

Appendix A - Existing Conditions Report

MIRA MESA COMMUNITY PLAN UPDATE

Existing Mobility Conditions



JUNE 2019

Prepared By:



Contents

EXEC	JTIVE	SUMMARY	i		
1	INTRODUCTION1-1				
2	METHODOLOGY2-				
	2.1	Pedestrian	2-2		
	2.2	Bicycle	2-11		
	2.3	Transit	2-19		
	2.4	Vehicle	2-23		
3	REVIE	W OF RELEVANT PLANNING DOCUMENTS	.3-1		
	3.1	City of San Diego Plans, Programs, and Projects			
	3.2	Regional Plans	3-8		
	3.3	Local Private Development Projects	3-10		
4	EXISTING CONDITIONS				
	4.1	Pedestrian Mobility			
	4.2	Bicycle Mobility	4-25		
	4.3	Transit	4-44		
	4.4	Vehicular System	4-71		
	4.5	Parking4	-141		
	4.6	Intelligent Transportation Systems4	-145		
	4.7	Transportation Demand Management4	-146		
	4.8	Airports, Passenger Rail, and Goods Movement4	-148		
5	MOBILITY NEEDS AND FUTURE DIRECTION				
	5.1	Pedestrian	5-1		
	5.2	Bicycle	5-8		
	5.3	Transit	5-12		
	5.4	Vehicle	5-17		

Figures

Figure 4-21 Existing Transit Routes	4-45
Figure 4-22 Transit Boardings by Stop	4-49
Figure 4-23 Transit Alightings by Stop	4-50
Figure 4-24 Transit Commute Mode Share by Census Block Group	4-52
Figure 4-25 Residential Density Near Transit	4-53
Figure 4-26 Employment Density Near Transit	4-54
Figure 4-27 Bicycle- and Pedestrian-involved Collisions Near Transit	4-56
Figure 4-28 Existing Quality Walk Ratio from Major Transit Stations	4-69
Figure 4-29 Existing Quality Bicycle Ratio from Major Transit Stations	4-70
Figure 4-30 Existing Roadway Segment Classifications	4-72
Figure 4-31 Existing Daily Roadway Segment Volumes	4-80
Figure 4-32 Existing Intersection Lane Configuration	4-81
Figure 4-33 Existing Peak Hour Intersection Volumes	4-86
Figure 4-34 Existing AM Peak Hour Time Periods	4-90
Figure 4-35 Existing PM Peak Hour Time Periods	4-91
Figure 4-36 Vehicle Collision Summary (2012-2017)	4-92
Figure 4-37 Existing Roadway Segment Level of Service	4-97
Figure 4-38 Mira Mesa Blvd – Eastbound Travel Time Summary	4-104
Figure 4-39 Mira Mesa Blvd – Westbound Travel Time Summary	4-105
Figure 4-40 Miramar Rd – Eastbound Travel Time Summary	4-106
Figure 4-41 Miramar Rd – Westbound Travel Time Summary	4-107
Figure 4-42 Camino Santa Fe – Northbound Travel Time Summary	4-108
Figure 4-43 Camino Santa Fe – Southbound Travel Time Summary	4-109
Figure 4-44 Black Mountain Rd – Northbound Travel Time Summary	4-110
Figure 4-45 Black Mountain Rd – Southbound Travel Time Summary	4-111
Figure 4-46 Vehicular Congestion Locations – AM Peak	4-112
Figure 4-47 Vehicular Congestion Locations – PM Peak	4-113

Figure 4-48 Existing Intersection Level of Service (AM Peak)	.4-115
Figure 4-49 Existing Intersection Level of Service (PM Peak)	.4-116
Figure 4-50 Freeway Level of Service Results (AM Peak)	.4-135
Figure 4-51 Freeway Level of Service Results (PM Peak)	.4-136
Figure 4-52 Existing Parking Utilization (AM Peak)	.4-142
Figure 4-53 Existing Parking Utilization (Mid-Day Peak)	.4-143
Figure 4-54 Existing Parking Utilization (PM Peak)	.4-144
Figure 5-1 Pedestrian Opportunities and Constraints	5-4
Figure 5-2 Pedestrian Route Type Treatment Levels and Potential Improvements	5-5
Figure 5-3 Bicycle Opportunities and Constraints	5-11
Figure 5-4 Transit Opportunities and Constraints	5-16
Figure 5-5 Vehicular Opportunities and Constraints	5-21

Tables

Table 2-1 Pedestrian Demand Factors 2	<u>?</u> -4
Table 2-2 Pedestrian Route Type Criteria 2	2-5
Table 2-3 PEQE Scoring Criteria 2	2-8
Table 2-4 Bicycle Demand Factors 2-7	12
Table 2-5 Criteria for Bike Lanes Alongside a Parking Lane 2-7	14
Table 2-6 Criteria for Bike Lanes Not Alongside a Parking Lane 2-7	15
Table 2-7 Criteria for Level of Traffic Stress in Mixed Traffic	15
Table 2-8 Level of Traffic Stress Criteria for Pocket Bike Lanes 2-7	15
Table 2-9 Level of Traffic Stress Criteria for Mixed Traffic in the Presence of a Right-turn Lane2-	16
Table 2-10 Level of Traffic Stress Criteria for Unsignalized Crossings Without a Median Refuge2-	16
Table 2-11 Level of Traffic Stress Criteria for Unsignalized Crossings with a Median Refuge Six Feet Wide 2-2	16
Table 2-12 Transit Amenity Standards by Ridership Levels 2-2	21

Table 2-13 Vehicular Level of Service Definitions	2-27
Table 2-14 Urban Street LOS Criteria	2-28
Table 2-15 City of San Diego Roadway Segment Capacity and LOS Summary	2-29
Table 2-16. LOS Criteria for Intersections	2-31
Table 2-17 Freeway Segment LOS Criteria	2-33
Table 3-1 Capital Improvement Program Projects	3-2
Table 3-2 Transportation Unfunded Needs List (TUNL) Projects	3-6
Table 3-3 Local Development Projects	3-10
Table 4-1 Pedestrian Commute Mode Share Comparison	4-4
Table 4-2 Most Frequent Pedestrian Collision Locations	4-8
Table 4-3 Pedestrian Collisions by Location Types	4-11
Table 4-4 Pedestrian Collisions by Party at Fault	4-11
Table 4-5 Primary Pedestrian Collision Cause	4-11
Table 4-6 Summary of PEQE Analysis for Segments within Pedestrian Study Area	4-12
Table 4-7 Summary of PEQE Analysis for Intersections within Pedestrian Study Area	4-13
Table 4-8 Summary of Missing Sidewalks within or Providing Access to the Pedestrian Study Area	4-13
Table 4-9 Pedestrian Connectivity Ratio at Pedestrian Study Intersections	4-17
Table 4-10 Bicycle Commute Mode Share Comparison	4-27
Table 4-11 Most Frequent Bicycle Collision Locations	4-32
Table 4-12 Bicycle Collisions by Location Types	4-32
Table 4-13 Bicycle Collisions by Party at Fault	4-33
Table 4-14 Primary Bicycle-Involved Collision Cause (2012-2017)	4-33
Table 4-15: Levels of Traffic Stress	4-35
Table 4-16 Bicycle Connectivity Ratio at Pedestrian Study Intersections	4-39
Table 4-17 Mira Mesa Community Transit Stops with Most Passenger Boardings	4-47
Table 4-18 Mira Mesa Community Transit Stops with Most Passenger Alightings	4-48
Table 4-19 Mira Mesa Community Ridership by Route	4-48

Table 4-20 Transit Commute Mode Share Comparison	4-51
Table 4-21 Residential and Employment Density Near Transit	4-51
Table 4-22 Most Frequent Collision Locations near Transit Stops	4-55
Table 4-23 Transit Stop Amenities	4-60
Table 4-24 Summary of Quality Travel Ratios from Major Transit Stop	4-68
Table 4-25 Existing Roadway Segment Characteristics	4-73
Table 4-26 Most Frequent Vehicular Collision Locations	4-92
Table 4-27 Most Frequent Vehicular Collision Locations	4-92
Table 4-28 Collisions by Party at Fault	4-94
Table 4-29 Primary Collision Cause	4-94
Table 4-30 Existing Roadway Segment Analysis	4-98
Table 4-31 Intersection Peak Hour Delay and LOS Analysis	.4-117
Table 4-32 Intersection Storage Lengths and Queue Analysis	.4-122
Table 4-33 Existing Freeway Mainline Operations Analysis	.4-132
Table 4-34 Existing Ramp Meter Analysis	.4-138
Table 4-35 Existing Roadway Segment Analysis	.4-150

Appendices

- Appendix A Collision Data
- Appendix B Pedestrian Environmental Quality Evaluation (PEQE) Analysis Data
- Appendix C Bicycle Level of Traffic Stress (BLTS) Analysis Data
- Appendix D Bus Routes and Ridership
- Appendix E Traffic Count Sheets
- Appendix F Synchro Peak-Hour Intersection Analysis Sheets
- Appendix G Travel Time Data (Traction and SimTraffic)
- Appendix H Caltrans Freeway Traffic Volumes and Ramp Meter Rates
- Appendix I Parking Utilization Data
- Appendix J Related Projects

INTRODUCTION

The following section introduces the Existing Mobility Conditions of the Mira Mesa Community Plan Update.

Report Purpose and Applicability

The current Mira Mesa Community Plan was originally approved in 1992 and has seen several amendments since then. The Plan identifies several key issues, goals, and implementation actions for Mira Mesa, including improvements to the transportation system. This comes in the form of relating development intensity to capacity of the network and encouraging development of facilities and services that fulfill the daily needs of local residents, commuters, and visitors.

The Mira Mesa Community Plan Update was initiated in 2018 to provide direction and guidance for future community growth and development. The Mobility Element is one component of the community plan, and directly correlates with the Land Use Element. This relationship supports the ability to plan and provide for a balanced, multimodal transportation network that can meet future community travel demands. The Mobility Element provides guidance on the transportation network, including pedestrian, bicycle, transit, and vehicle modes of travel.

The purpose of this Existing Mobility Conditions report is to summarize the existing conditions within the community for all modes of transportation, and identify potential deficiencies, conflicts, and needs that could be addressed through future improvements to the transportation network. The Existing Mobility Conditions is a critical building block in the preparation of the land use plan and future transportation system. Key features of this document include:

- Describing the analysis methods and techniques used to evaluate a mobility network,
- Evaluating existing mobility conditions for all modes,
- Identifying opportunities for potential transportation network enhancements,
- Informing land use planning by providing adjacent transportation network conditions,
- Establishing a baseline condition for the environmental documents, and
- Educating the stakeholders and plan preparers of current conditions.

Regional Location and Planning Boundaries

The Mira Mesa community is located in the north central portion of the City of San Diego, 16 miles north of downtown San Diego. Mira Mesa is located between Interstate 805 (I-805) and Interstate 15 (I-15), with Marine Corps Air Station Miramar to the south and Los Peñasquitos Canyon Preserve to the north. Mira Mesa is bounded on the north by the communities of Torrey Hills, Carmel Valley, and Rancho Peñasquitos; on the east by Miramar Ranch North and Scripps Miramar Ranch; on the south by Marine Corps Air Station Miramar; and on the west by the University and Torrey Pines communities. **Figure 1-1** depicts the location of the Mira Mesa community in a regional context.

The Mira Mesa community is approximately 10,500 acres in area, with a population of over 70,000. The western and southern portions of the community are primarily employment and industrial areas, while the northeastern portion of the community is primarily residential. Miramar College is located on the east side

of the community with the Miramar College Transit Station serving multiple local and regional bus routes. **Figure 1-2** shows the community boundary in a localized context.

Supporting Information

Several previously-published planning documents will also be used to guide the development of proposed improvements to the mobility network in Mira Mesa. The following planning documents were referenced for consistency throughout the planning process:

- City of San Diego General Plan (2008)
- City of San Diego Climate Action Plan (2015)
- Adopted Mira Mesa Community Plan (1992)
- City of San Diego Bicycle Master Plan (2013)
- City of San Diego Pedestrian Master Plan (2006)
- San Diego Forward: The Regional Plan (2015)
- San Diego Regional Bike Plan (2010)

Other planning efforts and documents are also relevant to understanding the existing mobility conditions in Mira Mesa. A more complete synopsis of these documents and their relationship to the Mira Mesa community are provided in Chapter 3. Additionally, the proposed improvements included in the Mira Mesa Community Plan Update will be incorporated into future local and regional planning efforts.

FIGURE 1-1



Regional Vicinity Map



FIGURE 1-2

Community Boundary

Community Plan Update Process

A four-phased planning process is being undertaken to develop the Mira Mesa Mobility Element. As depicted in **Figure 1-3**, the four phases include:

- Phase I: Existing Conditions Assessment
- Phase II: Developing Recommendations
- Phase III: Plan Development and Implementation Strategies
- Phase IV: Environmental Analysis

Figure 1-3 Community Plan Update Process



Existing Conditions Assessment (Phase I): This initial phase documents current pedestrian, cycling, transit and vehicular systems and associated travel behaviors in the community. Travel demands, deficiencies, opportunities and constraints are extensively analyzed and documented for each mode.

Developing Recommendations (Phase II): This phase is focused on identifying and crafting a vision for overall mobility in the community, and then developing policy language and mobility network recommendations to help achieve the vision. This phase is supported by the involvement of the significant community, City staff, and other key stakeholders.

Plan Development and Implementation Strategies (Phase III): Following the development of a preferred network, the Mobility Element is initiated. The Mobility Element summarizes existing conditions and issues for each travel mode, supporting policies, and plan proposals. Implementation strategies are developed at this stage, including conceptual designs, project cost estimating, project phasing and the identification of potential funding sources.

Environmental Analysis (Phase IV): An Environmental Impact Report (EIR) is anticipated for the Community Plan Update. The Transportation Section of the EIR will be based on mobility information developed during Phases I through III and will analyze and disclose potentially significant traffic impacts, as well as mitigation measures to lessen the impacts. The EIR is circulated for a public review period to receive comments. The project team provides responses to the comments and identifies and discloses any modifications to the Community Plan Update or its EIR, if applicable, before seeking approval from Planning Commission and City Council.

Organization of the Report

Following this introductory chapter, the report is organized as follows:

- Chapter 2 describes the methodologies used to analyze conditions of the existing transportation system;
- Chapter 3 summarizes planning documents relevant to the Mira Mesa Community Plan Update
 Mobility Element
- Chapter 4 describes existing conditions and analysis methodologies for the pedestrian, bicycle, transit, roadway, and freeway networks. This chapter also includes discussions on parking utilization, Intelligent Transportation Systems (ITS), and Transportation Demand Management (TDM) strategies, as well as airport, passenger rail, and goods movement within the community.
- Chapter 5 concludes with a summary of key mobility needs to be considered as the planning process moves forward.

