the project driveway trips.
- <u>Transit-friendly Projects</u> LADOT encourages project applicants to design and construct transit-friendly
 Projects that create safe and walkable site design and facilities that connect Project patrons to and from transit
 stations and stops. Consistent with City policy goals to promote the use of transit and walking, LADOT, at its
 discretion, may allow up to a 25% transit/walk trip generation reduction, subject to the following guidelines, on
 a case by case basis:
 - Developments above or adjacent to a Metro Rail, Metrolink, or Orange Line station, or to a similar dedicated transit line station with convenient pedestrian access to the station may qualify for a maximum 25% trip generation adjustment. The actual adjustment provided should be determined by an analysis of the transit service frequency and density at the specified transit station.
 - Developments within a 1/4-mile walking distance of a transit station, or of a Rapid Bus stop, may qualify for up to a 15% trip generation adjustment. The actual adjustment provided will be determined by an analysis of the transit service frequency and density at the specified transit station or Rapid Bus stop.
 - If the development project is not within ¼-mile walking distance of a transit station or a Rapid Bus stop but is within a ¼-mile walking distance of other public bus stops, the project may still qualify for up to 10% trip generation adjustment. The actual adjustment provided will be determined by an analysis of the transit service frequency and density at the nearby bus stop(s).

Transit trip adjustment will not be automatically granted to development projects located in an area with infrequent transit service. However, all reasonable efforts by the developer to promote the use of public transit or walking will be considered for transit adjustments on a case-by-case basis. Refer to **Section 2.2** of these Guidelines for transit-related mitigation measures.

Since the Dense Multi-Use Urban and City Core trip generation rates discussed previously were derived from data collected in dense urban areas with convenient and frequent transit service and the ability to walk to complementary land uses, etc., these effects are inherent in the rates. If Dense Multi-Use Urban or City Core rates are being used for land uses in a project, care should therefore be taken to avoid overestimating these

³⁹ Pass-by trips are defined as patrons already traveling from an origin to a primary trip destination who make an intermediate stop at the project site without a route diversion.

effects by taking additional transit or walk credits.

- <u>TDM Trip Reduction</u> Features and amenities that may qualify a project for this adjustment include the TDM measures to achieve the minimum point value in the TDM Program Description and TDM measures in the VMT Calculator (see **Attachment G**).
- <u>Affordable Housing Projects</u> Residential or mixed-use developments that include Affordable Housing Units
 [as defined in LAMC 12.22-A.25(b)] are eligible to use the locally-collected trip generation rates presented in
 Table 3.3-2, which are based on the total number and type of dwelling units reserved as affordable. These trip
 generation rates are based on vehicle trip count data collected at affordable housing sites in the City of Los
 Angeles in 2016.

AFFORDABLE HOUSING TYPES		DAILY RATE	AM PEAK HOUR RATE	% AM TRIPS IN	% AM TRIPS OUT	PM PEAK HOUR RATE	% PM TRIPS IN	% PM TRIPS OUT
Arrond			(Trips per DU)			(Trips per DU)		
	Family	4.16	0.52	38%	62%	0.38	55%	45%
Avorago	Seniors	1.72	0.12	38%	62%	0.15	52%	48%
Average	Special Needs	1.49	0.17	43%	57%	0.11	54%	46%
	Permanent Supportive	1.23	0.08	67%	33%	0.13	53%	47%
	Family	4.16	0.49	37%	63%	0.35	56%	44%
Inside	Seniors	1.31	0.13	38%	62%	0.13	47%	53%
Area	Special Needs	1.00	0.10	30%	70%	0.05	67%	33%
	Permanent Supportive	0.87	0.08	62%	38%	0.09	59%	41%
	Family	4.15	0.55	40%	60%	0.43	55%	45%
Outside	Seniors	1.97	0.11	38%	62%	0.17	55%	45%
Area	Special Needs	1.98	0.24	54%	46%	0.16	44%	56%
	Permanent Supportive	1.50	0.09	71%	29%	0.16	49%	51%

Table 3.3-2: Trip Generation Rates for Affordable Housing Projects

Family affordable housing offers affordable dwelling units designed for lower income households with children, or lower income households with single or multiple adults without children. Senior affordable housing provides affordable dwelling units designed for mature residents. The category of special needs housing includes facilities serving a variety of populations, including foster youth, disabled, mentally ill, and HIV/AIDs. Permanent supportive housing provides long-term housing with supportive services designed to enable homeless persons and individuals/families at risk of homelessness to ensure that they remain housed and live as independently as possible.

Project Trip Distribution

The estimation of distribution patterns for project trips should consider a number of factors including, but not limited to, the following: the characteristics of the street system serving the project site; the level of accessibility of routes to and from the proposed project site; locations of employment and commercial centers to which residents of a residential project would be drawn; and residential areas from which the commercial patrons, employees, or school students would be drawn. The distribution analysis can be supported by data from the City of Los Angeles TDF model,

VMT CALCULATOR DOCUMENTATION:

https://ladot.lacity.org/sites/default/files/documents/vmt_calculator_documentation-2020.05.18.pdf

City of Los Angeles VMT Calculator Documentation

Version 1.3

Los Angeles Department of Transportation (LADOT) and Los Angeles Department of City Planning (DCP)



May 2020

APPENDIX B

AFFORDABLE HOUSING TRIP GENERATION STUDY





MEMORANDUM

Subject:	Infill and Complete Streets Study Task 2.1A Local Affordable Housing Trip Generation Study
From:	Tom Gaul & Cary Bearn, Fehr & Peers
Cc:	Tom Carranza, Los Angeles Department of Transportation
To:	Claire Bowin & David Somers, Los Angeles Department of City Planning
Date:	April 20, 2017

Ref: LA15-2755

This memo serves as a summary of Task 2.1A, Local Affordable Housing Trip Generation Study, as part of the City of Los Angeles' *Infill and Complete Streets: Capturing VMT Impacts & Benefits Pursuant to CEQA* study. As part of Task 2.1A, vehicle trip generation and parking utilization surveys were conducted at numerous affordable housing locations throughout the City of Los Angeles in order to provide an improved understanding of vehicle trip generation and parking demand characteristics of affordable housing uses in Los Angeles.

The empirical trip generation data collected through this effort will be used to customize and calibrate the MXD model for Los Angeles to be integrated into the vehicle miles traveled (VMT) VMT Calculator to be developed for the City as part of later tasks in the study.

METHODOLOGY

Twenty-four hour driveway vehicle counts were conducted at the various survey sites using video cameras. Manual overnight parking utilization sweeps were also conducted.

Criteria for selection of the survey sites included:

- Sample Size The Institute of Transportation Engineers (ITE) recommends that at least three and preferably five independent survey sites be used to establish a local trip generation rate for a particular land use. This recommendation was exceeded for all land use types included in this study, including for each of the subcategories of affordable housing sites.
- 100% Affordable The affordable housing site must be 100% affordable (other than the manager's unit). This was to ensure that the counts reflect the trip generation behavior solely of affordable units.
- Isolatable Use The sites must be standalone and not part of a mixed-use development.



- Countable Driveway(s) Driveways must be serving parking lots for the use of the site and not also serving parking lots for other land uses in the surrounding area.
- Successful Development The development should be mature, be located in a mature environment, and appear to be economically healthy.
- Permission of Property Owners/Managers Permission was obtained in order to survey a site.

AFFORDABLE HOUSING TRIP GENERATION AND PARKING

Data Collection

Twenty-four hour driveway counts and overnight parking sweeps were conducted at a total of 42 affordable housing sites within the City of Los Angeles (35 sites counted in May-June 2016 and seven additional sites counted in November 2016). The affordable housing study locations were identified in consultation with the City of Los Angeles Department of City Planning and the City of Los Angeles Housing+Community Investment Department. The sites were categorized according to two criteria considered to influence the level of vehicle ownership and tripmaking but also considered to be available and applicable to future projects (i.e., measureable and able to be determined using a readily available data source): proximity to transit and affordable housing type:

- Proximity to Transit The Southern California Association of Governments (SCAG) has defined "Transit Priority Areas" (TPAs) as the area within ½ mile of an existing major transit stop, and defines a major transit stop as either a rail station or an intersection of 2 or more major bus routes with peak service frequencies of 15 minutes or less. The transit priority area defined by SCAG applies a ½ mile radial from the station or intersection. For this study, a ½ mile walkshed along the transportation network was used in lieu of the ½ mile radius. Additionally, stations for the Metro Orange Line and Silver Line Busways were not included in the SCAG definition but were added as part of the rail stations. These busways provide peak hour service less than 15 minutes and operate in dedicated rights-of-way. Study locations were defined as either inside or outside a transit priority area. Twenty of the study locations were within a TPA and 22 were outside of a TPA.
- Housing Type Affordable housing type was categorized as serving families, seniors, special needs, or permanent supportive. Family affordable housing offers affordable dwelling units designed for households with children. Senior affordable housing provides affordable dwelling units designed for mature residents. The category of special needs housing includes facilities serving a variety of populations, including foster youth, disabled, mentally ill, and HIV/AIDs. Permanent supportive housing provides long-term housing with supportive services designed to enable homeless persons and individuals/families at risk of homelessness to ensure that they remain housed and live as independently as possible. Fourteen of the study sites were designated as family housing, thirteen were senior, eight were special needs, and seven were permanent supportive. Each of these categories were divided roughly equally between sites within a TPA and sites outside of a TPA.

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Retail job density was also considered as a possible variable influencing tripmaking but, based on exploratory data analysis and discussions with LADOT, the final trip generation analysis was disaggregated based on proximity to transit and housing type only.

Table 1 presents the list of properties included in the analysis. Table 2 shows the aggregated vehicle trip generation results based on proximity to transit and housing type. Table 2 also shows relevant trip generation rates from ITE's *Trip Generation*, 9th *Edition*, for comparison. Table 3 shows the aggregated parking demand and utilization results based on proximity to transit and housing type. For comparison, Table 3 also shows relevant parking requirements from the Los Angeles Municipal Code (LAMC).

Property managers for 36 of the 42 surveyed sites provided information regarding selected characteristics of the sites. All of the respondents stated that they provide parking but do not charge residents for parking on-site. None of the respondents provide partially or fully-subsidized transit passes to residents, none provide car-share services, and one provides a shuttle to grocery stores.

Results

Reviewing Table 2, the following observations can be made:

- The empirical vehicle trip generation rates across the affordable housing survey sites are higher for the affordable family units relative to the senior, special needs, and permanent supportive affordable units.
- The empirical trip generation rates are generally lower for units located within a TPA than for units located outside of a TPA.
- The empirical trip generation rates averaged across all 42 of the affordable housing survey sites are lower than the ITE trip rates for standard apartments for all three time periods (daily, AM peak hour, and PM peak hour). This holds true as well for almost all of the disaggregated subcategories (the sole exception being affordable family units outside of a TPA during the AM peak hour).
- Affordable family units both inside and outside of a TPA are the only categories with empirical rates higher than the ITE high-rise apartment rates (an ITE category which primarily consists of buildings within urban areas).
- The empirical rates for senior, special needs, and permanent supportive affordable housing are far lower than both the ITE apartment and ITE high-rise apartment rates.
- The empirical rates for the senior affordable housing are lower than ITE rates for senior adult housing.

Reviewing Table 3, the following observations can be made:

• The empirical parking demand ratios are higher for the affordable family units relative to the senior, special needs, and permanent supportive units.

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- The empirical parking demand ratios for each of the subcategorizations of the affordable housing survey sites (by affordable housing type and by transit proximity) are lower than the LAMC parking requirement for apartments.
- The empirical parking demand ratios for family affordable housing range from 0.82 to 0.85 spaces per unit and are lower than the parking requirements under the LAMC Affordable Housing Density Bonus Option 2 (LAMC 12.22A.25(d)(2)) for restricted affordable units (1 space per unit).
- The empirical parking demand ratios for senior, special needs, and permanent supportive affordable housing range from 0.20 to 0.48 spaces per unit and are lower than the parking requirements under the LAMC Affordable Housing Density Bonus Option 2 (LAMC 12.22A.25(d)(2)) for units restricted to low or very low income senior citizen or disabled (0.5 spaces per unit).
- The empirical parking demand ratios are lower for units located within a TPA than for units located outside of a TPA for the senior, special need, and permanent supportive units but not for the family units.

SOURCES

Trip Generation, 9th Edition, Institute of Transportation Engineers, 2012.

Trip Generation Handbook, 3rd Edition, Institute of Transportation Engineers, 2014.

Los Angeles Municipal Code.

TABLE 1	
Affordable Housing Trip Generation and Parking Utilization Survey Locations	

Count	Name	Address	Transit Priority Area	Housing Type
1	Barnsdall Court	1632 N Normandie Ave, Hollywood, CA 90027	Inside	Family
2	Parkside Apartments	900 S Grand Ave, Los Angeles, CA 90015	Inside	Family
3	El Dorado Family Apts	12129 N El Dorado Ave, Los Angeles, CA 91342	Inside	Family
4	Union Point	420 Union Dr, Los Angeles, CA 90017	Inside	Family
5	Coronita Family	204 S Lucas Ave, Los Angeles, CA 90026	Inside	Family
6	New Venice 1A	535 Santa Clara Ave, Venice, CA 90291	Inside	Family
7	New Venice 2C	1002 5th Ave, Venice, CA 90291	Inside	Family
8	Sichel Family Apts	1805 Sichel St, Los Angeles, CA 90031	Inside	Family
9	Bonnie Brae Village	208 S Bonnie Brae St, Los Angeles, CA 90057	Inside	Permanent Supportive
10	Gower Street Apts	1140 N Gower St, Los Angeles, CA 90038	Inside	Permanent Supportive
11	The Villas At Gower	1726 N Gower St, Hollywood, CA 90028	Inside	Permanent Supportive
12	NoHo Seniors Villa	5525 Klump Ave, North Hollywood, CA 91601	Inside	Seniors
13	Morgan Place Senior Apts	7301 S Crenshaw Blvd, Los Angeles, CA 90043	Inside	Seniors
14	Figueroa Senior Housing	7621 S Figueroa St, Los Angeles, CA 90044	Inside	Seniors
15	Hollenbeck Terrace	610 S Saint Louis St, Los Angeles, CA 90023	Inside	Seniors
16	Ward Villas	1177 W Adams Blvd, Los Angeles, CA 90007	Inside	Seniors
17	Vermont Manzanita	1225 S Vermont Ave, Los Angeles, CA 90006	Inside	Special Needs
18	New Carver	1624 S Hope St, Los Angeles, CA 90015	Inside	Special Needs
19	Charles Cobb Apts	521 S San Pedro St, Los Angeles, CA 90013	Inside	Special Needs
20	New Genesis	452 S Main St, Los Angeles, CA 90013	Inside	Special Needs
21	Rio Vista Apts	3000 N Verdugo Rd, Los Angeles, CA 90065	Outside	Family
22	New Venice 4B	915 7th Ave, Venice, CA 90291	Outside	Family
23	Cuatro Vientos	5331 E Huntington Dr, Los Angeles, CA 90032	Outside	Family
24	Lorena Terrace	611 South Lorena St, Los Angeles, CA 90023	Outside	Family
25	Laurel Village	9700 Laurel Canyon Blvd, Pacoima, CA 91331	Outside	Family
26	New Venice 2D	919 5th Ave, Venice, CA 90291	Outside	Family
27	Cornerstone Apts	14128 Calvert St, Van Nuys, CA 91401	Outside	Permanent Supportive
28	Willis Avenue Apts	14731 W Rayen St, Los Angeles, CA 91402	Outside	Permanent Supportive
29	PATH Villas At Del Rey	11734 Courtleigh Dr, CA 90066	Outside	Permanent Supportive
30	Winnetka Senior Apts	20750 Sherman Way, Los Angeles CA 91306	Outside	Permanent Supportive
31	TELACU Pointe	3100 Fletcher Dr, Los Angeles, CA 90065	Outside	Seniors
32	Asturias Senior Apts	9628 Van Nuys Blvd, Panorama City, CA 91402	Outside	Seniors
33	Cantabria Senior Apts	9640 N Van Nuys Blvd, Los Angeles, CA 91402	Outside	Seniors
34	TELACU Vista	4900 N Via Marisol, Highland Park, CA 90032	Outside	Seniors
35	Andalucia Senior Apts	15305 W Lanark St, Los Angeles, CA 91406	Outside	Seniors
36	TELACU Las Flores	12793 Mercer St, Pacoima, CA 91331	Outside	Seniors
37	Buckingham Sr. Housing	4020 S Buckingham Rd, Los Angeles, CA 90008	Outside	Seniors
38	Villa Valley	15950 Sherman Way, Los Angeles, CA 91406	Outside	Seniors
39	Allesandro Street Apts	1934 Allesandro St, Los Angeles, CA 90039	Outside	Special Needs
40	Innes Heights, Lp	1245 Innes Ave, Los Angeles, CA 90026	Outside	Special Needs
41	Woodland Terrace	15532 W Nordhoff St, North Hills, CA 91343	Outside	Special Needs
42	Guy Gabaldon Apts	3553 Beswick St, Los Angeles, CA 90023	Outside	Special Needs

TABLE 2 Vehicle Trip Rates for Affordable Housing Sites in Los Angeles (By Transit Priority Area and Affordable Housing Type)

Counts conducted May, June, and November 2016

TPA Area	Affordable Housing Type	Bin	Sample Size	Daily Rate (Trips per DU)	Average AM Peak Hour Rate (Trips per DU)	AM Percent In	AM Percent Out	Average PM Peak Hour Rate (Trips per DU)	PM Percent In	PM Percent Out
Inside	-		20	2.32	0.26	40%	60%	0.20	56%	44%
Outside	-		22	2.48	0.25	46%	54%	0.24	52%	48%
-	Family		14	4.16	0.52	38%	62%	0.38	55%	45%
-	Seniors		13	1.72	0.12	38%	62%	0.15	52%	48%
-	Special Needs		8	1.49	0.17	43%	57%	0.11	54%	46%
-	Permanent Supportive		7	1.23	0.08	67%	33%	0.13	53%	47%
Inside	Family	Inside, Family	8	4.16	0.49	37%	63%	0.35	56%	44%
Inside	Seniors	Inside, Seniors	5	1.31	0.13	38%	62%	0.13	47%	53%
Inside	Special Needs	Inside, Special Needs	4	1.00	0.10	30%	70%	0.05	67%	33%
Inside	Permanent Supportive	Inside, Permanent Supportive	3	0.87	0.08	62%	38%	0.09	59%	41%
Outside	Family	Outside, Family	6	4.15	0.55	40%	60%	0.43	55%	45%
Outside	Seniors	Outside, Seniors	8	1.97	0.11	38%	62%	0.17	55%	45%
Outside	Special Needs	Outside, Special Needs	4	1.98	0.24	54%	46%	0.16	44%	56%
Outside	Permanent Supportive	Outside, Permanent Supportive	4	1.50	0.09	71%	29%	0.16	49%	51%

ITE for Comparison

ITE Record Number	Description	Sample Size	Daily Rate (Trips per DU)	Average AM Peak Hour Rate (Trips per DU)	AM Percent In	AM Percent Out	Average PM Peak Hour Rate (Trips per DU)	PM Percent In	PM Percent Out
ITE 220	Apartment	78-90	6.65	0.51	20%	80%	0.62	65%	35%
ITE 222	High-Rise Apartment	9-17	4.20	0.30	25%	75%	0.35	61%	39%
ITE 252	Senior Adult Housing-Attached	5-10	3.44	0.20	34%	66%	0.25	54%	46%
ITE 253	Congregate Care Facility	2-3	2.02	0.06	59%	41%	0.17	55%	45%
ITE 255	Continuing Care Retirement Community	4-6	2.40	0.14	65%	35%	0.16	39%	61%

TABLE 3

Parking Demand Rates for Affordable Housing Sites in Los Angeles

(By Transit Priority Area and Affordable Housing Type)

Surveys conducted May, June, and November 2016

TPA Area	Affordable Housing Type	Sample Size	Parking Demand Per Dwelling Unit	Parking Utilization
Inside	-	20	0.53	64%
Outside	-	22	0.56	63%
-	Family	14	0.84	72%
-	Seniors	13	0.46	71%
-	Special Needs	8	0.32	43%
-	Permanent Supportive	7	0.37	56%
Inside	Family	8	0.85	74%
Inside	Seniors	5	0.44	73%
Inside	Special Needs	4	0.20	34%
Inside	Permanent Supportive	3	0.29	64%
Outside	Family	6	0.82	70%
Outside	Seniors	8	0.48	69%
Outside	Special Needs	4	0.44	52%
Outside	Permanent Supportive	4	0.43	50%

LAMC for Comparison

		Parking Requirement per
		Unit
Apartments (LAMC 12.21A.4(a))		
	<3 habitable rooms	1
	3 habitable rooms	1.5
	>3 habitable rooms	2
Projects with Affordable Housing Densit	ty Bonus - Option 1 (applies to all units, not just restricted units) (LA	MC 12.22A.25(d)(1))
	0-1 bedroom	1
	2-3 bedrooms	2
	4 or more bedrooms	2.5
Projects with Affordable Housing Densit	ty Bonus - Option 2 (applies to restricted units only) (LAMC 12.22A.2	25(d)(2))
	restricted affordable units	1
	restricted to low or very low income senior citizen or disabled	0.5
	restricted affordable units in residential hotel	0.25

APPENDIX D

COUNT DATA

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File Name : Paramount_Washington_Passenger Site Code : 00000000

Start Date : 3/9/2021

Page No : 1

					Groups I	Printed- F	Passenger						
	Para	mount Bl	vd	Wash	ington Bl	vd	Para	mount Blv	/d	Wash	ington B	vd	
	So	uthbound	I	We	estbound		No	rthbound		Ea	stbound		
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Int. Total
07:00 AM	20	82	35	19	144	4	37	49	10	10	111	32	553
07:15 AM	19	100	49	27	198	9	29	54	8	15	111	43	662
07:30 AM	12	117	54	25	219	7	40	67	8	14	109	31	703
07:45 AM	16	111	34	32	199	6	52	67	12	21	143	73	766
Total	67	410	172	103	760	26	158	237	38	60	474	179	2684
08:00 AM	18	100	24	19	137	6	45	75	15	19	116	42	616
08:15 AM	17	92	31	22	138	8	36	65	17	10	106	42	584
08:30 AM	15	77	24	21	129	12	41	58	8	18	107	30	540
08:45 AM	19	70	28	13	140	8	52	76	9	15	103	30	563
Total	69	339	107	75	544	34	174	274	49	62	432	144	2303
04:00 PM	42	118	27	21	125	32	74	149	27	47	277	63	1002
04:15 PM	33	130	34	27	157	29	67	161	20	50	322	50	1080
04:30 PM	40	119	26	18	165	20	88	165	24	43	320	52	1080
04:45 PM	46	154	29	24	159	19	72	181	37	39	360	59	1179
Total	161	521	116	90	606	100	301	656	108	179	1279	224	4341
05:00 PM	31	136	26	18	151	31	81	173	32	36	326	57	1098
05:15 PM	52	134	39	23	155	22	71	157	27	43	400	59	1182
05:30 PM	48	131	24	30	157	35	75	163	31	50	415	54	1213
05:45 PM	53	141	18	23	135	32	69	130	28	45	370	58	1102
Total	184	542	107	94	598	120	296	623	118	174	1511	228	4595
Grand Total	481	1812	502	362	2508	280	929	1790	313	475	3696	775	13923
Apprch %	17.2	64.8	18	11.5	79.6	8.9	30.6	59	10.3	9.6	74.7	15.7	
Total %	3.5	13	3.6	2.6	18	2	6.7	12.9	2.2	3.4	26.5	5.6	

CITY TRAFFIC COUNTERS www.ctcounters.com

File Name : Paramount_Washington_Passenger Site Code : 00000000 Start Date : 3/9/2021 Page No : 2

	F	Paramo	unt Blv	/d	V	Vashin	gton Bl	vd	I	Paramo	ount Blv	′d	V	Vashin	gton Bl	vd	
		South	bound			West	bound			North	bound			East	bound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analy	eak Hour Analysis From 07:00 AM to 11:45 AM - Peak 1 of 1 Peak Hour for Entire Intersection Begins at 07:15 AM																
Peak Hour for E	ntire Inte	rsection	Begins	1:45 AM - Peak 1 of 1 at 07:15 AM 168 27 198 9 234 29 54 8 91 15 111 43 169													
07:15 AM	19	100	49	168	27	198	9	234	29	54	8	91	15	111	43	169	662
07:30 AM	12	117	54	183	25	219	7	251	40	67	8	115	14	109	31	154	703
07:45 AM	16	111	34	161	32	199	6	237	52	67	12	131	21	143	73	237	766
08:00 AM	18	100	24	142	19	137	6	162	45	75	15	135	19	116	42	177	616
Total Volume	65	428	161	654	103	753	28	884	166	263	43	472	69	479	189	737	2747
% App. Total	9.9	65.4	24.6		11.7	85.2	3.2		35.2	55.7	9.1		9.4	65	25.6		
PHF	.855	.915	.745	.893	.805	.860	.778	.880	.798	.877	.717	.874	.821	.837	.647	.777	.897



CITY TRAFFIC COUNTERS www.crcounters.com

File Name : Paramount_Washington_Passenger Site Code : 00000000 Start Date : 3/9/2021 Page No : 3

	I	Paramo South	unt Blv bound	d	V	Vashin West	gton Bl bound	vd	I	Paramo North	ount Bly	′d	١	Washin East	gton Bl bound	vd	
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analy	eak Hour Analysis From 12:00 PM to 05:45 PM - Peak 1 of 1																
Peak Hour for E	ntire Inte	ersection	Begins	at 04:45	PM												
04:45 PM	46	154	29	229	24	159	19	202	72	181	37	290	39	360	59	458	1179
05:00 PM	31	136	26	193	18	151	31	200	81	173	32	286	36	326	57	419	1098
05:15 PM	52	134	39	225	23	155	22	200	71	157	27	255	43	400	59	502	1182
05:30 PM	48	131	24	203	30	157	35	222	75	163	31	269	50	415	54	519	1213
Total Volume	177	555	118	850	95	622	107	824	299	674	127	1100	168	1501	229	1898	4672
% App. Total	20.8	65.3	13.9		11.5	75.5	13		27.2	61.3	11.5		8.9	79.1	12.1		
PHF	.851	.901	.756	.928	.792	.978	.764	.928	.923	.931	.858	.948	.840	.904	.970	.914	.963



File Name : Paramount_Washington_Buses Site Code : 00000000 Start Date : 3/9/2021

Page No : 1

					Group	s Printed	Buses	agen					
	Para	nount Bly	/d	Wash	ington BI	vd	Para	mount Bl	/d	Wash	ington Bl	vd	
	Sol	uthbound		We	estbound		NO	rthbound		Ea	stbound		
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Int. Total
07:00 AM	0	0	0	0	1	0	0	0	1	0	0	0	2
07:15 AM	0	0	0	0	1	0	0	0	0	0	2	0	3
07:30 AM	0	0	2	0	0	0	0	0	0	0	0	0	2
07:45 AM	0	0	0	0	0	0	0	0	0	0	2	0	2
Total	0	0	2	0	2	0	0	0	1	0	4	0	9
08:00 AM	0	1	0	0	0	0	0	1	0	1	0	0	3
08:15 AM	0	0	0	0	1	0	0	0	0	0	1	0	2
08:30 AM	0	0	0	0	0	0	0	0	0	0	1	0	1
08:45 AM	0	1_	0	0	1	0	0	0	0	0	1_	0	3
Total	0	2	0	0	2	0	0	1	0	1	3	0	9
04:00 PM 04:15 PM	0 0	0 0	0 0	0 0	2 0	0 0	0 0	0 1	0 0	0 0	0 0	0 0	2 1
04:45 PM	0	1	0	0	1	0	0	0	0	0	1	0	3
Total	0	1	0	0	3	0	0	1	0	0	1	0	6
05:00 PM	0	0	0	0	1	0	0	0	0	0	1	0	2
05:15 PM	0	0	0	0	1	0	0	0	0	0	0	0	1
05:30 PM	0	0	0	0	0	0	0	1	0	0	0	0	1
05:45 PM	0	0	0	0	1	0	0	0	0	0	1	0	2
Total	0	0	0	0	3	0	0	1	0	0	2	0	6
Grand Total	0	3	2	0	10	0	0	3	1	1	10	0	30
Apprch %	0	60	40	0	100	0	0	/5	25	9.1	90.9	0	
Total %	0	10	6.7	0	33.3	0	0	10	3.3	3.3	33.3	0	

CITY TRAFFIC COUNTERS www.ctcounters.com

File Name : Paramount_Washington_Buses Site Code : 00000000 Start Date : 3/9/2021 Page No : 2

	Í	Paramo South	unt Blv bound	٧d	V	Vashin West	gton Bly bound	vd	ĺ	Paramo North	ount Bly	'd	V	Washing East	gton Bl [.] bound	vd	
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Anal	ysis Fror	n 07:00	AM to 1	1:45 AM -	I - Peak 1 of 1 5 AM												
Peak Hour for E	ntire Inte	ersection	Begins	at 07:15	AM												
07:15 AM	0	0	0	0	0	1	0	1	0	0	0	0	0	2	0	2	3
07:30 AM	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	2
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	2
08:00 AM	0	1	0	1	0	0	0	0	0	1	0	1	1	0	0	1	3
Total Volume	0	1	2	3	0	1	0	1	0	1	0	1	1	4	0	5	10
% App. Total	0	33.3	66.7		0	100	0		0	100	0		20	80	0		
PHF	.000	.250	.250	.375	.000	.250	.000	.250	.000	.250	.000	.250	.250	.500	.000	.625	.833



CITY TRAFFIC COUNTERS www.crcounters.com

File Name : Paramount_Washington_Buses Site Code : 00000000 Start Date : 3/9/2021 Page No : 3

		Paramo South	unt Blv bound	d	V	Vashing West	gton Bl bound	vd	I	Paramo North	ount Blv	d	V	Vashin East	gton Bl bound	vd	
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analy	ysis Fror	n 12:00	PM to 0	5:45 PM -	Peak 1	of 1					-						
Peak Hour for E	ntire Inte	rsection	Begins	at 04:45	PM												
04:45 PM	0	1	0	1	0	1	0	1	0	0	0	0	0	1	0	1	3
05:00 PM	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	1	2
05:15 PM	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1
05:30 PM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1
Total Volume	0	1	0	1	0	3	0	3	0	1	0	1	0	2	0	2	7
% App. Total	0	100	0		0	100	0		0	100	0		0	100	0		
PHF	.000	.250	.000	.250	.000	.750	.000	.750	.000	.250	.000	.250	.000	.500	.000	.500	.583



File Name : Paramount_Washington_Motorcycles Site Code : 0000000

Start Date : 3/9/2021

Page No : 1

					Groups P	rinted- N	lotorcycle	s					
	Para	amount Bl	vd	Wash	ington Bl	vd	Para	amount B	lvd	Wash	nington B	lvd	
	Sc	outhbound		We	estbound		No	orthbound	k k	Ea	astbound		
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Int. Total
07:00 AM	0	0	0	1	0	0	2	0	0	0	0	0	3
07:15 AM	0	1	0	1	0	0	0	0	0	0	0	0	2
07:30 AM	0	1	0	2	0	0	3	2	0	0	1	0	9
07:45 AM	0	0	1	0	0	0	2	0	0	0	0	0	3
Total	0	2	1	4	0	0	7	2	0	0	1	0	17
08:00 AM	0	0	0	0	0	0	2	0	0	0	0	0	2
08:15 AM	0	1	0	2	0	0	2	1	0	0	0	0	6
08:30 AM	0	2	0	0	0	0	1	0	1	0	0	0	4
08:45 AM	0	0	1	2	0	0	1	1	0	0	0	0	5
Total	0	3	1	4	0	0	6	2	1	0	0	0	17
04:00 PM	1	0	0	1	0	0	2	2	0	0	1	0	7
04:15 PM	0	1	1	1	0	0	1	1	1	0	0	1	7
04:30 PM	1	1	0	1	0	0	4	0	0	0	1	0	8
04:45 PM	1	0	0	0	0	0	2	0	0	1	0	0	4
Total	3	2	1	3	0	0	9	3	1	1	2	1	26
05:00 PM	0	2	0	1	0	0	4	0	0	0	1	0	8
05:15 PM	0	1	0	3	0	0	2	0	1	0	1	1	9
05:30 PM	1	0	1	1	0	0	5	0	0	0	1	0	9
05:45 PM	0	1	0	1	0	0	3	0	1	0	0	0	6
Total	1	4	1	6	0	0	14	0	2	0	3	1	32
Grand Total	4	11	4	17	0	0	36	7	4	1	6	2	92
Apprch %	21.1	57.9	21.1	100	0	0	76.6	14.9	8.5	11.1	66.7	22.2	
Total %	4.3	12	4.3	18.5	0	0	39.1	7.6	4.3	1.1	6.5	2.2	

CITY TRAFFIC COUNTERS www.crcounters.com

File Name : Paramount_Washington_Motorcycles Site Code : 00000000 Start Date : 3/9/2021 Page No : 2

	F	Paramo	unt Blv	٧d	V	Vashin	gton Bl	vd	I	Paramo	ount Blv	ď	١	Nashin East	gton Bl	vd	
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Anal	ysis Fror	n 07:00	AM to 1	1:45 AM -	Peak 1	of 1											
Peak Hour for E	ntire Inte	rsection	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$														
07:30 AM	0	1	0	1	2	0	0	2	3	2	0	5	0	1	0	1	9
07:45 AM	0	0	1	1	0	0	0	0	2	0	0	2	0	0	0	0	3
08:00 AM	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	2
08:15 AM	0	1	0	1	2	0	0	2	2	1	0	3	0	0	0	0	6
Total Volume	0	2	1	3	4	0	0	4	9	3	0	12	0	1	0	1	20
% App. Total	0	66.7	33.3		100	0	0		75	25	0		0	100	0		
PHF	.000	.500	.250	.750	.500	.000	.000	.500	.750	.375	.000	.600	.000	.250	.000	.250	.556



CITY TRAFFIC COUNTERS www.crcounters.com

File Name : Paramount_Washington_Motorcycles Site Code : 00000000 Start Date : 3/9/2021 Page No : 3

	I	Paramo South	unt Blv bound	d	V	Vashing West	gton Bl bound	vd		Paramo North	unt Blv bound	ď	V	Vashin East	gton Bly bound	/d	
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Anal	ysis Fror	n 12:00	PM to 0	5:45 PM -	Peak 1	of 1	-				-						
Peak Hour for E	ntire Inte	tersection Begins at 05:00 PM 2 0 2 1 0 0 1 4 0 0 4 0 1 0 1															
05:00 PM	0	2	0	2	1	0	0	1	4	0	0	4	0	1	0	1	8
05:15 PM	0	1	0	1	3	0	0	3	2	0	1	3	0	1	1	2	9
05:30 PM	1	0	1	2	1	0	0	1	5	0	0	5	0	1	0	1	9
05:45 PM	0	1	0	1	1	0	0	1	3	0	1	4	0	0	0	0	6
Total Volume	1	4	1	6	6	0	0	6	14	0	2	16	0	3	1	4	32
% App. Total	16.7	66.7	16.7		100	0	0		87.5	0	12.5		0	75	25		
PHF	.250	.500	.250	.750	.500	.000	.000	.500	.700	.000	.500	.800	.000	.750	.250	.500	.889



File Name : Paramount_Washington_2-Axle Site Code : 00000000 Start Date : 3/9/2021 Page No : 1

ige	INO	<u>ا</u>	

					-			agente					
	Rose	emead Bly	/d	Wash	Group	vd	- 2 Axle Rose	emead Bly	/d	Wash	ningon Bl	vd	
	So	uthbound		We	estbound		No	rthbound		Ea	stbound		
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Int. Total
07:00 AM	1	6	2	1	3	0	3	2	2	2	3	2	27
07:15 AM	5	6	2	2	5	0	2	2	1	2	7	0	34
07:30 AM	2	4	2	0	10	0	0	5	2	0	6	1	32
 07:45 AM	1	5	1	1	7	1	1	4	1	1	2	3	28
Total	9	21	7	4	25	1	6	13	6	5	18	6	121
08:00 AM	1	4	2	0	5	1	3	3	4	0	9	3	35
08:15 AM	1	3	1	0	6	2	4	2	3	1	6	2	31
08:30 AM	3	1	0	1	6	0	4	2	2	1	15	4	39
 08:45 AM	0	4	0	2	5	2	1	2	2	1	2	3	24
Total	5	12	3	3	22	5	12	9	11	3	32	12	129
04:00 PM	0	5	0	0	5	0	1	2	2	0	3	4	22
04:15 PM	0	2	1	1	3	1	0	7	0	3	7	2	27
04:30 PM	0	4	0	0	6	1	0	4	1	0	7	1	24
 04:45 PM	1	5	1	3	3	0	3	0	1	0	4	2	23
Total	1	16	2	4	17	2	4	13	4	3	21	9	96
05:00 PM	1	0	1	0	5	0	0	1	2	0	4	0	14
05:15 PM	0	0	1	0	1	0	1	0	2	1	3	5	14
05:30 PM	1	2	1	0	2	1	2	3	0	1	11	1	25
 05:45 PM	1	0	1	0	1	0	1	1	1	1	2	1	10
Total	3	2	4	0	9	1	4	5	5	3	20	7	63
Grand Total	18	51	16	11	73	9	26	40	26	14	91	34	409
Apprch %	21.2	60	18.8	11.8	78.5	9.7	28.3	43.5	28.3	10.1	65.5	24.5	
Total %	4.4	12.5	3.9	2.7	17.8	2.2	6.4	9.8	6.4	3.4	22.2	8.3	

CITY TRAFFIC COUNTERS www.ctcounters.com

File Name : Paramount_Washington_2-Axle Site Code : 00000000 Start Date : 3/9/2021 Page No : 2

		Roseme South	ead Blv bound	d	v	Vashin West	gton Bl bound	vd		Rosem North	ead Blv bound	d	١	Washin East	igon Bly bound	/d	
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analy	ysis Fror	n 07:00	AM to 1	1:45 AM -	Peak 1	of 1	-				-				-		
Peak Hour for E	ntire Inte	section Begins at 07:45 AM 5 1 7 1 7 1 9 1 4 1 6 1 2 3 6															
07:45 AM	1	5	1	7	1	7	1	9	1	4	1	6	1	2	3	6	28
08:00 AM	1	4	2	7	0	5	1	6	3	3	4	10	0	9	3	12	35
08:15 AM	1	3	1	5	0	6	2	8	4	2	3	9	1	6	2	9	31
08:30 AM	3	1	0	4	1	6	0	7	4	2	2	8	1	15	4	20	39
Total Volume	6	13	4	23	2	24	4	30	12	11	10	33	3	32	12	47	133
% App. Total	26.1	56.5	17.4		6.7	80	13.3		36.4	33.3	30.3		6.4	68.1	25.5		
PHF	.500	.650	.500	.821	.500	.857	.500	.833	.750	.688	.625	.825	.750	.533	.750	.588	.853



File Name : Paramount_Washington_2-Axle Site Code : 00000000 Start Date : 3/9/2021 Page No : 3

		Roseme South	ead Blv	'd	V	Vashing West	gton Bl bound	vd		Rosem North	ead Blv bound	d	Washingon Blvd Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 12:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for E	ntire Inte	ersection	Begins	at 04:00	PM												
04:00 PM	0	5	0	5	0	5	0	5	1	2	2	5	0	3	4	7	22
04:15 PM	0	2	1	3	1	3	1	5	0	7	0	7	3	7	2	12	27
04:30 PM	0	4	0	4	0	6	1	7	0	4	1	5	0	7	1	8	24
04:45 PM	1	5	1	7	3	3	0	6	3	0	1	4	0	4	2	6	23
Total Volume	1	16	2	19	4	17	2	23	4	13	4	21	3	21	9	33	96
% App. Total	5.3	84.2	10.5		17.4	73.9	8.7		19	61.9	19		9.1	63.6	27.3		
PHF	.250	.800	.500	.679	.333	.708	.500	.821	.333	.464	.500	.750	.250	.750	.563	.688	.889



File Name : Paramount_Washington_3-Axle Site Code : 00000000 Start Date : 3/9/2021

Page No : 1

Orego Finited of And Washington Blvd Eastbound Start Time Left Thru Right Left Thru Right Left Thru Right Int 07:00 AM 0 0 0 3 0 1 1 0 2 1	
Start Time Left Thru Right Left Thru Right Left Thru Right Left Thru Right Int 07:00 AM 0 0 0 0 3 0 1 1 0 0 2 1 07:00 AM 0 0 0 3 0 1 1 0 0 2 1 07:15 AM 0 0 0 0 1 0 0 0 1 1 07:30 AM 0 1 1 1 2 0 0 1	
07:00 AM 0 0 0 3 0 1 1 0 0 2 1 07:15 AM 0 0 0 1 0 0 0 1 1 0 0 2 1 07:15 AM 0 0 0 1 0 0 0 0 1 1 07:30 AM 0 1 1 1 2 0 0 1 1 0 4 0 07:45 AM 0 2 1 0 1 0 1 2 0 1 5 2 Total 0 3 2 1 7 0 2 4 1 1 12 4	Total
07:15 AM 0 0 0 1 0 0 0 1 1 07:30 AM 0 1 1 2 0 0 1 1 0 4 0 07:30 AM 0 2 1 0 1 0 4 0 07:45 AM 0 2 1 0 1 2 0 1 5 2 Total 0 3 2 1 7 0 2 4 1 1 12 4	8
07:30 AM 0 1 1 2 0 0 1 1 0 4 0 07:45 AM 0 2 1 0 1 0 1 1 0 4 0 Total 0 3 2 1 7 0 2 4 1 1 12 4	3
07:45 AM 0 2 1 0 1 2 0 1 5 2 Total 0 3 2 1 7 0 2 4 1 1 12 4	11
Total 0 3 2 1 7 0 2 4 1 12 4	15
	37
08:00 AM 0 2 0 0 2 0 0 3 0 1 5 0	13
08:15 AM 0 1 1 1 2 0 0 2 0 5 5 1	18
08:30 AM 0 0 0 0 4 0 0 1 0 6 0	11
<u>08:45 AM 0 2 2 0 2 0 0 0 0 0 3 0</u>	9
Total 0 5 3 1 10 0 0 6 0 6 19 1	51
04:00 PM 0 0 0 0 5 1 1 0 0 2 5 0	14
04:15 PM 0 2 0 0 2 0 0 2 1 0 2 0	9
04:30 PM 0 0 1 0 3 0 1 0 0 3 0	8
	8
Total 0 3 2 0 13 1 2 3 1 2 12 0	39
05:00 PM 0 0 3 1 4 1 0 1 0 2 0 0	12
05:15 PM 0 1 0 0 1 0 0 1 0 3 0 0	6
05:30 PM 1 1 1 1 4 0 0 0 0 0 0 0	8
05:45 PM 1 0 1 0 2 0 0 0 0 4 0	8
Total 2 2 5 2 11 1 0 2 0 5 4 0	34
Grand Total 2 13 12 4 41 2 4 15 2 14 47 5	
Approb % 7.4 481 444 85 872 43 19 714 95 212 712 76	161
Total% 1.2 81 75 25 255 12 25 93 12 87 292 31	161

CITY TRAFFIC COUNTERS www.ctcounters.com

File Name : Paramount_Washington_3-Axle Site Code : 00000000 Start Date : 3/9/2021 Page No : 2

	Paramount Blvd Southbound			v	gton Bl bound	vd		Paramo North	ount Blv	′d	١						
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 11:45 AM - Peak 1 of 1																	
Peak Hour for E	ntire Inte	ersection	Begins	at 07:30	AM												
07:30 AM	0	1	1	2	1	2	0	3	0	1	1	2	0	4	0	4	11
07:45 AM	0	2	1	3	0	1	0	1	1	2	0	3	1	5	2	8	15
08:00 AM	0	2	0	2	0	2	0	2	0	3	0	3	1	5	0	6	13
08:15 AM	0	1	1	2	1	2	0	3	0	2	0	2	5	5	1	11	18
Total Volume	0	6	3	9	2	7	0	9	1	8	1	10	7	19	3	29	57
% App. Total	0	66.7	33.3		22.2	77.8	0		10	80	10		24.1	65.5	10.3		
PHF	.000	.750	.750	.750	.500	.875	.000	.750	.250	.667	.250	.833	.350	.950	.375	.659	.792



File Name : Paramount_Washington_3-Axle Site Code : 00000000 Start Date : 3/9/2021 Page No : 3

	I	Paramo South	unt Blv bound	ď	v	Vashin West	gton Bl [.] bound	vd	I	Paramo North	ount Blv bound	ď	V				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 12:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for E	ntire Inte	rsection	Begins	at 04:00	PM												
04:00 PM	0	0	0	0	0	5	1	6	1	0	0	1	2	5	0	7	14
04:15 PM	0	2	0	2	0	2	0	2	0	2	1	3	0	2	0	2	9
04:30 PM	0	0	1	1	0	3	0	3	1	0	0	1	0	3	0	3	8
04:45 PM	0	1	1	2	0	3	0	3	0	1	0	1	0	2	0	2	8
Total Volume	0	3	2	5	0	13	1	14	2	3	1	6	2	12	0	14	39
% App. Total	0	60	40		0	92.9	7.1		33.3	50	16.7		14.3	85.7	0		
PHF	.000	.375	.500	.625	.000	.650	.250	.583	.500	.375	.250	.500	.250	.600	.000	.500	.696



File Name : Paramount_Washington_4+Axles Site Code : 00000000

Start Date : 3/9/2021

Pag

no No	• 1	

					Groups	Drinted		ige no						
	Paramount Blvd			Wash	nington Bl	vd	Para	amount Bl	vd	Wasl	Washington Blvd			
Start Time	L eft	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Int. Total	
07:00 AM	0	3	3	2	12	0	1	0	6	1	9	4	41	
07:15 AM	1	1	1	0	13	Ő	O	2	5	1	16	1	41	
07:30 AM	1	2	5	1	7	1	Ő	1	2	Ó	10	2	32	
07:45 AM	1	2	3	2	14	0	3	Ó	1	1	14	1	42	
Total	3	8	12	5	46	1	4	3	14	3	49	8	156	
08:00 AM	0	0	1	2	9	0	2	4	2	0	9	1	30	
08:15 AM	1	1	3	0	8	1	3	4	3	0	10	2	36	
08:30 AM	1	0	0	1	11	0	0	5	3	2	11	1	35	
08:45 AM	3	3	3	1	8	2	2	3	1	5	10	0	41	
Total	5	4	7	4	36	3	7	16	9	7	40	4	142	
04:00 PM	0	2	1	0	7	0	1	1	2	1	3	2	20	
04:15 PM	0	1	2	3	5	0	1	1	1	0	8	0	22	
04:30 PM	0	1	1	1	6	0	3	1	1	1	9	2	26	
04:45 PM	0	2	2	1	8	0	1	4	0	0	9	1	28	
Total	0	6	6	5	26	0	6	7	4	2	29	5	96	
05:00 PM	0	1	2	1	8	1	1	1	1	1	7	3	27	
05:15 PM	0	0	1	0	8	0	0	2	0	0	7	5	23	
05:30 PM	0	2	1	0	8	0	0	0	0	2	4	0	17	
05:45 PM	0	0	1	0	4	0	0	1	0	1	5	0	12	
Total	0	3	5	1	28	1	1	4	1	4	23	8	79	
Grand Total	8	21	30	15	136	5	18	30	28	16	141	25	473	
Apprch %	13.6	35.6	50.8	9.6	87.2	3.2	23.7	39.5	36.8	8.8	77.5	13.7	-	
Total %	1.7	4.4	6.3	3.2	28.8	1.1	3.8	6.3	5.9	3.4	29.8	5.3		
File Name : Paramount_Washington_4+Axles Site Code : 00000000 Start Date : 3/9/2021 Page No : 2

	I	Paramo South	unt Blv bound	d	v	Vashin West	gton Bl [.] bound	vd	ĺ	Paramo North	ount Bly	/d	V	Vashin East	gton Bl bound	vd	
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Anal	ysis Fron	n 07:00	AM to 1	1:45 AM -	Peak 1	of 1	-				-				-		
Peak Hour for E	ntire Inte	ersection	Begins	at 07:00	AM												
07:00 AM	0	3	3	6	2	12	0	14	1	0	6	7	1	9	4	14	41
07:15 AM	1	1	1	3	0	13	0	13	0	2	5	7	1	16	1	18	41
07:30 AM	1	2	5	8	1	7	1	9	0	1	2	3	0	10	2	12	32
07:45 AM	1	2	3	6	2	14	0	16	3	0	1	4	1	14	1	16	42
Total Volume	3	8	12	23	5	46	1	52	4	3	14	21	3	49	8	60	156
% App. Total	13	34.8	52.2		9.6	88.5	1.9		19	14.3	66.7		5	81.7	13.3		
PHF	.750	.667	.600	.719	.625	.821	.250	.813	.333	.375	.583	.750	.750	.766	.500	.833	.929



File Name : Paramount_Washington_4+Axles Site Code : 00000000 Start Date : 3/9/2021 Page No : 3

	F	Paramo South	unt Blv bound	′d	V	Vashing West	gton Bl bound	vd	l	Paramo North	unt Blv bound	ď	V	Washin East	gton Bl bound	vd	
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Anal	ysis Fron	n 12:00	PM to 0	5:45 PM -	Peak 1	of 1					-				-		
Peak Hour for E	ntire Inte	rsection	Begins	at 04:30	PM												
04:30 PM	0	1	1	2	1	6	0	7	3	1	1	5	1	9	2	12	26
04:45 PM	0	2	2	4	1	8	0	9	1	4	0	5	0	9	1	10	28
05:00 PM	0	1	2	3	1	8	1	10	1	1	1	3	1	7	3	11	27
05:15 PM	0	0	1	1	0	8	0	8	0	2	0	2	0	7	5	12	23
Total Volume	0	4	6	10	3	30	1	34	5	8	2	15	2	32	11	45	104
% App. Total	0	40	60		8.8	88.2	2.9		33.3	53.3	13.3		4.4	71.1	24.4		
PHF	.000	.500	.750	.625	.750	.938	.250	.850	.417	.500	.500	.750	.500	.889	.550	.938	.929



File Name : Paramount_Washington_BP Site Code : 00000000

Start Date : 3/9/2021

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			Groups P	rinted- Bikes	s & Peds				
	Paramount	Blvd	Washington	Blvd	Paramount	Blvd	Washingtor	n Blvd	
	Southbou	Ind	Westbou	nd	Northbou	Ind	Eastbou	nd	
Start Time	Bikes	Peds	Bikes	Peds	Bikes	Peds	Bikes	Peds	Int. Total
07:00 AM	0	0	1	0	0	0	0	0	1
07:15 AM	0	0	0	2	0	7	1	0	10
07:30 AM	0	0	0	0	0	1	0	1	2
07:45 AM	0	0	0	0	1	0	0	0	1
Total	0	0	1	2	1	8	1	1	14
08:00 AM	0	0	0	1	0	2	0	0	3
08:15 AM	0	3	0	2	0	4	0	2	11
08:30 AM	0	1	0	0	0	0	0	2	3
08:45 AM	0	2	0	0	0	2	0	0	4
Total	0	6	0	3	0	8	0	4	21
04:00 PM	1	1	1	2	1	1	1	1	9
04:15 PM	0	2	0	0	0	2	0	1	5
04:30 PM	0	3	0	8	1	1	0	0	13
04:45 PM	2	0	0	0	1	1	0	0	4
Total	3	6	1	10	3	5	1	2	31
05:00 PM	1	1	0	2	0	8	0	3	15
05:15 PM	1	3	0	0	0	1	0	2	7
05:30 PM	2	0	1	0	0	0	0	0	3
05:45 PM	1	2	0	2	1	2	0	0	8
Total	5	6	1	4	1	11	0	5	33
Grand Total	8	18	3	19	5	32	2	12	99
Apprch %	30.8	69.2	13.6	86.4	13.5	86.5	14.3	85.7	
Total %	8.1	18.2	3	19.2	5.1	32.3	2	12.1	

File Name : Paramount_Washington_BP Site Code : 00000000 Start Date : 3/9/2021 Page No : 2

	Par: Se	amount outhbou	Blvd nd	Was V	shington Vestbou	Blvd nd	Par N	amount Iorthbou	Blvd nd	Wa	shington Eastboui	Blvd nd	
Start Time	Bikes	Peds	App. Total	Bikes	Peds	App. Total	Bikes	Peds	App. Total	Bikes	Peds	App. Total	Int. Total
Peak Hour Analysis	From 07:00	OAM to 1	1:45 AM - P	eak 1 of 1									
Peak Hour for Entire	Intersectio	on Begins	at 08:00 AM	1									
08:00 AM	0	0	0	0	1	1	0	2	2	0	0	0	3
08:15 AM	0	3	3	0	2	2	0	4	4	0	2	2	11
08:30 AM	0	1	1	0	0	0	0	0	0	0	2	2	3
08:45 AM	0	2	2	0	0	0	0	2	2	0	0	0	4
Total Volume	0	6	6	0	3	3	0	8	8	0	4	4	21
% App. Total	0	100		0	100		0	100		0	100		
PHF	.000	.500	.500	.000	.375	.375	.000	.500	.500	.000	.500	.500	.477



File Name : Paramount_Washington_BP Site Code : 00000000 Start Date : 3/9/2021 Page No : 3

	Pa	ramount Southbou	Blvd Ind	Wa	shington Nestbou	Blvd nd	Pa N	ramount Northbou	Blvd nd	Wa	shington Eastbour	Blvd nd	
Start Time	Bikes	Peds	App. Total	Bikes	Peds	App. Total	Bikes	Peds	App. Total	Bikes	Peds	App. Total	Int. Total
Peak Hour Analysis	From 12	:00 PM to	05:45 PM -	Peak 1 of	1								
Peak Hour for Entire	e Intersec	tion Begir	ns at 04:30 F	PM									
04:30 PM	0	3	3	0	8	8	1	1	2	0	0	0	13
04:45 PM	2	0	2	0	0	0	1	1	2	0	0	0	4
05:00 PM	1	1	2	0	2	2	0	8	8	0	3	3	15
05:15 PM	1	3	4	0	0	0	0	1	1	0	2	2	7
Total Volume	4	7	11	0	10	10	2	11	13	0	5	5	39
% App. Total	36.4	63.6		0	100		15.4	84.6		0	100		
PHF	.500	.583	.688	.000	.313	.313	.500	.344	.406	.000	.417	.417	.650



File Name : Crossway_Washington_Passenger Site Code : 00000000 Start Date : 3/9/2021

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						Groups	Printed- F	Passenger						
		C	rossway D	r	Wasl	hington B	lvd	Tow	ne Center	Dr	Wash	nington B	lvd	
		S	outhbound	1	W	estbound		NO	orthbound		Ea	astbound		
St	art Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Int. Total
0	7:00 AM	11	2	5	14	167	2	11	1	6	0	146	1	366
0	7:15 AM	17	2	2	14	235	1	12	2	6	1	102	8	402
0	7:30 AM	7	2	1	22	270	3	7	0	16	4	137	2	471
0.	7:45 AM	15	1	6	24	217	2	9	2	11	3	149	7	446
	Total	50	7	14	74	889	8	39	5	39	8	534	18	1685
08	8:00 AM	12	2	3	11	176	4	7	1	15	3	137	4	375
0	8:15 AM	11	2	1	18	176	8	6	2	5	2	121	4	356
0	8:30 AM	7	3	4	16	157	8	9	1	9	2	127	5	348
0	8:45 AM	6	5	4	18	173	8	1	1	15	4	116	6	357
	Total	36	12	12	63	682	28	23	5	44	11	501	19	1436
		-	0			470			0			000	10	000
04	4:00 PM		3	2	44	170	11	32	8	36	34	280	12	639
04	4:15 PM	14	5	5	41	194	11	40	11	33	31	290	15	690
04	4:30 PM	13	/	4	40	206	13	31	10	39	36	300	19	/18
04	4:45 PM	12	2	2	43	181	12	40	10	32	21	326	18	699
	Iotal	46	17	13	168	751	47	143	39	140	122	1196	64	2746
0	5:00 PM	18	5	4	33	194	13	36	10	35	24	303	14	689
0	5:15 PM	22	2	6	45	179	9	30	7	27	24	339	10	700
0	5:30 PM	18	5	2	33	175	18	36	8	33	15	359	15	717
0	5:45 PM	20	4	7	38	143	12	49	5	30	16	313	18	655
	Total	78	16	19	149	691	52	151	30	125	79	1314	57	2761
Gra	nd Total	210	52	58	454	3013	135	356	79	348	220	3545	158	8628
A	pprch %	65.6	16.2	18.1	12.6	83.6	3.7	45.5	10.1	44.4	5.6	90.4	4	
	Total %	2.4	0.6	0.7	5.3	34.9	1.6	4.1	0.9	4	2.5	41.1	1.8	

File Name : Crossway_Washington_Passenger Site Code : 00000000 Start Date : 3/9/2021 Page No : 2

		Cross South	way Dr bound		v	Vashin West	gton Bl bound	vd	٦	Fowne (North	Center I bound	Dr	V	Vashin East	gton Bl bound	vd	
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Anal	ysis Fron	n 07:00	AM to 1	1:45 AM -	Peak 1	of 1											
Peak Hour for E	ntire Inte	rsection	Begins	at 07:15	AM												
07:15 AM	17	2	2	21	14	235	1	250	12	2	6	20	1	102	8	111	402
07:30 AM	7	2	1	10	22	270	3	295	7	0	16	23	4	137	2	143	471
07:45 AM	15	1	6	22	24	217	2	243	9	2	11	22	3	149	7	159	446
08:00 AM	12	2	3	17	11	176	4	191	7	1	15	23	3	137	4	144	375
Total Volume	51	7	12	70	71	898	10	979	35	5	48	88	11	525	21	557	1694
% App. Total	72.9	10	17.1		7.3	91.7	1		39.8	5.7	54.5		2	94.3	3.8		
PHF	.750	.875	.500	.795	.740	.831	.625	.830	.729	.625	.750	.957	.688	.881	.656	.876	.899



File Name : Crossway_Washington_Passenger Site Code : 00000000 Start Date : 3/9/2021