Mira Mesa CPU | Existing Mobility Conditions June 2019

2 METHODOLOGY

The following section describes the methodology used to determine the study area and evaluate existing conditions of the mobility network within the Mira Mesa community. The existing conditions evaluation process includes the following analyses:

	Demand	 Using existing peak period pedestrian counts Based upon the Pedestrian Priority Model (PPM) Based upon census-based mode share data Using route typology definition
Pedestrian	Safety	Using pedestrian-related collision data for the past five years
	Quality	Using Pedestrian Environment Quality Evaluation (PEQE) analysis
	Connectivity	Using pedestrian network and sidewalk inventory dataUsing a walkshed ratio evaluation
	Demand	 Using existing peak period bicycle counts Based upon the Bicycle Demand Model (BDM) Based upon census-based mode share data
Bicycle	Safety	Using bicycle-related collision data for the past five years
	Quality	Using Level of Traffic Stress (BLTS) analysis
	Connectivity	 Using a bikeshed ratio evaluation (Low-stress) Using combination of BLTS and bikeshed evaluations
	Demand	 Using existing transit ridership information Based upon census-based mode share data (Potential) based upon census-based population density data (Potential) based upon LODES employment density data
Transit	Safety	 Using pedestrian- and bicycle-related collision data for the past five years
	Quality	Using inventory of transit stop amenitiesUsing roadway speed simulation analysis
	Connectivity	Using walkshed and bikeshed ratios near major transit stations
	Demand	Using existing peak period turning movement and daily volume counts
	Safety	Using vehicle collision data for the past five years
Vehicle	Quality	 Using roadway level of service based on volume-to-capacity ratio Using roadway travel time level of service based on speed Using intersection level of service based on delay Using freeway level of service based on density Using freeway ramp capacity based on volumes and queues
	Connectivity	Using vehicle miles travelled

2.1 PEDESTRIAN

Pedestrian Study Area

The pedestrian study area was identified in coordination with City staff, and includes areas which meet one or more of the following criteria:

- Existing Pedestrian Demand: The Pedestrian Priority Model (PPM) was used to document relative pedestrian demands across the Mira Mesa community. The model consists of three submodels trip attractors, generators, and detractors reflecting high pedestrian propensity along with potential barriers or safety concerns. Thresholds for high demand were established relative to the community itself and not relative to the City as a whole. Areas with a score that is above the community average and along circulation element roadways were selected
- **Pedestrian Safety:** locations with two or more pedestrian collisions over the analyzed five-year period
- Proximity to Transit: areas within a half-mile of a major transit stop

In addition to the criteria above, the pedestrian study area was expanded in coordination with City staff to include major and collector roadways, as well as corridors that satisfied pedestrian network gaps or connections to schools and parks. The pedestrian study area is identified in **Figure 2-1**.

Pedestrian Demand

Pedestrian demand was evaluated using four different sources and methodologies:

- 1. Pedestrian Count Data
- 2. City of San Diego's PPM
- 3. US Census Survey Information
- 4. Pedestrian Route Typology

PEDESTRIAN COUNT DATA

Existing pedestrian demand was determined using turning movement counts conducted for the vehicular analysis portion of this project. Vehicles, pedestrians, and bicycles were counted at 92 intersections during the AM and PM peak periods. A summary of peak hour volumes is provided in **Section 4.1.1**.

CITY OF SAN DIEGO PPM

The City of San Diego's City PPM was used to evaluate the relative pedestrian demand within the Mira Mesa community. The PPM evaluates pedestrian demand based on existing land use and other characteristics within the built environment. The PPM determines demand based on three types of amenities: pedestrian trip attractors, trip generators, and trip detractors. A summary of land uses and other amenities in each category is shown below in **Table 2-1**. Using the factors in the table, the PPM identifies pedestrian propensity land uses and population concentrations. The PPM also considers factors indicating potential pedestrian barriers or safety issues.

The PPM was used in determining the pedestrian study area. Using the PPM in GIS format, the data was filtered to show areas with values above the average score of the community's dataset. The average score for the community identified as just under 18, and high pedestrian demand areas were identified as scoring 18 or higher. These high demand areas were also used in the pedestrian quality and connectivity assessments. This is described in more detail in Section 4.1.1.



FIGURE 2-1

Pedestrian Analysis Study Area

Table 2-1 Pedestrian Demand Factors

Category	Pedestrian Demand Factors			
Attractors	Schools, Universities, Neighborhood Civic Facilities, Neighborhood and Community Retail, Parks and Recreation Facilities, Proximity to and Ridership at Transit Stops/Stations			
Generators	Population and Employment Density, Age, Income, Disability Density, Mixed Land Use Density			
Detractors	Collisions, Traffic Volumes, Traffic Speeds, Lack of Street Lighting, Barriers			

Source: Active Travel Assessments, Integrating Bicycle, Pedestrian and Transit Evaluation in Long Range Planning (City of San Diego, 2017)

US CENSUS SURVEY DATA

In addition to the PPM assessment of pedestrian demand, the American Community Survey¹ (ACS) 5-year estimates commuting data (2012-2016) was utilized to understand the existing commute mode share by walking for the community. The ACS commuting data provides information about the means of transportation to work by employees 16 years and older for each census block group². The means of transportation to work represents the commute mode within the community.

The ACS commuting data was filtered to the census block groups within the Mira Mesa community boundary. The "pedestrian commute mode share" was then calculated as a percent of the total mode share. This was accomplished by taking the number of employees in Mira Mesa who walk to work, divided by the total number of employees for each block group in the community, and multiplying it by 100 to develop a percent as shown below:

$$Pedestrian \ Commute \ Mode \ Share = \left(\frac{Total \ number \ of \ employees \ who \ walk \ to \ work}{Total \ number \ of \ employees \ within \ each \ block \ group}\right) \times 100$$

The "pedestrian commute mode share" was compared to City and County of San Diego average pedestrian mode share percentages.

¹ The American Community Survey (ACS) is conducted by the US Census Bureau and provides estimates of the characteristics of the population over a specific time period at various geography levels. ACS data is available via Tiger/Line at various geographic levels.

² US Census block groups are statistical divisions of census tracts. A block group consists of clusters of blocks within the same census tracts. Block groups are generally defined to contain between 600 and 3,000 people.

PEDESTRIAN ROUTE TYPOLOGY

The Pedestrian Master Plan includes a comprehensive analysis of existing conditions and needs within a community. The pedestrian route typology methodology was established in Appendix B³ of the City's Pedestrian Master Plan effort and is presented in **Table 2-2**. This methodology establishes criteria for defining pedestrian route types and ultimately developing priority pedestrian improvements.

Pedestrian route type criteria and data sources used in determining the appropriate typology for each facility within the Mira Mesa community are identified in **Table 2-2**. To determine typology within the community, the data sources shown in Table 2-2 were overlaid on each other. The circulation element routes within the community were then given an assumed typology based on guidance provided in Figure 2-1.

Phase I Pedestrian Route Tyj Criteria	Phase 2 & 3 pe Operationalization of Route Type Criteria	Data Sources
Street Design Manua Classification	al Circulation Element Roadway Classification	ROADS_ALL.shp (SANDAG, 2018)
Land Uses	Pedestrian Priority Attractor Model and existing adjacent land uses and intensities	PPM (City of San Diego 2015) and LANDUSE_CURRENT.shp (SANDAG, 2018)

Table 2-2 Pedestrian Route Type Criteria

Source: City of San Diego Pedestrian Master Plan Volume 1, Appendix B (2015)

³https://www.sandiego.gov/sites/default/files/legacy/planning/programs/transportation/mobility/pdf/sdpmp_volume_1_appendix_b.pd

							7. Trail (Included for
ROUTE TYPE:	1. District Sidewalks	2. Corridor Sidewalks	3. Connector Sidewalks	4. Neighborhood Sidewalks	5. Ancillary Pedestrian Facilities	6. Path	Reference Only, not a Focus of this Plan)
Purpose	Sidewalks Along Roads that Support Heavy Pedestrian Levels in Mixed-use Concentrated Urban Areas	Sidewalks Along Roads that Support Moderate Density Business & Shopping Districts with Moderate Pedestrian Levels	Industrial or Business Complexes with Limited Lateral	Sidewalks Along Roads that Support Low to Moderate Density Housing with Low to Moderate Pedestrian Levels	Facilities Away or Crossing Over Streets such as Plazas, Paseos, Promenades, Courtyards or Pedestrian Bridges & Stairways	Walkways and Paved Paths that are not Adjacent to Roads that Support Recreational and Transportation Purposes	Unpaved Walk No Adjacent to Roads Used for Recreational Purposes
Typical Adjacent "Street Design Manual" Classifications	All types of adjacent streets are possible	Commercial, Urban Collector, Urban Major & Arterial	Commercial, Industrial, Urban Major, Rural Collector & Arterial	Rural, Low Volume Residential, Residential Local & Sub-collector	Not associated with a street	Not associated with a street	Not associated with a street
Cross Reference to Related "Strategic Framework Plan" Definitions	Existing: Regional Centers, Urban Villages & Neighborhood Villages	Existing: Sub- regional Districts and Transit Corridors	Existing: Sub- regional Districts, Transit Corridors, & Suburban Residential along Major Arterials	All other Residential Areas not Classified under the Strategic Framework Plan	Most common in Regional Centers, Urban or Neighborhood Villages but can be in any area	Can occur in any area, but most often found in Recreation, Tourist or Open Space Areas	Can occur in any area, but most often found in Recreation or Open Space Areas
Typical Adjacent Land Uses	Mixed-use Housing, Commercial, Office & Entertainment with Urban Densities	Multiple Land Uses but may be Separated. Often Strip Commercial or Office Complex.	Open Space, Industrial Uses, Institutional Uses or other Pedestrian Restricted Uses	Single-family and Moderate Density Multi-Family with Limited Supporting Neighborhood Commercial	Adjacent Land Uses Vary	Adjacent Uses Vary, Often Recreational or Open Space or Housing	Open Space, Parks and Natura Areas

Figure 2-2 City of San Diego Pedestrian Route Typologies

Source: City of San Diego Pedestrian Master Plan - City-Wide Implementation Framework Report (2006), Table 26

A summary of the existing typology in the Project Study Area is included in Section 4.1.1.

Pedestrian Safety

To understand existing pedestrian safety issues, a safety assessment was performed using collision data obtained from the San Diego Police Department's Crossroads software (SDPD) for the period from October 2012 through September 2017. Collisions from SDPD were geocoded and mapped to display the locations of collisions within the Mira Mesa community.

The location and concentration of pedestrian-involved collisions was taken into consideration when developing the pedestrian study area, as locations with two or more collisions between 2012 and 2017 were included in the pedestrian quality and connectivity assessments.

Several tables were also created to further understand safety issues and trends within the community, including

- 1. Most frequent pedestrian collision locations,
- 2. Primary cause of collisions
- 3. Pedestrian collisions by party at fault, and
- 4. Pedestrian collisions by location types.

The collision location types were identified as intersection, midblock, or approaching/departing intersection.

- Collisions that occurred within 100 feet of the center of the intersection were identified as intersection collisions to account for vehicles that are queued at the intersection.
- Collisions that occurred between 100 feet and 350 feet from the center of the intersection were identified as approaching/departing collisions. This net 250 feet is reflective of the stopping sight distance of a vehicle travelling at 35 mph.
- Collisions that occurred at a distance over 350 feet away from the center of the intersection were identified as mid-block collisions.

A map showing the spatial distribution of pedestrian-involved collisions in the Project Study Area and results of the pedestrian safety analysis are summarized in **Section 4.1.2**. For presentation purposes, the intersection and approaching/departing intersection collisions were grouped together. Any collision within 350 feet of the center of the intersection were considered intersection-related. Mid-block locations were then evaluated on a case-by-case basis and bundled if they occurred within close proximity of each other, with similar roadway characteristics, and collision trends. Locations that were grouped together were reviewed and approved by the City.

Pedestrian Facility Quality

The quality of all existing pedestrian facilities (roadway segments, intersection crossings, and mid-block crossings) within the pedestrian study area were evaluated using the Pedestrian Environment Quality Evaluation (PEQE) tool criteria described in **Table 2-3**. The PEQE methodology used by the City was derived from the Pedestrian Environmental Quality Index (PEQI) assessment developed by the San Francisco Department of Public Health⁴. The evaluation yields High-, Medium-, or Low-Quality designations for each facility based upon the following scoring system:

Low-Quality:	< 4 points
Medium-Quality:	= 4 - 6 points
High-Quality:	> 6 points

The results of the existing PEQE analysis for facilities within the pedestrian study area are included in **Section 4.1.3**. A detailed table summarizing the PEQE inputs is included in **Appendix B**.

⁴ Pedestrian Environmental Quality Index, San Francisco Department of Public Health (2012)

Facility Type	Measure	Description/Feature	Scoring				
	Horizontal	Between the edge of auto travel	0 point: < 6 feet				
	Buffer	way and the clear pedestrian	1 point: 6 - 14 feet				
		zone	2 points: > 14 feet				
	Lighting	Standard requirement - 150 200'	0 point: below standard/requirement 1 point: meet standard/requirement				
Segment	Lighting	Standard requirement = 150-300'	2 points: exceed standard/requirement				
between two	Clear						
intersections	Pedestrian	5' minimum	0 point: has obstructions				
	Zone	o minimum	2 points: no obstruction				
			0 point: > 40 mph				
	Posted		1 point: 30 - 40 mph				
	Speed Limit		2 points: < 30 mph				
	Ма	ximum	8 points				
		Enhanced/High Visibility					
	Physical	Crosswalk	0 point: < 1 feature per ped crossing				
	Feature	Raised Crosswalk/Speed Table	1 point: 1 – 2 features per ped crossing				
	i outuro	Advanced Stop Bar	2 points: > 2 features per ped crossing				
		Bulb out/Curb Extension					
	Operational Feature	Pedestrian Countdown Signal	0 point: < 1 feature per ped crossing				
Intersection –		Pedestrian Lead Interval	1 point: 1 – 2 features per ped crossing				
Individual		No-Turn On Red Sign/Signal	2 points: > 2 features per ped crossing				
Crossing		Additional Pedestrian Signage	0 point: no existing curb ramp				
	ADA Curb		1 point: existing curb ramp is below				
	Ramp		standard/requirement				
			2 points: curb ramp meets standard/requirement				
	T		0 point: No control				
	Traffic Control		1 point: Stop sign controlled				
	Control		2 points: Signal/ Roundabout/Traffic Circle				
	Ма	ximum	8 points				
	Visibility		0 point: w/o high visibility crosswalk				
			2 points: with high visibility crosswalk				
	Crossing		0 point: no treatment				
	Distance		2 points: with bulb out or median pedestrian refuge				
	ADA		0 point: no existing curb ramp 1 point: existing curb ramp is below				
Mid-block Crossing			standard/requirement				
			2 points: curb ramp meets standard/requirement				
			0 point: No control				
			1 point: Pedestrian Activated Warning Device (In-				
	Traffic		pavement, Pedestrian Activated Flashing Beacons				
	Control		etc.)				
			2 points: Signal/Pedestrian Hybrid Beacon (HAWK)				
	Ма	ximum	8 points				

Table 2-3 PEQE Scoring Criteria

Source: DRAFT Active Travel Assessments: Integrating Bicycle, Pedestrian and Transit Evaluation in Long Range Planning White Paper (City of San Diego, 2017)

Pedestrian Network Connectivity

PEDESTRIAN NETWORK INVENTORY

A 2015 existing sidewalk inventory of the study area was provided by City staff in Geographic Information System (GIS) format for review and analysis in the ArcGIS software. This data was used for review and analysis in the ArcGIS software to provide an overview of where pedestrian connections are currently provided, areas that have missing pedestrian facilities, and barriers that may impede pedestrian connectivity. Missing sidewalks were identified to show existing gaps. Asphalt sidewalks were also identified through field or aerial imagery review to identify where sidewalks exist but may not be to City standard.

As a separate effort, pedestrian barriers were identified to understand community-specific environments. Barriers are intended to identify locations where connections may be feasible but will be limited. These include freeways, rail tracks, canyons, mountains/hills, water bodies, and other unique features. The current inventory with missing facilities within the pedestrian study area are included in Section 4.1.3.

WALKSHED ANALYSIS

Pedestrian network connectivity was evaluated utilizing a walkshed ratio for study intersections within the pedestrian study area. The Walkshed Ratio was calculated by comparing the land area accessible within a ½-mile pedestrian network buffer to the land areas accessible within a ½-mile "as-the-crow-flies" buffer. A higher Walkshed Ratio represents better overall connectivity at a particular intersection⁵. The Walkshed Ratio utilizes the following formula:



⁵ 65% is typically the highest Walkshed Ratio that can be achieved in even the most ideal communities (i.e. urban downtown settings with tight grid networks). Therefore, any community with a connectivity ratio over 50% may be considered ideal from a pedestrian network standpoint.

The only private roads included as part of the network for this analysis were Miramar College sidewalks. The ArcGIS Network Analyst tool was used to calculate the walkshed ratio, relying on the network inventory provided by the City with modifications made for asphalt sidewalks or private connections where applicable. The quality of the pedestrian facility was also not considered, as that is addressed in the PEQE evaluation. An overview of the existing Walkshed Ratio analysis for the Mira Mesa community is provided in Section **4.1.4**.

2.2 BICYCLE

Bicycle Study Area

The Bicycle Study Area is equivalent to the pedestrian study area. Locations identified by the City of San Diego's Bicycle Demand Model (BDM) and where multiple bicycle-related collisions occurred from 2012-2017 required additional focus. However, the entire project study area was evaluated for at least one of the four performance measures: demand, safety, quality, connectivity.

Bicycle Demand

Bicycle demand was evaluated using three different sources and methodologies:

- 1. Bicycle Count Data
- 2. City of San Diego's Bicycle Demand Model
- 3. US Census Survey Information

BICYCLE COUNT DATA

Existing bicycle demand was determined using intersection turning movement counts conducted for the vehicular analysis portion of this project. Vehicles, pedestrians, and bicycles were counted at 92 intersections during the AM and PM peak periods. A summary of bicycle peak hour volumes is provided in **Section 4.2.1**.

CITY OF SAN DIEGO BICYCLE DEMAND MODEL (BDM)

The City of San Diego's BDM was used to evaluate facilities with high cycling demand or locations warranting relatively higher considerations for bicycle infrastructure improvements within the Mira Mesa community.

The BDM analyzes two components of demand: intra-community travel and inter-community travel. The intra-community demand submodel is based on population characteristics combined with bicycle trip attractors and generators within the community. The inter-community demand submodel focuses on higher intensity areas and their proximity to land uses typically associated with higher rates of cycling activity. A summary of land uses and other amenities in each category is shown below in **Table 2-4**.

Table 2-4 Bicycle Demand Factors

Category	Bicycle Demand Factors
Attractors	Schools, Universities, Neighborhood Civic Facilities, Neighborhood and Community Retail, Parks and Recreation Facilities, Proximity to and Ridership at Transit Stops/Stations
Generators	Population and Employment Density, Age, Income, Disability Density, Mixed Land Density

Source: City of San Diego (2017)

Using the BDM, high bicycling demand roadway segments were identified and are described in more detail in **Section 4.2.1**. This provides information on where bicycling is attractive based on land uses and helps facilitate where future investments in bicycle facilities may be most desirable.

US CENSUS SURVEY DATA

In addition to the BDM assessment of bicycle demand, the American Community Survey¹ (ACS) 5-year estimates commuting data (2012-2016) was utilized to understand the existing commute mode share by bike for the community. The ACS commuting data provides information about the means of transportation to work by employees 16 years and older for each census block group². The means of transportation to work represents the commute mode within the community.

The ACS commuting data was filtered to the census block groups within the Mira Mesa community boundary. The "bicycle commute mode share" was then calculated as a percent of the total mode share. This was accomplished by taking the number of employees in Mira Mesa who bike to work, divided by the total number of employees for each block group in the community, and multiplying it by 100 to develop a percent as shown below:

Bicycle Commute Mode Share =
$$\left(\frac{\text{Total number of employees who bike to work}}{\text{Total number of employees within each block group}}\right) \times 100$$

The "bicycle commute mode share" was compared to City and County of San Diego average bicycle mode share percentages.

Bicycle Safety

To understand existing bicycle safety issues, a safety assessment was performed using collision data from October 2012 to September 2017 obtained from the San Diego Police Department's Crossroads software (SDPD) provided by City staff. Collisions from SDPD were geocoded and mapped to display the locations of bicycle-related collisions within the Mira Mesa community.

Several tables were created to further understand safety issues and trends within the community, including:

- 1. Most frequent bicycle collision locations,
- 2. Primary bicycle collision causes,
- 3. Bicycle collisions by party at fault, and
- 4. Bicycle collisions by location types.

Similar to the evaluation for pedestrians, bicycle-related collision location types are identified as intersection, midblock, or approaching/departing intersection.

- Collisions that occurred within 100 feet of the center of the intersection were identified as intersection collisions to account for vehicles that are queued at the intersection.
- Collisions that occurred between 100 feet and 350 feet from the center of the intersection were identified as approaching/departing collisions. This net 250 feet is reflective of the stopping sight distance of a vehicle travelling at 35 mph.
- Collisions that occurred at a distance over 350 feet away from the center of the intersection were identified as mid-block collisions.

A map showing the spatial distribution of bicycle-involved collisions was created. For presentation purposes, the intersection and approaching/departing intersection collisions were grouped together. Any collision with 350 feet of the center of the intersection were considered intersection-related. Mid-block locations were then evaluated on a case-by-case basis, and bundled if they occurred within close proximity of each other with similar roadway characteristics and collision trends. Locations that were grouped together were reviewed and approved by the City. The results of the bicycle safety analysis are summarized in **Section 4.2.2**.

Bicycle Facility Quality

The Mineta Transportation Institute published a Low-Stress Bicycling and Network Connectivity analysis ⁶, which establishes a methodology for evaluating the level of traffic stress for bicyclists riding on a designated bicycle facility based on specific factors for roadway segments and intersection approaches. The Mineta Transportation Institute document used the City of San Jose as a test case for applying this methodology. This methodology designates a level of traffic stress (LTS) for roadways and intersections on a scale of LTS 1 (lowest stress) to LTS 4 (highest stress):

- LTS 1 facilities present little traffic stress and demand little attention from cyclists. They are suitable for almost all cyclists and attractive enough for a relaxing bike ride.
- LTS 2 facilities are suitable to most adult cyclists but demand more attention than might be expected from children.
- > LTS 3 starts to introduce a stress level that not all adult cyclists feel comfortable with.
- > LTS 4 is the highest level of stress and may be used by experienced bicyclists or not used at all.

⁶ "Low Stress Bicycling and Network Connectivity", Mineta Transportation Institute, p. 18

The following criteria are used to establish the LTS ranking:

- Roadway Classifications
- Roadway Speeds (posted, or prevailing if available)
- Bicycle Facility Type
- Bike Lane and Buffer Widths
- Intersection Control
- Bike Lane configuration at Intersections
- Parking Lane width
- Existing Transit Routes

Per the methodology guidance, both directions of a roadway segment are independently assigned a score between LTS 1 and LTS 4 based on several criteria shown in **Table 2-5** through **Table 2-7**, while an intersection approach can be assigned a separate score based on criteria shown in **Table 2-8** through **Table 2-11**. Where a table cell shows a result of "(no effect)", the resulting LTS for that situation is equal to the lower adjacent LTS. The level of traffic stress assigned to a location reflects the worst score of applicable criteria. For example, if a segment street width matches criteria for LTS>1, its prevailing speed matches LTS>2, and its bike lane blockage matches LTS 3, then the segment as whole has LTS 3.

Data on roadway classifications, speeds, bicycle facility type, and intersection control were compiled using field observations of roadway segments and intersections for classified roadways in the Mira Mesa community. This information was supplemented with measurement estimates and documentation of bike lane configurations at intersections taken from aerial imagery and was field-verified.

The results of the existing BLTS score analysis are included in Section 4.2.3. A more detailed table summarizing the BLTS inputs for each segment and intersection are included in **Appendix C**.

	LTS <u>></u> 1	LTS <u>></u> 2	LTS <u>></u> 3	LTS <u>></u> 4
Street Width** (through lanes per direction)	1	(no effect)	2 or more	(no effect)
Sum of bike lane and parking lane width	15 ft. or more	14 or 14.5 ft.*	13.5 ft or less	(no effect)
Speed Limit or prevailing speed	25 mph or less	30 mph	35 mph	40 mph
Bike Lane Blockage	Rare	(no effect)	Frequent	(no effect)

Table 2-5 Criteria for Bike Lanes Alongside a Parking Lane

Note: (no effect) =factor does not trigger an increase to this level of traffic stress.

* If speed limit < 25 mph or Class= residential, then any width is acceptable for LTS 2.

	LTS <u>></u> 1	LTS <u>></u> 2	LTS <u>></u> 3	LTS <u>></u> 4
Street Width (through lanes per direction)	1	2, if separated by a raised median	More than 2 or 2 without a separating median	(no effect)
Bike Lane width (includes marked buffer and paved gutter)	6 ft. or more	5.5 ft or less	(no effect)	(no effect)
Speed Limit or prevailing speed	30 mph or less	(no effect)	35 mph	40 mph or more
Bike Lane Blockage	Rare	(no effect)	Frequent	(no effect)

Table 2-6 Criteria for Bike Lanes Not Alongside a Parking Lane

Note: (no effect) =factor does not trigger an increase to this level of traffic stress.

Table 2-7 Criteria for Level of Traffic Stress in Mixed Traffic

	Street Width			
Speed Limits	2-3 Lanes	4-5 Lanes	6+ Lanes	
Up to 25 mph	LTS 1* or 2*	LTS 3	LTS 4	
30 mph	LTS 2* or 3*	LTS 4	LTS 4	
35+ mph	LTS 4	LTS 4	LTS 4	

Note: *Use lower value for streets without marked centerlines or classified as residential and with fewer than 3 lanes; use higher values otherwise.

Table 2-8 Level of Traffic Stress Criteria for Pocket Bike Lanes

Configuration	Level of Traffic Stress
Single right-turn lane up to 150 ft. long, starting abruptly while the bike lane continues straight, and having intersection angle and curb radius such that turning speed \leq 15 mph.	LTS <u>></u> 2
Single right-turn lane up to 150 ft. long, starting abruptly while the bike lane continues straight, and having intersection angle and curb radius such that turning speed \leq 20 mph.	LTS <u>≥</u> 3
Single right-turn lane in which the bike lane shifts to the left but the intersection angle and curb radius are such that turning speed is ≤ 15 mph.	LTS <u>></u> 3
Single right-turn lane with any other configuration; dual right-turn lanes; or right-turn lane along with an option (through-right) lane.	LTS <u>></u> 4

Configuration	Level of Traffic Stress
Single right-turn lane with length \leq 75 ft. and intersection angle and curb radius limit turning speed to 15 mph.	(No effect on LTS)
Single right-turn lane with length between 75 ft. and 150 ft., and intersection angle and curb radius limit turning speed to 15 mph.	LTS <u>></u> 3
Otherwise	LTS = 4

Table 2-9 Level of Traffic Stress Criteria for Mixed Traffic in the Presence of a Right-turn Lane

Table 2-10 Level of Traffic Stress Criteria for Unsignalized Crossings Without a Median Refuge

Speed Limit of Street	Width of Street Being Crossed			
Being Crossed	Up to 3 lanes	4-5 lanes	6+ lanes	
Up to 25 mph	LTS 1	LTS 2	LTS 4	
30 mph	LTS 1	LTS 2	LTS 4	
35 mph	LTS 2	LTS 3	LTS 4	
40 mph	LTS 3	LTS 4	LTS 4	

Table 2-11 Level of Traffic Stress Criteria for Unsignalized Crossings with a Median Refuge Six Feet Wide

Speed Limit of Street	Width of Street Being Crossed			
Being Crossed	Up to 3 lanes	4-5 lanes	6+ lanes	
Up to 25 mph	LTS 1	LTS 1	LTS 2	
30 mph	LTS 1	LTS 2	LTS 3	
35 mph	LTS 2	LTS 3	LTS 4	
40 mph	LTS 3	LTS 4	LTS 4	

Bicycle Network Connectivity

A bicycle connectivity analysis is used to measure the accessibility of a bicycle network to the community. Bicycle connectivity is measured in two ways, both using the ArcGIS Network Analyst tool:

- 1) Bikeshed Ratio, and
- 2) Low-Stress Bicycle Facility Connectivity

BIKESHED RATIO

The Bikeshed Ratio measures overall bicycle connectivity from any given point, by comparing the area accessible via the bicycle network within a given travel distance (the "bikeshed") to the area of an "as-the-crow-flies" radius covering the same travel distance:

Area accessible via the bicycle network by traveling distance X Area accessible via "crow flies" traveling distance X

A higher Bikeshed Ratio at a given point indicates that the network provides better overall bicycle connectivity from that location.⁷

This analysis examined 135 points at study area intersections to create a comprehensive picture of the community bicycle connectivity. The analysis focused specifically on the area reachable between 0.25 miles and 1.0 mile from each point. The inner area within 0.25 miles from each point was removed from the assessment, as it is assumed to be utilized by pedestrian trips.

The ArcGIS Network Analyst tool conducted the core analysis using the Service Area function, by generating a doughnut-shaped (0.25-1.0 mile) "service area" for each point that is reachable via the bicycle network. Dividing that land area by the land area of a 0.25-1.0 "as-the-crow-flies" doughnut (1,884.95 acres) yields the Bikeshed Ratio for each point.

An overview of the existing Bikeshed Ratio analysis is provided in Section 4.2.4.

LOW-STRESS BICYCLE CONNECTIVITY

The Low-Stress Bicycle Connectivity analysis evaluates each Traffic Analysis Zone's (TAZ's) connectivity to the rest of the community via low-stress routes, characterized as LTS 1 or 2. The analysis assigns each TAZ a connectivity score based on the following ratio:

Number of TAZs accessible via low-stress routes (LTS 1 or 2 only) Number of TAZs accessible via all routes

⁷ Due to the presence of natural features and other constraints, 65% is typically the highest Bikeshed Ratio that can be achieved in even the most ideal communities. In general, any score over 50% is considered ideal from a bicycle standpoint.

The ratio is developed using the following steps:

- 1. Assess the number of TAZs accessible via a bicycle network of low-stress routes only (classified as LTS 1 or 2), with LTS 3 and 4 routes removed as potential pathways and acting as barriers to crossing. The resulting number of TAZs represents the numerator of the above ratio.
- 2. Use the Closest Facility function of the ArcGIS Network Analyst tool to develop an unconstrained network of shortest paths to/from the centroids of all TAZs. Paths less than ¼ mile removed since they would likely be made by foot.
- Assess the number of TAZs accessible by the entire unconstrained bicycle network with potential routes developed in the previous step. The resulting number of TAZs represents the denominator of the above ratio.

The ratio is calculated for each TAZ and reflects the percent of all other TAZs that are reachable along LTS 1 or 2 paths. The analysis results in each TAZ being assigned a percentage reflecting its level of connectivity to other TAZs in the community.



2.3 TRANSIT

Transit Demand

Transit demand is affected by both current ridership and potential ridership, as one of the primary factors that determines transit ridership is the proximity of stations to population and employment. Existing and potential transit demand was evaluated using three different sources and methodologies:

- 1. MTS Route Ridership Data (Existing Demand)
- 2. US Census Survey Commute Mode Share Data (Existing Demand)
- 3. US Census Survey Population Density Data (Potential Demand)
- 4. LODES Employment Density Data (Potential Demand)

MTS ROUTE RIDERSHIP DATA

Current transit demand was evaluated by obtaining boarding (riders getting on) and alighting (riders getting off) ridership information for all stations/stops within Mira Mesa from MTS (Spring 2017 data). The information was used to determine the following:

- Number of boardings and alightings by stop
- Ridership by route
- Locations with the highest boardings
- Locations with the highest alightings

US CENSUS SURVEY COMMUTE MODE SHARE DATA

The American Community Survey (ACS)¹ 5-year estimates commuting data (2012-2016) was utilized to understand the existing commute mode share by public transportation for the community. The ACS commuting data provides information about the means of transportation to work by employees 16 years and older for each census block group^{2.} The means of transportation to work represents the commute mode within the community.