Page No : 3

		Cross South	way Dr bound		V	Vashin West	gton Bl [.] bound	vd	T	owne (North	Center I	Dr	V	Vashin East	gton Bl bound	vd	
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Anal	ysis Fror	n 12:00	PM to 0	5:45 PM -	Peak 1	of 1											
Peak Hour for E	ntire Inte	ersection	Begins	at 04:30	PM												
04:30 PM	13	7	4	24	40	206	13	259	31	10	39	80	36	300	19	355	718
04:45 PM	12	2	2	16	43	181	12	236	40	10	32	82	21	326	18	365	699
05:00 PM	18	5	4	27	33	194	13	240	36	10	35	81	24	303	14	341	689
05:15 PM	22	2	6	30	45	179	9	233	30	7	27	64	24	339	10	373	700
Total Volume	65	16	16	97	161	760	47	968	137	37	133	307	105	1268	61	1434	2806
% App. Total	67	16.5	16.5		16.6	78.5	4.9		44.6	12.1	43.3		7.3	88.4	4.3		
PHF	.739	.571	.667	.808	.894	.922	.904	.934	.856	.925	.853	.936	.729	.935	.803	.961	.977



File Name : Crossway_Washington_Buses Site Code : 00000000 Start Date : 3/9/2021

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					-		_	i aye i					
					Group	s Printed	Buses		-				
	Cros	sway Driv	/e	Wash	ington Bl	vd	Towne	Center D	rive	Wash	ington Bl	vd	
	<u> </u>	<u>uthbound</u>		We	estbound		No	rthbound		Ea	stbound		
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	0	1	0	1
07:15 AM	0	0	0	0	1	0	0	0	0	0	2	0	3
07:30 AM	0	0	0	0	1	0	0	0	1	0	0	0	2
07:45 AM	0	0	0	0	0	0	0	0	0	0	2	0	2
Total	0	0	0	0	2	0	0	0	1	0	5	0	8
08:15 AM	0	0	0	0	1	0	0	0	0	0	1	0	2
08:30 AM	0	0	0	0	1	0	0	0	0	0	1	0	2
08:45 AM	0	0	0	0	0	0	0	0	0	0	1	0	1
Total	0	0	0	0	2	0	0	0	0	0	3	0	5
04:00 PM	0	0	0	0	2	0	0	0	0	0	0	0	2
04:45 PM	0	0	0	0	1	0	0	0	0	0	1	0	2
Total	0	0	0	0	3	0	0	0	0	0	1	0	4
	-	-		-	-		-	-		-			
05:00 PM	0	0	0	0	1	0	0	0	0	0	0	0	1
05:15 PM	0	0	0	0	1	0	0	0	0	0	1	0	2
05:30 PM	2	0	0	0	0	0	0	0	0	0	1	0	3
05:45 PM	0	Ő	õ	Ő	1	õ	Ő	Ő	Ő	Ő	1	Ő	2
Total	2	0	0	0	3	0	0	0	0	0	3	0	8
rotar	2	Ū	0	Ū	0	0	Ū	Ũ	0	0	U	U	Ũ
Grand Total	2	0	0	0	10	0	0	0	1	0	12	0	25
Approh %	100	õ	õ	õ	100	0	õ	õ	100	õ	100	õ	20
Total %	.00	0	ő	0	40	0	0	Ő	.00	0	48	0	
Total 70	0	0	0	0	40	0	0	0		0	40	0	

File Name : Crossway_Washington_Buses Site Code : 00000000 Start Date : 3/9/2021 Page No : 2

		Crossw South	ay Driv bound	e	V	Vashing West	gton Bly bound	vd	Тс	wne Co North	enter Di bound	rive	١	Nashin East	gton Bl bound	vd	
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Anal	ysis Fror	n 07:00	AM to 1	1:45 AM -	Peak 1	of 1	-				-				-		
Peak Hour for E	ntire Inte	ersection	Begins	at 07:00	AM												
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
07:15 AM	0	0	0	0	0	1	0	1	0	0	0	0	0	2	0	2	3
07:30 AM	0	0	0	0	0	1	0	1	0	0	1	1	0	0	0	0	2
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	2
Total Volume	0	0	0	0	0	2	0	2	0	0	1	1	0	5	0	5	8
% App. Total	0	0	0		0	100	0		0	0	100		0	100	0		
PHF	.000	.000	.000	.000	.000	.500	.000	.500	.000	.000	.250	.250	.000	.625	.000	.625	.667



File Name : Crossway_Washington_Buses Site Code : 00000000 Start Date : 3/9/2021 Page No : 3

		Crossw South	ay Drive bound	e	V	Vashing West	gton Bl bound	vd	То	wne Co North	enter D bound	rive	V	Vashin East	gton Bl bound	vd	
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Anal	ysis Fron	n 12:00	PM to 0	5:45 PM -	Peak 1	of 1									-		
Peak Hour for E	ntire Inte	rsection	Begins	at 04:45	PM												
04:45 PM	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	1	2
05:00 PM	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1
05:15 PM	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	1	2
05:30 PM	2	0	0	2	0	0	0	0	0	0	0	0	0	1	0	1	3
Total Volume	2	0	0	2	0	3	0	3	0	0	0	0	0	3	0	3	8
% App. Total	100	0	0		0	100	0		0	0	0		0	100	0		
PHF	.250	.000	.000	.250	.000	.750	.000	.750	.000	.000	.000	.000	.000	.750	.000	.750	.667



File Name : Crossway_Washington_Motorcycles Site Code : 0000000

Start Date : 3/9/2021

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					Groups P	rinted- M	otorcycles	5					
	Cro Sou	ssway Dr uthbound		Wash We	ington Bl	vd	Town No	e Center	Dr	Wash Ea	ington Bl	vd	
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Int. Total
07:30 AM	0	0	0	0	0	0	0	0	0	1	0	0	1
 Total	0	0	0	0	0	0	0	0	0	1	0	0	1
08:00 AM	0	0	0	0	1	0	0	0	0	0	0	0	1
08:15 AM	0	0	0	0	1	0	0	0	0	0	0	0	1
 Total	0	0	0	0	2	0	0	0	0	0	0	0	2
04:00 PM	0	0	0	0	0	0	0	0	0	1	1	0	2
04:15 PM	0	0	0	0	2	0	0	0	0	1	0	0	3
04:30 PM	0	0	0	0	0	0	0	0	0	2	0	0	2
 04:45 PM	0	0	0	0	1	0	0	0	0	0	1	0	2
Total	0	0	0	0	3	0	0	0	0	4	2	0	9
05:00 PM	0	0	0	0	0	0	0	0	0	1	0	0	1
05:15 PM	0	0	0	0	0	0	0	0	0	2	0	0	2
05:30 PM	0	0	0	0	0	0	0	0	0	2	0	0	2
 05:45 PM	0	0	0	0	1	0	0	0	0	1	0	0	2
Total	0	0	0	0	1	0	0	0	0	6	0	0	7
Grand Total	0	0	0	0	6	0	0	0	0	11	2	0	19
Apprch %	0	0	0	0	100	0	0	0	0	84.6	15.4	0	
Total %	0	0	0	0	31.6	0	0	0	0	57.9	10.5	0	

File Name : Crossway_Washington_Motorcycles Site Code : 00000000 Start Date : 3/9/2021 Page No : 2

		Cross	way Dr		V	Vashin	gton Bl	vd	٦	owne (Center I	Dr	V	Vashin	gton Bl	vd	
		South	bound			west	bound			North	bound			Easi	bound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Anal	ysis Fron	n 07:00	AM to 1	1:45 AM -	Peak 1	of 1											
Peak Hour for E	ntire Inte	rsection	Begins	at 07:30	AM												
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:00 AM	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1
08:15 AM	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1
Total Volume	0	0	0	0	0	2	0	2	0	0	0	0	1	0	0	1	3
% App. Total	0	0	0		0	100	0		0	0	0		100	0	0		
PHF	.000	.000	.000	.000	.000	.500	.000	.500	.000	.000	.000	.000	.250	.000	.000	.250	.750



File Name : Crossway_Washington_Motorcycles Site Code : 00000000 Start Date : 3/9/2021 Page No : 3

		Cross	way Dr		V	Vashin West	gton Bly	vd	Т	owne (Center I	Dr	V	Vashin Fast	gton Bly	/d	
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Anal	ysis Fron	n 12:00	PM to 0	5:45 PM -	Peak 1	of 1	-				-				-		
Peak Hour for E	ntire Inte	rsection	Begins	at 04:00	PM												
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	2
04:15 PM	0	0	0	0	0	2	0	2	0	0	0	0	1	0	0	1	3
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	2
04:45 PM	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	1	2
Total Volume	0	0	0	0	0	3	0	3	0	0	0	0	4	2	0	6	9
% App. Total	0	0	0		0	100	0		0	0	0		66.7	33.3	0		
PHF	.000	.000	.000	.000	.000	.375	.000	.375	.000	.000	.000	.000	.500	.500	.000	.750	.750



File Name : Crossway_Washington_2-Axle Site Code : 00000000 Start Date : 3/9/2021

1

		Page	No	:
2	A I .			

					Group	s Printed	- 2 Axle						
	Cro	ssway Dr		Wash	ington Bl	vd	Towr	ne Center	Dr	Wash	ington Bl	vd	
	So	uthbound		We	estbound		No	rthbound		Ea	stbound		
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Int. Total
07:00 AM	0	0	0	0	3	0	0	0	0	0	5	0	8
07:15 AM	1	0	0	0	4	0	0	0	1	0	11	1	18
07:30 AM	0	0	0	0	8	0	1	0	1	0	7	0	17
07:45 AM	0	0	0	0	10	0	1	0	0	0	5	0	16
Total	1	0	0	0	25	0	2	0	2	0	28	1	59
08:00 AM	0	0	0	0	4	0	0	0	0	0	8	0	12
08:15 AM	0	0	0	0	10	0	0	0	0	0	9	1	20
08:30 AM	0	0	0	0	6	0	0	0	0	0	17	0	23
08:45 AM	0	0	0	0	8	0	0	0	0	0	6	0	14
Total	0	0	0	0	28	0	0	0	0	0	40	1	69
04:00 PM	0	0	0	0	5	0	0	0	0	0	4	0	9
04:15 PM	0	0	0	0	7	0	0	0	0	0	5	0	12
04:30 PM	0	0	0	0	3	0	1	0	0	0	8	0	12
04:45 PM	0	0	0	0	4	0	0	0	0	0	8	0	12
Total	0	0	0	0	19	0	1	0	0	0	25	0	45
05:00 PM	0	0	0	0	3	0	0	0	0	0	9	0	12
05:15 PM	0	0	0	0	2	0	0	0	0	0	3	0	5
05:30 PM	0	0	0	0	0	1	0	1	0	0	6	0	8
05:45 PM	0	0	0	1	2	0	0	0	1	0	3	0	7
Total	0	0	0	1	7	1	0	1	1	0	21	0	32
1						1							
Grand Total	1	0	0	1	79	1	3	1	3	0	114	2	205
Apprch %	100	0	0	1.2	97.5	1.2	42.9	14.3	42.9	0	98.3	1.7	
Total %	0.5	0	0	0.5	38.5	0.5	1.5	0.5	1.5	0	55.6	1	

File Name : Crossway_Washington_2-Axle Site Code : 00000000 Start Date : 3/9/2021 Page No : 2

		Cross South	way Dr bound		v	Vashin West	gton Bly bound	vd	٦	owne (North	Center I bound	Dr	V	Vashin East	gton Bl [.] bound	vd	
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Anal	ysis Fron	n 07:00	AM to 1	1:45 AM -	Peak 1	of 1	-				-				-		
Peak Hour for E	ntire Inte	rsection	Begins	at 07:45	AM												
07:45 AM	0	0	0	0	0	10	0	10	1	0	0	1	0	5	0	5	16
08:00 AM	0	0	0	0	0	4	0	4	0	0	0	0	0	8	0	8	12
08:15 AM	0	0	0	0	0	10	0	10	0	0	0	0	0	9	1	10	20
08:30 AM	0	0	0	0	0	6	0	6	0	0	0	0	0	17	0	17	23
Total Volume	0	0	0	0	0	30	0	30	1	0	0	1	0	39	1	40	71
% App. Total	0	0	0		0	100	0		100	0	0		0	97.5	2.5		
PHF	.000	.000	.000	.000	.000	.750	.000	.750	.250	.000	.000	.250	.000	.574	.250	.588	.772



File Name : Crossway_Washington_2-Axle Site Code : 00000000 Start Date : 3/9/2021 Page No : 3

		Cross	way Dr bound		V	Vashing West	gton Bl	vd	Т	owne (North	Center	Dr	۷	Vashing Fast	gton Bl	vd	
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Anal	ysis Fron	n 12:00	PM to 0	5:45 PM -	Peak 1	of 1	-				-						
Peak Hour for E	, ntire Inte	rsection	Begins	at 04:15 I	PM												
04:15 PM	0	0	0	0	0	7	0	7	0	0	0	0	0	5	0	5	12
04:30 PM	0	0	0	0	0	3	0	3	1	0	0	1	0	8	0	8	12
04:45 PM	0	0	0	0	0	4	0	4	0	0	0	0	0	8	0	8	12
05:00 PM	0	0	0	0	0	3	0	3	0	0	0	0	0	9	0	9	12
Total Volume	0	0	0	0	0	17	0	17	1	0	0	1	0	30	0	30	48
% App. Total	0	0	0		0	100	0		100	0	0		0	100	0		
PHF	.000	.000	.000	.000	.000	.607	.000	.607	.250	.000	.000	.250	.000	.833	.000	.833	1.00



File Name : Crossway_Washington_3-Axle Site Code : 00000000

Start Date : 3/9/2021 Page No : 1

					Group	s Printed	- 3 Axle						
	Cros	sway Driv	/e	Wash	ington Bl	vd	Towne	Center D	rive	Wash	ington Bl	vd	
	So	uthbound		We	estbound		No	rthbound		Ea	stbound		
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Int. Total
07:00 AM	0	0	0	0	3	0	0	0	0	0	2	0	5
07:15 AM	0	0	0	0	1	0	0	0	0	0	1	0	2
07:30 AM	0	0	0	0	2	0	0	0	0	0	6	0	8
07:45 AM	0	0	0	0	1	0	0	0	0	0	5	0	6
Total	0	0	0	0	7	0	0	0	0	0	14	0	21
08:00 AM	0	0	0	0	1	0	0	0	0	1	7	0	9
08:15 AM	1	0	0	0	3	0	0	0	0	0	3	0	7
08:30 AM	0	0	0	0	5	0	0	0	0	0	5	0	10
08:45 AM	0	0	0	0	2	0	0	0	1	0	2	0	5
Total	1	0	0	0	11	0	0	0	1	1	17	0	31
04:00 PM	0	0	0	1	5	0	0	0	0	0	5	0	11
04:15 PM	0	0	0	0	1	0	0	0	0	0	2	0	3
04:30 PM	0	0	0	0	5	0	0	0	0	0	2	0	7
04:45 PM	0	0	0	0	6	0	0	0	0	0	2	0	8
Total	0	0	0	1	17	0	0	0	0	0	11	0	29
05:00 PM	0	0	0	0	6	0	0	0	0	0	0	0	6
05:15 PM	0	0	0	0	3	0	0	0	0	0	0	0	3
05:30 PM	0	0	0	0	2	0	0	0	0	0	2	0	4
05:45 PM	0	0	0	0	2	0	0	0	0	0	6	0	8
Total	0	0	0	0	13	0	0	0	0	0	8	0	21
Grand Total	1	0	0	1	48	0	0	0	1	1	50	0	102
Apprch %	100	0	0	2	98	0	0	0	100	2	98	0	
Total %	1	0	0	1	47.1	0	0	0	1	1	49	0	

File Name : Crossway_Washington_3-Axle Site Code : 00000000 Start Date : 3/9/2021 Page No : 2

		Crossw South	ay Driv bound	'e	v	Vashin West	gton Bly bound	vd	Тс	wne Co North	enter Di bound	rive	V	Vashing East	gton Bl bound	vd	
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Anal	ysis Fror	n 07:00	AM to 1	1:45 AM -	Peak 1	of 1									-		
Peak Hour for E	ntire Inte	ersection	Begins	at 07:45	AM												
07:45 AM	0	0	0	0	0	1	0	1	0	0	0	0	0	5	0	5	6
08:00 AM	0	0	0	0	0	1	0	1	0	0	0	0	1	7	0	8	9
08:15 AM	1	0	0	1	0	3	0	3	0	0	0	0	0	3	0	3	7
08:30 AM	0	0	0	0	0	5	0	5	0	0	0	0	0	5	0	5	10
Total Volume	1	0	0	1	0	10	0	10	0	0	0	0	1	20	0	21	32
% App. Total	100	0	0		0	100	0		0	0	0		4.8	95.2	0		
PHF	.250	.000	.000	.250	.000	.500	.000	.500	.000	.000	.000	.000	.250	.714	.000	.656	.800



File Name : Crossway_Washington_3-Axle Site Code : 00000000 Start Date : 3/9/2021 Page No : 3

	(Crossw South	ay Drive	e	V	Vashing West	gton Bl	vd	То	wne Co North	enter D	rive	V	Vashin Fast	gton Bl bound	vd	
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Anal	ysis Fron	n 12:00	PM to 0	5:45 PM -	Peak 1	of 1	-				-						
Peak Hour for E	, ntire Inte	rsection	Begins	at 04:00	PM												
04:00 PM	0	0	0	0	1	5	0	6	0	0	0	0	0	5	0	5	11
04:15 PM	0	0	0	0	0	1	0	1	0	0	0	0	0	2	0	2	3
04:30 PM	0	0	0	0	0	5	0	5	0	0	0	0	0	2	0	2	7
04:45 PM	0	0	0	0	0	6	0	6	0	0	0	0	0	2	0	2	8
Total Volume	0	0	0	0	1	17	0	18	0	0	0	0	0	11	0	11	29
% App. Total	0	0	0		5.6	94.4	0		0	0	0		0	100	0		
PHF	.000	.000	.000	.000	.250	.708	.000	.750	.000	.000	.000	.000	.000	.550	.000	.550	.659



File Name : Crossway_Washington_4+Axles Site Code : 00000000 Start Date : 3/9/2021

P

1

					Groups	Printed-	· 4+ Axles						
	Cro	ssway Driv	/e	Wasł	nington Bl	vd	Towne	e Center D	Drive	Was	hington B	lvd	
	Sc	outhbound		w	estbound		No	orthbound	1	E	astbound		
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Int. Total
07:00 AM	0	0	0	0	14	0	0	0	0	0	15	0	29
07:15 AM	0	0	0	0	13	0	0	0	0	0	20	0	33
07:30 AM	0	0	0	0	12	0	0	0	0	0	13	0	25
07:45 AM	0	0	0	0	14	0	0	0	0	0	17	0	31
Total	0	0	0	0	53	0	0	0	0	0	65	0	118
08:00 414	0	0		0	10	0	0	0	4	0	0		22
00.00 AN	0	0	0	0	12	0	0	0	1	0	9	0	22
00.15 AM	0	0	0	0	0	0	0	0	1	0	10	1	24
00.30 AIVI	0	0	0	0	10	0	1	0	1	0	10	1	20
UO.45 AIVI	0	0	0	0	11	0	1	0	2	0	53	2	23
TOLAT	0	0	0	0	41	0	1	0	2	0	55	2	55
04-00 DM	0	0		0	0		0	0		0	0		10
04:00 PM	0	0	0	0	8	0	0	0	0	0	8	0	16
04:15 PIVI	0	0	0	0	7	0	0	0	0	0	10	0	17
04:30 PIVI	0	0	0	0	5	0	0	0	0	0	9	0	14
04:45 PIVI	0	0	0	0	20	0	0	0	0	0	<u> </u>	0	18
TOLA	0	0	0	0	30	0	0	0	0	0	35	0	CO
05:00 PM	0	0	0	0	9	0	0	0	0	0	6	0	15
05:15 PM	0	0	0	0	8	0	0	0	0	0	7	0	15
05:30 PM	0	0	0	0	6	0	0	0	0	0	4	0	10
05:45 PM	0	0	0	0	6	0	0	0	0	0	7	0	13
Total	0	0	0	0	29	0	0	0	0	0	24	0	53
o 17 (1	•	•		0	450			0		•	477		005
Grand Total	0	0	0	0	153	0	1	0	2	0	1//	2	335
Apprcn %	0	0	0	0	100	0	33.3	0	66.7	0	98.9	1.1	
I otal %	0	0	0	0	45.7	0	0.3	0	0.6	0	52.8	0.6	

File Name : Crossway_Washington_4+Axles Site Code : 00000000 Start Date : 3/9/2021 Page No : 2

		Crossw South	ay Driv bound	e	V	Vashing West	gton Bl [.] bound	vd	Тс	wne Co North	enter D bound	rive	١	Nashin East	gton Bl bound	vd	
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Anal	ysis Fror	n 07:00	AM to 1	1:45 AM -	Peak 1	of 1					-				-		
Peak Hour for E	ntire Inte	ersection	Begins	at 07:00	AM												
07:00 AM	0	0	0	0	0	14	0	14	0	0	0	0	0	15	0	15	29
07:15 AM	0	0	0	0	0	13	0	13	0	0	0	0	0	20	0	20	33
07:30 AM	0	0	0	0	0	12	0	12	0	0	0	0	0	13	0	13	25
07:45 AM	0	0	0	0	0	14	0	14	0	0	0	0	0	17	0	17	31
Total Volume	0	0	0	0	0	53	0	53	0	0	0	0	0	65	0	65	118
% App. Total	0	0	0		0	100	0		0	0	0		0	100	0		
PHF	.000	.000	.000	.000	.000	.946	.000	.946	.000	.000	.000	.000	.000	.813	.000	.813	.894



File Name : Crossway_Washington_4+Axles Site Code : 00000000 Start Date : 3/9/2021 Page No : 3

	Crossway Drive Southbound			V	Vashin West	gton Bl bound	vd	То	wne Co North	enter Di bound	rive	V	Vashing East	gton Bl bound	vd		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 12:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for E	ntire Inte	rsection	Begins	at 04:00	PM												
04:00 PM	0	0	0	0	0	8	0	8	0	0	0	0	0	8	0	8	16
04:15 PM	0	0	0	0	0	7	0	7	0	0	0	0	0	10	0	10	17
04:30 PM	0	0	0	0	0	5	0	5	0	0	0	0	0	9	0	9	14
04:45 PM	0	0	0	0	0	10	0	10	0	0	0	0	0	8	0	8	18
Total Volume	0	0	0	0	0	30	0	30	0	0	0	0	0	35	0	35	65
% App. Total	0	0	0		0	100	0		0	0	0		0	100	0		
PHF	.000	.000	.000	.000	.000	.750	.000	.750	.000	.000	.000	.000	.000	.875	.000	.875	.903



File Name : Crossway_Washington_BP Site Code : 00000000 Start Date : 3/9/2021

Page	No	:1	

			Groups P	rinted- Bike	s & Peds				
	Crossway Southbou	Dr Ind	Washington Westbou	n Blvd Ind	Towne Cent Northbou	ter Dr Ind	Washingtor Eastbou	n Blvd nd	
Start Time	Bikes	Peds	Bikes	Peds	Bikes	Peds	Bikes	Peds	Int. Total
07:00 AM	0	0	0	3	0	5	0	2	10
07:15 AM	0	2	1	2	0	1	0	1	7
07:30 AM	0	0	0	1	0	0	0	0	1
Total	0	2	1	6	0	6	0	3	18
08:00 AM	0	1	0	2	0	1	0	1	5
08:15 AM	1	0	0	1	0	0	0	0	2
08:30 AM	0	0	0	1	0	1	0	1	3
08:45 AM	0	0	0	2	0	1	0	0	3
Total	Total 1		0	6	0	3	0	2	13
04:00 PM	0	0	0	9	0	0	0	0	9
04:15 PM	0	0	0	2	0	1	0	0	3
04:30 PM	1	0	0	1	0	0	0	1	3
04:45 PM	0	0	0	1	1	1	1	4	8
Total	1	0	0	13	1	2	1	5	23
05:00 PM	0	0	0	0	2	0	2	2	6
05:15 PM	0	0	0	2	0	0	0	1	3
05:30 PM	1	0	1	1	2	0	2	1	8
05:45 PM	0	0	0	0	0	2	1	6	9
Total	1	0	1	3	4	2	5	10	26
Grand Total	3	3	2	28	5	13	6	20	80
Apprch %	50	50	6.7	93.3	27.8	72.2	23.1	76.9	
Total %	3.8	3.8	2.5	35	6.2	16.2	7.5	25	

File Name : Crossway_Washington_BP Site Code : 00000000 Start Date : 3/9/2021 Page No : 2

	C S	rossway outhbou	Dr nd	Wa	shington Nestbou	Blvd nd	To\ N	vne Cent Iorthbou	er Dr nd	Wa	shington Eastbou	Blvd nd	
Start Time	Bikes	Peds	App. Total	Bikes	Peds	App. Total	Bikes	Peds	App. Total	Bikes	Peds	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 11:45 AM - Peak 1 of 1 Peak Hour for Entire Intersection Begins at 07:00 AM													
Peak Hour for Entire	Intersection	on Begins	at 07:00 AM	Л									
07:00 AM	0	0	0	0	3	3	0	5	5	0	2	2	10
07:15 AM	0	2	2	1	2	3	0	1	1	0	1	1	7
07:30 AM	0	0	0	0	1	1	0	0	0	0	0	0	1
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	2	2	1	6	7	0	6	6	0	3	3	18
% App. Total	0	100		14.3	85.7		0	100		0	100		
PHF	.000	.250	.250	.250	.500	.583	.000	.300	.300	.000	.375	.375	.450



File Name : Crossway_Washington_BP Site Code : 00000000 Start Date : 3/9/2021 Page No : 3

	0	Crossway Southbou	Dr nd	Was	shington Vestbou	Blvd nd	Tov	wne Cent Northbou	er Dr nd	Wa	shington Eastboui	Blvd nd		
Start Time	Bikes	Peds	App. Total	Bikes	Peds	App. Total	Bikes	Peds	App. Total	Bikes	Peds	App. Total	Int. Total	
Peak Hour Analysis From 12:00 PM to 05:45 PM - Peak 1 of 1														
Peak Hour for Entire	e Intersec	tion Begin	is at 05:00 F	PM										
05:00 PM	0	Ō	0	0	0	0	2	0	2	2	2	4	6	
05:15 PM	0	0	0	0	2	2	0	0	0	0	1	1	3	
05:30 PM	1	0	1	1	1	2	2	0	2	2	1	3	8	
05:45 PM	0	0	0	0	0	0	0	2	2	1	6	7	9	
Total Volume	1	0	1	1	3	4	4	2	6	5	10	15	26	
% App. Total	100	0		25	75		66.7	33.3		33.3	66.7			
PHF	.250	.000	.250	.250	.375	.500	.500	.250	.750	.625	.417	.536	.722	



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File Name : Rosemead_Coffman-Pico_Passenger Site Code : 0000000

Start Date : 3/9/2021 Page No : 1

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	Groups Printed- Passenger													
	Ros Sc	emead Bly outhbound	vd I	Rosemea	d Blvd (Fr Rd) estbound	ontage	Ros No	emead Bl	vd I	Coffr Ea	nan-Pico astbound	Rd		
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Int. Total	
07:00 AM	1	150	3	0	0	2	1	81	0	4	0	4	246	
07:15 AM	1	162	2	1	0	2	5	89	0	4	0	7	273	
07:30 AM	1	176	0	2	0	1	3	92	0	5	0	5	285	
07:45 AM	4	153	5	2	0	2	2	107	0	1	0	9	285	
Total	7	641	10	5	0	7	11	369	0	14	0	25	1089	
08.00 AM	4	158	7	1	0	3	2	72	0	3	0	12	262	
08:15 AM	2	126	5	1	0	5	5	97	0	6	Õ	13	260	
08:30 AM	1	137	1	2	0	2	4	92	0	0	0	5	244	
08:45 AM	3	126	4	1	0	2	5	91	2	2	0	8	244	
Total	10	547	17	5	0	12	16	352	2	11	0	38	1010	
				1		1						1		
04:00 PM	9	218	6	3	0	2	7	264	0	10	0	4	523	
04:15 PM	9	175	3	2	0	2	7	243	2	8	0	9	460	
04:30 PM	2	206	8	1	0	3	8	246	0	15	0	6	495	
04:45 PM	4	225	7	3	0	4	7	229	2	12	1	3	497	
Iotal	24	824	24	9	0	11	29	982	4	45	1	22	1975	
05:00 PM	5	207	6	1	0	5	3	237	1	13	0	9	487	
05:15 PM	7	217	4	2	0	2	5	276	4	10	2	5	534	
05:30 PM	5	223	3	1	0	3	7	211	0	8	0	13	474	
05:45 PM	10	238	0	1	0	2	9	223	2	12	1	8	506	
Total	27	885	13	5	0	12	24	947	7	43	3	35	2001	
Grand Total	68	2897	64	24	0	42	80	2650	13	113	4	120	6075	
Apprch %	2.2	95.6	2.1	36.4	0	63.6	2.9	96.6	0.5	47.7	1.7	50.6		
Total %	1.1	47.7	1.1	0.4	0	0.7	1.3	43.6	0.2	1.9	0.1	2		

File Name : Rosemead_Coffman-Pico_Passenger Site Code : 0000000 Start Date : 3/9/2021 Page No : 2