The ACS commuting data was filtered to the census block groups within the Mira Mesa community boundary. The "transit commute mode share" was then calculated as a percent of the total mode share. This was accomplished by taking the number of employees who take transit to work (B08301e10), divided by the total number of employees (B08301e1) for each block group, and multiplying it by 100 to develop a percent as shown below:

Transit Commute Mode Share =
$$\left(\frac{\text{Total number of employees who take transit to work}}{\text{Total number of employees within each block group}}\right) \times 100$$

The "transit commute mode share" was compared to City and County of San Diego average pedestrian mode share percentages.

A summary of existing transit demand is provided in Section 4.3.1.

US CENSUS SURVEY POPULATION DENSITY DATA

The American Community Survey (ACS) 5-year estimate population data (2012-2016) was utilized to represent where people live. ACS provides population and demographic information for each census block group³. The ACS population data represents people living within census block group. The ACS population data was filtered to the census block groups within the Mira Mesa community boundary. Then, the population for each census block in Mira Mesa was divided by the area of the census block group in square miles to develop a population density.

To determine the relative level of potential transit ridership within the community, a set of pedestrian walksheds of 0.25-mile was generated from all transit stops. Each walkshed was then overlaid on top of the population data to determine the number of dwelling units that exist within walking distance from each transit stop.

A summary of population within walking distance of each transit stop is included in Section 4.3.1.

LODES EMPLOYMENT DENSITY DATA

Origin-Destination Employment Statistics (LODES)⁸ data was utilized to represent where people work. within a census block level⁹. The data was filtered to the census blocks within the Mira Mesa community boundary. Then, the number of people working in each census block in Mira Mesa was divided by the area of the census block in square miles to develop an employment density.

A set of pedestrian walksheds of 0.25-mile was generated from all transit stops to determine the relative level of potential transit ridership within the community. Each walkshed was then overlaid on top of the employment data to determine the number of jobs that exist within walking distance from each transit stop.

A summary of employment within walking distance of each transit stop is included in Section 4.3.1.

Safety Near Transit Stop/Station

To understand existing pedestrian and bicycle safety issues near transit stations/stops, a safety assessment was performed using collision data obtained from the San Diego Police Department's Crossroads software (SDPD) for the period from October 2012 through September 2017. Collisions from SDPD were geocoded and mapped to display the locations of collisions within the Mira Mesa community.

A 500-foot buffer around transit stations within the community was applied to select the relevant bicycleand pedestrian-involved collisions. A map showing the spatial distribution of combined pedestrian- and bicycle-involved collisions near a transit stop or station is also included in **Section 4.3.2**.

⁸ LODES data is provided by Longitudinal Employer-Household Dynamics (LEHD). LEHD leverages existing data such as censuses, surveys, and administrative records to create new data products. The data files are state-based and organized into three types: Origin-Destination (OD), Residence Area Characteristics (RAC), and Workplace Area Chatacteristics (WAC), all at census block geographic level.

⁹ A census block is the smallest geographic unit used by the US Census Bureau. Census blocks are grouped into block groups, which are grouped into census tracts.

Transit Quality

The quality of the transit system in Mira Mesa was evaluated based on the transit stations and stops throughout the community, as well as the speed of the corridors on which the transit facilities are located.

TRANSIT STATION/STOP QUALITY

Transit stations and stops were reviewed to identify the presence or absence of the following amenities:

- Shelters
- Benches
- Trash Receptacles
- Station Signs
- Maps/Wayfinding
- Lighting
- ADA compliance

The San Diego MTS designates minimum amenity standards for transit stops based on the average number of daily boardings that occur at each stop per the *MTS Design for Transit* manual.

Table 2-12 outlines the standard amenities that should be provided at transit stations/stops based on the daily passenger boardings (across all routes), according to MTS bus stop features guidelines¹⁰.

A monity	Daily Passenger Boardings by Station/Stop					
Amenity	< 50	50 -100	101 -200	201 – 500	> 500	
Sign and Pole	Х	Х	Х	Х		
Built-in Sign					Х	
Expanded Sidewalk			X	Х	Х	
Bench		X	x	Х	Х	
Shelter			Х	Х	Х	
Route Designations	x	Х	Х	Х	Х	
Time Table				Х	Х	
Route Map			Х	Х	х	
System Map					Х	
Trash Receptacle				Х	Х	
Lighting			Х	Х	Х	
ADA Compliant	X	Х	Х	Х	Х	

Table 2-12 Transit Amenity Standards by Ridership Levels

Source: Designing for Transit, MTS (1993)

A summary of ridership and amenities for all stations/stops in the Mira Mesa study area are reported in **Section 4.3.3**.

¹⁰ Designing for Transit: A Manual for Integrating Public Transportation and Land Development in the San Diego Metropolitan Area. San Diego Metropolitan Transit Development Board (MTDB). 1993.
TRANSIT CORRIDOR QUALITY

On-time bus performance can be directly affected by vehicular traffic congestion along roadways serving bus routes. Travel times along certain corridors in the community were calculated using methodologies described in the vehicle section of this chapter. Any routes that utilize the corridors included in the evaluation are discussed for quality of service as it relates to speed. Further information on the travel time and speed is provided in the vehicle section of this chapter.

This information is presented in Section 4.3.3.

Transit Network Connectivity

The latent demand evaluation described under "Transit Demand" indicates the number of potential transit users (residents and employees) within the vicinity of each major transit stop in the community, using a 0.25-mile pedestrian network walkshed and a 0.75-mile bicycle network bikeshed.

The quality connections assessment draws from the quality walking analysis and quality bicycling analysis results (using only "high and medium" quality networks based on the bicycle and pedestrian analysis) to identify quality 0.25-mile pedestrian and 0.75-mile bicycle networks surrounding major transit stations/stops. These distances were defined and based upon information in the San Diego Forward: The Regional Plan, Appendix U4 – SANDAG Regional Transit Oriented Development Strategy, and represent a five-minute travel distance for pedestrians and cyclists.

A Quality Walk Ratio and a Quality Bicycle Ratio were then developed for each major transit station/stop and presented on a map using the following equations:

 Quality Walk Ratio from Transit=
 Quality Walking Distance from Transit

 Quality Bike Ratio from Transit=
 Quality Bike Distance from Transit

 Quality Bike Ratio from Transit=
 Quality Bike Distance from Transit

The resulting Quality Walk Ratio from Transit and Quality Bicycle Ratio from Transit are presented in **Section 4.3.4**.

2.4 VEHICLE

Vehicular Study Area

The vehicular study area encompasses the Mira Mesa Community Planning Area and one segment and intersection beyond the community boundary, in order to capture potential transportation impacts to the adjacent communities associated with the Mira Mesa Community Plan Update. **Figure 2-2** displays the vehicle study area and location of study intersections.

ROADWAY SEGMENTS AND CORRIDORS

Roadway segments were selected based on the following factors:

- Existing Circulation Element roadways functioning or classified as a collector or higher
- Anticipated Circulation Element roadways functioning or classified as a collector or higher
- Roadways providing access to/from freeways

All above roadways with the Mira Mesa community boundary, and approximately one segment beyond the community planning area were evaluated for a total of 195 roadway segments.

INTERSECTIONS

Intersections were selected based on the following factors:

- Existing and anticipated Circulation Element roadways intersecting with other existing and/or anticipated Circulation Element roadways where both roadways function or are classified as a collector or higher, where both intersecting streets meet one of the following conditions:
 - Four or more lanes;
 - o 3-lane roadways carrying more than 15,000 ADT; or
 - o 2-lane roadways carrying more than 10,000 ADT.
- Intersections that provide access to/from freeways located within the community
- Signalized intersections along corridors where travel time analysis is performed

Using these criteria, a total of 92 intersections were included.

FREEWAY SEGMENTS AND RAMPS

Freeway segments adjacent to the community and freeway entrance ramps that are controlled by ramp meters are included in the study area. Figure 2-4 graphically displays the location of each of the freeway segments and entrance ramps included in the analysis study area. This includes facilities along I-15 on the east side of the community, and I-805 on the west side of the community.



FIGURE 2-3

Vehicular Analysis Study Area



FIGURE 2-4

Freeway Analysis Study Area

Vehicular Demand

Existing demand was determined using a combination of data obtained, including:

- Intersection turning movement counts at study intersections during peak hours,
- Daily roadway volumes on study roadways
- Caltrans-published peak-hour and daily volumes for study area freeway facilities.

Vehicular Safety

To further understand existing safety issues, a safety assessment was performed using collision data from October 2012 to September 2017 obtained from the San Diego Police Department's Crossroads software (SDPD). All collisions from SDPD were geocoded and mapped to display the locations of collisions within the Mira Mesa community.

Several tables were created to further understand safety issues and trends within the community, including:

- 1. High-frequency collision locations,
- 2. Fatal collision locations,
- 3. Collision Types, and
- 4. Primary Cause.

Similar to the evaluation for pedestrians and bicycles, collision location types were identified as intersection, midblock, or approaching/departing intersection.

- Collisions that occurred within 100 feet of the center of the intersection were identified as intersection collisions to account for vehicles that are queued at the intersection.
- Collisions that occurred between 100 feet and 350 feet from the center of the intersection were identified as approaching/departing collisions. This net 250 feet is reflective of the stopping sight distance of a vehicle travelling at 35 mph.
- Collisions that occurred at a distance over 350 feet away from the center of the intersection were identified as mid-block collisions.

Maps showing the spatial distribution and concentration of vehicle-involved collisions was created. The results of the vehicular safety analysis are summarized in Section 4.4.2.

Vehicular Quality

Analysis of the vehicular systems – roadways, intersections and freeways – were prepared for this study in accordance with City and SANTEC/ITE Traffic Impact Study Guidelines. The vehicular analysis provides an evaluation of vehicular operations at intersections and along roadway and freeway segments. A description of the methodologies employed to evaluate vehicular travel is outlined throughout this section.

Level of Service (LOS) is a quantitative measure representing the quality of service from the driver's perspective. LOS A represents optimal conditions for the driver, while LOS F represents the worst. **Table 2-13** describes generalized definitions of auto LOS A through F.

LOS	Characteristics		
A	Primarily free-flow operation. Vehicles are completely unimpeded in their ability to maneuver within the traffic stream. Controlled delay at the boundary intersections is minimal. The travel speed exceeds 85% of the base free-flow speed.		
В	Reasonably unimpeded operation. The ability to maneuver within the traffic stream is only slightly restricted and control delay at the boundary intersections is not significant. The travel speed is between 67% and 85% of the base free-flow speed.		
С	Stable operation. The ability to maneuver and change lanes at mid-segment locations may be more restricted than at LOS B. Longer queues at the boundary intersections may contribute to lower travel speeds. The travel speed is between 50% and 67% of the base free-flow speed.		
D	Less stable condition in which small increases in flow may cause substantial increases in delay and decreases in travel speed. This operation may be due to adverse signal progression, high volume, or inappropriate signal timing at the boundary intersections. The travel speed is betwee 40% and 50% of the base free-flow speed.		
E	Unstable operation and significant delay. Such operations may be due to some combination of adverse signal progression, high volume, and inappropriate signal timing at the boundary intersections. The travel speed is between 30% and 40% of the base free-flow speed.		
F	Flow at extremely low speed. Congestion is likely occurring at the boundary intersections, as indicated by high delay and extensive queuing. The travel speed is 30% or less of the base free-flow speed. Also, LOS F is assigned to the subject direction of travel if the through movement at one or more boundary intersections have a volume-to-capacity ratio greater than 1.0.		

Table 2-13 Vehicular Level of Service Definitions

Source: Highway Capacity Manual, Transportation Research Board (2010)

CORRIDOR SPEED ANALYSIS

Corridors within the community were selected for analysis of travel time during the peak hours in addition to the estimated daily capacity. The corridor analysis consisted of three procedures:

- travel time runs performed under actual conditions,
- crowd-sourced data collection, and
- simulated travel time using traffic analysis software.

Field-Collected Travel Time Data

Travel time runs were performed using the floating car method. This method simulates average travel speed along a corridor by maintaining a similar position within vehicle progression bands. This provides a real point in time to compare with the crowd-sourced data and calibrate travel time expectations. The field-collected travel time data was obtained via the Traction application developed by Kimley-Horn and was compared with the crowd-sourced data to validate the information reflects a typical experience.

Crowd-Sourced Travel Time Data

Traction software was utilized to capture crowd-sourced travel times for a one-month period along the corridors. Data was collected at 10-minute intervals between 5:00 AM and 9:00 PM. This data provides information to show fluctuations in travel times at different times of days and on different days of the week. Further, it gives the ability to validate the field-collected travel time data.

Simulated Travel Time Data

A computerized estimate of arterial speed analysis was performed utilizing the Synchro 10 traffic analysis software (by Trafficware, 2011) and 6th Edition HCM methodology. The software provides a computation of LOS using average vehicle travel speed. This average speed is computed by adding the running time between signalized intersections assuming free flow speed along the corridor combined with the control delay associated with each signalized intersection.

Average speed is strongly influenced by the number of signals per mile and the average intersection delay. On a given facility, factors such as inappropriate signal timing, poor progression, and increasing traffic flow can substantially degrade the arterial LOS. **Table 2-14** presents the arterial LOS criteria based on the urban street class and average travel speed.

	Tra	avel Speed	Threshold	d by Base	Free-Flow	Speed (m	i/h)	Volume-to-
LOS	55	50	45	40	35	30	25	Capacity Ratio*
Α	> 44	>40	>36	>32	>28	>24	>20	
В	>37	>34	>30	>27	>23	>20	>17	
С	>28	>25	>23	>20	>18	>15	>13	≤1.0
D	>22	>20	>18	>16	>14	>12	>10	SI.0
Е	>17	>15	>14	>12	>11	>9	>8	
F	≤17	≤15	≤14	≤12	≤11	≤9	≤8	
F				Any				>1.0

Table 2-14 Urban Street LOS Criteria

Source: Highway Capacity Manual 6th Edition, Chapter 18, Page 18-7, Exhibit 18-1

Note: * Volume-to-capacity ratio of through movement at downstream boundary intersection.

ROADWAY SEGMENT ANALYSIS

The analysis of roadway segment is LOS based on the functional classification of the roadway, the maximum capacity, roadway geometrics, and existing or forecast Average Daily Traffic (ADT) volumes. **Table 2-15** presents the roadway segment capacity and LOS standards utilized to analyze roadways evaluated in this report.

These standards are generally used as long-range planning guidelines to determine the functional classification of roadways. The actual capacity of a roadway facility varies according to its physical and operational attributes. LOS D is considered acceptable for Mobility Element roadway segments in the City of San Diego. Often, a roadway segment that is analyzed to be LOS E or F based on theoretical capacity is found to operate acceptably in practice. In such cases, HCM arterial analysis may be conducted and utilized (or intersection analysis, if arterial analysis is not applicable) to provide a more accurate indication of LOS.