		Rosem South	ead Blv Ibound	ď	Rose	mead B R West	lvd (Fr d) bound	ontage		Rosem North	ead Blv Ibound	d	(Coffmar East	n-Pico I bound	Rd	
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Anal	ysis Fror	m 07:00	AM to 1	1:45 AM -	Peak 1	of 1	-				-				-		
Peak Hour for E	or Entire Intersection Begins at 07				AM												
07:15 AM	1	162	2	165	1	0	2	3	5	89	0	94	4	0	7	11	273
07:30 AM	1	176	0	177	2	0	1	3	3	92	0	95	5	0	5	10	285
07:45 AM	4	153	5	162	2	0	2	4	2	107	0	109	1	0	9	10	285
08:00 AM	4	158	7	169	1	0	3	4	2	72	0	74	3	0	12	15	262
Total Volume	10	649	14	673	6	0	8	14	12	360	0	372	13	0	33	46	1105
% App. Total	1.5	96.4	2.1		42.9	0	57.1		3.2	96.8	0		28.3	0	71.7		
PHF	.625	.922	.500	.951	.750	.000	.667	.875	.600	.841	.000	.853	.650	.000	.688	.767	.969



File Name : Rosemead_Coffman-Pico_Passenger Site Code : 0000000 Start Date : 3/9/2021 Page No : 3

	Rosemead Blvd Southbound				Rose	mead B R West	lvd (Fro d) bound	ontage		Rosem North	ead Blv Ibound	d	C	Coffmar Eastl	n-Pico F bound	۲d	
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 12:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for E	ntire Inte	ersectior	Begins	at 04:30	PM												
04:30 PM	2	206	8	216	1	0	3	4	8	246	0	254	15	0	6	21	495
04:45 PM	4	225	7	236	3	0	4	7	7	229	2	238	12	1	3	16	497
05:00 PM	5	207	6	218	1	0	5	6	3	237	1	241	13	0	9	22	487
05:15 PM	7	217	4	228	2	0	2	4	5	276	4	285	10	2	5	17	534
Total Volume	18	855	25	898	7	0	14	21	23	988	7	1018	50	3	23	76	2013
% App. Total	2	95.2	2.8		33.3	0	66.7		2.3	97.1	0.7		65.8	3.9	30.3		
PHF	.643	.950	.781	.951	.583	.000	.700	.750	.719	.895	.438	.893	.833	.375	.639	.864	.942



File Name : Rosemead_Coffman-Pico_Buses Site Code : 00000000

Start Date : 3/9/2021

Page

age l	No	:	1
	-		

					Group	s Printed	Гс I- Buses	age NO	. 1				
	Ros	semead Bly outhbound	vd 1	Rosemea W	d Blvd (Fr Rd) estbound	rontage	Ros	emead Bl	vd	Coffm Ea	nan-Pico Istbound	Rd	
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Int. Total
07:00 AM	0	1	0	0	0	0	0	1	0	0	0	0	2
07:15 AM	0	3	0	0	0	0	0	2	0	0	0	0	5
07:30 AM	0	1	0	0	0	0	0	2	0	0	0	0	3
07:45 AM	0	0	0	0	0	0	0	1	0	0	0	0	1
Total	0	5	0	0	0	0	0	6	0	0	0	0	11
08:00 AM	0	1	0	0	0	0	0	1	0	0	0	0	2
08:15 AM	0	2	0	0	0	0	0	1	0	0	0	0	3
08:30 AM	0	2	0	0	0	0	0	0	0	0	0	0	2
Total	0	5	0	0	0	0	0	2	0	0	0	0	7
04:00 PM	0	1	0	0	0	0	0	1	0	0	0	0	2
04:15 PM	0	1	0	0	0	0	0	2	0	0	0	0	3
04:30 PM	0	3	0	0	0	0	0	1	0	0	0	0	4
04:45 PM	0	5	0	0	0	0	0	2	0	0	0	0	7
Total	0	10	0	0	0	0	0	6	0	0	0	0	16
05:00 PM	0	3	0	0	0	0	0	2	0	0	0	0	5
05:15 PM	0	3	0	0	0	0	0	0	0	0	0	0	3
05:30 PM	0	4	0	0	0	0	0	0	0	0	0	0	4
05:45 PM	0	3	0	0	0	0	0	2	0	0	0	0	5
Total	0	13	0	0	0	0	0	4	0	0	0	0	17
Grand Total	0	33	0	0	0	0	0	18	0	0	0	0	51
Apprch %	0	100	0	0	0	0	0	100	0	0	0	0	
Total %	0	64.7	0	0	0	0	0	35.3	0	0	0	0	

File Name : Rosemead_Coffman-Pico_Buses Site Code : 0000000 Start Date : 3/9/2021 Page No : 2

	I	Rosem South	ead Blv Ibound	ď	Rose	mead B R West	Blvd (Fr d) bound	ontage		Rosem North	ead Blv Ibound	ď	(Coffmar East	n-Pico I bound	₹d	
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Anal	ak Hour Analysis From 07:00 AM to 11:45 AM - Peak 1 of 1																
Peak Hour for E	ntire Inte	rsectior	n Begins	at 07:00	AM												
07:00 AM	0	1	0	1	0	0	0	0	0	1	0	1	0	0	0	0	2
07:15 AM	0	3	0	3	0	0	0	0	0	2	0	2	0	0	0	0	5
07:30 AM	0	1	0	1	0	0	0	0	0	2	0	2	0	0	0	0	3
07:45 AM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1
Total Volume	0	5	0	5	0	0	0	0	0	6	0	6	0	0	0	0	11
% App. Total	0	100	0		0	0	0		0	100	0		0	0	0		
PHF	.000	.417	.000	.417	.000	.000	.000	.000	.000	.750	.000	.750	.000	.000	.000	.000	.550



File Name : Rosemead_Coffman-Pico_Buses Site Code : 0000000 Start Date : 3/9/2021 Page No : 3

	Rosemead Blvd Southbound				Rose	ontage		Rosem North	ead Blv Ibound	′d	Coffman-Pico Rd Eastbound						
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 12:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:15 PM																	
04:15 PM	0	1	0	1	0	0	0	0	0	2	0	2	0	0	0	0	3
04:30 PM	0	3	0	3	0	0	0	0	0	1	0	1	0	0	0	0	4
04:45 PM	0	5	0	5	0	0	0	0	0	2	0	2	0	0	0	0	7
05:00 PM	0	3	0	3	0	0	0	0	0	2	0	2	0	0	0	0	5
Total Volume	0	12	0	12	0	0	0	0	0	7	0	7	0	0	0	0	19
% App. Total	0	100	0		0	0	0		0	100	0		0	0	0		
PHF	.000	.600	.000	.600	.000	.000	.000	.000	.000	.875	.000	.875	.000	.000	.000	.000	.679



File Name : Rosemead_Coffman-Pico_Motorcycles Site Code : 00000000

Start Date : 3/9/2021

Page No : 1

Groups Printed- Motorcycles													
	Rosemead Blvd Southbound			Rosemea W	ad Blvd (Fi Rd) /estbound	rontage	Ros Ne	semead Bl	vd I	Coffn Ea			
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Int. Total
07:15 AM	0	1	0	0	0	0	0	0	0	0	0	0	1
07:45 AM	0	1	0	0	0	0	0	0	0	0	0	0	1
Total	0	2	0	0	0	0	0	0	0	0	0	0	2
08:00 AM	0	2	0	0	0	0	0	0	0	0	0	0	2
08:30 AM	0	0	0	0	0	0	0	1	0	0	0	0	1
Total	0	2	0	0	0	0	0	1	0	0	0	0	3
04:00 PM 04:15 PM	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 1	0 0	1 0	0 0	0 1	1 2
Total	0	0	0	0	0	0	0	1	0	1	0	1	3
05:15 PM 05:30 PM 05:45 PM	0 0 0	0 0 1	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	1 2 0	0 0 0	0 0 0	0 0 0	1 0 0	2 2 1
Total	0	1	0	0	0	0	0	3	0	0	0	1	5
Grand Total Apprch % Total %	0 0 0	5 100 38.5	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	5 100 38.5	0 0 0	1 33.3 7.7	0 0 0	2 66.7 15.4	13

File Name : Rosemead_Coffman-Pico_Motorcycles Site Code : 0000000 Start Date : 3/9/2021 Page No : 2

	Rosemead Blvd Southbound			Rose	ontage		Rosem North	ead Blv Ibound	d	Coffman-Pico Rd Eastbound							
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 11:45 AM - Peak 1 of 1																	
Peak Hour for E	ntire Inte	ersection	n Begins	at 07:15	AM												
07:15 AM	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
08:00 AM	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
Total Volume	0	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4
% App. Total	0	100	0		0	0	0		0	0	0		0	0	0		
PHF	.000	.500	.000	.500	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.500



File Name : Rosemead_Coffman-Pico_Motorcycles Site Code : 0000000 Start Date : 3/9/2021 Page No : 3

	Rosemead Blvd Southbound				Rosemead Blvd (Frontage Rd) Westbound					Rosem North	ead Blv Ibound	ď	(
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 12:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	1	2
05:30 PM	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	2
05:45 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Total Volume	0	1	0	1	0	0	0	0	0	3	0	3	0	0	1	1	5
% App. Total	0	100	0		0	0	0		0	100	0		0	0	100		
PHF	.000	.250	.000	.250	.000	.000	.000	.000	.000	.375	.000	.375	.000	.000	.250	.250	.625



File Name : Rosemead_Coffman-Pico_2-Axle Site Code : 0000000

0.5

3.5

Start Date : 3/9/2021

Pag

ae No	:1

		Rosemead Blvd Southbound			Rosemea	d Blvd (Fr Rd) estbound	ontage	Rose No	emead Bly orthbound	/d	Coffm Ea			
[Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Int. Total
	07:00 AM	0	6	0	0	0	0	0	6	0	0	0	0	12
	07:15 AM	0	7	0	0	0	0	0	2	0	0	0	0	9
	07:30 AM	0	13	1	0	0	0	1	6	0	0	0	0	21
	07:45 AM	0	4	0	0	0	0	0	5	0	0	0	1	10
	Total	0	30	1	0	0	0	1	19	0	0	0	1	52
	08:00 AM	0	11	0	0	0	0	0	3	0	0	0	1	15
	08:15 AM	0	12	0	0	0	0	1	8	0	0	0	1	22
	08:30 AM	0	8	0	0	0	0	1	10	0	1	0	1	21
	08:45 AM	0	5	0	0	0	0	0	10	0	1	0	3	19
	Total	0	36	0	0	0	0	2	31	0	2	0	6	77
	04:00 PM	0	5	0	0	0	0	0	3	0	0	0	0	8
	04:15 PM	0	7	0	0	0	0	0	3	0	0	0	0	10
	04:30 PM	0	5	0	0	0	0	0	5	0	0	0	0	10
	04:45 PM	0	3	0	0	0	0	0	2	0	0	0	0	5
	Total	0	20	0	0	0	0	0	13	0	0	0	0	33
							- 1		_	- 1			- 1	
	05:00 PM	0	4	0	0	0	0	0	5	0	0	0	0	9
	05:15 PM	0	7	0	0	0	0	0	6	0	0	0	0	13
	05:30 PM	0	3	0	0	0	0	0	5	0	0	1	0	9
-	05:45 PM	0	2	0	0	0	0	0	3	0	0	0	0	5
	Total	0	16	0	0	0	0	0	19	0	0	1	0	36

Grand Total

Apprch %

Total %

51.5

0

0.5

3.5

1.5

96.5

41.4

Groups Printed- 2 Axle
File Name : Rosemead_Coffman-Pico_2-Axle Site Code : 00000000 Start Date : 3/9/2021 Page No : 2

	I	Rosem South	ead Blv Ibound	'd	Rose	mead B R West	lvd (Fr d) bound	ontage		Rosem North	ead Blv Ibound	ď	(Coffmar East	n-Pico bound	Rd	
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Anal	ysis Fron	n 07:00	AM to 1	1:45 AM -	Peak 1	of 1	-				-				-		
Peak Hour for E	ntire Inte	rsectior	n Begins	at 08:00	AM												
08:00 AM	0	11	0	11	0	0	0	0	0	3	0	3	0	0	1	1	15
08:15 AM	0	12	0	12	0	0	0	0	1	8	0	9	0	0	1	1	22
08:30 AM	0	8	0	8	0	0	0	0	1	10	0	11	1	0	1	2	21
08:45 AM	0	5	0	5	0	0	0	0	0	10	0	10	1	0	3	4	19
Total Volume	0	36	0	36	0	0	0	0	2	31	0	33	2	0	6	8	77
% App. Total	0	100	0		0	0	0		6.1	93.9	0		25	0	75		
PHF	.000	.750	.000	.750	.000	.000	.000	.000	.500	.775	.000	.750	.500	.000	.500	.500	.875



File Name : Rosemead_Coffman-Pico_2-Axle Site Code : 00000000 Start Date : 3/9/2021 Page No : 3

	I	Rosem South	ead Bly Ibound	/d	Rose	mead B R West	Blvd (Fr d) bound	ontage		Rosem North	ead Blv Ibound	/d	(Coffmai East	n-Pico I bound	۲d	
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Anal	ysis Fror	n 12:00	PM to 0)5:45 PM -	Peak 1	of 1											
Peak Hour for E	ntire Inte	rsectior	n Begins	s at 04:30	PM												
04:30 PM	0	5	0	5	0	0	0	0	0	5	0	5	0	0	0	0	10
04:45 PM	0	3	0	3	0	0	0	0	0	2	0	2	0	0	0	0	5
05:00 PM	0	4	0	4	0	0	0	0	0	5	0	5	0	0	0	0	9
05:15 PM	0	7	0	7	0	0	0	0	0	6	0	6	0	0	0	0	13
Total Volume	0	19	0	19	0	0	0	0	0	18	0	18	0	0	0	0	37
% App. Total	0	100	0		0	0	0		0	100	0		0	0	0		
PHF	.000	.679	.000	.679	.000	.000	.000	.000	.000	.750	.000	.750	.000	.000	.000	.000	.712



File Name : Rosemead_Coffman-Pico_3-Axle Site Code : 00000000

Start Date : 3/9/2021

Page No : 1

ιι	Jaie	•	J/ J/ ZUZ I	
ρ	No	•	1	

Groups Printed- 3 Axle Rosemead Blvd (Frontage **Rosemead Blvd** Rosemead Blvd Coffman-Pico Rd Rd) Southbound Northbound Eastbound Westbound Thru Thru Right Right Left Thru Right Right Int. Total Start Time Left Left Thru Left 07:00 AM 07:15 AM 07:30 AM 07:45 AM Total 08:00 AM 08:15 AM 08:30 AM 08:45 AM Total 04:00 PM 04:15 PM 04:30 PM 04:45 PM Total 05:00 PM 05:15 PM 05:30 PM Total Grand Total Apprch % Total % 56.1 43.9

File Name : Rosemead_Coffman-Pico_3-Axle Site Code : 00000000 Start Date : 3/9/2021 Page No : 2

	I	Rosem South	ead Blv Ibound	d	Rose	mead B R West	lvd (Fr d) bound	ontage		Rosem North	ead Blv bound	′d	(Coffmai East	n-Pico I bound	٦d	
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Anal	ysis Fror	n 07:00	AM to 1	1:45 AM -	Peak 1	of 1	-				-				-		
Peak Hour for E	ntire Inte	rsectior	n Begins	at 08:00	AM												
08:00 AM	0	2	0	2	0	0	0	0	0	3	0	3	0	0	0	0	5
08:15 AM	0	2	0	2	0	0	0	0	0	3	0	3	0	0	0	0	5
08:30 AM	0	3	0	3	0	0	0	0	0	3	0	3	0	0	0	0	6
08:45 AM	0	3	0	3	0	0	0	0	0	2	0	2	0	0	0	0	5
Total Volume	0	10	0	10	0	0	0	0	0	11	0	11	0	0	0	0	21
% App. Total	0	100	0		0	0	0		0	100	0		0	0	0		
PHF	.000	.833	.000	.833	.000	.000	.000	.000	.000	.917	.000	.917	.000	.000	.000	.000	.875



File Name : Rosemead_Coffman-Pico_3-Axle Site Code : 00000000 Start Date : 3/9/2021 Page No : 3

	I	Rosem South	ead Bly bound	/d	Rose	mead B R West	Blvd (Fr d) bound	ontage		Rosem North	ead Blv bound	′d	(Coffmai East	n-Pico I bound	۲d	
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Anal	ysis Fror	n 12:00	PM to 0)5:45 PM -	Peak 1	of 1											
Peak Hour for E	ntire Inte	rsectior	n Begins	s at 04:00	PM												
04:00 PM	0	4	0	4	0	0	0	0	0	2	0	2	0	0	0	0	6
04:15 PM	0	3	0	3	0	0	0	0	0	1	0	1	0	0	0	0	4
04:30 PM	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	2
04:45 PM	0	2	0	2	0	0	0	0	0	3	0	3	0	0	0	0	5
Total Volume	0	9	0	9	0	0	0	0	0	8	0	8	0	0	0	0	17
% App. Total	0	100	0		0	0	0		0	100	0		0	0	0		
PHF	.000	.563	.000	.563	.000	.000	.000	.000	.000	.667	.000	.667	.000	.000	.000	.000	.708



File Name : Rosemead_Coffman-Pico_4+Axles Site Code : 00000000

Start Date : 3/9/2021

					Groups	Printed-	4+ Axles						
	Ros So	emead Bly outhbound	/d	Rosemea	d Blvd (Fr Rd) estbound	ontage	Rose No	emead Bly orthbound	vd	Coffn Ea	nan-Pico I Istbound	Rd	
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Int. Total
07:00 AM	0	3	0	0	0	0	0	2	0	0	0	0	5
07:15 AM	0	4	0	0	0	0	0	4	0	0	0	0	8
07:30 AM	0	2	0	0	0	0	0	2	0	0	0	0	4
07:45 AM	0	5	0	0	0	0	0	3	0	0	0	0	8
Total	0	14	0	0	0	0	0	11	0	0	0	0	25
08:00 AM	0	1	0	0	0	0	0	0	0	0	0	0	1
08:15 AM	0	1	0	0	0	0	0	3	0	0	0	0	4
08:30 AM	0	3	0	0	0	0	0	5	0	0	0	0	8
08:45 AM	0	1	0	0	0	0	0	3	0	0	0	0	4
Total	0	6	0	0	0	0	0	11	0	0	0	0	17
				1		1						1	
04:00 PM	0	4	0	0	0	0	0	0	0	0	0	0	4
04:15 PM	0	3	0	0	0	0	0	2	0	0	0	0	5
04:30 PM	0	1	0	0	0	0	0	4	0	0	0	0	5
04:45 PM	0		0	0	0	0	0	0	0	0	0	0	1
Iotal	0	9	0	0	0	0	0	6	0	0	0	0	15
05:00 PM	0	0	0	0	0	0	0	4	0	0	0	0	4
05:15 PM	0	2	0	0	0	0	0	2	0	0	0	0	4
05:30 PM	0	1	0	0	0	0	0	1	0	0	0	0	2
05:45 PM	0	4	0	0	0	0	0	2	0	0	0	0	6
Total	0	7	0	0	0	0	0	9	0	0	0	0	16
Grand Total	0	36	0	0	0	0	0	37	0	0	0	0	73
Apprch %	0	100	0	0	0	0	0	100	0	0	0	0	
Total %	0	49.3	0	0	0	0	0	50.7	0	0	0	0	

File Name : Rosemead_Coffman-Pico_4+Axles Site Code : 00000000 Start Date : 3/9/2021 Page No : 2

	I	Rosem South	ead Blv bound	ď	Rose	mead B R West	Blvd (Fr d) bound	ontage		Rosem North	ead Blv Ibound	ď	(Coffmar East	n-Pico I bound	Rd	
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analy	ysis Fron	n 07:00	AM to 1	1:45 AM -	Peak 1	of 1	-				-				-		
Peak Hour for E	ntire Inte	rsectior	Begins	at 07:00	AM												
07:00 AM	0	3	0	3	0	0	0	0	0	2	0	2	0	0	0	0	5
07:15 AM	0	4	0	4	0	0	0	0	0	4	0	4	0	0	0	0	8
07:30 AM	0	2	0	2	0	0	0	0	0	2	0	2	0	0	0	0	4
07:45 AM	0	5	0	5	0	0	0	0	0	3	0	3	0	0	0	0	8
Total Volume	0	14	0	14	0	0	0	0	0	11	0	11	0	0	0	0	25
% App. Total	0	100	0		0	0	0		0	100	0		0	0	0		
PHF	.000	.700	.000	.700	.000	.000	.000	.000	.000	.688	.000	.688	.000	.000	.000	.000	.781



File Name : Rosemead_Coffman-Pico_4+Axles Site Code : 00000000 Start Date : 3/9/2021 Page No : 3

		Rosem South	ead Blv bound	′d	Rose	mead B R West	lvd (Fr d) bound	ontage		Rosem North	ead Blv bound	′d	(Coffmar East	n-Pico I bound	₹d	
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Anal	ysis Fror	n 12:00	PM to C	5:45 PM -	Peak 1	of 1											
Peak Hour for E	ntire Inte	ersectior	Begins	at 05:00	PM												
05:00 PM	0	0	0	0	0	0	0	0	0	4	0	4	0	0	0	0	4
05:15 PM	0	2	0	2	0	0	0	0	0	2	0	2	0	0	0	0	4
05:30 PM	0	1	0	1	0	0	0	0	0	1	0	1	0	0	0	0	2
05:45 PM	0	4	0	4	0	0	0	0	0	2	0	2	0	0	0	0	6
Total Volume	0	7	0	7	0	0	0	0	0	9	0	9	0	0	0	0	16
% App. Total	0	100	0		0	0	0		0	100	0		0	0	0		
PHF	.000	.438	.000	.438	.000	.000	.000	.000	.000	.563	.000	.563	.000	.000	.000	.000	.667



File Name : Rosemead_Coffman-Pico_BP Site Code : 00000000

Start Date : 3/9/2021

			Gro	une Printed	- Bikos & P	i ayc i Iada	NO . I			
	Rosemead	Blvd	Rosemead	Blvd (Fronta	ge Rd)	Rosemea	d Blvd	Coffman-P	ico Rd	
	Southbo	und	W	estbound		Northbo	ound	Eastbou	und	
Start Time	Bikes	Peds	Bikes	Right	Peds	Bikes	Peds	Bikes	Peds	Int. Total
07:00 AM	0	2	0	0	1	0	0	1	1	5
07:15 AM	0	0	0	0	0	0	0	2	1	3
07:30 AM	0	1	1	0	0	0	0	0	1	3
07:45 AM	0	0	0	0	2	0	0	0	0	2
Total	0	3	1	0	3	0	0	3	3	13
08:15 AM	0	2	1	0	2	0	0	0	1	6
08:30 AM	0	0	0	0	0	0	0	0	1	1
08:45 AM	0	0	0	0	0	0	1	0	2	3
Total	0	2	1	0	2	0	1	0	4	10
04:00 PM	0	1	0	0	1	0	0	0	3	5
04:15 PM	0	7	0	0	1	0	0	0	2	10
04:30 PM	0	0	0	0	2	0	0	2	0	4
04:45 PM	0	0	0	0	0	0	0	1	1	2
Total	0	8	0	0	4	0	0	3	6	21
05:00 PM	0	0	1	0	3	0	0	0	0	4
05:15 PM	0	0	1	0	1	0	0	0	0	2
05:30 PM	0	0	0	0	2	0	0	0	0	2
Total	0	0	2	0	6	0	0	0	0	8
Grand Total	0	13	4	0	15	0	1	6	13	52
Apprch %	0	100	21.1	0	78.9	0	100	31.6	68.4	
Total %	0	25	7.7	0	28.8	0	1.9	11.5	25	

File Name : Rosemead_Coffman-Pico_BP Site Code : 0000000 Start Date : 3/9/2021 Page No : 2

	Ros Se	semead outhbou	Blvd Ind	Rosen	nead Blvo Westl	d (Front bound	age Rd)	Ro: N	semead Iorthbou	Blvd nd	Cof	fman-Pio Eastboui	co Rd nd	
Start Time	Bikes	Peds	App. Total	Total Bikes Right Peds App. Total Bikes Peds App. Total Bi AM - Peak 1 of 1 7:00 AM 1 1 0 <td>Bikes</td> <td>Peds</td> <td>App. Total</td> <td>Int. Total</td>						Bikes	Peds	App. Total	Int. Total	
Peak Hour Analysis	s From 07	:00 AM to	o 11:45 AM	- Peak 1 o	of 1									
Peak Hour for Entir	e Intersec	tion Begi	ns at 07:00	AM										
07:00 AM	0	2	2	0	0	1	1	0	0	0	1	1	2	5
07:15 AM	0	0	0	0	0	0	0	0	0	0	2	1	3	3
07:30 AM	0	1	1	1	0	0	1	0	0	0	0	1	1	3
07:45 AM	0	0	0	0	0	2	2	0	0	0	0	0	0	2
Total Volume	0	3	3	1	0	3	4	0	0	0	3	3	6	13
% App. Total	0	100		25	0	75		0	0		50	50		
PHF	.000	.375	.375	.250	.000	.375	.500	.000	.000	.000	.375	.750	.500	.650



File Name : Rosemead_Coffman-Pico_BP Site Code : 00000000 Start Date : 3/9/2021 Page No : 3

	Ro S	semead outhbou	Blvd nd	Rosen	nead Blvo Westk	d (Fronta bound	age Rd)	Ros	semead orthbou	Blvd nd	Cof	fman-Pic Eastboui	o Rd nd		
Start Time	Bikes	Peds	App. Total	Bikes	Right	Peds	App. Total	Bikes	Peds	App. Total	Eastbound al Bikes Peds App. Total Int. 0 0 3 3				
Peak Hour Analysis	s From 12	:00 PM to	05:45 PM	- Peak 1 c	of 1										
Peak Hour for Entir	e Intersed	tion Begi	ns at 04:00	PM											
04:00 PM	0	1	1	0	0	1	1	0	0	0	0	3	3	5	
04:15 PM	0	7	7	0	0	1	1	0	0	0	0	2	2	10	
04:30 PM	0	0	0	0	0	2	2	0	0	0	2	0	2	4	
04:45 PM	0	0	0	0	0	0	0	0	0	0	1	1	2	2	
Total Volume	0	8	8	0	0	4	4	0	0	0	3	6	9	21	
% App. Total	0	100		0	0	100		0	0		33.3	66.7			
PHF	.000	.286	.286	.000	.000	.500	.500	.000	.000	.000	.375	.500	.750	.525	



File Name : Rosemead_Washington_Passenger Site Code : 0000000

Start Date : 3/9/2021

					Groups	Printed-	Passenger						
	Ros	emead Blv	vd	Wash	ington Bl	vd	Ros	emead Blv	/d	Wash	nington B	vd	
	So	uthbound	I	We	estbound		No	orthbound		Ea	astbound		
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Int. Total
07:00 AM	29	107	17	30	182	15	22	48	9	13	106	8	586
07:15 AM	29	112	24	34	193	10	13	42	6	14	85	15	577
07:30 AM	36	132	28	47	247	18	12	69	5	15	125	13	747
07:45 AM	26	126	26	45	189	15	19	73	16	22	112	27	696
Total	120	477	95	156	811	58	66	232	36	64	428	63	2606
08.00 AM	34	112	17	38	161	8	21	45	14	14	136	21	621
08:15 AM	26	106	21	34	158	16	20	68	13	16	88	15	581
08:30 AM	34	98	20	31	159	20	15	45	9	25	87	22	565
08:45 AM	31	100	24	33	148	19	19	63	23	26	102	24	612
Total	125	416	82	136	626	63	75	221	59	81	413	82	2379
04:00 PM	23	141	26	43	141	23	19	166	41	45	192	29	889
04:15 PM	28	126	33	38	159	32	28	154	29	59	203	25	914
04:30 PM	31	145	26	41	154	28	39	160	41	50	242	38	995
 04:45 PM	23	144	30	46	173	34	27	149	38	49	230	41	984
Total	105	556	115	168	627	117	113	629	149	203	867	133	3782
05:00 PM	33	149	34	44	156	48	20	128	41	63	230	49	995
05:15 PM	26	186	20	3/	154	50	20	1/0	28	74	200	40	1001
05:30 PM	40	154	18	56	150	44	27	125	20	53	246	40 58	1001
05:45 PM	40	188	14	40	127	39	34	104	25	76	196	61	945
 Total	140	677	95	174	587	181	103	506	127	266	873	216	3945
, otar	110	011	00		001		100	000		200	0.0	210	0010
Grand Total	490	2126	387	634	2651	419	357	1588	371	614	2581	494	12712
Apprch %	16.3	70.8	12.9	17.1	71.6	11.3	15.4	68.6	16	16.6	70	13.4	
Total %	3.9	16.7	3	5	20.9	3.3	2.8	12.5	2.9	4.8	20.3	3.9	

File Name : Rosemead_Washington_Passenger Site Code : 00000000 Start Date : 3/9/2021 Page No : 2

	I	Roseme South	ead Blv	ď	v	Vashin West	gton Bl [.] bound	vd		Rosem North	ead Blv bound	d	١	Washin East	gton Bl bound	vd	
Start Time	Left	Thru	Right	App. Total	Left	Left Thru Right App. Total Peak 1 of 1					Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Anal	ysis Fron	n 07:00	AM to 1	1:45 AM -	Peak 1	of 1									-		
Peak Hour for E	ntire Inte	rsection	Begins	at 07:30	AM												
07:30 AM	36	132	28	196	47	247	18	312	12	69	5	86	15	125	13	153	747
07:45 AM	26	126	26	178	45	189	15	249	19	73	16	108	22	112	27	161	696
08:00 AM	34	112	17	163	38	161	8	207	21	45	14	80	14	136	21	171	621
08:15 AM	26	106	21	153	34	158	16	208	20	68	13	101	16	88	15	119	581
Total Volume	122	476	92	690	164	755	57	976	72	255	48	375	67	461	76	604	2645
% App. Total	17.7	69	13.3		16.8	77.4	5.8		19.2	68	12.8		11.1	76.3	12.6		
PHF	.847	.902	.821	.880	.872	.764	.792	.782	.857	.873	.750	.868	.761	.847	.704	.883	.885



File Name : Rosemead_Washington_Passenger Site Code : 00000000 Start Date : 3/9/2021 Page No : 3

		Roseme South	ead Blv bound	'd	V	Vashin West	gton Bl bound	vd		Rosem North	ead Blv	′d	V	Vashin East	gton Bl bound	vd	
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analy	ysis Fror	n 12:00	PM to 0	5:45 PM -	Peak 1	of 1											
Peak Hour for E	ntire Inte	ersection	Begins	at 04:45	PM												
04:45 PM	23	144	30	197	46	173	34	253	27	149	38	214	49	230	41	320	984
05:00 PM	33	149	34	216	44	156	48	248	20	128	41	189	63	230	49	342	995
05:15 PM	26	186	29	241	34	154	50	238	22	149	28	199	74	201	48	323	1001
05:30 PM	40	154	18	212	56	150	44	250	27	125	33	185	53	246	58	357	1004
Total Volume	122	633	111	866	180	633	176	989	96	551	140	787	239	907	196	1342	3984
% App. Total	14.1	73.1	12.8		18.2	64	17.8		12.2	70	17.8		17.8	67.6	14.6		
PHF	.763	.851	.816	.898	.804	.915	.880	.977	.889	.924	.854	.919	.807	.922	.845	.940	.992



File Name : Rosemead_Washington_Buses Site Code : 00000000 Start Date : 3/9/2021

								agen	0.1				
					Group	s Printed	- Buses						
	Ros	emead Bly	vd	Wash	nington Bl	vd	Ros	emead Bly	vd	Wash	ington Bl	vd	
	Sc	outhbound	I	W	estbound		No	orthbound		Ea	stbound		
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Int. Total
07:00 AM	0	1	0	0	0	0	0	1	0	0	1	0	3
07:15 AM	0	4	0	0	1	0	0	2	0	0	3	0	10
07:30 AM	0	1	0	0	1	1	0	2	2	0	0	0	7
07:45 AM	0	0	0	0	0	0	0	1	0	0	2	0	3
Total	0	6	0	0	2	1	0	6	2	0	6	0	23
08:00 AM	0	1	0	0	0	0	0	1	0	0	0	0	2
08:15 AM	0	2	0	0	1	0	0	1	0	0	0	1	5
08:30 AM	0	2	0	0	1	0	0	0	0	0	1	0	4
08:45 AM	0	0	0	2	0	0	0	0	0	0	2	0	4
lotal	0	5	0	2	2	0	0	2	0	0	3	1	15
04:00 PM	0	1	0	0	2	0	0	1	0	0	1	0	5
04:15 PM	0	1	0	0	0	0	0	2	0	0	0	0	3
04:30 PM	0	3	0	0	0	0	0	1	0	0	1	0	5
04:45 PM	0	5	0	0	1	0	0	2	0	0	1	0	9
Total	0	10	0	0	3	0	0	6	0	0	3	0	22
05·00 PM	0	3	0	0	1	0	0	2	0	0	2	0	8
05:15 PM	Ő	3	0	Ő	1	Ő	0	0	ő	0 0	2	0	6
05:30 PM	Ő	4	Ő	Ő	O	Ő	0	õ	õ	Ő	0	0	4
05:45 PM	Ő	3	0	Ő	1	õ	Õ	2	ő	0	1	0	7
Total	0	13	0	0	3	0	0	4	0	0	5	0	25
Grand Total	0	34	0	2	10	1	0	18	2	0	17	1	85
Apprch %	0	100	0	15.4	76.9	7.7	0	90	10	0	94.4	5.6	
Total %	0	40	0	2.4	11.8	1.2	0	21.2	2.4	0	20	1.2	

File Name : Rosemead_Washington_Buses Site Code : 00000000 Start Date : 3/9/2021 Page No : 2

		Roseme	ad Blv	d	v	Vashin	gton Bl	vd		Rosem	ead Blv	d	V	Vashing	gton Bl	vd	
		South	bound			west	bouna			North	Douna			East	bouna		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Anal	ysis Fror	n 07:00	AM to 1	1:45 AM -	Peak 1	of 1	-				-						
Peak Hour for E	ntire Inte	rsection	Begins	at 07:00	AM												
07:00 AM	0	1	0	1	0	0	0	0	0	1	0	1	0	1	0	1	3
07:15 AM	0	4	0	4	0	1	0	1	0	2	0	2	0	3	0	3	10
07:30 AM	0	1	0	1	0	1	1	2	0	2	2	4	0	0	0	0	7
07:45 AM	0	0	0	0	0	0	0	0	0	1	0	1	0	2	0	2	3
Total Volume	0	6	0	6	0	2	1	3	0	6	2	8	0	6	0	6	23
% App. Total	0	100	0		0	66.7	33.3		0	75	25		0	100	0		
PHF	.000	.375	.000	.375	.000	.500	.250	.375	.000	.750	.250	.500	.000	.500	.000	.500	.575



File Name : Rosemead_Washington_Buses Site Code : 00000000 Start Date : 3/9/2021 Page No : 3

		Roseme South	ead Blv bound	d	V	Vashin West	gton Bl bound	vd		Rosem North	ead Blv bound	ď	V	Vashin East	gton Bl bound	vd	
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analy	ysis Fror	n 12:00	PM to 0	5:45 PM -	Peak 1	of 1									-		
Peak Hour for E	ntire Inte	rsection	Begins	at 04:30	PM												
04:30 PM	0	3	0	3	0	0	0	0	0	1	0	1	0	1	0	1	5
04:45 PM	0	5	0	5	0	1	0	1	0	2	0	2	0	1	0	1	9
05:00 PM	0	3	0	3	0	1	0	1	0	2	0	2	0	2	0	2	8
05:15 PM	0	3	0	3	0	1	0	1	0	0	0	0	0	2	0	2	6
Total Volume	0	14	0	14	0	3	0	3	0	5	0	5	0	6	0	6	28
% App. Total	0	100	0		0	100	0		0	100	0		0	100	0		
PHF	.000	.700	.000	.700	.000	.750	.000	.750	.000	.625	.000	.625	.000	.750	.000	.750	.778



File Name : Rosemead_Washington_Motorcycles Site Code : 00000000

Start Date : 3/9/2021

					Groups P	rinted- M	lotorcycle	S					
	Ros Sc	emead Bly outhbound	/d	Wash We	ington Bl	vd	Ros	emead Bly orthbound	vd	Wash Ea	ington Blv stbound	/d	
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Int. Total
07:15 AM	0	1	0	0	0	0	0	0	0	0	0	0	1
07:45 AM	0	1	0	0	0	0	0	0	0	0	0	0	1
Total	0	2	0	0	0	0	0	0	0	0	0	0	2
08:00 AM	0	2	0	0	1	0	0	0	0	0	0	0	3
08:15 AM	0	0	0	0	1	0	0	0	0	0	0	0	1
08:30 AM	0	0	0	0	0	0	0	1	0	0	0	0	1
08:45 AM	0	0	0	0	1	0	0	0	0	0	0	0	1
Total	0	2	0	0	3	0	0	1	0	0	0	0	6
04:15 PM	0	0	0	0	2	0	0	0	0	1	1	0	4
04.30 T M		0	0	0	1	0	0	0	0	0	0	1	2
Total	i 0	0	0	0	3	0	0	0	0	1	2	1	7
05:15 PM	0	0	0	0	0	0	0	1	0	0	0	0	1
05:30 PM	l 0	0	0	0	0	0	0	1	0	0	0	0	1
05:45 PM	0	1	0	0	1	0	0	0	0	0	0	0	2
Total	0	1	0	0	1	0	0	2	0	0	0	0	4
Grand Total	0	5	0	0	7	0	0	3 100	0	1 25	2	1	19
Total %		26.3	0	0	36.8	0	0	15.8	0	53	10.5	53	
		20.0	0	0	00.0	0	0	.0.0	0	5.0	. 5.0	5.0	

File Name : Rosemead_Washington_Motorcycles Site Code : 0000000 Start Date : 3/9/2021 Page No : 2

	l	Roseme	ead Blv	d	V	Vashin	gton Bly	vd		Rosem	ead Blv	d	V	Washing East	gton Bl	vd	
	1.0	Journ	Dound			west	Dunu			NOTU	Dunu			Easi	Dound		
Start Time	Left	I hru	Right	App. Total	Left	Thru	Right	App. Total	Left	I hru	Right	App. Total	Left	Ihru	Right	App. Total	Int. Total
Peak Hour Analy	ysis Fror	n 07:00	AM to 1	1:45 AM -	Peak 1	of 1											
Peak Hour for E	ntire Inte	rsection	Begins	at 07:45	AM												
07:45 AM	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
08:00 AM	0	2	0	2	0	1	0	1	0	0	0	0	0	0	0	0	3
08:15 AM	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1
08:30 AM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1
Total Volume	0	3	0	3	0	2	0	2	0	1	0	1	0	0	0	0	6
% App. Total	0	100	0		0	100	0		0	100	0		0	0	0		
PHF	.000	.375	.000	.375	.000	.500	.000	.500	.000	.250	.000	.250	.000	.000	.000	.000	.500



File Name : Rosemead_Washington_Motorcycles Site Code : 0000000 Start Date : 3/9/2021 Page No : 3

	F	Roseme South	ead Blvo bound	d	V	Vashing West	gton Bl ^y bound	vd		Rosem North	ead Blv bound	d	V	Vashin East	gton Bl ^y bound	vd	
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Anal	ysis Fron	n 12:00	PM to 0	5:45 PM -	Peak 1	of 1					-						
Peak Hour for E	ntire Inte	rsection	Begins	at 04:00	PM												
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	2	0	2	0	0	0	0	1	1	0	2	4
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
04:45 PM	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1	1	2
Total Volume	0	0	0	0	0	3	0	3	0	0	0	0	1	2	1	4	7
% App. Total	0	0	0		0	100	0		0	0	0		25	50	25		
PHF	.000	.000	.000	.000	.000	.375	.000	.375	.000	.000	.000	.000	.250	.500	.250	.500	.438



File Name : Rosemead_Washington_2-Axle Site Code : 00000000 Start Date : 3/9/2021

					Group	s Printed-	- 2 Axle						
	Rose	emead Blv	/d	Wash	ington Bl	vd	Rose	mead Blv	/d	Wash	ington Bl	vd	
	So	uthbound		We	stbound		No	rthbound		Ea	stbound		
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Int. Total
07:00 AM	0	4	1	1	2	2	0	4	1	0	4	0	19
07:15 AM	3	4	1	0	2	0	1	1	0	1	7	2	22
07:30 AM	3	10	3	0	5	0	0	6	0	1	7	1	36
07:45 AM	1	2	2	0	8	1	1	4	1	0	4	0	24
Total	7	20	7	1	17	3	2	15	2	2	22	3	101
08:00 AM	2	7	2	1	2	1	0	2	2	0	6	0	25
08:15 AM	4	5	3	Ó	6	2	1	6	1	Õ	8	1	37
08:30 AM	2	5	2	3	3	1	1	6	2	5	9	0	39
08:45 AM	1	5	2	1	4	2	2	7	0	1	4	0	29
Total	9	22	9	5	15	6	4	21	5	6	27	1	130
04:00 PM	1	3	0	0	5	0	0	3	0	0	5	1	18
04:15 PM	2	4	2	1	3	2	2	2	1	0	3	1	23
04:30 PM	2	2	0	0	4	2	0	2	2	1	5	0	20
04:45 PM	0	2	0	3	4	0	0	2	0	0	5	0	16
Total	5	11	2	4	16	4	2	9	3	1	18	2	77
05:00 PM	0	3	0	1	3	0	0	3	0	1	6	0	17
05:15 PM	1	4	2	2	0	0	0	4	0	1	2	0	16
05:30 PM	0	2	0	1	2	0	1	3	2	2	1	1	15
05:45 PM	1	3	0	1	2	0	0	3	1	0	4	1	16
Total	2	12	2	5	7	0	1	13	3	4	13	2	64
Grand Total	23	65	20	15	55	13	9	58	13	13	80	8	372
Apprch %	21.3	60.2	18.5	18.1	66.3	15.7	11.2	72.5	16.2	12.9	79.2	7.9	
Total %	6.2	17.5	5.4	4	14.8	3.5	2.4	15.6	3.5	3.5	21.5	2.2	

File Name : Rosemead_Washington_2-Axle Site Code : 00000000 Start Date : 3/9/2021 Page No : 2

	I	Roseme South	ead Blv	'd	V	Vashing West	gton Bl ^y bound	vd		Rosem North	ead Blv bound	d	V	Washin East	gton Bl [.] bound	vd	
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Anal	ysis Fron	n 07:00	AM to 1	1:45 AM -	Peak 1	of 1	-				-				-		
Peak Hour for E	ntire Inte	rsection	Begins	at 08:00	AM												
08:00 AM	2	7	2	11	1	2	1	4	0	2	2	4	0	6	0	6	25
08:15 AM	4	5	3	12	0	6	2	8	1	6	1	8	0	8	1	9	37
08:30 AM	2	5	2	9	3	3	1	7	1	6	2	9	5	9	0	14	39
08:45 AM	1	5	2	8	1	4	2	7	2	7	0	9	1	4	0	5	29
Total Volume	9	22	9	40	5	15	6	26	4	21	5	30	6	27	1	34	130
% App. Total	22.5	55	22.5		19.2	57.7	23.1		13.3	70	16.7		17.6	79.4	2.9		
PHF	.563	.786	.750	.833	.417	.625	.750	.813	.500	.750	.625	.833	.300	.750	.250	.607	.833



File Name : Rosemead_Washington_2-Axle Site Code : 00000000 Start Date : 3/9/2021 Page No : 3

		Roseme South	ead Blvo bound	d	V	Vashing West	gton Bl bound	vd		Rosem North	ead Blv bound	ď	V	Vashin East	gton Bl bound	vd	
Start Time	Left	Thru	Right	App. Total	Left	Left Thru Right App. Total L eak 1 of 1					Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analy	ysis Fror	n 12:00	PM to 05	5:45 PM -	Peak 1	of 1									-		
Peak Hour for E	ntire Inte	rsection	Begins	at 04:00	PM												
04:00 PM	1	3	0	4	0	5	0	5	0	3	0	3	0	5	1	6	18
04:15 PM	2	4	2	8	1	3	2	6	2	2	1	5	0	3	1	4	23
04:30 PM	2	2	0	4	0	4	2	6	0	2	2	4	1	5	0	6	20
04:45 PM	0	2	0	2	3	4	0	7	0	2	0	2	0	5	0	5	16
Total Volume	5	11	2	18	4	16	4	24	2	9	3	14	1	18	2	21	77
% App. Total	27.8	61.1	11.1		16.7	66.7	16.7		14.3	64.3	21.4		4.8	85.7	9.5		
PHF	.625	.688	.250	.563	.333	.800	.500	.857	.250	.750	.375	.700	.250	.900	.500	.875	.837



File Name : Rosemead_Washington_3-Axle Site Code : 00000000 Start Date : 3/9/2021

					Group	s Printeg	I- 3 Axle						
	Ros	emead Blv	/d	Wash	ington B	vd	Ros	emead Bly	vd	Wash	ington Bl	vd	
	So	uthbound		We	estbound		No	orthbound		Ea	stbound		
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Int. Total
07:00 AM	0	3	0	0	3	0	0	0	0	0	0	0	6
07:15 AM	0	2	0	0	2	0	0	2	0	0	1	0	7
07:30 AM	0	3	0	0	1	0	0	1	0	0	3	0	8
07:45 AM	0	1	0	0	1	0	0	2	0	0	6	0	10
Total	0	9	0	0	7	0	0	5	0	0	10	0	31
08.00 01	1	1	0	0	1	0	0	1	0	2	4		10
08:15 AM	0	1	1	0	ו כ	0	0	0	0	2	4	0	10
08.30 AM	0	1	2	1	2	0	0	1	1	4	2	0	14
08:45 AM	1	ו 2	2	1	0	1	0	0		1	4	0	14
Total	2	5	5	2	6	1	0	2	1	8	13	0	45
1 otai	2	Ū	0	2	Ū	• •	Ŭ	2	• •	Ū	10	0	-10
04:00 BM	0	2	2	0	2		2	0		2	1	0	11
04.00 PM	0	2	2	0	2	0	2	0	0	2	1	0	11
04:15 PM	0	3	0	0	2	0	0	0	0	1	1	0	/
04:30 PIN	0	0		0	3	0	2	1	0	1	0	0	8
U4:45 PIM	0	<u> </u>	- 0	0	10	0	0	2	0		2	0	10
Total	0	/	3	0	12	0	4	3	0	4	3	0	30
05:00 PM	0	0	1	0	4	0	1	0	0	0	0	0	6
05:15 PM	0	1	0	0	3	0	0	0	0	0	0	0	4
05:30 PM	0	1	0	0	2	0	0	0	0	0	1	0	4
05:45 PM	0	1	0	0	3	0	0	0	0	0	5	0	9
Total	0	3	1	0	12	0	1	0	0	0	6	0	23
Crond Total	2	24	0	2	27	4	F	10	4	10	22		105
	ے 5 7	24 69 6	25.7	2	02 F	25	21 2	10 62 5	6.2	27.2	32 72 7	0	135
Appich %	5./ 1 F	00.0 17.0	20.7	5 1 E	92.0 07.4	2.5	31.Z	02.3 7 4	0.2	21.3	12.1	0	
Total %	1.5	17.8	6.7	1.5	27.4	0.7	3.7	7.4	0.7	8.9	23.7	0	

File Name : Rosemead_Washington_3-Axle Site Code : 00000000 Start Date : 3/9/2021 Page No : 2

		Roseme South	ead Blv	d	v	Vashin West	gton Bly bound	vd		Rosem North	ead Blv	d	V	Washing Fast	gton Bl	vd	
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Anal	ysis Fror	n 07:00	AM to 1	1:45 AM -	Peak 1	of 1					-				-		
Peak Hour for E	ntire Inte	ersection	Begins	at 08:00	AM												
08:00 AM	1	1	0	2	0	1	0	1	0	1	0	1	2	4	0	6	10
08:15 AM	0	1	1	2	0	2	0	2	0	0	0	0	4	2	0	6	10
08:30 AM	0	1	2	3	1	3	0	4	0	1	1	2	1	4	0	5	14
08:45 AM	1	2	2	5	1	0	1	2	0	0	0	0	1	3	0	4	11
Total Volume	2	5	5	12	2	6	1	9	0	2	1	3	8	13	0	21	45
% App. Total	16.7	41.7	41.7		22.2	66.7	11.1		0	66.7	33.3		38.1	61.9	0		
PHF	.500	.625	.625	.600	.500	.500	.250	.563	.000	.500	.250	.375	.500	.813	.000	.875	.804



File Name : Rosemead_Washington_3-Axle Site Code : 00000000 Start Date : 3/9/2021 Page No : 3

		Roseme South	ead Blvo bound	d	۷	Vashing West	gton Bl bound	vd		Rosem North	ead Blv bound	ď	V	Vashin East	gton Bl bound	vd	
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Anal	ysis Fron	n 12:00	PM to 08	5:45 PM -	Peak 1	of 1									-		
Peak Hour for E	ntire Inte	rsection	Begins	at 04:00	PM												
04:00 PM	0	2	2	4	0	2	0	2	2	0	0	2	2	1	0	3	11
04:15 PM	0	3	0	3	0	2	0	2	0	0	0	0	1	1	0	2	7
04:30 PM	0	0	1	1	0	3	0	3	2	1	0	3	1	0	0	1	8
04:45 PM	0	2	0	2	0	5	0	5	0	2	0	2	0	1	0	1	10
Total Volume	0	7	3	10	0	12	0	12	4	3	0	7	4	3	0	7	36
% App. Total	0	70	30		0	100	0		57.1	42.9	0		57.1	42.9	0		
PHF	.000	.583	.375	.625	.000	.600	.000	.600	.500	.375	.000	.583	.500	.750	.000	.583	.818



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File Name : Rosemead_Washington_4+Axles Site Code : 00000000 Start Date : 3/9/2021

Pag

					Groups	s Printed	+ 4+ AXIES						
	Ros	emead Bly	vd	Was	hington B	lvd	Ros	semead B	lvd	Was	hington B	lvd	
	So	outhbound	1	N	lestbound	1	N	orthbound	d b	E	astbound		
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Int. Total
07:00 AM	0	1	2	2	12	1	0	0	1	1	11	2	33
07:15 AM	2	1	1	1	11	3	0	0	0	1	17	0	37
07:30 AM	0	0	2	0	10	0	0	1	0	1	11	0	25
07:45 AM	0	3	2	0	12	1	0	1	1	1	18	1	40
Total	2	5	7	3	45	5	0	2	2	4	57	3	135
08:00 AM	0	0	1	1	10	0	0	0	0	0	7	1	20
08:15 AM	0	1	1	2	7	1	0	2	0	0	15	1	30
08:30 AM	0	2	2	2	7	2	0	3	1	0	17	0	36
08:45 AM	0	0	1	0	8	1	1	1	0	1	10	2	25
Total	0	3	5	5	32	4	1	6	1	1	49	4	111
04:00 PM	0	2	2	4	6	0	1	0	2	0	7	0	24
04:15 PM	0	1	2	2	7	0	0	1	0	1	8	0	22
04:30 PM	0	1	1	0	5	1	0	2	2	2	7	1	22
04:45 PM	0	1	0	1	9	0	0	0	0	0	8	0	19
Total	0	5	5	7	27	1	1	3	4	3	30	1	87
05:00 PM	0	0	1	1	8	1	0	2	0	1	5	0	19
05:15 PM	0	3	0	1	9	0	0	1	0	1	6	1	22
05:30 PM	0	0	1	1	4	0	1	3	0	1	2	0	13
05:45 PM	0	1	3	1	3	0	0	0	1	2	4	0	15
Total	0	4	5	4	24	1	1	6	1	5	17	1	69
Grand Total	2	17	22	19	128	11	3	17	8	13	153	9	402
Apprch %	4.9	41.5	53.7	12	81	7	10.7	60.7	28.6	7.4	87.4	5.1	
Total %	0.5	4.2	5.5	4.7	31.8	2.7	0.7	4.2	2	3.2	38.1	2.2	

File Name : Rosemead_Washington_4+Axles Site Code : 00000000 Start Date : 3/9/2021 Page No : 2

		Roseme South	ead Blv	ď	v	Vashin West	gton Bl [.] bound	vd		Rosem North	ead Blv	ď	١	Vashin Fast	gton Bl	vd	
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Anal	ysis Fror	n 07:00	AM to 1	1:45 AM -	Peak 1	of 1											
Peak Hour for E	ntire Inte	ersection	Begins	at 07:00	AM												
07:00 AM	0	1	2	3	2	12	1	15	0	0	1	1	1	11	2	14	33
07:15 AM	2	1	1	4	1	11	3	15	0	0	0	0	1	17	0	18	37
07:30 AM	0	0	2	2	0	10	0	10	0	1	0	1	1	11	0	12	25
07:45 AM	0	3	2	5	0	12	1	13	0	1	1	2	1	18	1	20	40
Total Volume	2	5	7	14	3	45	5	53	0	2	2	4	4	57	3	64	135
% App. Total	14.3	35.7	50		5.7	84.9	9.4		0	50	50		6.2	89.1	4.7		
PHF	.250	.417	.875	.700	.375	.938	.417	.883	.000	.500	.500	.500	1.00	.792	.375	.800	.844



File Name : Rosemead_Washington_4+Axles Site Code : 00000000 Start Date : 3/9/2021 Page No : 3

	F	Roseme South	ad Blvo bound	d	V	Vashing West	gton Bl ^y bound	vd		Rosem North	ead Blv bound	d	V	Vashing East	gton Bl bound	vd	
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Anal	ysis Fron	n 12:00	PM to 0	5:45 PM -	Peak 1	of 1					-				-		
Peak Hour for E	ntire Inte	rsection	Begins	at 04:00	PM												
04:00 PM	0	2	2	4	4	6	0	10	1	0	2	3	0	7	0	7	24
04:15 PM	0	1	2	3	2	7	0	9	0	1	0	1	1	8	0	9	22
04:30 PM	0	1	1	2	0	5	1	6	0	2	2	4	2	7	1	10	22
04:45 PM	0	1	0	1	1	9	0	10	0	0	0	0	0	8	0	8	19
Total Volume	0	5	5	10	7	27	1	35	1	3	4	8	3	30	1	34	87
% App. Total	0	50	50		20	77.1	2.9		12.5	37.5	50		8.8	88.2	2.9		
PHF	.000	.625	.625	.625	.438	.750	.250	.875	.250	.375	.500	.500	.375	.938	.250	.850	.906



File Name : Rosemead_Washington_BP Site Code : 00000000

Start Date : 3/9/2021

			Groups P	rinted- Bikes	s & Peds	gono	• •		
	Rosemead	Blvd	Washington	Blvd	Rosemead	Blvd	Washingtor	Blvd	
	Southbou	Ind	Westbou	nd	Northbou	Ind	Eastbou	nd	
Start Time	Bikes	Peds	Bikes	Peds	Bikes	Peds	Bikes	Peds	Int. Total
07:00 AM	0	2	0	2	0	1	1	3	9
07:15 AM	1	1	0	3	0	1	2	3	11
07:30 AM	1	2	1	5	1	3	0	3	16
07:45 AM	0	5	0	4	0	5	0	2	16
Total	2	10	1	14	1	10	3	11	52
08:00 AM	0	4	0	3	1	3	0	2	13
08:15 AM	1	5	1	6	1	4	1	4	23
08:30 AM	0	2	0	6	0	5	0	2	15
08:45 AM	0	5	1	4	1	5	0	3	19
Total	1	16	2	19	3	17	1	11	70
04:00 PM	0	5	0	10	1	6	0	4	26
04:15 PM	0	5	0	6	0	6	0	3	20
04:30 PM	1	3	1	10	0	4	2	0	21
04:45 PM	0	5	0	12	1	5	1	3	27_
Total	1	18	1	38	2	21	3	10	94
05:00 PM	1	13	0	15	1	8	0	4	42
05:15 PM	1	11	2	9	0	6	1	3	33
05:30 PM	1	7	0	7	1	7	1	3	27
05:45 PM	0	5	0	11	0	6	0	2	24
Total	3	36	2	42	2	27	2	12	126
Grand Total	7	80	6	113	8	75	9	44	342
Apprch %	8	92	5	95	9.6	90.4	17	83	
Total %	2	23.4	1.8	33	2.3	21.9	2.6	12.9	

File Name : Rosemead_Washington_BP Site Code : 00000000 Start Date : 3/9/2021 Page No : 2

	Ros S	semead outhbou	Blvd nd	Wa:	shington Vestbou	Blvd nd	Ro N	semead Iorthbou	Blvd nd	Wa	shington Eastboui	Blvd nd	
Start Time	Bikes	Peds	App. Total	Bikes	Peds	App. Total	Bikes	Peds	App. Total	Bikes	Peds	App. Total	Int. Total
Peak Hour Analysis	From 07:00	0 AM to 1	1:45 AM - P	eak 1 of 1									
Peak Hour for Entire	Intersection	on Begins	at 08:00 AM	Λ									
08:00 AM	0	4	4	0	3	3	1	3	4	0	2	2	13
08:15 AM	1	5	6	1	6	7	1	4	5	1	4	5	23
08:30 AM	0	2	2	0	6	6	0	5	5	0	2	2	15
08:45 AM	0	5	5	1	4	5	1	5	6	0	3	3	19
Total Volume	1	16	17	2	19	21	3	17	20	1	11	12	70
% App. Total	5.9	94.1		9.5	90.5		15	85		8.3	91.7		
PHF	.250	.800	.708	.500	.792	.750	.750	.850	.833	.250	.688	.600	.761



File Name : Rosemead_Washington_BP Site Code : 00000000 Start Date : 3/9/2021 Page No : 3

	Ro	osemead Southbou	Blvd Ind	Wa	shingtor Westbou	n Blvd nd	Ro	osemead Northbou	Blvd nd	Wa	shington Eastbour	Blvd nd	
Start Time	Bikes	Peds	App. Total	Bikes	Peds	App. Total	Bikes	Peds	App. Total	Bikes	Peds	App. Total	Int. Total
Peak Hour Analysis	From 12	:00 PM to	05:45 PM -	Peak 1 of	1								
Peak Hour for Entire	e Intersec	tion Begii	ns at 04:45 F	PM									
04:45 PM	0	5	5	0	12	12	1	5	6	1	3	4	27
05:00 PM	1	13	14	0	15	15	1	8	9	0	4	4	42
05:15 PM	1	11	12	2	9	11	0	6	6	1	3	4	33
05:30 PM	1	7	8	0	7	7	1	7	8	1	3	4	27
Total Volume	3	36	39	2	43	45	3	26	29	3	13	16	129
% App. Total	7.7	92.3		4.4	95.6		10.3	89.7		18.8	81.2		
PHF	.750	.692	.696	.250	.717	.750	.750	.813	.806	.750	.813	1.00	.768