Road Class	Lanes	Α	В	С	D	Е
Freeway	8	60,000	84,000	120,000	140,000	150,000
Freeway	6	45,000	63,000	90,000	110,000	120,000
Freeway	4	30,000	42,000	60,000	70,000	80,000
Expressway	6	30,000	42,000	60,000	70,000	80,000
Prime Arterial*	8	35,000	50,000	70,000	75,000	80,000
Prime Arterial*	7	30,000	42,500	60,000	65,000	70,000
Prime Arterial	6	25,000	35,000	50,000	55,000	60,000
Major Arterial*	7	22,500	31,500	45,000	50,000	55,000
Major Arterial	6	20,000	28,000	40,000	45,000	50,000
Major Arterial*	5	17,500	24,500	35,000	40,000	45,000
Major Arterial	4	15,000	21,000	30,000	35,000	40,000
Major Arterial*	2	7,500	10,500	15,000	17,500	20,000
Collector (w/ two-way left-turn lane)	4	10,000	14,000	20,000	25,000	30,000
Collector (w/o two-way left-turn lane) Collector (w/ two-way left-turn lane)	4 2	5,000	7,000	10,000	13,000	15,000
Collector (No fronting property)	2	4,000	5,500	7,500	9,000	10,000
Collector (w/o two-way left-turn lane)	2	2,500	3,500	5,00	6,500	8,000
Sub-Collector (single-family)	2			2,200		

Table 2-15 City of San Diego Roadway Segment Capacity and LOS Summary

Notes:

The volumes and the average daily level of service listed above are only intended as a general planning guideline. Levels of service are not applied to residential streets since their primary purpose is to serve abutting lots, not carry through traffic. Levels of service normally apply to roads carrying through traffic between major trip generators and attractors. ¹Cross Section: Curb to Curb width (feet)/Right-of-way width (feet)

Sources:

City of San Diego Traffic Impact Study Manual, Table 2, Page 8, July 1998. *City of San Diego Planning Department Mobility Staff Input

PEAK HOUR ARTERIAL ANALYSIS

Average arterial travel speed is strongly influenced by the number of signals per mile and the average intersection delay. On a given facility, factors such as inappropriate signal timing, poor progression, and increasing traffic flow can substantially degrade the arterial efficiency.

Typically, Synchro arterial analysis is used to determine the arterial speeds and resulting levels of service. However, this method was not producing results that agreed with the travel time data or the crowd-sourced data that was collected.

Synchro is a macroscopic analysis tool that has limitations by nature. Therefore, Synchro's microscopic counterpart SimTraffic was used to determine the arterial speeds for the study corridors. SimTraffic utilizes the data input into Synchro to build a model that measures the full impact of intersection queuing and blocking. SimTraffic was run three times for the AM and PM peak models to obtain average corridor speeds for the study segments. The SimTraffic arterial reports are provided in **Appendix G**.

PEAK HOUR INTERSECTION ANALYSIS

This section presents the methodologies used to perform peak hour intersection capacity analysis, for both signalized and unsignalized intersections. The following assumptions were utilized in conducting all intersection level of service analyses:

- **Volumes**: Collected turning movement counts and selected the single hour in the morning and afternoon that has the highest total intersection volume, independently evaluated for each individual intersection.
- **Peak Hour Factor**: Obtained from the turning movement count data for the highest total intersection volume, independently evaluated for each individual intersection. Peak Hour Factors were calculated and evaluated by intersection approach (eastbound, westbound, northbound, and southbound).
- Pedestrian Calls per Hour: Collected existing pedestrian counts during peak hours.
- **Heavy Vehicle Factor**: Heavy vehicles are defined as vehicles with three or more axles. Two percent is the standard, default heavy vehicle factor provided in HCM and Synchro 10 software.
 - At select locations where heavy vehicles are anticipated, vehicle classification data was included in the daily traffic volume data collection. Heavy vehicle factors along these corridors were assigned for the through movements at those respective intersection approaches along that corridor.
 - Where information was not collected, a heavy vehicle factor of two percent was assumed.
- **Signal Timing**: Obtained from existing signal timing plans.
- Lane Geometry and Control: Documented at the time counts were collected. Defacto right-turn lanes for signalized intersections were assessed based on criteria developed in coordination with the City.

Table 2-16 summarizes the LOS criteria for unsignalized intersections. Consistent with City policy, LOS Dwill be used in this study as the goal LOS to achieve for peak hour intersection operations.

	Control Delay (sec/veh)		
LOS	Signalized Unsignalized Intersections (a) Intersections (b)		Description
А	<u><</u> 10.0	<u><</u> 10.0	Operations with very low delay and most vehicles do not stop.
В	>10.0 and <u><</u> 20.0	>10.0 and <u><</u> 15.0	Operations with good progression but with some restricted movement.
С	>20.0 and <u><</u> 35.0	>15.0 and <u><</u> 25.0	Operations where a significant number of vehicles are stopping with some backup and light congestion.
D	>35.0 and <u><</u> 55.0	>25.0 and <u><</u> 35.0	Operations where congestion is noticeable, longer delays occur, and many vehicles stop. The proportion of vehicles not stopping declines
E	>55.0 and <u><</u> 80.0	>35.0 and <u><</u> 50.0	Operations where there is significant delay, extensive queuing, and poor progression.
F	>80.0	>50.0	Operations that is unacceptable to most drivers, when the arrival rates exceed the capacity of the intersection.

Table 2-16. LOS Criteria for Intersections

Notes:

(a) Highway Capacity Manual 6th Edition, Chapter 19, Page 16, Exhibit 19-16

(b) Highway Capacity Manual 6th Edition, Chapter 20, Page 6, Exhibit 20-2

Signalized Intersections Analysis

The signalized intersection analysis utilized in this study conforms to the operational analysis methodology outlined in 6th Edition Highway Capacity Manual (HCM6). This method defines LOS in terms of delay, or more specifically, average control delay per vehicle (seconds/vehicle).

The HCM6 methodology sets 1,900 passenger-cars per hour per lane (pcphpl) as the ideal saturation flow rate at signalized intersections based upon the minimum headway that can be sustained between departing vehicles at a signalized intersection. The service saturation flow rate, which reflects the saturation flow rate specific to the study facility, is determined by adjusting the ideal saturation flow rate for lane width, on-street parking, bus stops, pedestrian volume, traffic composition (or percentage of heavy vehicles), and shared lane movements (e.g. through and right-turn movements sharing the same lane). The LOS criteria used for this technique are described in Table 2-16. The computerized analysis of intersection operations will be performed utilizing the Synchro 10 (HCM6 methodology) traffic analysis software (by Trafficware).

LOS for signalized intersections is defined in terms of delay, which is a measure of driver discomfort, frustration, fuel consumption, and loss of travel time. Specifically, LOS criteria are stated in terms of the

average control delay per vehicle for the peak 15-minute period within the hour analyzed. The average control delay includes initial deceleration delay, queue move-up time, and final acceleration time in addition to the stop delay.

Synchro 10 (Trafficware) software was used to analyze signalized intersections in the study area. Synchro provides the option to report methodologies for both 6th Edition and 2000 Editions of the HCM. The 6th Edition version of the HCM focused more on specific controller set ups, and due to these changes, there are several limitations within Synchro that do not allow results to be produced for an intersection. Some of these limitations include:

- Exclusive pedestrian phases
- Exclusive U-turn phases
- Right turn overlaps with through movements
- Permissive left turns yielding to pedestrians at a T-intersection
- Split phasing

For the intersections within the community that were not be able to produce results using the 6th Edition HCM methodology using existing signal timing settings, adjustments to the signal timing parameters, phasings, and/or geometries were made to represent similar operations but allow the Synchro software to publish 6th edition HCM results. Intersections were evaluated on a case-by-case basis to ensure the adjustments were producing similar results between the 6th Edition and 2000 Edition outputs. **Appendix F** summarizes the modifications that were made to each intersection in order to produce HCM 6th Edition results.

Unsignalized Intersections Analysis

Unsignalized intersections, including two-way and all-way stop controlled intersections were analyzed using the 6th Edition HCM unsignalized intersection analysis methodology. The Synchro 10 software supports this methodology and will be utilized to produce LOS results. LOS for unsignalized intersections is determined by the computed or measured control delay and is defined for each movement. At an all-way stop control intersection, the delay reported is the average control delay of all movements at the intersection. At a one-way or two-way stop control intersection, the delay reported represents the worst movement, which is typically the left-turn from the minor street approach.

Intersection Queue Analysis

Queuing analysis was performed for all exclusive turn lanes with storage length for all 92 study intersections. Storage lengths were measured based on the length of the lane in which a vehicle could queue rather than the length of the solid white line. Queue lengths were obtained from Synchro software.

FREEWAY SEGMENT ANALYSIS

Freeway segments were analyzed during the AM and PM peak hours based on the methodologies outlined in the 2000 HCM. The free-flow speed of each freeway segment was calculated based on a base free-flow speed of 65 mph, which is consistent with Caltrans' requirements for analyzing freeway segments. Factors affecting the free-flow speed of each segment include the lane width, lateral clearance, number of lanes, interchange density, and geometric design. Based on each segment's free-flow speed, the density was calculated, which is the primary factor for determining the segment's LOS. **Table 2-17** presents the freeway segment criteria based on density.

LOS	Density Range (pc/mi/ln)*
A	≤ 11
В	> 11 – 18
С	> 18 – 26
D	> 26 – 35
Е	> 35 – 45
F	> 45 or any component segment v/c ratio > 1.00

Table 2-17 Freeway Segment LOS Criteria

Source: HCM 6th Edition, Chapter 12, Page 12-19, Exhibit 12-15 * passenger car per mile per lane

FREEWAY RAMP METER ANALYSIS

Ramp metering is a means of controlling the volume of traffic entering the freeway with the goal of improving the safety, traffic operations, and flow on the freeway main lanes. Freeway ramp meter analysis estimates the peak hour queues and delays at freeway ramps by comparing existing volumes to the meter rate at the given location. The fixed rate and uniform 15-minute maximum delay approaches are two approaches that are currently accepted by the City. The fixed rate approach is based solely on the specific time intervals that ramp meters are programmed to release traffic. The uniform 15-minute approach is based on the assumption that any demand exceeding 15-minutes will seek an alternate route or will choose to use the ramp during other time periods when the traffic demand is lower. The fixed rate approach was utilized in this study to analyze freeway ramp meters.

The excess demand at a freeway ramp forms the basis for calculating the maximum queues and maximum delays anticipated at each location. Substantial queues and delays can form where demand significantly exceeds the meter rate. This approach assumes a static rate throughout the course of the peak hour; however, Caltrans has indicated that the meter rates operate in a traffic responsive mode and based on the level of traffic using the on ramp. To the extent possible, the meter rate in the field is set such that the queue length does not exceed the available storage, smooth flows on the freeway mainline are maintained, and there is no interference to arterial traffic.

Meter rates were provided by Caltrans and include a range between the least and most restrictive rates. Since many of the freeways currently operate at or above its capacity during the peak hours, the most restrictive rate was used for the analysis. Some rates were adjusted within the range of rates provided to better reflect queue lengths consistent with field observations. The field observations were completed at each ramp meter location.

The following list contains the assumptions used for the existing conditions ramp meter analyses based on field observations:

- Storage length measured from recent aerials of the area
- 20% High Occupancy Vehicle (HOV)
- 80% Single Occupancy Vehicle (SOV) and evenly distributed between the SOV lanes
- 25-foot vehicle length

Vehicular Network Connectivity

Senate Bill 743 (SB 743) was signed into law in September 2013, modifying the existing California Environmental Quality Act (CEQA) by removing auto delay, level of service (LOS), parking and other vehicular capacity measures as metrics of transportation system impacts for mixed-use, infill or transit oriented development projects. Vehicle miles travelled (VMT) is considered the new analysis metric used to measure transportation impacts. VMT is a reflection of the land use type, intensity and location in relation to the capacity and roadway connectivity of the transportation network. It is also influenced by the availability and quality of multimodal facilities, and system operations.

VMT changes between existing and future land uses will be evaluated in the future mobility analyses when traffic models are prepared. This report did not rely on traffic models for its information and did not complete a community-wide VMT.

3 REVIEW OF RELEVANT PLANNING DOCUMENTS

This section provides information on other planning documents that include Mira Mesa community.

3.1 CITY OF SAN DIEGO PLANS, PROGRAMS, AND PROJECTS

CITY OF SAN DIEGO GENERAL PLAN – MOBILITY ELEMENT

Adopted in 2008 and amended in 2015, the City of San Diego's General Plan Mobility Element identifies the proposed transportation network and strategies that have been designed to meet the future transportation needs generated by planned land uses in the General Plan. The purpose of the Mobility Element is to improve mobility through development of a balanced, multi-modal transportation network. The Mobility Element includes several programs, including but not limited:

- Walkable Communities
- Transit
- Street and Freeway System
- Intelligent Transportation Systems
- Transportation Demand Management
- Bicycling
- Parking management
- Goods Movement/Freight
- Regional Coordination/Financing
- Passenger Rail

Within each of the above programs is series of policies designed to help achieve the goals of the program itself.

CURRENT MIRA MESA COMMUNITY PLAN

Adopted in 1992, the Mira Mesa Community Plan includes a series of goals and recommendations that guided development in the community for the subsequent 27 years. The Mira Mesa Community Plan contains a series of goals and objectives established with input by the residents, property owners, and business owners of the Mira Mesa community, and were also consistent with citywide policies and the time of its adoption. The objectives for transportation include:

- an efficient and environmentally sensitive transportation system;
- a transportation system that provides convenient linkages to the community's activity centers and to the rest of the metropolitan region;
- a transportation system that maximizes the opportunities for transit use; and
- a system of bikeways and pedestrian facilities that will encourage bicycling and walking as means of transportation

Using these goals and the analysis performed at the time of its creation, the adopted Mira Mesa Community Plan includes recommended changes to street classifications, intersection improvements, public transit service, pedestrian facilities, bikeway system, and trail systems within the Mira Mesa community. These recommendations will be reviewed and updated as part of the analysis conducted for the Mira Mesa Community Plan Update.

The adopted Mira Mesa Community Plan also evaluated with and without a Camino Ruiz bridge crossing over the Los Peñasquitos Canyon Preserve. The Plan proposes that Camino Ruiz terminate just north of Calle Cristobal and not provide the bridge connection.

CITY OF SAN DIEGO CAPITAL IMPROVEMENTS PROGRAM (CIP)

The City's Capital Improvements Program (CIP) is the five-year plan for all individual capital improvement projects and funding sources. CIP projects are unique construction projects that provide improvements or additions such as land, buildings, and infrastructure.

The CIP helps enhance the overall quality of life in the City by improving the physical structures, systems, and facilities that provide services to the community. CIP projects are generally large and expensive, and the assets they install, replace, or rehabilitate will likely be required for decades of public use.

Table 3-1 summarizes the transportation projects within Mira Mesa that are identified in the CIP as being within the preliminary engineering, design, bid and award, or construction phase:

Project Number	Project Name	Phase	Funding Status
B17188	Street reconstruction of Gold Coast Drive from Thanksgiving Lane to Camino Ruiz and Parkdale Avenue from Northrup to Mira Mesa Boulevard	Preliminary engineering	Partially funded
S00914	Sorrento Valley Road & Interstate 5 Interchange Improvements	Design	Partially funded
B14012 B15012 B16007 B16008 B17050 B17051	Install street lights in various locations	Design; Bid/Award; Construction	Partially funded
B14048 B00902	Upgrade curb ramps and remove signal poles off medians, install pedestrian countdown times, upgrade vehicle heads and install EVPE	Construction	Fully funded

Table 3-1 Capital Improvement Program Projects

CITY OF SAN DIEGO CLIMATE ACTION PLAN

Adopted in December 2015 and amended in July 2016, the City of San Diego's Climate Action Plan (CAP) aims to reduce greenhouse gas (GHG) emissions to specific targets in the year 2020 and 2035. The CAP aims to reduce emissions in part through a variety of improvements to existing vehicular, pedestrian, bicycling, and transit networks. It includes goals to create walkable and pedestrian-friendly neighborhoods and to promote active transportation and rapid transit systems.