Rosemead Blvd Btwn Washington Blvd & Whittier Blvd

Start	09-Mar-21	North	neast	Hour	Totals	South	nwest	Hour	Totals	Combine	d Totals
Time	Tue	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00		31	219	-		26	181	-		-	
12:15		34	225			19	220				
12:30		20	212			18	202				
12:45		24	217	109	873	11	189	74	792	183	1665
01:00		16	208	100	010	9	206	1-1	102	100	1000
01:00		10	200			5	200				
01.13		12	212			11	204				
01.30		10	200	61	050		197	25	000	00	1000
01:45		17	233	61	853	9	195	35	802	96	1655
02:00		14	242			15	224				
02:15		16	262			0	193				
02:30		13	254			10	221				
02:45		8	242	51	1000	15	224	40	862	91	1862
03:00		10	263			9	220				
03:15		5	221			10	213				
03:30		24	294			19	222				
03:45		17	288	56	1066	20	250	58	905	114	1971
04:00		16	285			16	260				
04.15		13	288			38	206				
04:30		23	305			45	246				
04:45		20	204	01	1162	40	240	117	060	220	2122
04.43		29	204	01	1102	40	240	147	900	220	2122
05.00		42	313			47	239				
05:15		40	348			60	240				
05:30		59	303			75	254				
05:45		79	323	226	1289	121	242	308	975	534	2264
06:00		76	318			97	209				
06:15		69	250			107	218				
06:30		76	256			149	214				
06:45		103	254	324	1078	124	165	477	806	801	1884
07:00		99	211			172	165				
07:15		120	198			178	169				
07:30		143	159			229	126				
07:45		134	189	496	757	179	107	758	567	1254	1324
08.00		111	166			186	117			.20.	
08:15		136	130			161	106				
08:30		144	112			160	90				
08:45		136	121	527	520	161	80	677	402	1204	031
00.40		150	121	527	529	101	09	077	402	1204	931
09.00		104	112			129	00				
09.15		140	99			147	C0				
09:30		123	99	044	100	141	63	500	00.4	4404	00.4
09:45		1/6	90	611	400	163	60	580	294	1191	694
10:00		152	89			149	54				
10:15		176	52			159	46				
10:30		174	59			171	29				
10:45		165	52	667	252	167	30	646	159	1313	411
11:00		181	73			152	30				
11:15		143	43			235	26				
11:30		190	41			231	26				
11:45		211	44	725	201	235	26	853	108	1578	309
Total		3934	9460			4653	7632			8587	17092
Percent		29.4%	70.6%			37.9%	62.1%			33.4%	66.6%
Grand											
Total		3934	9460			4653	7632			8587	17092
Percent		29.4%	70.6%			37.9%	62.1%			33.4%	66 6%
i crociit		20.770	10.070			01.070	02.170			00.770	00.070
ADT	А	DT 25,679	AA	DT 25,679							
				, -							

Washington Blvd Btwn Rosemead Blvd & Paramount Blvd

Chard	00 14 01		+		-+-1-	10/-	-1	L La con 1	T-+-1-	Cambina	-l T-t-l-
Start	09-IVIar-21	Eas	SI AG	Houri	otais	VVE	est	Hour	Totals	Compine	d Totals
1 ime	Tue	Norning	Atternoon	Norning	Atternoon	Morning	Atternoon	Morning	Atternoon	Norning	Atternoon
12:00		94	377			70	242				
12:15		70	326			45	224				
12:30		61	375	070	1110	44	229	044	0.47	407	0000
12:45		51	365	276	1443	52	252	211	947	487	2390
01:00		59	383			25	274				
01:15		61	375			50	259				
01:30		67	397	0.40	1505	29	248		10.17		0500
01:45		56	380	243	1535	45	266	149	1047	392	2582
02:00		63	411			61	224				
02:15		60	441			66	237				
02:30		25	466	100	10.17	57	238		074	100	0704
02:45		45	499	193	1817	45	275	229	974	422	2791
03:00		44	476			50	237				
03:15		51	397			74	258				
03:30		63	458			94	247				
03:45		60	494	218	1825	119	278	337	1020	555	2845
04:00		102	462			84	232				
04:15		99	509			102	278				
04:30		112	510			151	265				
04:45		113	571	426	2052	183	264	520	1039	946	3091
05:00		113	489			158	247				
05:15		130	520			231	241				
05:30		183	576			287	280				
05:45		150	482	576	2067	355	242	1031	1010	1607	3077
06:00		188	444			269	284				
06:15		188	449			340	242				
06:30		226	428			286	294				
06:45		214	447	816	1768	365	289	1260	1109	2076	2877
07:00		242	383			312	259				
07:15		262	348			380	190				
07:30		275	300			352	172				
07:45		318	269	1097	1300	355	173	1399	794	2496	2094
08:00		275	274			268	166				
08:15		261	267			278	142				
08:30		277	238			258	152				
08:45		277	183	1090	962	251	147	1055	607	2145	1569
09:00		280	172			199	179				
09:15		247	171			203	131				
09:30		253	147			194	111				
09:45		257	146	1037	636	209	122	805	543	1842	1179
10:00		327	167			202	152				
10:15		243	155			230	91				
10:30		328	122			212	107				
10:45		359	119	1257	563	222	85	866	435	2123	998
11:00		310	125			199	76				
11:15		330	105			244	69				
11:30		342	96			225	63				
11:45		395	100	1377	426	232	78	900	286	2277	712
Total		8606	16394			8762	9811			17368	26205
Percent		34.4%	65.6%			47.2%	52.8%			39.9%	60.1%
Grand		8606	16394			8762	9811			17368	26205
Total		0000	10004			0,02					20200
Percent		34.4%	65.6%			47.2%	52.8%			39.9%	60.1%
ADT	A	DT 43,573	AA	DT 43,573							

AADT 43,573

File Name : ProjectDriveway_Washington Site Code : 00000000 Start Date : 9/1/2021

F

|--|--|

					Groups	Printed	- Vehicles	i ugo		•			
	Proje	ect Drivew	/ay	Washington Blvd			Shopping	Center D	riveway	Wash			
	So	Southbound			Westbound			Northbound			Eastbound		
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Int. Total
07:00 AM	0	0	8	0	319	1	0	0	2	8	155	0	493
07:15 AM	0	0	11	0	312	3	0	0	4	16	201	1	548
07:30 AM	0	0	10	0	322	2	0	0	3	3	251	1	592
07:45 AM	0	0	9	0	306	1	0	0	0	18	261	1	596
Total	0	0	38	0	1259	7	0	0	9	45	868	3	2229
08:00 AM	0	1	9	0	376	5	0	0	5	14	203	1	614
08:15 AM	0	0	8	0	306	5	0	0	4	20	217	1	561
08:30 AM	0	0	10	0	278	6	0	0	8	20	169	1	492
08:45 AM	0	0	9	0	282	3	0	0	8	17	175	2	496
Total	0	1	36	0	1242	19	0	0	25	71	764	5	2163
	1						1		1				
04:00 PM	0	1	15	0	256	8	0	0	26	26	401	6	739
04:15 PM	0	0	11	0	234	6	0	1	18	29	328	5	632
04:30 PM	0	0	15	0	312	2	0	0	21	31	374	3	758
04:45 PM	0	0	15	0	257	2	0	1	29	19	365	6	694
Total	0	1	56	0	1059	18	0	2	94	105	1468	20	2823
05:00 PM	0	0	21	0	274	3	0	0	23	24	450	9	804
05:15 PM	0	0	16	0	255	5	0	0	26	34	409	15	760
05:30 PM	0	0	11	0	253	1	0	0	17	16	417	8	723
05:45 PM	0	0	14	0	223	1	0	0	14	30	372	7	661
Total	0	0	62	0	1005	10	0	0	80	104	1648	39	2948
Grand Total	0	2	192	0	4565	54	0	2	208	325	4748	67	10163
Apprch %	0	1	99	0	98.8	1.2	0	1	99	6.3	92.4	1.3	
Total %	0	0	1.9	0	44.9	0.5	0	0	2	3.2	46.7	0.7	

File Name : ProjectDriveway_Washington Site Code : 0000000 Start Date : 9/1/2021 Page No : 2

	Project Driveway				Washington Blvd				Shopping Center Driveway				V				
	Southbound				Westbound				Northbound								
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	0	0	10	10	0	322	2	324	0	0	3	3	3	251	1	255	592
07:45 AM	0	0	9	9	0	306	1	307	0	0	0	0	18	261	1	280	596
08:00 AM	0	1	9	10	0	376	5	381	0	0	5	5	14	203	1	218	614
08:15 AM	0	0	8	8	0	306	5	311	0	0	4	4	20	217	1	238	561
Total Volume	0	1	36	37	0	1310	13	1323	0	0	12	12	55	932	4	991	2363
% App. Total	0	2.7	97.3		0	99	1		0	0	100		5.5	94	0.4		
PHF	.000	.250	.900	.925	.000	.871	.650	.868	.000	.000	.600	.600	.688	.893	1.00	.885	.962


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File Name : ProjectDriveway_Washington Site Code : 00000000 Start Date : 9/1/2021 Page No : 3

	P	Project Driveway Southbound			١	Vashin West	gton Bl	vd	Shopp	oing Ce North	enter Dr	iveway	Washington Blvd Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Left Thru Right App. Total			Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Anal	ysis Fron	n 04:00	PM to 0	5:45 PM -	Peak 1	of 1	-				-				-		
Peak Hour for E	, ntire Inte	rsection	Begins	at 04:30	PM												
04:30 PM	0	0	15	15	0	312	2	314	0	0	21	21	31	374	3	408	758
04:45 PM	0	0	15	15	0	257	2	259	0	1	29	30	19	365	6	390	694
05:00 PM	0	0	21	21	0	274	3	277	0	0	23	23	24	450	9	483	804
05:15 PM	0	0	16	16	0	255	5	260	0	0	26	26	34	409	15	458	760
Total Volume	0	0	67	67	0	1098	12	1110	0	1	99	100	108	1598	33	1739	3016
% App. Total	0	0	100		0	98.9	1.1		0	1	99		6.2	91.9	1.9		
PHF	.000	.000	.798	.798	.000	.880	.600	.884	.000	.250	.853	.833	.794	.888	.550	.900	.938



File Name	: ProjectDriveway_Washington_BP
Site Code	: 0000000
Start Date	: 9/1/2021

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•	age	••	
P	eds		

Groups Printed- Bikes & Peds Design Definition of the Shopping Center													
	Project D Southb	riveway oound	Washingt Westb	ton Blvd ound	Shoppin Drive Northl	g Center eway bound	Washing Eastb	ton Blvd ound					
Start Time	Bikes	Peds	Bikes	Peds	Bikes	Peds	Bikes	Peds	Int. Total				
07:00 AM	1	0	0	0	0	1	0	1	3				
07:15 AM	2	1	0	0	0	0	0	0	3				
07:30 AM	0	1	0	0	1	1	0	0	3				
07:45 AM	2	1	0	0	1	2	0	0	6				
Total	5	3	0	0	2	4	0	1	15				
08:00 AM	1	2	0	0	1	2	0	1	7				
08:15 AM	0	1	0	0	0	0	0	0	1				
08:30 AM	0	1	0	0	0	1	0	0	2				
08:45 AM	1	4	0	1	1	1	0	0	8				
Total	2	8	0	1	2	4	0	1	18				
04:00 PM	2	2	0	0	0	9	1	0	14				
04:15 PM	3	4	0	1	0	12	0	0	20				
04:30 PM	1	3	0	0	0	6	0	0	10				
04:45 PM	3	0	0	0	0	24	0	0	27				
Total	9	9	0	1	0	51	1	0	71				
05:00 PM	0	2	0	0	0	12	0	0	14				
05:15 PM	1	3	0	1	0	16	0	0	21				
05:30 PM	0	1	0	0	0	12	0	1	14				
05:45 PM	0	1	0	0	0	12	0	0	13				
Total	1	7	0	1	0	52	0	1	62				
Grand Total	17	27	0	3	4	111	1	3	166				
Apprch %	38.6	61.4	0	100	3.5	96.5	25	75					
Total %	10.2	16.3	0	1.8	2.4	66.9	0.6	1.8					

File Name : ProjectDriveway_Washington_BP Site Code : 00000000 Start Date : 9/1/2021 Page No : 2

	Proj S	ject Driv outhbou	eway Ind	Washington Blvd Westbound			Shoppin N	ig Center Iorthbou	Driveway nd	Wa	Blvd nd		
Start Time	Bikes	Peds	App. Total	Bikes	Peds	App. Total	Bikes	Peds	App. Total	Bikes	Peds	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1													
Peak Hour for Entire	e Intersectio	tersection Begins at 07:15 AM											
07:15 AM	2	1	3	0	0	0	0	0	0	0	0	0	3
07:30 AM	0	1	1	0	0	0	1	1	2	0	0	0	3
07:45 AM	2	1	3	0	0	0	1	2	3	0	0	0	6
08:00 AM	1	2	3	0	0	0	1	2	3	0	1	1	7
Total Volume	5	5	10	0	0	0	3	5	8	0	1	1	19
% App. Total	50	50		0	0		37.5	62.5		0	100		
PHF	.625	.625	.833	.000	.000	.000	.750	.625	.667	.000	.250	.250	.679



File Name : ProjectDriveway_Washington_BP Site Code : 00000000 Start Date : 9/1/2021 Page No : 3

	Pro	oject Driv Southbou	eway Ind	Wa	shingtor Nestbou	n Blvd Ind	Shoppir	ng Center Driveway Washington Blvd Northbound Eastbound					
Start Time	Bikes	Peds	App. Total	Bikes	Peds	App. Total	Bikes	Peds	App. Total	Bikes	Peds	App. Total	Int. Total
Peak Hour Analysis	From 04	:00 PM to	05:45 PM -	Peak 1 of	1								
Peak Hour for Entire	e Intersec	tion Begins at 04:45 PM											
04:45 PM	3	Ō	3	0	0	0	0	24	24	0	0	0	27
05:00 PM	0	2	2	0	0	0	0	12	12	0	0	0	14
05:15 PM	1	3	4	0	1	1	0	16	16	0	0	0	21
05:30 PM	0	1	1	0	0	0	0	12	12	0	1	1	14
Total Volume	4	6	10	0	1	1	0	64	64	0	1	1	76
% App. Total	40	60		0	100		0	100		0	100		
PHF	.333	.500	.625	.000	.250	.250	.000	.667	.667	.000	.250	.250	.704



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File Name : Rosemead_TheMarketplaceDriveway Site Code : 00000000

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	Groups Printed- venicles												
	Ros	emead Bly	vd				Ros	emead Bly	vd	The Marke	etplace Dr	riveway	
	Sc	outhbound		w	estbound		N	orthbound		Ea	astbound		
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Int. Total
07:00 AM	0	169	4	0	0	0	2	111	0	10	0	9	305
07:15 AM	0	203	14	0	0	0	0	128	0	11	0	10	366
07:30 AM	0	260	13	0	0	0	2	216	0	9	0	9	509
07:45 AM	0	282	12	0	0	0	4	232	0	10	0	5	545
Total	0	914	43	0	0	0	8	687	0	40	0	33	1725
08:00 AM	0	234	12	0	0	0	5	212	0	12	0	6	481
08:15 AM	0	196	16	0	0	0	7	137	0	15	0	13	384
08:30 AM	0	176	16	0	0	0	5	164	0	6	0	10	377
08:45 AM	0	163	16	0	0	0	0	154	0	14	0	14	361
Total	0	769	60	0	0	0	17	667	0	47	0	43	1603
04:00 PM	0	280	16	0	0	0	5	256	0	28	0	9	594
04:15 PM	0	251	17	0	0	0	6	251	0	19	0	20	564
04:30 PM	0	289	16	0	0	0	8	249	0	17	0	19	598
04:45 PM	0	285	23	0	0	0	16	260	0	31	0	13	628
Total	0	1105	72	0	0	0	35	1016	0	95	0	61	2384
05:00 PM	0	299	21	0	0	0	9	264	0	24	0	17	634
05:15 PM	0	264	18	0	0	0	11	269	0	19	0	24	605
05:30 PM	0	276	28	0	0	0	3	263	0	24	0	22	616
05:45 PM	0	256	24	0	0	0	8	261	0	25	0	21	595
Total	0	1095	91	0	0	0	31	1057	0	92	0	84	2450
Grand Total	0	3883	266	0	0	0	91	3427	0	274	0	221	8162
Apprch %	0	93.6	6.4	0	0	0	2.6	97.4	0	55.4	0	44.6	
Total %	0	47.6	3.3	0	0	0	1.1	42	0	3.4	0	2.7	

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File Name : Rosemead_TheMarketplaceDriveway Site Code : 0000000 Start Date : 9/1/2021 Page No : 2

	Rosemead Blvd									Rosem	ead Blv	d	The N	larketp	lace Dr	iveway	
		South	bound			West	bound			North	bound			East	bound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Anal	ysis Fror	n 07:00	AM to 0	8:45 AM -	Peak 1	of 1					-				-		
Peak Hour for E	ntire Inte	rsectior	n Begins	at 07:30	AM												
07:30 AM	0	260	13	273	0	0	0	0	2	216	0	218	9	0	9	18	509
07:45 AM	0	282	12	294	0	0	0	0	4	232	0	236	10	0	5	15	545
08:00 AM	0	234	12	246	0	0	0	0	5	212	0	217	12	0	6	18	481
08:15 AM	0	196	16	212	0	0	0	0	7	137	0	144	15	0	13	28	384
Total Volume	0	972	53	1025	0	0	0	0	18	797	0	815	46	0	33	79	1919
% App. Total	0	94.8	5.2		0	0	0		2.2	97.8	0		58.2	0	41.8		
PHF	.000	.862	.828	.872	.000	.000	.000	.000	.643	.859	.000	.863	.767	.000	.635	.705	.880



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		Rosemead Blvd								Rosem	ead Blv	d	The N	larketp	lace Dr	iveway	
		South	bound			Westbound				North	bound			East	bound	-	
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analy	ysis Fror	n 04:00	PM to 0	5:45 PM -	Peak 1	of 1											
Peak Hour for E	ntire Inte	ersection	Begins	at 04:45	PM												
04:45 PM	0	285	23	308	0	0	0	0	16	260	0	276	31	0	13	44	628
05:00 PM	0	299	21	320	0	0	0	0	9	264	0	273	24	0	17	41	634
05:15 PM	0	264	18	282	0	0	0	0	11	269	0	280	19	0	24	43	605
05:30 PM	0	276	28	304	0	0	0	0	3	263	0	266	24	0	22	46	616
Total Volume	0	1124	90	1214	0	0	0	0	39	1056	0	1095	98	0	76	174	2483
% App. Total	0	92.6	7.4		0	0	0		3.6	96.4	0		56.3	0	43.7		
PHF	.000	.940	.804	.948	.000	.000	.000	.000	.609	.981	.000	.978	.790	.000	.792	.946	.979



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File Name : Rosemead_TheMarketplaceDriveway_BP Site Code : 00000000 Start Date : 9/1/2021

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		0	
Groups	Printed-	Bikes	& Peds

	Rosemead Blvd Southbound		Westk	oound	Roseme Northk	ad Blvd bound	The Mark Drive Eastb	etplace way ound	
Start Time	Bikes	Peds	Bikes	Peds	Bikes	Peds	Bikes	Peds	Int. Total
						1		1	
07:15 AM	0	1	0	0	0	0	0	2	3
07:30 AM	0	0	0	1	0	0	3	2	6
07:45 AM	1	1	0	0	0	0	2	1	5
Total	1	2	0	1	0	0	5	5	14
08.00 AM	0	1	0	0	0	0	0	2	3
08:15 AM	0	2	0	0	0	0	1	3	6
08:30 AM	ů 0	2	Ő	0	0	0	0	2	4
08:45 AM	Ő	1	Ő	2	0	Ő	õ	2	5
Total	0	6	0	2	0	0	1	9	18
04:00 PM	1	2	0	0	0	0	0	1	4
04:15 PM	1	3	0	0	0	0	0	5	9
04:30 PM	0	3	0	0	0	0	0	2	5
04:45 PM	0	2	2	0	0	0	3	3	10
Total	2	10	2	0	0	0	3	11	28
05·00 PM	0	2	2	0	0	0	0	1	5
05:15 PM	Ő	3	0	3	0	0	õ	3	9
05:30 PM	0	2	0	õ	Ő	0	0	2	4
05:45 PM	0	2	0	1	0	0	0 0	0	3
Total	0	9	2	4	0	0	0	6	21
Grand Total	3	27	Л	7	0	0	0	21	Q1
Appreh %	10	27	36.4	63.6	0	0	9 22 5	77.5	01
Total %	37	33 3	/ 0	8.6	0	0	22.J 11 1	38.3	
	5.7	55.5	4.9	0.0	0	0		50.5	

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	Ros	semead	Blvd nd	N	Vestbou	nd	Ro	semead	Blvd nd	The Ma	rketplace Fastbou	Driveway	
Start Time	Bikes	Peds	App. Total	Bikes	Peds	App. Total	Bikes	Peds	App. Total	Bikes	Peds	App. Total	Int. Total
Peak Hour Analysis	From 07:00	O AM to O	8:45 AM - P	eak 1 of 1		•••			••			••	
Peak Hour for Entire	Intersectio	on Begins	at 07:30 AM	1									
07:30 AM	0	0	0	0	1	1	0	0	0	3	2	5	6
07:45 AM	1	1	2	0	0	0	0	0	0	2	1	3	5
08:00 AM	0	1	1	0	0	0	0	0	0	0	2	2	3
08:15 AM	0	2	2	0	0	0	0	0	0	1	3	4	6
Total Volume	1	4	5	0	1	1	0	0	0	6	8	14	20
% App. Total	20	80		0	100		0	0		42.9	57.1		
PHF	.250	.500	.625	.000	.250	.250	.000	.000	.000	.500	.667	.700	.833



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File Name : Rosemead_TheMarketplaceDriveway_BP Site Code : 00000000 Start Date : 9/1/2021 Page No : 3

	Ro	osemead Southbou	Blvd Ind		Westbou	nd	Ro	osemead Northbou	Blvd nd	The Ma	rketplace Eastbou	Driveway nd	
Start Time	Bikes	Peds	App. Total	Bikes	Peds	App. Total	Bikes	Peds	App. Total	Bikes	Peds	App. Total	Int. Total
Peak Hour Analysis	From 04	:00 PM to	05:45 PM -	Peak 1 of	1								
Peak Hour for Entir	e Intersec	tion Begir	ns at 04:15 F	РМ									
04:15 PM	1	3	4	0	0	0	0	0	0	0	5	5	9
04:30 PM	0	3	3	0	0	0	0	0	0	0	2	2	5
04:45 PM	0	2	2	2	0	2	0	0	0	3	3	6	10
05:00 PM	0	2	2	2	0	2	0	0	0	0	1	1	5
Total Volume	1	10	11	4	0	4	0	0	0	3	11	14	29
% App. Total	9.1	90.9		100	0		0	0		21.4	78.6		
PHF	.250	.833	.688	.500	.000	.500	.000	.000	.000	.250	.550	.583	.725



APPENDIX E

CAPCOA TDM STRATEGIES

VMT MITIGATION WORKSHEET

Handbook for Analyzing Greenhouse Gas Emission Reductions, Assessing Climate Vulnerabilities, and Advancing Health and Equity

Designed for Local Governments, Communities, and Project Developers



Handbook for Analyzing Greenhouse Gas Emission Reductions, Assessing Climate Vulnerabilities, and Advancing Health and Equity

> Designed for Local Governments, Communities, and Project Developers

> > Final Draft December 2021



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Figure 3-1. Navigation Trees for Quantitative GHG Reduction Measures

Transportation

LAND USE

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- T-1. Increase Residential Density
- T-2. Increase Job Density
- T-3. Provide Transit-Oriented Development
- O T-4. Integrate Affordable and Below Market Rate Housing
- O T-17. Improve Street Connectivity

TRIP REDUCTION PROGRAMS

- T-5. Implement Commute Trip Reduction Program (Voluntary)
- T-6. Implement Commute Trip Reduction Program (Mandatory Implementation and Monitoring)
- T-7. Implement Commute Trip Reduction Marketing
- T-8. Provide Ridesharing Program
- T-9. Implement Subsidized or Discounted Transit Program
- T-10. Provide End-of-Trip Bicycle Facilities
- T-11. Provide Employer-Sponsored Vanpool
- T-12. Price Workplace Parking
- T-13. Implement Employee Parking Cash-Out
- T-23. Provide Community-Based Travel Planning

PARKING OR ROAD PRICING/MANAGEMENT

- T-14. Provide Electric Vehicle Charging Infrastructure
- T-15. Limit Residential Parking Supply
- T-16. Unbundle Residential Parking Costs from Property Cost
- T-24. Implement Market Price Public Parking (On-Street)

NEIGHBORHOOD DESIGN

- O T-18. Provide Pedestrian Network Improvement
- O T-19-A. Construct or Improve Bike Facility
- O T-19-B. Construct or Improve Bike Boulevard
 - T-20. Expand Bikeway Network
- O T-21-A. Implement Conventional Carshare Program
- O T-21-B. Implement Electric Carshare Program
- O T-22-A. Implement Pedal (Non-Electric) Bikeshare Program
- O T-22-B. Implement Electric Bikeshare Program
 - T-22-C. Implement Scootershare Program

TRANSIT

0

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- O T-25. Extend Transit Network Coverage or Hours
- O T-26. Increase Transit Service Frequency
- O T-27. Implement Transit-Supportive Roadway Treatments
- O T-28. Provide Bus Rapid Transit
- O T-29. Reduce Transit Fares

CLEAN VEHICLES AND FUELS

T-30. Use Cleaner-Fuel Vehicles

Measure:	T-1		Increase Residential Density	
Utilized:	✓		Reduction Due to Increased Density	9.79%
			Baseline Assumed in Model	
			Min	0.8%
			Max	30.0%
			Number of Housing Units or Jobs per Acre [1]	6.161290323
			Unit	Number of Housing Units Per Acre
		А	Percent Increase in Housing Units or Jobs per Acre (not to exceed 500%)	N/A
		В	Elasticity of VMT with respect to density	N/A
			VMT Reduction = A x B	N/A
			VMT Reduction Utilized	N/A
			With Project Implementation	

	with Project implementation	
	Min	0.8%
	Max	30.0%
	Number of Housing Units or Jobs per Acre [2]	8.903225806
	Unit	Number of Housing Units Per Acre
A	Percent Increase in Housing Units or Jobs per Acre (not to exceed 500%)[3]	45%
В	Elasticity of VMT with respect to density	0.22
	VMT Reduction = A x B	9.79%
	VMT Reduction Utilized	9.79 %

[1] Based on number of housing units without the project and acreage of TAZ 21804400.

[2] Derived from number of housing units with the project and acreage of TAZ 21804400.

[3] Percentage increase in housing units per acre calculated based on housing units per acre

in TAZ 21804400 without and with the project.

Measure:	T-4		Integrate Affordable and Below Market Rate Housing	
Utilized:	\checkmark		Reduction Due to Affordable and Below Market Rate Housing	1.43%
			Baseline Assumed in Model	
			Min	0.00%
			Max	28.6%
		А	Percentage of Units in Project that are Deed-Restricted BMR Housing	0%
			VMT Reduction = 28.6% x A	0.00%
			VMT Reduction Utilized	0.00%
			With Project Implementation	
			Min	0.00%

	VMT Reduction Utilized	1.43%
	VMT Reduction = 28.6% x A	1.43%
А	Percentage of Units in Project that are Deed-Restricted BMR Housing	5%
	Max	28.6%
		0.0078

Measure: T-1	5 Limit Residential Parking Supply	
Utilized: 🗹	Reduction Due to Limiting Parking Supply	3.84%
	Baseline Assumed in Model	
	Min	0.0%
	Max	13.7%
	Residential Parking Demand	0
	Project Residential Parking Supply	0
	VMT Reduction	0.00%
	VMT Reduction Utilized	0.00%
	With Project Implementation	
	Min	0.0%
	Max	13.7%
	Residential Parking Demand	542
	Project Residential Parking Supply	390
	VMT Reduction	3.84%
	VMT Reduction Utilized	3.84%

APPENDIX F

ICU AND LEVELS OF SERVICE EXPLANATION ICU DATA WORKSHEETS – WEEKDAY AM AND PM PEAK HOURS

INTERSECTION CAPACITY UTILIZATION (ICU) DESCRIPTION

Level of Service is a term used to describe prevailing conditions and their effect on traffic. Broadly interpreted, the Levels of Service concept denotes any one of a number of differing combinations of operating conditions which may occur as a roadway is accommodating various traffic volumes. Level of Service is a qualitative measure of the effect of such factors as travel speed, travel time, traffic interruptions, freedom to maneuver, safety, driving comfort and convenience.

Six Levels of Service, A through F, have been defined in the 1965 *Highway Capacity Manual*, published by the Transportation Research Board. Level of Service A describes a condition of free flow, with low traffic volumes and relatively high speeds, while Level of Service F describes forced traffic flow at low speeds with jammed conditions and queues which cannot clear during the green phases.