Several of the targets included in the CAP are related to performance within transit priority areas. Per California Senate Bill 743 (SB 743), "Transit priority area" means "an area within one-half mile of a major transit stop that is existing or planned, if the planned stop is scheduled to be completed within the planning horizon included in a Transportation Improvement Program adopted pursuant to Section 450.216 or 450.322 of Title 23 of the Code of Federal Regulations." A Major Transit Stop, as defined in the California Public Resources Code (CPRC) Section 21064.3, means: a site containing an existing rail transit station, a ferry terminal served by either a bus or rail transit service, or the intersection of two or more major bus routes each having a frequency of service of 15 minutes or less during the morning and afternoon peak commute periods.

Among others, the CAP specifically identifies the following actions as targets which would reduce overall GHG emissions:

- Achieve mass transit mode share of 12% by 2020 and 25% by 2035 in Transit Priority Areas.
- Achieve walking commuter mode share of 4% by 2020 and 7% by 2035 in Transit Priority Areas.
- Achieve 6% bicycle commuter mode share by 2020 and 18% mode share by 2035 in Transit Priority Areas.
- Retime 200 traffic signals by 2020.
- Install roundabouts at 15 intersections by 2020 and an additional 20 intersections by 2035.
- Reduce average vehicle commute distance by two miles through implementation of the General Plan City of Villages Strategy by 2035.

The CAP also identifies the following supporting measures for walking, biking, and transit:

- Implement bicycle improvements concurrent with street re-surfacing projects, including lane diets, green bike lanes, sharrows, and buffered bike lanes.
- Implement a bicycle sharing program with DecoBikes. Reduce the "1 mile" barrier gap by ensuring that further expansion of the bike share program is designed and implemented to reduce the distance needed to travel between transit stops and destinations.
- Identify and address gaps in the City's pedestrian network and opportunities for improved pedestrian crossings, using the City's Pedestrian Master Plan and the City's sidewalk assessment.
- Adopt City portions of SANDAG's forthcoming first mile/last mile initiative and incorporate Safe Routes to Transit strategies in Transit Priority Areas.
- Coordinate pedestrian counting programs with SANDAG and SDSU Active Transportation Research Programs.
- Develop a Parking Plan to include measures such as "unbundled parking" for nonresidential and residential sectors in urban areas.
- Prepare a Commuter Report with measures to increase commuting by transit for City employees.

- Achieve better walkability and transit-supportive densities by locating a majority of all new residential development within Transit Priority Areas.
- Develop a new priority ranking for capital improvement projects in Transit Priority Areas that will be integrated into Council Policy 800-14, Community Development Block Grant and other grant opportunities, and Public Facilities Financing Plans.
- In addition to commuting, implement infrastructure improvements including "complete streets" to facilitate alternative transportation modes for all travel trips.
- The most recent version of the California Office of Environmental Health Hazard Assessment (OEHHA) CalEnviroScreen tool will be used as one method to identify and help prioritize, when possible, underserved communities in census tracts ranking in the top 30% of CalEnviroScreen scores, which may be locally normalized, for transit-related infrastructure improvements and capital improvements.

CITY OF SAN DIEGO BICYCLE MASTER PLAN

Adopted in December 2013, the City Bicycle Master Plan (BMP) presents a vision for bicycle transportation, recreation and quality of life in San Diego. The vision is closely aligned with the 2008 General Plan's mobility, sustainability, health, economic, and social goals. The bicycle network, projects, policies, and programs included in the Bicycle Master Plan provide the City with a strong framework for improving bicycling through 2030 and beyond.

The goals of the BMP are to create:

- A city where bicycling is a viable travel choice, particularly for trips of less than five miles
- A safe and comprehensive local and regional bikeway network
- Environmental quality, public health, recreation and mobility benefits through increased bicycling

The BMP proposes the following key bicycle facilities within the Mira Mesa community planning area:

• Mira Mesa Boulevard, Parkdale Road to Interstate 15: Class II (gap closures)

CITY OF SAN DIEGO PEDESTRIAN MASTER PLAN

Adopted in December 2006, the City Pedestrian Master Plan guides the way the City plans and implements new or enhanced pedestrian projects. The Pedestrian Master Plan helps the City enhance neighborhood quality and mobility options by facilitating pedestrian improvement projects. The Plan identifies and prioritizes pedestrian projects based on technical analysis and community input, and improves the City's ability to receive grant funding for implementing these projects.

The Pedestrian Master Plan is intended to be a complementary document to the General Plan, the Transit Oriented Development Guidelines, the San Diego Association of Government's (SANDAG) Planning and Designing for Pedestrians, the Street Design Manual and more specifically, the Mobility Element of the City's General Plan.

The vision statement for the Pedestrian Master Plan is: "To create a safe, accessible, connected and walkable pedestrian environment that enhances neighborhood quality and promotes walking as a practical

and attractive means of transportation in a cost-effective manner." The goals which both support the vision statement and serve as project prioritization criteria are:

- Safety: Create a safe pedestrian network free of barriers and tripping hazards that has sufficient street crossings, buffer pedestrians from vehicles and has facilities wide enough to accommodate peak pedestrian use.
- Accessibility: Make facilities accessible to pedestrians of all abilities and meet all local, state, and federal requirements.
- Connectivity: Develop a complete pedestrian network that provides direct and convenient connections for neighborhoods, employment centers, transit stations, public places and community destinations.
- Walkability: Create pedestrian facilities that offer amenities to encourage usage and to enhance the pedestrian experience.

The Pedestrian Master Plan concludes with "Phase Two Guidance" providing direction for community-level Pedestrian Master Plans (CPMP). The guidance aims to establish a level of consistency among the plans and analysis methodologies utilized.

CITY OF SAN DIEGO TRANSPORTATION UNFUNDED NEEDS LIST (TUNL) PROJECTS

As noted previously, the City's CIP identifies projects that help enhance the overall quality of life in the City by improving, among other things, transportation infrastructure. Projects included in the CIP are funded via a variety of sources, including bonds, development impact fees, and City general funds, among others.

Often times, sufficient funding does not exist for all mobility projects that are identified in the CIP. As such, projects without identified funding are included in the Transportation Unfunded Needs List (TUNL). The TUNL is maintained by the City to keep an inventory of projects which can be implemented should sufficient funding become available. Projects included in the TUNL may or may not be identified in other planning documents. **Table 3-2** provides a brief description, location, type, and status of current TUNL projects within the Mira Mesa Community Plan area.

ID	Location	Description	
Roadway Segments/Intersections			
47	Black Mountain Rd - Gemini Ave to Mira Mesa Blvd	Widen the east side of Black Mountain Road from Gemini Avenue to Mira Mesa Boulevard for an additional northbound lane. Class II Bike Lanes are included.	
48	Black Mountain Rd - Galvin Ave to Gemini Ave	Widen to a 6-Lane Prime Arterial with Class II Bike Lanes.	
36	Carroll Canyon Rd - Camino Santa Fe to Camino Ruiz	Construct 6-lane facility	
56	Kearny Villa Rd - Black Mountain Rd to 600' s/o Miramar Rd	Widen to a 6-Lane Prime Arterial with Class II Bike Lanes	
57	Carroll Canyon Rd - Scranton Rd to El Camino Memorial Park Western Entrance	Provide all necessary improvements to upgrade to standards for a 4-Lane Major Arterial and install traffic signals at Scranton Road and Nancy Ridge Road intersection.	
53	Miramar Rd at Kearny Villa Rd	Widen both the east and west legs of Miramar Rd at the intersection by adding additional left hand and right-hand turn lanes.	
55	Black Mountain Rd - Gold Coast Dr to Maya Linda Rd	Provide for the widening of a 6-Lane Prime Arterial with Class II Bike Lanes	
51	Camino Santa Fe at Miramar Rd	Widen both the north leg of Camino Santa Fe and the east leg of Miramar Road by adding a SB to WB right turn lane and a WB to NB right turn lane.	
39	Camino Ruiz - Gold Coast Dr to Jade Coast Dr and 400' north of Miralani Dr to Miramar Rd	Widen these segments of Camino Ruiz to a modified 6- Lane Major Arterial. Class II Bicycle Lanes will be installed from Mira Mesa Blvd to Gold Coast Dr and within the project limits.	
42	Black Mountain Rd at Mira Mesa Blvd	Widen Black Mountain Road to provide a NB right turn lane with Class II Bike Lanes.	
49	Black Mountain Rd - Hillery Dr to Gold Coast Dr	Widen to a 6-Lane Prime Arterial with Class II Bike Lanes.	
54	Black Mountain Rd - Mira Mesa Blvd to Hillery Dr	Widen to a 6-Lane Prime Arterial with Class II Bike Lanes.	
52	Black Mountain Rd at Mercy Rd	Widen Black Mountain Road to provide an additional NB through lane.	
33	Mira Mesa Blvd - Black Mountain Rd to I-15	Widen to provide an 8-lane Prime Arterial with landscaped median and Class II Bike Lanes.	

Table 3-2 Transportation Unfunded Needs List (TUNL) Projects

ID	Location	Description
35	Carroll Canyon Rd - Carroll Rd to Camino Ruiz	Construct a 4 and 6 Lane Major Arterial with Class II Bike Lanes. Section 5A is from the Western Fenton Property Boundary westerly to Carroll Road. Section 5B is from Camino Santa Fe westerly to Fenton Property Boundary. Section 5C is from Camino Ruiz westerly to Camino Santa Fe.
37	Carroll Canyon Rd - Camino Ruiz to Black Mountain Rd	Construct as a 6-Lane Major Arterial with Class II Bike Lanes from Camino Ruiz to Maya Linda Rd. Construct as a 4-Lane Major Arterial with Class II Bike Lanes from Maya Linda Rd to Black Mountain Rd. Include medians consistent with Community Plan.
38	Maya Linda Rd - Carroll Canyon Rd to Black Mountain Rd	Construct as a 4-Lane Collector with Class II Bicycle Lanes. Include median consistent with Community Plan.
40	Camino Ruiz - Jade Coast Dr to Maralani Dr	This project pertains to Camino Ruiz from the East Leg of Jade Coast Drive to Miralani Drive for the northbound side and, southbound side, from Jade Coast Drive to the northern most boundaries of the Miralani Business Park. Provides for the widening of Camino Ruiz to a 6-Lane Major Arterial with a 14-ft wide, landscaped, raised-center- median (with dual 10-ft left-turn lanes at Carroll Canyon Road), streetlights, and Class II Bike Lanes. Reconstruct existing curve to increase stop/sight distance.
50	Camino Santa Fe - Carroll Rd to 350' s/o Commerce Ave	Widen to a 6-Lane Major Arterial with Class II Bike Lanes.
Traffic	Signals	
43	Aquarius Dr at Camino Ruiz	Install a new traffic signal. Is listed in the Mira Mesa FFP as project 15-40 (8), for construction in 2015 at an est cost of \$250,000, FBA. Community group voted in favor of signal May 19th, 2014
1319	Carroll Rd at Nancy Ridge Dr	Install a new traffic signal
44	Carroll Canyon Rd at Carroll Rd	Install a traffic signal at the future intersection of Carroll Canyon Road (now Fenton Rd) & Carroll Road.
Street Enhancements		
2	Camino Ruiz at Capricorn Wy	Extend the existing raised median nose further north and prohibit left turning movements near the intersection.
Pedest	rian	
	Missing Sidewalk Inventory	
	rian	-

ID	Location	Description	
46	Black Mountain Rd - Mid-block between Gold Coast Dr & Hillery Dr	Provide a mid-block pedestrian bridge across Black Mountain Road.	
Traffic	Calming		
6858	Flanders Dr at Flanders Pl	Install two Pedestrian Activated Flashing Beacons at the intersection.	
7057	Montongo St at Goleta Rd	Install Pedestrian Activated Flashing Beacon at the intersection.	
721	Avenida Del Gato at Zapata Ave	Install a Type 1A Flashing Yellow Beacon with school warning sign facing NB traffic.	
722	Avenida Del Gato at Los Sabalos	Install a Type 1A Flashing Yellow Beacon with school warning sign facing SB traffic.	
7752	Mercy Rd - Chabola Rd to Alemania Rd	Install two V-calm signs.	
7632	Calle Cristobal - Near Frames Port Pl	Install one V-calm sign facing WB traffic.	
7055	Mesa Rim Road	Install two V-calm signs.	
7056	Miramar Way	Install two V-calm signs.	
8061	Camino Ruiz - Westmore Rd to Capricorn Wy	Install one V-calm sign facing NB traffic.	
8062	Calle Cristobal - Camino Ruiz to Camino Santa Fe	Install two V-calm signs.	
Bicycle)		
444	Mira Mesa Blvd - Parkdale Rd to I-15 SB Ramps	Install Class II bike lanes through either removal of parking or narrowing of median.	
4055	Mira Mesa Blvd - I-15 SB Ramps to I-15 NB Ramps	Spot treatment	
22	I-805 - Carroll Canyon Rd to Eastgate Mall	Construct a Class I bike path to provide a connection between Mira Mesa and University Towne Center along I- 805.	

3.2 REGIONAL PLANS

SAN DIEGO FORWARD: THE REGIONAL PLAN

Adopted in October 2015 by SANDAG, the San Diego Forward: The Regional Plan (RTP) is an overarching blueprint for a more sustainable future. It combines a big-picture vision for how the region will grow over the next 35 years (through the year 2050) with an implementation program to help make that vision a reality. At its core, it relies on creating a transportation network that will provide more choices to people in the region, which in turn will protect the environment, create healthy communities, and stimulate economic growth.

The Regional Plan builds upon local planning efforts by emphasizing the link between land use planning and transportation planning. Closer integration of the two will result in more compact and sustainable communities, helping the region meet greenhouse gas (GHG) reduction targets. As it is implemented, the Plan will enhance the movement of both people and goods, as well as break new ground by incorporating components aimed at enhancing public health.

The vision statement for this long-range blueprint – which will carry the region through 2050 – is "to provide innovative mobility choices and planning to support a sustainable and healthy region, a vibrant economy, and an outstanding quality of life for all."

There are planned roadway and transit investments identified in the RTP to increase mobility connections for the Mira Mesa community. These include the following:

Transit Projects

- Extend existing Rapid 235 Bus service between Temecula and Downtown San Diego, running through Mira Mesa
- Double tracking for Coaster with peak frequencies of 20 minutes
- Rapid 30 Bus service from Old Town to Sorrento Mesa
- Rapid Route 688 bus service from San Ysidro to Sorrento Mesa via I-805/I-15/SR-52 during peak hours
- Rapid Route 690 bus service from Mid-City to Sorrento Mesa via I-805 corridor during peak hours
- High frequency bus route along Carroll Canyon Road
- Bus service frequency enhancements for routes 110, 237, and 921
- Managed Lanes/Toll Lanes Projects
- Addition of 4 Managed Lanes to I-805 between Carroll Canyon Road and State Route 52
 Operational Projects
 - Addition of North to North and South to South Managed Lane connectors between I-5 and I-805

Active Transportation Projects

- Mira Mesa Bike Boulevard
- Mira Mesa Corridor Reagan Rd to Parkdale Ave
- Mira Mesa Corridor Scranton Road to I-805
- Mira Mesa Corridor Sorrento Valley Road to Sorrento Valley Boulevard

SAN DIEGO REGIONAL BIKE PLAN: RIDING TO 2050

Adopted in April 2010 by SANDAG, Regional Bike Plan identifies a vision for a regional bicycle system of interconnected bicycle corridors, support facilities, and programs to make cycling more appealing to a broader range of the population. The document includes recommendations and goals that strive to increase bicycle ridership for all purposes. It also encourages the development of Complete Streets, to improve safety for bicyclists, and to increase public awareness and support for bicycling in the region. There is one "high priority" planned regional corridor alignments within the Mira Mesa community:

• Mira Mesa Boulevard, Parkdale Road to Interstate 15

3.3 LOCAL PRIVATE DEVELOPMENT PROJECTS

Private development projects in the community can also contribute towards network improvements depending on the size, location, and findings of transportation impact analyses performed as part of entitlement processes. **Table 3-3** summarizes development projects identified in the Mira Mesa community as of January 2019. As shown in the table, no specific mitigation measures have been identified for these local development projects at this time. These projects should be reviewed for updated status when developing the future network.