The Intersection Capacity Utilization (ICU) method of intersection capacity analysis has been used in our studies. It directly relates traffic demand and available capacity for key intersection movements, regardless of present signal timing, The capacity per hour of green time for each approach is calculated based on the methods of the *Highway Capacity Manual*. The proportion of total signal time needed by each key movement is determined and compared to the total time available (100 percent of the hour). The result of summing the requirements of the conflicting key movements plus an allowance for clearance times is expressed as a decimal fraction. Conflicting key traffic movements are those opposing movements whose combined green time requirements are greatest.

The resulting ICU represents the proportion of the total hour required to accommodate intersection demand volumes if the key conflicting traffic movements are operating at capacity. Other movements may be operating near capacity, or may be operating at significantly better levels. The ICU may be translated to a Level of Service as tabulated below.

The Levels of Service (abbreviated from the *Highway Capacity Manual*) are listed here with their corresponding ICU and Load Factor equivalents. Load Factor is that proportion of the signal cycles during the peak hour which are fully loaded; i.e. when all of the vehicles waiting at the beginning of green are not able to clear on that green phase.

Intersect	tion Capacity Utilization Char	acteristics
Level of Service	Load Factor	Equivalent ICU
А	0.0	0.00 - 0.60
В	0.0 - 0.1	0.61 - 0.70
С	0.1 - 0.3	0.71 - 0.80
D	0.3 - 0.7	0.81 - 0.90
Е	0.7 - 1.0	0.91 - 1.00
F	Not Applicable	Not Applicable

SERVICE LEVEL A

There are no loaded cycles and few are even close to loaded at this service level. No approach phase is fully utilized by traffic and no vehicle waits longer than one red indication.

SERVICE LEVEL B

This level represents stable operation where an occasional approach phase is fully utilized and a substantial number are approaching full use. Many drivers begin to feel restricted within platoons of vehicles.

SERVICE LEVEL C

At this level stable operation continues. Loading is still intermittent but more frequent than at Level B. Occasionally drivers may have to wait through more than one red signal indication and backups may develop behind turning vehicles. Most drivers feel somewhat restricted, but not objectionably so.

SERVICE LEVEL D

This level encompasses a zone of increasing restriction approaching instability at the intersection. Delays to approaching vehicles may be substantial during short peaks within the peak hour, but enough cycles with lower demand occur to permit periodic clearance of queues, thus preventing excessive backups. Drivers frequently have to wait through more than one red signal. This level is the lower limit of acceptable operation to most drivers.

SERVICE LEVEL E

This represents near capacity and capacity operation. At capacity (ICU = 1.0) it represents the most vehicles that the particular intersection can accommodate. However, full utilization of every signal cycle is seldom attained no matter how great the demand. At this level all drivers wait through more than one red signal, and frequently through several.

SERVICE LEVEL F

Jammed conditions. Traffic backed up from a downstream location on one of the street restricts or prevents movement of traffic through the intersection under consideration.

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Paramount Boulevard Washington Boulevard The Mercury Project/1-21-4418-1 ICU1 N-S St: E-W St: Project: File:

INTERSECTION CAPACITY UTILIZATION

Paramount Boulevard @ Washington Boulevard Peak hr: AM Annual Growth: 1.00%

7/4/2022 2021 2024 Date: Existing Year: Projection Year:

01014777			21 EXISTING W/ PROJECT + MITIGATION 2024 FUTU						IRAFFIC 2021 EXISTING WITH PROJECT 2021 EXISTING W/ PROJECT + MITIGATION 2024 EUTU	21 EXISTING TRAFFIC 2021 EXISTING WITH PROJECT 2021 EXISTING W/ PROJECT + MITIGATION 2021 EXISTING W/ PROJECT + MITIGATION 2024 FUTU
3	V/C Amb. Gro	2 V/C Amb. Gro	Added ded Total 2 V/C Amb. Gro	V/C Added Total 2 V/C Amb. Gro	Added 201 2 V/C Added Total 2 V/C Amb. Gro	Total 2 V/C Added Total 2 V/C Amb. Gro	Added Total 2 V/C Amb. Gro	V/C Added Total 2 V/C Added Total 2 V/C Added Total 2 V/C Added	2 V/C Added Total 2 V/C Amb. Gro	1 2 V/C Added Total 2 V/C Added Total 2 V/C Added Total 2 V/C Added
	Ratio Volume	Capacity Ratio Volume	ume Volume Capacity Ratio Volume	Ratio Volume Volume Capacity Ratio Volume	Capacity Ratio Volume Capacity Ratio Volume	Nolume Capacity Ratio Volume Volume Capacity Ratio Volume	Volume Volume Capacity Ratio Volume Volume Capacity Ratio Volume	Ratio Volume Volume Capacity Ratio Volume Volume Capacity Ratio Volume	Capacity Ratio Volume Volume Capacity Ratio Volume Volume Capacity Ratio Volume	Volume Capacity Ratio Volume Volume Capacity Ratio Volume Volume Capacity Ratio Volume
9	0.074 *	: 2880 0.074 *	0 214 2880 0.074 *	0.074 * 0 214 2880 0.074 * 6	t 2880 0.074 * 0 214 2880 0.074 * 6	0 214 2880 0.074 * 0 214 2880 0.074 * 6	* 0 214 2880 0.074 * 0 214 2880 0.074 * 6	0.074 * 0 214 2880 0.074 * 0 214 2880 0.074 * 6	2880 0.074 * 0 214 2880 0.074 * 0 214 2880 0.074 * 6	214 2880 0.074 * 0 214 2880 0.074 * 0 214 2880 6.074 * 6
0	0.100 10	9 3200 0.100 10	0 319 3200 0.100 10	0.100 0 319 3200 0.100 10	3200 0.100 0 319 3200 0.100 10	0 319 3200 0.100 0 319 3200 0.100 10	0 319 3200 0.100 0 319 3200 0.100 10	0.100 0 319 3200 0.100 0 319 3200 0.100 10	3200 0.100 0 319 3200 0.100 0 319 3200 0.100 10	319 3200 0.100 0 319 3200 0.100 0 319 3200 0.100 10
33	0.070 3	2 1600 0.070 3	0 112 1600 0.070 3	0.070 0 112 1600 0.070 3	2 1600 0.070 0 112 1600 0.070 3	4 112 1600 0.070 0 112 1600 0.070 3	4 112 1600 0.070 0 112 1600 0.070 3	0.068 4 112 1600 0.070 0 112 1600 0.070 3	1600 0.068 4 112 1600 0.070 0 112 1600 0.070 3	108 1600 0.068 4 112 1600 0.070 0 112 1600 0.070 3
3	0.031 3	0 2880 0.031 3	0 90 2880 0.031 3	0.031 0 90 2880 0.031 3) 2880 0.031 0 90 2880 0.031 3	4 90 2880 0.031 0 90 2880 0.031 3	4 90 2880 0.031 0 90 2880 0.031 3	0.030 4 90 2880 0.031 0 90 2880 0.031 3	2880 0.030 4 90 2880 0.031 0 90 2880 0.031 3	86 2880 0.030 4 90 2880 0.031 0 90 2880 0.031 3
5	0.223 * 15	7 3200 0.223 * 15	0 497 3200 0.223 * 15	0.223 * 0 497 3200 0.223 * 15	7 3200 0.223 * 0 497 3200 0.223 * 15	0 497 3200 0.223 * 0 497 3200 0.223 * 15	* 0 497 3200 0.223 * 0 497 3200 0.223 * 15	0.223 * 0 497 3200 0.223 * 0 497 3200 0.223 * 15	3200 0.223 * 0 497 3200 0.223 * 0 497 3200 0.223 * 15	497 3200 0.223 * 0 497 3200 0.223 0 0 497 3200 0.223 * 15
7	0.000 7	3 0 0.000 7	0 218 0 0.000 7	0.000 0 218 0 0.000 7	3 0 0.000 0 218 0 0.000 7	0 218 0 0.000 0 218 0 0.000 7	0 218 0 0.000 0 218 0 0.000 7	0.000 0 218 0 0.000 0 218 0 0.000 7	0 0.000 0 218 0 0.000 0 218 0 0.000 7	218 0 0.000 0 218 0 0.000 7
e	0.065 3	1 1600 0.065 3	0 104 1600 0.065 3	0.065 0 104 1600 0.065 3	t 1600 0.065 0 104 1600 0.065 3	0 104 1600 0.065 0 104 1600 0.065 3	0 104 1600 0.065 0 104 1600 0.065 3	0.065 0 104 1600 0.065 0 104 1600 0.065 3	1600 0.065 0 104 1600 0.065 0 104 1600 0.065 3	104 1600 0.065 0 104 1600 0.065 0 104 1600 0.065 3
3	0.209 * 23	4800 0.209 * 23	0 757 4800 0.209 * 23	0.209 * 0 757 4800 0.209 * 23	7 4800 0.209 * 0 757 4800 0.209 * 23	0 757 4800 0.209 * 0 757 4800 0.209 * 23	* 10 757 4800 0.209 * 0 757 4800 0.209 * 23	0.207 * 10 757 4800 0.209 * 0 757 4800 0.209 * 23	4800 0.207 * 10 757 4800 0.209 * 0 757 4800 0.209 * 23	747 4800 0.207 * 10 757 4800 0.209 * 0 757 4800 0.209 * 23
7	0.000 7 3	5 0 0.000 7 3	0 245 0 0.000 7 3	0.000 0 245 0 0.000 7 3	5 0 0.000 0 245 0 0.000 7 3	0 245 0 0.000 0 245 0 0.000 7 3	0 245 0 0.000 0 245 0 0.000 7 3	0.000 0 245 0 0.000 0 245 0 0.000 7 3	0 0.000 0 245 0 0.000 0 245 0 0.000 7 3	245 0 0.000 0 245 0 0.000 0 245 0 0.000 7 3
4	0.086 * 4 4	3 1600 0.086 * 4 4	0 138 1600 0.086 * 4 4	0.086 * 0 138 1600 0.086 * 4 4	3 1600 0.086 * 0 138 1600 0.086 * 4 4	7 138 1600 0.086 * 0 138 1600 0.086 * 4 4	* 7 138 1600 0.086 * 0 138 1600 0.086 * 4 4	0.082 * 7 138 1600 0.086 * 0 138 1600 0.086 * 4 4	1600 0.082 * 7 138 1600 0.086 * 0 138 1600 0.086 * 4 4	131 1600 0.082 * 7 138 1600 0.086 * 0 138 1600 0.086 * 4 4
0	0.213 29	r 4800 0.213 29	0 977 4800 0.213 29	0.213 0 977 4800 0.213 29	7 4800 0.213 0 977 4800 0.213 29	8 977 4800 0.213 0 977 4800 0.213 29	18 977 4800 0.213 0 977 4800 0.213 29	0.208 18 977 4800 0.213 0 977 4800 0.213 29	4800 0.208 18 977 4800 0.213 0 977 4800 0.213 29	959 4800 0.208 18 977 4800 0.213 0 977 4800 0.213 29
-	0.000	0 0.000 1	0 46 0 0.000 1	0.000 0 46 0 0.000 1	0 0.000 0 46 0 0.000 1	7 46 0 0.000 0 46 0 0.000 1	7 46 0 0.000 0 46 0 0.000 1	0.000 7 46 0 0.000 0 46 0 0.000 1	0 0.000 7 46 0 0.000 0 46 0 0.000 1	39 0 0.000 7 46 0 0.000 0 46 0 0.000 1
	- - -									
	°. 150	0.150 °	0.150 [°]	° UCLOU ° UCLOU	° 0.150 °	° 0.150 °	° 0.150 °	° UCT-U ° UCT-U ° UCT-U ° UCT-U	- 061.0 · 061.0	5 0GL/0 5 0GL/0 5 0GL/0 5
	0.743	0.743	0.743	0.743 0.743	0.743 0.743	0.743 0.743	0.743 0.743	0.736 0.743 0.743	0.736 0.743 0.743	0.736 0.743 0.743
	O	O	. O	CO CO	C	0	0	0	0	0
	W/C Amead Amead (0.074 * Amead Amead (0.031 * 0.070 0.031 * volume (0.023 * 0.000 0.065 * 2 0.000 0.006 * 2 0.000 0.000 2 0.000 0.065 * 2 0.000 0.086 * 2 0.000 0.015 * 2 0.000 0.016 * 2 0.000 0.023 * 2 0.000 0.020 * 2 0.000 0.031 * 2 0.000 0.031 * 2 0.000 0.0100 2 0.000 0.0203 * 2 0.000 0.0203 * 2 0.000 0.015 * 2 0.015 * 0.015 * 2 0.015 * 0.015 * 2	2 V/C Andered Math. Group Capacity Ratio Volume 1 22880 0.074 * Volume 1 3200 0.070 Volume 1 1600 0.070 Volume 2 2880 0.031 Volume 2 2800 0.070 Volume 2 200 0.070 Volume 1 1600 0.023 × 1 1600 0.0209 × 1 1600 0.000 × 1 0 0.000 × 1 0 0.000 × × 0 0.000 133 × × 1 0 0.000 × × × 1 0 0.000 × × × 1 0 0.000 × × × 1 0 0.000 × × ×	ded Total 2 V/C Added ume Volume 2 V/C Antb. Ground 0 214 2880 0.0744 Volume 0 319 3200 0.100 Volume 0 319 3200 0.0744 Volume 0 319 3200 0.070 * 0 90 2880 0.031 * * 0 112 1600 0.005 * * * 0 218 0 0.000 * * * * 0 218 0 0.000 * * * * 0 160 0.0065 * 0 0 * * 0 138 1600 0.2096 * 0 * * 0 977 4800 0.000 * * 0 * 0 46 0 0	V/C Added Ratio Total Volume Z V/C Added Ratio Control Volume Control Ratio Control Volume Control Control C	2 V/C Added Total 2 V/C Added Added Total 2 V/C Added Added Y Y Added Y Added Y Y Added Y Y Added Y Added Y Added Y Added Y Y Added Y	Total 2 V/C Added Nolume Total 2 V/C Added Ratio Volume 2 V/C Added Ratio Total 2 V/C Added Ratio Total 2 V/C Added Ratio Total 2 V/C Added Volume Total 2 V/C Added 7 7 Added 7 Added 7 Added 7 Added 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	VIC Added Ratio Total Volume 2 2 V/C Added 2 Total Volume 2 2 V/C Added 2 Total Volume 2 2 V/C Added 2 Total 2 2 2 V/C Added 2 2	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	

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Paramount Boulevard Washington Boulevard The Mercury Project/1-21-4418-1 ICU1 N-S St: E-W St: Project: File:

INTERSECTION CAPACITY UTILIZATION

Paramount Boulevard @ Washington Boulevard Peak hr: PM Annual Growth: 1.00%

7/4/2022 2021 2024 Date: Existing Year: Projection Year:

2021 E.	STING TRAFF	0	20.	21 EXISTING	WITH PROJE	ECT	2021 EXIS	FING W/ PR	COLECT + MI	FIGATION	Added	2024 FUT	URE PRE-P	ROJECT		202	24 FUTURE	WITH PROJE	L.
:	1 2	V/C	Added	Total	2	V/C	Added	Total	2	VIC	Amb. Grow.	Rel. Proj.	Total	2	V/C	Added	Total	2	V/C
Movement	olume capac	ty Katio	volume	volume	Capacity	Katio	volume	Volume	Capacity	кацо	Volume	Volume	Volume	Capacity	Katio	volume	volume	Capacity	Katio
NR Left	341 28	30 0118 *	*	341	7880	0.118 *	C	341	2880	0.118 *	10	٣	35.4	2880	0 103 *	0	35.4	7880	0 103 *
NB Thru	734 320	00 0.229		734	3200	0.229	0 0	734	3200	0.229	22	, L	767	3200	0.240	0	767	3200	0.240
NB Right	146 16	00 0.091	œ	154	1600	0.096	0	154	1600	0.096	4	e	153	1600	0.096	8	161	1600	0.101
SB Left	180 28	30 0.063	Ø	188	2880	0.065	0	188	2880	0.065	5	7	192	2880	0.067	Ø	200	2880	0.069
SB Thru	613 32	00 0.237	•	613	3200	0.237 *	0	613	3200	0.237 *	19	11	643	3200	0.250 *	0	643	3200	0.250 *
SB Right	146	0 0.000	0	146	0	0.000	0	146	0	0.000	4	8	158	0	0.000	0	158	0	0.000
EB Left	185 16	00 0.116	0	185	1600	0.116	0	185	1600	0.116	9	7	198	1600	0.124	0	198	1600	0.124
EB Thru	1676 48	00 0.408	* 20	1696	4800	0.412 *	0	1696	4800	0.412 *	51	4	1731	4800	0.421 *	20	1751	4800	0.425 *
EB Right	281	00000	0	281	0	0.000	0	281	0	0.000	6	-	291	0	0.000	0	291	0	0.000
WB Left	118 16	00 0.074 *	2	123	1600	0.077 *	0	123	1600	0.077 *	4	0	122	1600	0.076 *	5	127	1600	0.079 *
WB Thru	785 48	00 0.188	14	299	4800	0.192	0	799	4800	0.192	24	4	813	4800	0.196	14	827	4800	0.200
WB Right	117	000.0	5	122	0	0.000	0	122	0	0.000	4	9	127	0	0.000	5	132	0	0.000
Yellow Allowance		0.150 *	*			0.150 *				0.150 *					0.150 *				0.150 *
ros Icu		0.987 E				0.994 E				0.994 E					1.021 F				1.028 F

INTERSECTION CAPACITY UTILIZATION

Crossway Drive @ Washington Boulevard Peak hr: AM Annual Growth: 1.00%

-S St: -W St: roject: ile:	Crossway Washingto The Mercu ICU2	Drive on Boulevaro Iry Project/1	d -21-4418-1					Peak hr: Annual Gro	wth:	AM 1.00%								Jate: Existing Ye∉ Projection Y	ear:	/4/2022 2021 2024
20	21 EXISTING	TRAFFIC		202	1 EXISTING	WITH PROJI	ECT	2021 EXIS	TING W/ PR	OJECT + MIT	TIGATION		2024 FUTL	JRE PRE-PR	OJECT		202	4 FUTURE V	ATH PROJEC	t.
Movement	1 Volume	2 Capacity	V/C Ratio	Added Volume	Total Volume	2 Capacity	V/C Ratio	Added Volume	Total Volume	2 Capacity	V/C Ratio	Added Amb. Grow. Volume	Added Rel. Proj. Volume	Total Volume	2 Capacity	V/C Ratio	Added Volume	Total Volume (2 Capacity	V/C Ratio
NB Left	37	C	0 023 *	C	37	c	0.023 *	C	37	c	0.023 *	-	C	38	c	0 024 *	C	38	C	0 024 *
NB Thru	. 2	1600	0.026	0	С	1600	0.026	0	С	1600	0.026	. 0	0	о С	1600	0.027	0	5	1600	0.027
NB Right	50	1600	0.031	0	50	1600	0.031	0	50	1600	0.031	2	0	52	1600	0.033	0	52	1600	0.033
SB Left	54	0	0.034	0	54	0	0.034	0	54	0	0.034	2	0	56	0	0.035	0	56	0	0.035
SB Thru	7	1600	0.046 *	0	7	1600	0.046 *	0	7	1600	0.046 *	0	0	7	1600	0.047 *	0	7	1600	0.047 *
SB Right	12	0	0.000	0	12	0	0.000	0	12	0	0.000	0	0	12	0	0.000	0	12	0	0.000
EB Left	15	1600	* 600.0	0	15	1600	* 600.0	0	15	1600	0.009 *	0	0	15	1600	* 600.0	0	15	1600	* 600.0
EB Thru	858	4800	0.179	18	876	4800	0.183	0	876	4800	0.183	26	80	892	4800	0.186	18	910	4800	0.190
EB Right	23	1600	0.014	0	23	1600	0.014	0	23	1600	0.014	-	0	24	1600	0.015	0	24	1600	0.015
WB Left	71	1600	0.044	11	82	1600	0.051	0	82	1600	0.051	2	0	73	1600	0.046	11	84	1600	0.053
WB Thru WB Right	1154 10	4800 0	0.243 * 0.000	32 0	1186 10	4800 0	0.249 * 0.000	00	1186 10	4800 0	0.249 * 0.000	35 0	13	1202 10	4800 0	0.253 * 0.000	32 0	1234 10	4800 0	0.259 * 0.000
Yellow Allowance	n		0.150 *				0.150 *				0.150 *					0.150 *				0.150 *
ros Los			0.471 A				0.477 A				0.477 A					0.483 A				0.489 A

INTERSECTION CAPACITY UTILIZATION

Crossway Drive @ Washington Boulevard Peak hr: PM Annual Growth: 1.00%

-S St: -W St: rroject: ile:	Crossway Washingto The Mercul ICU2	Drive n Boulevarc ry Project/1.	l -21-4418-1					Peak hr: Annual Gro	ţ ,	РМ 1.00%)ate: Existing Yea Projection Y	r: ear:	/4/2022 2021 2024
202		TRAFFIC		202	1 EXISTING	WITH PROJE	ECT	2021 EXIS	TING W/ PR	OJECT + MI	TIGATION		2024 FUTL	IRE PRE-PR	OJECT		202	4 FUTURE M	ITH PROJEC	F
	1 	2	VIC	Added	Total	2	VIC	Added	Total	2	V/C	Added Amb. Grow.	Added Rel. Proj.	Total	2	VIC	Added	Total	2	VIC
		Capacity	0.087			Capacity	0.007		001	Capacity	1000			0110	Capacity			2011		
NB Thru	37	1600	0.100		37	1600	0.110 *		37	1600	0.110 *	- , t		0 <u>4</u> 0	1600	0.113 *		5 <u>4</u> 0	0 1600	0.113 *
NB Right	133	1600	0.083	0	133	1600	0.083	0	133	1600	0.083	. 4	0	137	1600	0.086	0	137	1600	0.086
SB Left	69	0	0.043 *	0	69	0	0.043 *	0	69	0	0.043 *	2	0	71	0	0.044 *	0	71	0	0.044 *
SB Thru	16	1600	0.063	0	16	1600	0.063	0	16	1600	0.063	0	0	16	1600	0.064	0	16	1600	0.064
SB Right	16	0	0.000	0	16	0	0.000	0	16	0	0.000	0	0	16	0	0.000	0	16	0	0.000
EB Left	109	1600	0.068	0	109	1600	0.068	0	109	1600	0.068	ę	0	112	1600	0.070	0	112	1600	0.070
EB Thru	1469	4800	0.306 *	36	1505	4800	0.314 *	0	1505	4800	0.314 *	45	14	1528	4800	0.318 *	36	1564	4800	0.326 *
EB Right	61	1600	0.038	0	61	1600	0.038	0	61	1600	0.038	2	0	63	1600	0.039	0	63	1600	0.039
WB Left	164	1600	0.103 *	œ	172	1600	0.108 *	0	172	1600	0.108 *	£	0	169	1600	0.106 *	8	177	1600	0.111 *
WB Thru WB Right	936 47	4800 0	0.205 0.000	24 0	960 47	4800 0	0.210 0.000	00	960 47	4800 0	0.210 0.000	28	0	974 48	4800 0	0.213 0.000	24 0	998 48	4800 0	0.218 0.000
Yellow Allowance			0.150 *				0.150 *				0.150 *					0.150 *				0.150 *
ICU LOS			0.712 C				0.724 C				0.724 C					0.731 C				0.744 C

Rosemead Boulevard Coffman & Pico Road The Mercury Project/1-21-4418-1 ICU3

N-S St: E-W St: Project: File:

INTERSECTION CAPACITY UTILIZATION

Rosemead Boulevard @ Coffman & Pico Road Peak hr: AM Annual Growth: 1.00%

7/4/2022 2021 2024 Date: Existing Year: Projection Year:

2021	EXISTING T	RAFFIC	i	202	1 EXISTING	WITH PROJE	ECT	2021 EXIS	TING W/ PR	OJECT + MI	TIGATION		2024 FUT	URE PRE-P	ROJECT		202	24 FUTURE	WITH PROJE	ст
												Added	Added							
	-	7	VIC	Added	Total	7	VIC	Added	Total	7	VIC	Amb. Grow.	Rel. Proj.	Total	7	V/C	Added	Total	7	V/C
Movement	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio	Volume	Volume	Volume	Capacity	Ratio	Volume	Volume	Capacity	Ratio
NB Left	16	1600	0.010 *	0	16	1600	0.010 *	0	16	1600	0.010 *	0	0	16	1600	0.010 *	0	16	1600	0.010 *
NB Thru [3]	569	3200	0.178	1	580	3200	0.181	0	580	3200	0.181	17	13	599	3200	0.187	1	610	3200	0.191
NB Right	0	0	0.000	0	0	0	0.000	0	0	0	0.000	0	0	0	0	0.000	0	0	0	0.000
SB Left	10	1600	0.006	0	10	1600	0.006	0	10	1600	0.006	0	0	10	1600	0.006	0	10	1600	0.006
SB Thru [3]	922	3200	0.293 *	9	928	3200	0.294 *	0	928	3200	0.294 *	28	7	957	3200	0.303 *	9	963	3200	0.305 *
SB Right	14	0	0.000	0	14	0	0.000	0	14	0	0.000	0	0	14	0	0.000	0	14	0	0.000
EB Left	17	0	0.011	0	17	0	0.011	0	17	0	0.011		0	18	0	0.011	0	18	0	0.011
EB Thru	0	1600	0.039 *	0	0	1600	0.039 *	0	0	1600	0.039 *	0	0	0	1600	0.040 *	0	0	1600	0.040 *
EB Right	45	0	0.000	0	45	0	0.000	0	45	0	0.000	-	0	46	0	0.000	0	46	0	0.000
WB Left	9	0	0.004 *	0	9	0	0.004 *	0	9	0	0.004 *	0	0	9	0	0.004 *	0	9	0	0.004 *
WB Thru	0	1600	0.009	0	0	1600	0.009	0	0	1600	0.009	0	0	0	1600	0.009	0	0	1600	0.009
WB Right	ω	0	0.000	0	ω	0	0.000	0	80	0	0.000	0	0	80	0	0.000	0	80	0	0.000
Yellow Allowance			0.150 *				0.150 *				0.150 *					0.150 *				0.150 *
ICU LOS			0.495 A				0.497 A				0.497 A					0.507 A				0.509 A

Key conflicting movement as a part of ICU
 Counts conducted by: City Traffic Counters
 Capacity expressed in veh/hour of green
 Northbound and southbound existing through movements were adjusted by 15% due to COVID-19 conditions.

Rosemead Boulevard Coffman & Pico Road The Mercury Project/1-21-4418-1 ICU3

N-S St: E-W St: Project: File:

INTERSECTION CAPACITY UTILIZATION

Rosemead Boulevard @ Coffman & Pico Road Peak hr: PM Annual Growth: 1.00%

7/4/2022 2021 2024 Date: Existing Year: Projection Year:

202	EXISTING 1	TRAFFIC		202	1 EXISTING	WITH PROJI	ECT	2021 EXIS	TING W/ PR	ROJECT + MI	ITIGATION	Added	2024 FUT Added	URE PRE-P	ROJECT		202	24 FUTURE	WITH PROJE	ст
Movement	1 Volume	2 Capacity	V/C Ratio	Added Volume	Total Volume	2 Capacity	V/C Ratio	Added Volume	Total Volume	2 Capacity	V/C Ratio	Amb. Grow. Volume	Rel. Proj. Volume	Total Volume	2 Capacity	V/C Ratio	Added Volume	Total Volume	2 Capacity	V/C Ratio
NB Left NB Thru [3]	23 1251	1600 3200	0.014 0.393 *	0 80	23 1259	1600 3200	0.014 0.396 *	00	23 1259	1600 3200	0.014 0.396 *	38 1	0 19	24 1308	1600 3200	0.015 0.411 *	0 0	24 1316	1600 3200	0.015 0.413 *
NB Right	7	0	0.000	0	7	0	0.000	0	7	0	0.000	0	0	7	0	0.000	0	7	0	0.000
SB Left	18	1600	0.011 *	0	18	1600	0.011 *	0	18	1600	0.011 *	-	0	19	1600	0.012 *	0	19	1600	0.012 *
SB Thru [3]	1106	3200 0	0.353	12	1118	3200 ĵ	0.357	0 0	1118	3200 ĵ	0.357	34	17	1157	3200 ĵ	0.370	12	1169	3200 ĵ	0.373
SB Right	25	Ð	0.000	0	25	0	0.000	0	25	D	0.000	~	Ð	26	0	0.000	0	26	0	0.000
EB Left	50	0	0.031	0	50	0	0.031	0	50	0	0.031	2	0	52	0	0.033	0	52	0	0.033
EB Thru	e	1600	0.048 *	0	e	1600	0.048 *	0	e	1600	0.048 *	0	0	e	1600	0.050 *	0	с	1600	0.050 *
EB Right	24	0	0.000	0	24	0	0.000	0	24	0	0.000	~	0	25	0	0.000	0	25	0	0.000
WB Left	7	0	0.004 *	0	7	0	0.004 *	0	7	0	0.004 *	0	0	7	0	0.004 *	0	7	0	0.004 *
WB Thru	0	1600	0.013	0	0	1600	0.013	0	0	1600	0.013	0	0	0	1600	0.013	0	0	1600	0.013
WB Right	14	0	0.000	0	14	0	0.000	0	14	0	0.000	0	0	4	0	0.000	0	14	0	0.000
Yellow Allowance			0.150 *				0.150 *				0.150 *					0.150 *				0.150 *
ICU ICU			0.607 B				0.609 B				0.609 B					0.627 B				0.630 B

Key conflicting movement as a part of ICU
 Counts conducted by: City Traffic Counters
 Capacity expressed in veh/hour of green
 Northbound and southbound existing through movements were adjusted by 15% due to COVID-19 conditions.

Rosemead Boulevard Washington Boulevard The Mercury Project/1-21-4418-1 ICU4

N-S St: E-W St: Project: File:

INTERSECTION CAPACITY UTILIZATION

Rosemead Boulevard @ Washington Boulevard Peak hr: AM Annual Growth: 1.00%

7/4/2022 2021 2024 Date: Existing Year: Projection Year:

PROJECT	VIC
	Total 2 Volume Capacity
	C Added tio Volume V
2 V/C	Capacity Ratio
Rel. Proj. Total Volume Volume C	
Amb. Grow. Re Volume V	
2 V/C	apacity rano
Total 2 Volume Cap	
V/C Added Ratio Volume	
•	ے Capacity R
Added Total	Volume Volume
VIC	Ratio
1	olume Capacity
	Movement Vo

Key conflicting movement as a part of ICU
 Counts conducted by: City Traffic Counters
 Copacity expressed in veh/hour of green
 Northbound and southbound existing through movements were adjusted by 15% due to COVID-19 conditions.
 The eastbound right-turn lane has an overlapping phase with the northbound left-turn phase.

N-S St: E-W St: Project: File:

INTERSECTION CAPACITY UTILIZATION Rosemead Boulevard Washington Boulevard The Mercury Project/1-21-4418-1 ICU4

Rosemead Boulevard @ Washington Boulevard Peak hr: PM Annual Growth: 1.00%

7/4/2022 2021 2024 Date: Existing Year: Projection Year:

ted Total 2 une Volume Canaci
V/C Added y Ratio Volume
Proj. Total 2 ume Volume Capacity
* Volume Volume
me Capacity Ratio
0 125
Capacity Ratio 1600 0.078 * 4800 0.176
Volume Volume 12 125 0 685 0 685
Capacity Ratio 1600 0.071 * 4800 0.176 0 0.000
verment Volume ft 113 blt [3] 685 ght 158

Key conflicting movement as a part of ICU
 Counts conducted by: City Traffic Counters
 Copacity expressed in veh/hour of green
 Northbound and southbound existing through movements were adjusted by 15% due to COVID-19 conditions.
 The eastbound right-turn lane has an overlapping phase with the northbound left-turn phase.

APPENDIX G

SYNCHRO ANALYSIS DATA WORKSHEETS – WEEKDAY AM AND PM PEAK HOURS

Intersection						
Int Delay, s/veh	0.9					
Movement	EBI	FBT	WBT	WBR	SBI	SBR
Lane Configurations	*				502	#
Traffic Vol. veh/h	1 55	932	1310	12	0	37
Future Vol. veh/h	55	752	1310	12	0	27
Conflicting Dodo #/br	00	932	1310	13	0	37
Conflicting Peas, #/nr	U	U	U	U	U	U
Sign Control	Free	Free	Free	Free	Stop	Stop
RIChannelized	-	None	-	Noné	-	None
Storage Length	130	-	-	-	-	0
Veh in Median Storage, #	-	0	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	60	1013	1424	14	0	40
Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	1438	0	-	0	-	719
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	5.34	-	-	-	-	7.14
Critical Hdwy Stg 1	-	-	-	-	-	
Critical Hdwy Stg 2	-			-		
	2 1 2	-	-	-	-	2 0 2
Dot Con 1 Monouver	J. 12	-	-	-	-	J.7Z
Pot Cap-1 Maneuver	239	-	-	-	0	318
Stage 1		-	-	-	0	-
Stage 2	-	-	-	-	0	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	239	-	-	-	-	318
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Jugo 2						
Approach	EB		WB		SB	
HCM Control Delay, s	1.4		0		18	
HCMLOS					C.	
					J	
Minor Lane/Major Mvmt		EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)		239	-	-	-	318
HCM Lane V/C Ratio		0.25			-	0.126
HCM Control Delay (s)		25	-	-	-	18
HCM Lane LOS						.s C
HCM 95th %tile O(veh)		1			_	0.4
			-	-	-	0.4

Intersection						
Int Delay, s/veh	1.3					
Maxamant		FDT			CDI	CDD
Movement	EBL	ERI	WBI	WBK	SBL	SBK
Lane Configurations	5	111	**%	10	0	<u>7</u>
Traffic Vol, ven/h	108	1598	1098	12	0	6/
Future Vol, veh/h	108	1598	1098	12	0	6/
Conflicting Peds, #/hr	_ 0	- 0	0	_ 0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized		None	-	None	-	None
Storage Length	130	-	-	-	-	0
Veh in Median Storage, #	-	0	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	117	1737	1193	13	0	73
Major/Minor	Mojor1		Major		Minor	
			wajor2		winor2	(02
Conflicting Flow All	1206	0	-	0	-	603
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	5.34	-	-	-	-	7.14
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	3.12	-	-	-	-	3.92
Pot Cap-1 Maneuver	311	-	-	-	0	379
Stage 1	-	-	-	-	0	-
Stage 2	-	-	-	-	0	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	311	-	-	-	-	379
Mov Cap-2 Maneuver	-			-	-	
Stage 1	-	_	-	-	-	-
Stage 2	_	_	_	_	_	_
Jiaye 2	-	-	-	-	-	-
Approach	EB		WB		SB	
HCM Control Delay, s	1.5		0		16.7	
HCM LOS					С	
					-	
Minor Lane/Major Mvmt		EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)		311	-	-	-	379
HCM Lane V/C Ratio		0.377	-	-	-	0.192
HCM Control Delay (s)		23.4	-	-	-	16.7
HCM Lane LOS		С	-	-	-	С
LICM OF the O(tile O(uch)		17	-	-	-	07

Intersection						
Int Delay, s/veh	0.9					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	*				UDE	1
Traffic Vol. veh/h	57	968	1363	13	0	38
Future Vol. veh/h	57	007 040	1262	12	0	20
Conflicting Pode #/br	57	700	1303	13	0	0
Sign Control	Eroo	Eroo	Eroo	Eroo	Stop	Stop
DT Channelized	Fiee	None	Fiee	None	Stop	None
RT Chambellzeu	- 120	None	-	None	-	None
Storage Length	130	-	-	-	-	0
ven in Median Storage, #	-	0	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	62	1052	1482	14	0	41
Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	1496	0		0		748
Stage 1	-	-	-	-	-	-
Stage 2	-					
Critical Hdwy	5 3/	_		_	-	7 1/
Critical Hdwy Sta 1	5.54	-		-		7.14
Critical Lidwy Stg 1						
	2 1 2	-	-	-	-	2 0 2
Pot Cop 1 Monouncer	J.1Z	-	-	-	-	3.7Z
Pot Cap-1 ivianeuvei	224	-	-	-	0	305
Stage 1	-	-	-	-	0	-
Stage 2	-	-	-	-	0	-
Platoon blocked, %	00 ·	-	-	-		0.05
Mov Cap-1 Maneuver	224	-	-	-	-	305
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Annroach	FR		WR		SR	
HCM Control Dolovic	1 0		0		10.4	
HOW CONTROL Delay, S	1.5		0		10.0	
HCIVI LUS					C	
Minor Lane/Major Mymt		EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)		224	-	-	-	305
HCM Lane V/C Ratio		0 277				0 135
HCM Control Delay (s)		27.1	-	-	_	18.6
nom control Delay (3)		27.1				10.0

C 0.5

-

-

HCM Lane LOS HCM 95th %tile Q(veh)

D

1.1

-

Intersection						
Int Delay, s/veh	1.3					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	×.	***	**t			1
Traffic Vol, veh/h	111	1660	1141	12	0	69
Future Vol, veh/h	111	1660	1141	12	0	69
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	130	-	-	-	-	0
Veh in Median Storage, #	-	0	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	121	1804	1240	13	0	75
Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	1253	0	-	0	-	627
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	5.34	-	-	-	-	7.14
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	3.12	-	-	-	-	3.92
Pot Cap-1 Maneuver	295	-	-	-	0	365
1 anet2		-	-	-	0	

Stage 2	-	-	-	-	0	-	
Platoon blocked, %		-	-	-			
Mov Cap-1 Maneuver	295	-	-	-	-	365	
Mov Cap-2 Maneuver	-	-	-	-	-	-	
Stage 1	-	-	-	-	-	-	
Stage 2	-	-	-	-	-	-	
Approach	EB		WB		SB		
HCM Control Delay, s	1.6		0		17.4		
HCM LOS					С		
Minor Lane/Major Mvmt		EBL	EBT	WBT	WBR	SBLn1	
Capacity (veh/h)		295	-	-	-	365	
HCM Lane V/C Ratio		0.409	-	-	-	0.205	
HCM Control Delay (s)		25.4	-	-	-	17.4	
HCM Lane LOS		D	-	-	-	С	
HCM 95th %tile Q(veh)		1.9	-	-	-	0.8	

Intersection						
Int Delay, s/yeb	14					
in Delay, 3/Vell	1.0					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	- N	***	ተተ ጌ			1
Traffic Vol, veh/h	75	979	1363	31	0	80
Future Vol, veh/h	75	979	1363	31	0	80
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	130	-	-	-	-	0
Veh in Median Storage, #	-	0	0	-	0	-
Grade %		0	0		0	
Peak Hour Factor	02	92	92	02	92	02
Heavy Vehicles %	2	2	2	2	2	2
Mumt Flow	ے 02	1064	1/02	24	2	07
	02	1004	1402	54	0	07
Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	1516	0		0	-	758
Stage 1	-	-	-	-	-	-
Stage 2		-				
Critical Hdwy	5 34	_			_	7 14
Critical Hdwy Sta 1	0.04					7.14
Critical Hdwy Stg 1						
Eollow up Udwy	- 2 1 2	-	-	-	-	2 0 2
Pollow-up nuwy	3.1Z	-	-	-	-	3.92
Pot Cap-1 Maneuver	219	-	-	-	0	300
Stage I	-	-	-	-	0	-
Stage 2	-	-	-	-	0	-
Platoon blocked, %		-	-			
Mov Cap-1 Maneuver	219	-	-	-	-	300
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Approach	ED				CD	
Approach	EB		WB		SB	
HCM Control Delay, s	2.2		0		21.8	
HCM LOS					С	
Minor Lane/Major Mymt		FRI	FRT	WRT	WRR	SBI n1
Capacity (vab/b)		210	LDT	WDT	WDR	300
Capacity (ven/n)		219	-	-	-	300
HUM Castral Dalay ()		0.372	-	-	-	0.29
HCIVI Control Delay (s)		30.9	-	-	-	21.8
HCM Lane LOS		D	-	-	-	С
HCM 95th %tile Q(veh)		1.6	-	-	-	1.2

Intersection						
Int Delay, s/veh	2.2					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	*	***	## 1.			#
Traffic Vol. veh/h	147	1668	1141	48	0	100
Future Vol. veh/h	147	1668	1141	48	0	100
Conflicting Peds. #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Ston
RT Channelized	-	None	-	None	-	None
Storage Length	130	-		-		0
Veh in Median Storage #	150	0	0		0	-
Grade %		0	0	_	0	_
Dook Hour Factor	02	02	02	02	02	02
	72	72	72	72	72	72
Heavy vehicles, %	140	1012	1240	۲ ۲۵	2	100
IVIVITIL FIOW	100	1013	1240	52	0	109
Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	1292	0	-	0	-	646
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-			
Critical Hdwy	5.34	-	-	-	-	7.14
Critical Hdwy Stg 1	-		-			-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	3 12		-			3 92
Pot Can-1 Maneuver	282	-	-		0	355
Stage 1	- 202				0	
Stage 2					0	
Diatoon blocked %		-	-	-	0	
Mov Cap 1 Mapouvor	າດາ					255
Mov Cap 2 Maneuver	202	-	-	-	-	300
Stago 1	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Approach	EB		WB		SB	
HCM Control Delay, s	2.7		0		19.6	
HCM LOS					C	
					5	
Minor Long/Major Mumt		EDI	EDT	W/DT		CDIn1

Minor Lane/Major Mvmt	EBL	EBT	WBI	WBR	SBLn1	
Capacity (veh/h)	282	-	-	-	355	
HCM Lane V/C Ratio	0.567	-	-	-	0.306	
HCM Control Delay (s)	33.2	-	-	-	19.6	
HCM Lane LOS	D	-	-	-	С	
HCM 95th %tile Q(veh)	3.2	-	-	-	1.3	

	∕	\rightarrow	1	†	Ŧ	-
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	M		*	***	A1	
Traffic Volume (veh/h)	46	33	18	797	972	53
Future Volume (veh/h)	46	33	18	797	972	53
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adi(A pbT)	1.00	1.00	1.00			1.00
Parking Bus, Adi	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adi Sat Flow, veh/h/ln	1870	1870	1945	1870	1870	1945
Adi Flow Rate, veh/h	50	36	20	866	1057	58
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh %	2	2	2	2	2	2.72
Can veh/h	65	47	465	4257	2609	143
Arrive On Green	0.07	0.07	0.02	0.83	0.76	0.76
Sat Flow voh/h	0.07	702	1852	5274	2510	100
	7/4	102	1000	JZ14	5517	100
Grp Volume(V), Ven/n	8/ ۱/۵۲	0	20	800 1700	548	56/
GIP Sat Flow(s), ven/n/ln	1695	0	1853	1/02		1837
U Serve(g_s), s	4.5	0.0	0.2	3.1	9.6	9.6
Cycle Q Clear(g_c), s	4.5	0.0	0.2	3.1	9.6	9.6
Prop In Lane	0.57	0.41	1.00			0.10
Lane Grp Cap(c), veh/h	112	0	465	4257	1354	1399
V/C Ratio(X)	0.77	0.00	0.04	0.20	0.40	0.41
Avail Cap(c_a), veh/h	480	0	538	4257	1354	1399
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	41.3	0.0	2.5	1.5	3.7	3.7
Incr Delay (d2), s/veh	10.7	0.0	0.0	0.1	0.9	0.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	4.0	0.0	0.1	0.6	4.4	4.5
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	52.0	0.0	2.5	1.6	4.6	4.6
LnGrp LOS	D	A	A	A	A	A
Approach Vol. veh/h	87			886	1115	
Approach Delay, s/yeh	52.0			1.6	16	
Approach LOS	J2.0			١.0	4.0	
	D			A	A	
Timer - Assigned Phs		2		4	5	6
Phs Duration (G+Y+Rc), s		79.5		10.5	6.5	73.1
Change Period (Y+Rc), s		4.5		4.5	4.5	4.5
Max Green Setting (Gmax), s		55.5		25.5	5.5	45.5
Max Q Clear Time (q_c+I1), s		5.1		6.5	2.2	11.6
Green Ext Time (p_c), s		4.2		0.2	0.0	4.8
Intersection Summary						
			F 2			
HCIVI oth Ctri Delay			5.3			
HUM 6th LUS			A			
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Notes User approved volume balancing among the lanes for turning movement.

HCM 6th Signalized Intersection Summary 6: Rosemead Blvd & Marketplace

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Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	M		*	***	A1	
Traffic Volume (veh/h)	98	76	39	1056	1124	90
Future Volume (veh/h)	98	76	39	1056	1124	90
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A pbT)	1.00	1.00	1.00			1.00
Parking Bus, Adi	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1870	1870	1945	1870	1870	1945
Adj Flow Rate, veh/h	107	83	42	1148	1222	98
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh. %	2	2	2	2	2	2
Cap, veh/h	129	100	359	3900	2258	181
Arrive On Green	0.14	0.14	0.04	0.76	0.68	0.68
Sat Flow, veh/h	947	735	1853	5274	3426	267
Grn Volume(v) veh/h	101	0	1000	11/10	651	660
Grp Sat Flow(s) vob/b/b	1401	0	42	1702	1777	1009
O Sono(a, s) s	0.0	0.0	0.6	6.2	16.0	16.0
∇ Serve(y_s), s Cyclo O Clost(q_c) s	9.9	0.0	0.0	0.Z	10.ŏ 16.0	10.ŏ 16.0
Cycle Q Clear (y_c) , S	9.9	0.0	0.0	0.2	10.ŏ	10.0 0.1E
Prop III Lane	0.00	0.43	1.00	2000	1004	0.15
Lane Grp Cap(c), ven/n	230	0	359	3900	1204	1235
V/C Ratio(X)	0.83	0.00	0.12	0.29	0.54	0.54
Avail Cap(c_a), ven/n	4/9	1 00	405	3900	1204	1235
	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00
Unitorm Delay (d), s/veh	37.9	0.0	5.4	3.2	7.4	7.4
Incr Delay (d2), s/veh	7.5	0.0	0.1	0.2	1.7	1.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	8.1	0.0	0.3	2.4	9.2	9.5
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	45.3	0.0	5.5	3.4	9.1	9.1
LnGrp LOS	D	А	А	А	А	A
Approach Vol, veh/h	191			1190	1320	
Approach Delay, s/veh	45.3			3.5	9.1	
Approach LOS	D			А	А	
Timer - Assigned Phs		2		4	5	6
Phs Duration (G+Y+Rc), s		73.2		16.8	7.8	65.5
Change Period (Y+Rc) s		4 5		4 5	4 5	4 5
Max Green Setting (Gmax)		55.5		25.5	5.5	45.5
Max O Clear Time (α_{c+11}) s		8.2		11 0	2.5	18.8
Groon Ext Time (p_c) c		6.0		0.5	2.0	10.0
Green Ext Time (p_c), s		0.0		0.0	0.0	0.0
Intersection Summary						
HCM 6th Ctrl Delay			9.2			
HCM 6th LOS			А			

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User approved volume balancing among the lanes for turning movement.
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Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	M		*	***	At.	
Traffic Volume (veh/h)	47	34	19	834	1008	55
Future Volume (veh/h)	47	34	19	834	1008	55
Initial Ω (Ob) veh	0	0	0	0	0	0
Ped-Bike Adi(A_phT)	1 00	1 00	1 00	v	Ū	1 00
Parking Rus Adi	1.00	1.00	1.00	1 00	1 00	1.00
Work Zone On Approach	No	1.00	1.00	No	No	1.00
Adi Sat Flow yeb/b/lp	1970	1970	10/5	1970	1970	10/5
Adj Elow Rate, veh/h	51	27	21	907	1070	60
Poak Hour Eactor	0.02	0.02	0.02	0.02	0.02	0.02
Dercent Heavy Veh %	0.72	0.72	0.72	0.72	0.72	0.72
Cap vob/b	2	۲ ۱۹	110	1240	2	1/2
Cap, ven/m	00	40	449	4249	2002	142
Anive On Green	0.07	0.07	0.02	0.83	0.70	0.76
Sat Flow, Ven/n	971	/05	1853	5274	3519	187
Grp Volume(v), veh/h	89	0	21	907	568	588
Grp Sat Flow(s),veh/h/ln	1695	0	1853	1702	1777	1837
Q Serve(g_s), s	4.6	0.0	0.2	3.3	10.2	10.2
Cycle Q Clear(g_c), s	4.6	0.0	0.2	3.3	10.2	10.2
Prop In Lane	0.57	0.42	1.00			0.10
Lane Grp Cap(c), veh/h	115	0	449	4249	1349	1395
V/C Ratio(X)	0.77	0.00	0.05	0.21	0.42	0.42
Avail Cap(c_a), veh/h	480	0	520	4249	1349	1395
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	41.3	0.0	2.6	1.5	3.8	3.8
Incr Delay (d2), s/veh	10.5	0.0	0.0	0.1	1.0	0.9
Initial O Delay(d3) s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfO(95%) veh/lp	0.0 <u>4</u> 1	0.0	0.0	0.0	4.7	4.8
Unsig Movement Delay shield	т.1	0.0	0.1	0.0	т./	т.U
LnCrn Doloy(d) s/vob	51.0	0.0	26	17	10	1.0
	0.1C	0.0	2.0	1.7	4.8	4.8
	<u> </u>	А	A	A 000	A	A
Approach Vol, veh/h	89			928	1156	
Approach Delay, s/veh	51.8			1.7	4.8	
Approach LOS	D			А	А	
Timer - Assigned Phs		2		4	5	6
Phs Duration (G+Y+Rc), s		79.4		10.6	6.5	72.9
Change Period (Y+Rc), s		4.5		4.5	4.5	4.5
Max Green Setting (Gmax) s		55.5		25.5	5.5	45.5
Max O Clear Time ($q_c + 11$) s		53		6.6	2.2	12.2
Green Ext Time (n. c) s		1.0		0.0	0.0	5.0
		7.7		0.2	0.0	5.0
Intersection Summary						
HCM 6th Ctrl Delay			5.4			
HCM 6th LOS			А			

Notes User approved volume balancing among the lanes for turning movement.

HCM 6th Signalized Intersection Summary 6: Rosemead Blvd & Marketplace

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Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	M		×	***	≜t ⊾	
Traffic Volume (veh/h)	101	78	40	1107	1175	93
Future Volume (veh/h)	101	78	40	1107	1175	93
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00	1.00			1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1870	1870	1945	1870	1870	1945
Adj Flow Rate, veh/h	110	85	43	1203	1277	101
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh. %	2	2	2	2	2	2
Cap, veh/h	132	102	341	3884	2249	177
Arrive On Green	0.14	0.14	0.04	0.76	0.67	0.67
Sat Flow, veh/h	949	733	1853	5274	3430	263
Grn Volume(v) veh/h	196	0	43	1203	679	699
Grn Sat Flow(s) veh/h/ln	1691	0	1853	1702	1777	1823
O Serve(a, s) s	10.7	0.0	0.6	66	18.1	18 2
$Cycle O Clear(q, c) \leq c$	10.2	0.0	0.0	6.6	18.1	18.3
Pron In Lane	0.56	0.43	1 00	0.0	10.1	0.14
Lane Grn Can(c), veh/h	225	0.45	2/1	3884	1102	1220
V/C Ratio(X)	0.83	0.00	0.12	0.31	0.57	0.57
$\Delta vail Can(c, a) veh/h$	/70	0.00	286	388/	1108	1220
HCM Platoon Ratio	1 00	1 00	1 00	1 00	1 00	1 00
Linstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00
Uniform Delay (d) s/yeb	27.7	0.00	5.8	3.4	7.7	7.8
Incr Delay (d2) s/veh	75	0.0	0.0	0.4	1.1	7.0 1.0
Initial O Delay(d2) shiph	1.5	0.0	0.2	0.2	0.0	0.0
$\frac{1}{1000} = \frac{1}{2} \frac{1}{1000} \frac{1}{1000}$	0.0 	0.0	0.0	2.6	0.0	10.0
Unsig Movement Delay shop	0.2	0.0	0.5	2.0	7.7	10.2
LnGrn Delay(d) s/veh	15.2	0.0	60	3.6	07	07
	40.Z	0.0	0.0 A	5.0 Λ	9.7 A	9.7
Approach Vol. veh/h	104	A	A	10/4	1270	А
Approach Dolov, s/vob	190			1240	13/8	
Approach LOS	45.2			3.7	9.7	
Approach LUS	U			A	A	
Timer - Assigned Phs		2		4	5	6
Phs Duration (G+Y+Rc), s		73.0		17.0	7.8	65.2
Change Period (Y+Rc), s		4.5		4.5	4.5	4.5
Max Green Setting (Gmax), s		55.5		25.5	5.5	45.5
Max Q Clear Time (g_c+l1), s		8.6		12.2	2.6	20.3
Green Ext Time (p_c), s		6.4		0.5	0.0	6.3
Intersection Summary						
HCM 6th Ctrl Delay			9.5			
HCM 6th LOS			Α			
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User approved volume balancing among the lanes for turning movement.

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Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	M	2011	*		<u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>	0.511
Traffic Volume (veh/h)	58	52	19	834	1010	59
Future Volume (veh/h)	58	52	19	834	1010	59
Initial O (Ob), veh	0	0	0	0	0	0
Ped-Bike Adi(A pbT)	1.00	1.00	1.00			1.00
Parking Bus Adi	1.00	1.00	1 00	1 00	1 00	1.00
Work Zone On Approach	No	1.00	1.00	No	No	1.00
Adi Sat Flow, veh/h/ln	1870	1870	1945	1870	1870	1945
Adi Elow Rate, veh/h	63	57	21	907	1098	64
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh %	2	2	2	2	2	2
Cap. veh/h	80	72	429	4130	2512	146
Arrive On Green	0.09	0.09	0.02	0.81	0.74	0.74
Sat Flow, veh/h	877	793	1853	5274	3506	199
	121	0	- 1000 21	007	572	500
Grn Sat Flow(s) veh/h/ln	140/	0	1252	1702	1777	1825
O Serve(a, s) s	1004	0	1003	27	11 2	1000
$C_{\text{vcle}} \cap C_{\text{lear}(n, c)}$	0.5	0.0	0.2	3.1 2 7	11.3	11.3
Dron In Lano	0.5	0.0	1.00	3.7	11.5	0.11
Lano Cro Can(c) yoh/h	0.02	0.47	1.00	/120	1200	1251
	0.70	0 00	429	4130	0.44	0.44
V/C Rai(U(A) Avail Cap(c, a) veh/h	0.19	0.00	0.00	U.ZZ 4120	1200	U.44 1051
Avail Cap(C_a), ven/in	4//	1 00	200	4130	1308	1301
Lipstroom Eiltor(I)	1.00	0.00	1.00	1.00	1.00	1.00
Upsitediti Filler(I)	1.00	0.00	1.00	1.00	1.00	1.00
Incr Doloy (d2), s/veh	40.1	0.0	3.2	2.0	4.0	4.0
Inci Delay (uz), s/ven	ð./	0.0	0.0	0.1	1.1	1.0
	0.0	0.0	0.0	0.0	U.U	U.U
Mile BackUlQ(95%), ven/in	5.4	0.0	0.1	1.0	5.0	5.8
Unsig. Wovement Delay, s/veh	40 7	0.0	2.0	0.1	F 7	Γ./
LnGrp Delay(d),s/ven	48.7	0.0	3.2	2.1	5.7	5.6
	U	A	A	A	A	A
Approach Vol, veh/h	121			928	1162	
Approach Delay, s/veh	48.7			2.1	5.7	
Approach LOS	D			A	А	
Timer - Assigned Phs		2		4	5	6
Phs Duration (G+Y+Rc), s		77.3		12.7	6.5	70.8
Change Period (Y+Rc), s		4.5		4.5	4.5	4.5
Max Green Setting (Gmax), s		55.5		25.5	5.5	45.5
Max Q Clear Time (q_c+I1), s		5.7		8.3	2.2	13.3
Green Ext Time (p_c), s		4.4		0.3	0.0	5.1
Intersection Summary						
HCM 6th Ctrl Delay			6.5			
HCM 6th LOS			Δ			
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Notes

User approved volume balancing among the lanes for turning movement.

## HCM 6th Signalized Intersection Summary 6: Rosemead Blvd & Marketplace

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Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	W.		5	***	<b>A</b> 12	
Traffic Volume (veh/h)	109	91	40	1107	1179	101
Future Volume (veh/h)	109	91	40	1107	1179	101
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00	1.00			1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1870	1870	1945	1870	1870	1945
Adj Flow Rate, veh/h	118	99	43	1203	1282	110
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	140	117	327	3814	2188	187
Arrive On Green	0.15	0.15	0.04	0.75	0.66	0.66
Sat Flow, veh/h	913	766	1853	5274	3406	283
Grp Volume(v), veh/h	218	0	43	1203	686	706
Grp Sat Flow(s),veh/h/ln	1687	0	1853	1702	1777	1819
Q Serve(g_s), s	11.3	0.0	0.6	7.0	19.2	19.4
Cycle Q Clear(g_c), s	11.3	0.0	0.6	7.0	19.2	19.4
Prop In Lane	0.54	0.45	1.00			0.16
Lane Grp Cap(c), veh/h	258	0	327	3814	1173	1201
V/C Ratio(X)	0.84	0.00	0.13	0.32	0.58	0.59
Avail Cap(c_a), veh/h	478	0	373	3814	1173	1201
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	37.1	0.0	6.5	3.8	8.5	8.5
Incr Delay (d2), s/veh	7.4	0.0	0.2	0.2	2.1	2.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/In	8.9	0.0	0.3	3.0	10.6	10.8
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	44.5	0.0	6.7	4.0	10.6	10.6
LnGrp LOS	D	A	A	A	В	В
Approach Vol, veh/h	218			1246	1392	
Approach Delay, s/veh	44.5			4.1	10.6	
Approach LOS	D			А	В	
Timer - Assigned Phs		2		4	5	6
Phs Duration (G+Y+Rc), s		71.7		18.3	7.8	63.9
Change Period (Y+Rc), s		4.5		4.5	4.5	4.5
Max Green Setting (Gmax), s		55.5		25.5	5.5	45.5
Max Q Clear Time (g_c+l1), s		9.0		13.3	2.6	21.4
Green Ext Time (p_c), s		6.4		0.5	0.0	6.4
Intersection Summary						
HCM 6th Ctrl Delay			10.3			
HCM 6th LOS			В			
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User approved volume balancing among the lanes for turning movement.