Project Name	Approval Process Type	Mitigation
One Pacific Heights	Substantial Conformance Review	None Identified
Paws for Purple Hearts	Neighborhood Use Permit	None Identified
The Institute	Conditional Use Permit	None Identified
Stone Creek	Community Plan Amendment	Pending
Mira Sorrento Office	Community Plan Amendment	Pending
3 Roots	Community Plan Amendment	Pending
MPF 9225 Brown Deer Rd	Conditional Use Permit	Pending
Teak Warehouse	Neighborhood Use Permit	None Identified

Table 3-3 Local Development Projects

4 EXISTING CONDITIONS

This chapter describes the activity patterns, performance and facility evaluations for all modes of transportation in Mira Mesa, including pedestrian, bicycle, transit, and vehicular. The chapter also summarizes community intelligent transportation systems (ITS) and travel demand management (TDM) strategies, and interaction with regional passenger rail, airports, and goods movement.

4.1 PEDESTRIAN MOBILITY

The following section summarizes the existing pedestrian environment in Mira Mesa using the following evaluations:

	Using existing turning movement count data		
D	Based upon the Pedestrian Priority Model (PPM)		
Demand	Based upon census-based mode share data		
	Using route typology definition		
Safety	Using collision data for a recent five-year period		
Quality • Using Pedestrian Environment Quality Evaluation (PEQE) analy			
	Using network and sidewalk inventory data		
Connectivity	Using a walkshed ratio evaluation		

The City collects and maintains an inventory of the sidewalks within and adjacent to the Mira Mesa community. This information was used to create a baseline pedestrian network and to help determine existing pedestrian facilities, missing facilities and connections within the community. The data is not all-inclusive, but has the necessary information to determine the adequacy of pedestrian connections. **Figure 4-1** presents an overview of the sidewalk inventory within the community. It is important to note that the available sidewalk inventory does not include separated trails, such as those within the canyons of the community and includes existing raised sections of asphalt along roadways such as the south side of Miramar Road and the west side of Camino Ruiz between Jade Coast Drive and Carroll Canyon Road.

4.1.1 PEDESTRIAN DEMAND

City of San Diego Pedestrian Priority Model (PPM)

Pedestrian demand was evaluated using the City's PPM. The PPM was created to identify areas within the City where there is relatively high demand or propensity for walking. This is combined with an analysis of trip detractors or deficiencies to assess where both existing and latent demand for walking may exist. **Figure 4-2** presents the pedestrian demand in the Mira Mesa community based on the results of the PPM.

As seen in the figure, pedestrian demand is highest near Miramar College and the retail adjacent to it, as well as in the area along Mira Mesa Boulevard between Reagan Road and Camino Ruiz. Demand is closely correlated with the retail areas of the community, as well as the community college and high school. The college has approximately 21,000 students and generates interaction with the adjacent street network for



Existing Pedestrian Network



Pedestrian Demand

walking to and from transit or nearby retail and recreation areas. These areas of highest pedestrian demand are also roadways with high vehicle volumes. This creates a natural tension between pedestrians and vehicles in these areas.

Demand is predictably lower in the residential areas of the community. The large employment areas in the western area of the community and along Miramar Road also have low demand. These employment areas have little interaction between the individual employers as there are little to no retail or residential areas within walking distance.

The pedestrian study area, shown in Figure 2-1, was initially established using the above average demand areas for this community dataset. A separate exercise was performed in coordination with City staff to expand the pedestrian study area to include locations with 2 or more pedestrian collisions, locations within 0.5 miles of major transit stops, major and collector roadways, and corridors that satisfied pedestrian network gaps or connections to schools and parks.

Pedestrian Commute Mode Share

Pedestrian commute mode share is another measure of where demand exists for pedestrian infrastructure or where existing facilities are successfully serving some pedestrian commutes. American Community Survey data, 2017 5-year estimates, were used to determine how the commute mode share in the Mira Mesa community compares to both the City and the County of San Diego. **Table 4-1** presents the pedestrian commute mode share comparison. The Mira Mesa community has a mode share similar to the average of both the City and County of San Diego.

		я.	
	Mira Mesa	City of San Diego	San Diego County
Total Pedestrian Commutes	1,597	22,188	45,600
Total Workers	58,910	762,993	1,549,529
Pedestrian Commute Mode Share	2.7%	2.9%	2.9%

Table 4-1 Pedestrian Commute Mode Share Comparison

Figure 4-3 shows the pedestrian commute mode share by census block group. As shown in the figure, the areas closest to Miramar College and some residential areas near Mira Mesa Boulevard have high commute mode share. The southern, industrial portion of the community and most of the residential areas have no pedestrian commuters.

Pedestrian Count Data

Figure 4-4 and **Figure 4-5** display the AM and PM peak hour pedestrian movements observed at the 92 study intersections. Individual intersection count sheets are provided in **Appendix E**. The pedestrian count data supports the pedestrian demand model output as well as the pedestrian commute mode share data. In general, pedestrian activity is slightly greater during the AM peak hour, and activity is greatest near key destinations in Mira Mesa such as Miramar College, retail areas, schools, and parks.



Pedestrian Commute Mode Share by Census Block Group



Pedestrian Peak Hour Volumes (AM Peak)



Pedestrian Peak Hour Volumes (PM Peak)

Mira Mesa CPU Existing Mobility Conditions June 2019

Pedestrian Route Typology

Route typology is a fourth way to look at pedestrian demand. As noted in the methodology section, route types are divided into seven categories ranging from District to Trail. These typologies work to define the function which a route serves and establishes a hierarchy for the development of priority pedestrian improvements. The results of the typology evaluation are presented in **Figure 4-6**Error! Not a valid bookmark self-reference.. With the current land use and building orientations, there are no district or corridor routes currently identified in the Mira Mesa community. This is mainly due to a lack of interaction of roadway-fronting buildings and attractions. All roadways are either connectors or neighborhood streets.

4.1.2 **PEDESTRIAN SAFETY**

Between October 2012 and September 2017, there were a total of 87 reported collisions involving pedestrians within the Mira Mesa community. In the State of California, collision reports must be generated for any collision where: property damage equals or exceeds 750 dollars, city property is involved, someone is injured, a fatality occurs, a pedestrian or cyclist is involved, is a hit-and-run collision, or a Driving Under the Influence (DUI) collision occurs. It is important to note some pedestrian incidents may go unreported and therefore, cannot be included in this analysis. Reported pedestrian-involved collision data within the vicinity of the community planning area are illustrated in **Figure 4-7**. Additional information on these collisions is provided in tables below and in **Appendix A**.

Most locations have isolated incidents, while a few locations have identified multiple collisions. Locations within 350 feet of an intersection were considered intersection-related, and bundled with the adjacent intersection. Mid-block locations were then evaluated on a case-by-case basis, and bundled if they occurred within close proximity of each other with similar roadway characteristics and collision trends. **Table 4-2** identifies those intersections with three or more collisions within the five-year period. A more in depth look at the causes of these collisions will help to identify improvements needed at these locations.

Intersection	Collisions
Mira Mesa Blvd & Westmore Rd/Marbury Ave	5
Mira Mesa Blvd & Westview Pkwy	4
Mira Mesa Blvd & Black Mountain Rd	4
Camino Ruiz & Capricorn Wy	4
Black Mountain Rd & Gemini Ave	3
Mira Mesa Blvd & Mira Mesa Mall	3
Mira Mesa Blvd & Sequence Dr	3
Camino Ruiz & Reagan Rd/Marauder Wy	3

Table 4-2 Most Frequent Pedestrian Collision Locations



Pedestrian Route Typology



Pedestrian Collision History (Oct 2012 – Sept 2017)

Table 4-3 summarizes the location types for pedestrian-involved collisions, differentiating between intersection, mid-block, and approaching/departing locations. The majority (85 percent) of pedestrian-involved collisions occurred at intersections.

Collision Location Type	Collisions	Percent of Total
Approaching/Departing	10	12%
Intersection	74	85%
Mid-Block	3	3%
Total	87	100%

Table 4-3 Pedestrian Collisions by Location Types

Table 4-4 identifies the party-at-fault for each reported pedestrian-involved collision. Drivers and pedestrians were each reported as at-fault for nearly one-third of all collisions. Nearly 30 percent of recorded collisions do not identify a party at-fault.

Party at Fault	Collisions	Percent of Total
Driver	31	36%
Not Stated	24	27%
Parked Vehicle	1	1%
Pedestrian	31	36%
Total	87	100%

Table 4-4 Pedestrian Collisions by Party at Fault

Table 4-5 identifies the primary collision cause for the reported pedestrian-involved collisions. The leading cause was attributed to pedestrian violations, which occurred in approximately 23 percent of the pedestrian-involved collisions. The second-most frequent cause of collision was "pedestrian right-of-way violation", and "other hazardous movement".

Table 4-5 Primary Pedestrian Collision Cause

Primary Collision Cause	Collisions	Percent of Total
Auto R/W Violation	8	9%
Improper Turning	5	5%
Not Stated	8	9%
Other	1	1%
Other Hazardous Movement	16	18%
Ped R/W Violation	16	18%
Pedestrian Violation	20	23%
Traffic Signals and Signs	3	3.5%
Unsafe Speed	7	8%
Unsafe Starting or Backing	3	3.5%
Total	87	100%

4.1.3 PEDESTRIAN ENVIRONMENT QUALITY EVALUATION (PEQE)

The Pedestrian Environment Quality Evaluation (PEQE) represents a data-driven methodology for assessing pedestrian facilities. An overview of the methodology used to calculate PEQE scores, including required inputs and scoring used, is provided in **Section 2.1**. Locations which are evaluated include roadway segments, intersections, and mid-block crossings within the pedestrian study area. **Appendix B** includes the existing inputs used for PEQE analysis.

PEQE Roadway Segments Analysis

The data inputs for PEQE roadway segments analysis include horizontal buffer, lighting, a clear pedestrian zone, and the posted speed limit. **Table 4-6** summarizes the PEQE analysis results for sidewalks along roadway segments within the pedestrian study area. As shown, about half of the pedestrian facilities currently score as "medium-quality" and more than half of the pedestrian facilities are "low quality". No facilities were identified as "high-quality".

Many of the roadway segments within the pedestrian study area are located along high-speed roadways without a buffer between the travel lanes and the sidewalk to achieve the horizontal clearance points. Providing landscaped buffers, buffered bike lanes, or parking could increase the PEQE scores of several pedestrian facilities. Additionally, many facilities did not receive clear zone points due to signs, light or utility poles, transit stop benches or mailboxes obstructing the 5-foot clear zone, resulting in 0 points. Relocating these obstructions outside of the 5-foot clear zone would improve the quality of these facilities. Lastly, only about one-third of the segments analyzed satisfied requirements for lighting. Installing additional street lights along these pedestrian facilities would also improve the quality of the environment for pedestrians.

PEQE Score	Total Length (feet)	Percent of Study Area Facilities
High	0	0%
Medium	217,516	45.9%
Low	256,456	54.1%
Total	473,972	100%

Table 4-6 Summary of PEQE Analysis for Segments within Pedestrian Study Area

PEQE Intersection Analysis

The PEQE intersection analysis evaluates physical features that serve as safety mechanisms, operational features, compliance with Americans with Disabilities Act (ADA) for curb ramps, and intersection traffic control, as they relate to the pedestrian environment.

Table 4-7 summarizes the PEQE analysis results for intersections within the pedestrian study area. The evaluation indicates that 59-percent of crossings in the community currently exhibit medium-quality conditions, 31-percent of crossings exhibit low-quality conditions, and 10-percent of the crossings are currently prohibited. There is one high-quality facility (<1-percent) at the pedestrian bridge over Black Mountain Road on the north side of Galvin Avenue.

Currently, the community of Mira Mesa does not provide any curb extensions, pedestrian lead intervals, or raised crosswalks. Very few of the intersections studied contain "No Turn on Red" signs, enhanced pedestrian signs, or pedestrian countdown timers. Approximately one third of the intersections provide high-visibility crosswalks and/or advanced limit lines, and less than half of the intersections have curb ramps that

meet ADA requirements. Most crossings exhibiting low-quality conditions are located along residential areas such as Calle Cristobal/Sorrento Valley Boulevard and Gold Coast Drive. Some employment areas such as Miramar Road and Lusk Boulevard also exhibit low-quality conditions at crossings. Upgrading curb ramps to meet ADA standards, installing high-visibility crosswalks and advanced limit lines, or providing any of the pedestrian crossing enhancements discussed would improve the PEQE score at the pedestrian study area intersections.

PEQE Score	Number of Crossings	Percent of Study Area Facilities
High	1	<1%
Medium	283	59%
Low	146	31%
Prohibited	46	10%
Total	476	100%

Table 4-7 Summary of PEQE Analysis for Intersections within Pedestrian Study Area

PEQE Mid-Block Crossing Analysis

The PEQE mid-block crossing analysis is similar to the intersection analysis which evaluates physical features of the crossing such as high visibility crosswalks, bulb outs, median refuge for pedestrians, and ADA compliant curb ramps. The traffic control points vary from the intersection analysis, and awards one point for a pedestrian activated warning device such as in-pavement lighting or pedestrian activated flashing beacon, or two points for a signal or Pedestrian Hybrid Beacon (PHB).

The Mira Mesa community has one mid-block crossing in the pedestrian study area that was analyzed along Barnes Canyon Road near Scranton Road. This crossing is classified as a low-quality facility but could be improved to medium-quality by upgrading the north side ramp to be ADA compliant, constructing bulb outs, and/or providing a raised pedestrian refuge in the median. The only way to achieve a high-quality classification would be to upgrade the RRFB to a PHB.

PEQE Analysis Results

The results of the PEQE analyses are presented in **Figure 4-8**. As shown, roadway segments exhibiting low-quality pedestrian conditions are generally shown along major arterial roadways that have little or no adjacent development. Roadways exhibiting medium-quality conditions are generally found along roadways with adjacent residential and commercial activity.

Another quantifiable pedestrian environment analysis is identifying the locations of missing sidewalks within the community. The identified locations that are missing sidewalks within Mira Mesa are shown in **Figure 4-9**. Missing sidewalk includes existing raised sections of asphalt along roadways such as the south side of Miramar Road, segments of the west side of Camino Ruiz between Jade Coast Drive and Miramar Road, and the west side of Black Mountain Road north of Maya Linda Road. The length (in feet) of the missing sidewalks along roadway segments within the pedestrian study area is summarized in **Table 4-8**.

Table 4-8 Summary of Missing Sidewalks within or Providing Access to the Pedestrian Study Area

Item	Length (feet)
Missing Sidewalk	61,715
Asphalt Sidewalk	20,838


Existing Pedestrian Environmental Quality Evaluation (PEQE) Rating (Pedestrian Study Area)



Locations with no Sidewalks

4.1.4 PEDESTRIAN NETWORK CONNECTIVITY

The level of connectivity at each pedestrian study intersection was assessed using a travelshed analysis. The methodology for calculating the Pedestrian Connectivity Ratio is described in detail in Section 2.1, and utilizes the formula shown below. Note that a higher ratio is associated with better overall connectivity at the intersection.

Land Area Accessible within a 0.5 mile walkshed (acres) Land Area Accessible within a 0.5 mile crow flies buffer (acres)

The pedestrian connectivity ratio for each intersection within the pedestrian study area is shown in **Table 4-9** and illustrated in **Figure 4-10**. As shown, there are many locations in the community that have poor connectivity (<30%). This is a result of the canyons that run through the community, limiting options for linear connections for all modes of travel. The high connectivity areas are found in the residential areas of the community where there is more robust roadway connections that provide access to the houses.

Improving connectivity within the Mira Mesa community will be challenging. There will be some increased connectivity with the development of the Carroll Canyon Road extension. Other connections will require significant infrastructure – most likely raised bridges – and there will be limited places that can or should be realistically accommodated for, especially when it comes to funding and environmental sensitivity. New pathways bisecting larger developments in areas of change should be incorporated to avoid large superblocks and provide additional connectivity options.

Intersection ID	Intersection Name	Pedestrian Connectivity Ratio
1	Ivory Coast Dr & Reagan Rd	45%
2	Vista Sorrento Pkwy & Lusk Blvd	23%
3	Vista Sorrento Pkwy & Directors Pl	21%
4	Vista Sorrento Pkwy & Mira Sorrento Pl	33%
5	Vista Sorrento Pkwy & Mira Mesa Blvd	39%
6	Sorrento Valley Rd & Carroll Canyon Rd/I-805 SB Ramps	20%
7	Juniper Park Ln & Sorrento Valley Blvd	26%
8	Sunny Mesa Rd & Sorrento Valley Blvd	22%
9	Camino Santa Fe & Sorrento Valley Blvd/Calle Cristobal	24%
11	Carroll Canyon Rd & I-805 DAR	17%
13	Office Driveways & Lusk Blvd	19%
14	W Wateridge Cir & Lusk Blvd	25%
15	Telesis Ct & Lusk Blvd	24%
16	E Wateridge Cir & Lusk Blvd	26%
17	Pacific Center Blvd & Lusk Blvd	31%
18	Lusk Blvd & Barnes Canyon Rd	46%
19	Lusk Blvd & Morehouse Dr	36%
20	Lusk Blvd & Mira Mesa Blvd	36%
21	Scranton Rd & Mira Sorrento Pl	36%
22	Scranton Rd & Morehouse Dr	41%
23	Scranton Rd & Mira Mesa Blvd	44%
24	Scranton Rd & Sorrento South Dwy/Oberlin Dr	39%
25	Scranton Rd & Carroll Canyon Rd	28%
26	Pacific Heights Blvd & Barnes Canyon Rd	44%
27	Wireless Wy & Pacific Center Blvd	28%
28	Pacific Heights Blvd & Pacific Center Blvd	34%
29	Pacific Mesa Blvd & Pacific Center Blvd	28%
30	Pacific Mesa Blvd & Pacific Heights Blvd	43%
31	Pacific Heights Blvd & Mira Mesa Blvd	43%
32	Pacific Heights Blvd & Cornerstone Ct	29%
33	Pacific Heights Blvd & Carroll Canyon Rd	34%
34	Lopez Point Dr & Calle Cristobal	21%
35	Camino Propico & Calle Cristobal	20%
36	Lopez Ridge Park Driveways & Calle Cristobal	23%
37	Camino Miranda & Calle Cristobal	25%
38	Windey Ridge Wy & Calle Cristobal	36%
39	Prairie Wood Dr & Calle Cristobal	44%
40	Avenida Del Gato & Calle Cristobal	41%
41	Camino Ruiz & Calle Cristobal	39%

Table 4-9 Pedestrian Connectivity Ratio at Pedestrian Study Intersections

Intersection ID	Intersection Name	Pedestrian Connectivity Ratio
42	Sequence Dr/Huennekens St & Mira Mesa Blvd	36%
43	Genetic Center/Steadman St & Mira Mesa Blvd	46%
44	Flanders Dr & Mira Mesa Blvd	48%
45	Viper Wy & Mira Mesa Blvd	44%
46	Camino Santa Fe & Mira Mesa Blvd	54%
47	Schilling Ave & Mira Mesa Blvd	51%
48	Aderman Ave & Mira Mesa Blvd	49%
49	Parkdale Ave & Mira Mesa Blvd	48%
50	Reagan Rd & Mira Mesa Blvd	49%
51	Mira Mesa Mall Driveways & Mira Mesa Blvd	33%
52	Camino Ruiz & Mira Mesa Blvd	45%
53	New Salem St/Marauder Wy& Mira Mesa Blvd	48%
54	Westonhill Dr & Mira Mesa Blvd	56%
55	Greenford Dr & Mira Mesa Blvd	56%
56	Westmore Rd/Marbury Ave & Mira Mesa Blvd	47%
57	Black Mountain Rd & Mira Mesa Blvd	54%
58	Westview Pkwy & Mira Mesa Blvd	43%
59	I-15 SB Ramps & Mira Mesa Blvd	24%
60	I-15 NB Ramps & Mira Mesa Blvd	23%
62	Business Access Road & Carroll Canyon Rd	17%
63	Youngstown Wy & Carroll Canyon Rd	31%
64	Nancy Ridge Dr & Carroll Canyon Rd	31%
65	Rehco Rd & Carroll Rd	36%
66	Camino Santa Fe & Carroll Rd	52%
67	Carroll Rd & Kenamar Dr	32%
68	Carroll Rd & Miramar Rd	26%
70	Camino Santa Fe & Miramar Rd	30%
72	Commerce Ave & Miramar Rd	37%
73	Production Ave & Miramar Rd	31%
74	Distribution Ave & Miramar Rd	30%
75	Miramar Wy & Miramar Rd	29%
76	AlesmithCt & Miramar Rd	11%
77	Dowdy Dr & Miramar Rd	26%
78	Chabot Dr & Miramar Rd	22%
79	Camino Ruiz & Miramar Rd	31%
80	Clayton Dr/Mitscher Wy & Miramar Rd	47%
81	Black Mountain Rd & Miramar Rd	33%
82	Kearny Villa Rd & Miramar Rd	34%
83	Kearny Mesa Rd & Miramar Rd	28%
84	I-15 SB Ramps & Miramar Rd	25%
86	Camino Santa Fe & Flanders Dr	46%
00		

Intersection ID	Intersection Name	Pedestrian Connectivity Ratio
87	Dabney Dr & Flanders Dr	46%
88	Parkdale Ave & Flanders Dr	55%
89	Camino Ruiz & Flanders Dr	58%
90	San Ramon Dr & Flanders Dr	53%
91	Camino Santa Fe & Top Gun St	34%
92	Camino Santa Fe & Miratech Dr	25%
93	Camino Santa Fe & Summers Ridge Rd	26%
94	Camino Santa Fe & Unnamed Road	22%
95	Camino Santa Fe & Trade St	30%
96	Parkdale Ave & Gold Coast Dr	53%
97	Montongo St & Acama St	41%
98	Montongo St & New Salem St	54%
99	Montongo St & Goleta Rd	44%
100	Camino Ruiz & Aquarious Dr	53%
101	Camino Ruiz & Teresa Dr/Capricorn Wy	51%
102	Camino Ruiz & Westmore Rd	56%
103	Camino Ruiz & New Salem St	50%
104	Camino Ruiz & Driveway	39%
105	Camino Ruiz & Reagan Rd/Marauder Wy	55%
106	Camino Ruiz & Gold Coast Dr	59%
107	Camino Ruiz & Jade Coast Dr	42%
108	Camino Ruiz & Carroll Canyon Rd	29%
109	Camino Ruiz & Miralani Dr	30%
110	Camino Ruiz & Activity Rd	30%
113	San Ramon Dr & Gold Coast Dr	52%
114	Thanksgiving Ln & Gold Coast Dr	43%
115	Black Mountain Rd & Gold Coast Dr	44%
116	Westonhill Dr & Arctrus Wy	43%
117	Black Mountain Rd & Capricorn Wy	48%
118	Westview Pkwy & Capricorn Wy	42%
119	Black Mountain Rd & Mercy Rd	28%
120	Black Mountain Rd & Westview Pkwy	29%
121	Black Mountain Rd & Galvin Ave	49%
122	Black Mountain Rd & Gemini Ave	55%
123	Black Mountain Rd & Village Green/The Hills Driveways	41%
124	Black Mountain Rd & Hillery Dr	42%
125	Black Mountain Rd & Miramar College	25%
126	Black Mountain Rd & Carroll Canyon Rd	43%
127	Black Mountain Rd & Maya Linda Rd	40%
128	Black Mountain Rd/Kearny Villa Rd & Black Mountain Rd/Carroll Centre Rd	38%

Intersection ID	Intersection Name	Pedestrian Connectivity Ratio
129	Black Mountain Rd & Activity Rd	37%
130	Rickert Rd & Hillery Dr	42%
131	Westview Pkwy & Hillery Dr	29%
132	Mercy Rd & Kika Ct	21%
133	Alamenia Rd & Mercy Rd	34%
134	I-15 SB Ramps & Mercy Rd	36%
135	I-15 NB Ramps & Mercy Rd	38%
136	Westview Pkwy & Campus Point Dr N	23%
137	Westview Pkwy & Campus Point Dr S	30%
138	Westview Pkwy & Mira Lee Wy	36%
139	Westview Pkwy & Galvin Ave	36%
140	Westview Pkwy & Market Center Driveway	28%
141	Maya Linda Rd & Carroll Canyon Rd	31%
142	I-15 SB Ramps & Carroll Canyon Rd	31%
143	I-15 NB Ramps & Carroll Canyon Rd	30%



Existing Pedestrian Connectivity Ratio

PEDESTRIAN BARRIERS AND MISSING FACILITIES

As shown in Figure 4-1, sidewalks are provided along many of the roadways within the community. There are a few areas within the community that have missing facilities or barriers for pedestrian connectivity. **Figure 4-11** shows the pedestrian barriers identified in the community that are described below:

- Los Peñasquitos Canyon Preserve: There are several trails through Los Peñasquitos Canyon that pedestrians and bicyclists can use to travel east-west across the entire north side of the community or across the canyon. These trails are primarily used for recreational purposes. For a pedestrian on a non-recreation trip, the canyon can act as a barrier between Mira Mesa and communities to the north. Crossing the canyon requires traversing steep slopes that can be limiting to certain users and be less time-efficient than other modes of travel. The canyon connects to Black Mountain Road on the far east side of the community and Vista Sorrento Parkway on the far west side of the community; however, there are no crossings between Black Mountain Road and Vista Sorrento Parkway. The trail system crossing under Sorrento Valley Boulevard connects to the Lopez Canyon trail system approximately a half mile east of Vista Sorrento Parkway. Black Mountain Road currently provides the only paved crossing through the canyon, with sidewalks and Class II buffered bike lanes on both sides of the roadway.
- Lopez Canyon: There is also a trail through Lopez Canyon, which runs-east-west between Sorrento Valley Boulevard and Mira Mesa Boulevard on the west side of the community. This trail connects to the Los Peñasquitos trail under Sorrento Valley Boulevard, and to the intersection of Pacific Center Boulevard and Pacific Mesa Boulevard within the Sorrento Valley employment area. There are no paved crossings over Lopez Canyon creating a barrier from residences along Sorrento Valley Boulevard/Calle Cristobal and employment or schools south of the canyon near Mira Mesa Boulevard.
- Interstate 805: In general, the interstate acts as a barrier between land uses located east and west due to the limited crossing locations and undesirable crossings near high volumes of vehicles. This is typical with freeways as there are limited roadways that cross or intersect. The following roadways intersect with I-805; however, not all of these roadways provide a facility for pedestrians to cross, some provide sidewalks on only one side of the roadway:
 - Sorrento Valley Boulevard is the primary connection between the Sorrento Valley Station and the Mira Mesa community but provides facilities that are challenging for pedestrians and bicycles under I-805. The sidewalks are approximately 6 feet wide with various obstructions to the pedestrian clear zone, and little to no horizontal separation between high-speed vehicles and pedestrians. The bike lanes are 5 feet wide, including the gutter pan, start and stop abruptly, and do not provide guidance for navigating the Sorrento Valley Road intersection.
 - The I-5 ramps between Genesee Avenue and Sorrento Valley Road provide access to a separated bicycle facility in both directions along the west side of the I-5 freeway to connect the Sorrento Valley Station to the UCSD campus.
 - Mira Sorrento Place connects to Vista Sorrento Parkway at an intersection with I-805 northbound on and off ramps but does not cross I-805.
 - Mira Mesa Boulevard / Sorrento Valley Road crosses under I-805 as a secondary route connecting the Sorrento Valley Station and the community of Torrey Pines to Mira Mesa. The underpass provides pedestrian access on the north side only, with no horizontal separation from high-speed vehicle travel lanes, and no crossings across Mira Mesa Boulevard at Vista Sorrento Parkway.

- Carroll Canyon Road also crosses under I-805 with 8-foot sidewalk on the south side only, separated by 6-foot bike lanes. The HOV lane ramps for I-805 northbound and southbound intersect with Carroll Canyon Road.
- Miramar Road does not intersect with I-805 within the community boundary, however Miramar Road continues into La Jolla Village Drive within the University community and provides a 5-foot sidewalk along the north side.
- Interstate 15: While the number of locations where pedestrians can cross Interstate 15 is limited, there are pedestrian connections along each roadway crossing the freeway. The impact the freeway barrier has on pedestrians has been minimized by providing sidewalks on all four intersecting roadway crossings that provide connections between Mira Mesa and the adjacent communities to the east (Scripps Miramar Ranch, Miramar Ranch North, and Sabre Springs). However, the bicycle facilities crossing these roadways are all low-quality due to lack of separation from high speed and high volume of motorists.
 - Mercy Road / Scripps Poway Parkway crosses under I-15 with 5-foot sidewalks, and 5-foot bike lanes.
 - Mira Mesa Boulevard crosses under I-15 with 6-foot sidewalks, and no bicycle facilities
 - Carroll Canyon Road crosses over I-15 with 6-foot sidewalks and 8-foot shoulders that could be utilized by bicyclists, but striping is not provided. Bike lanes continue on the east side of I-15, but not on the west side within Mira Mesa.
 - Miramar Road crosses over I-15 with 5-foot sidewalks on both sides and 6 to 8-foot shoulders. West of Kearny Mesa Road there are 5 to 6 foot bike lanes as well as east of the I-15 at Pomerado Road in the eastbound direction.



Existing Pedestrian Barriers

4.2 BICYCLE MOBILITY

The City of San Diego has developed a network of designated Class I paths, Class II bike lanes, Class III bike routes as part of their Bicycle Master Plan efforts. A Class I facility is a bike path that provides for bicycles to travel on a paved right-of-way completely separated from any street or highway. A Class II facility is a bike lane that provides bicycles an exclusive lane of travel on a roadway separated by pavement markings. This facility can also include a painted buffer which may provide a separation from cyclists and vehicle travel lanes or parking lanes. A Class III facility is a bike route that provides shared use with motor vehicle traffic and is typically identified by signage and/or pavement markings. Class IV bikeways were introduced in 2014, which provide separated bicycle facilities within the roadway but protected from vehicle traffic by a vertical element of separation.

Figure 4-12 displays the location of the existing bvicycle facilities within the Mira Mesa community. The community has bike lanes along most of the major roadways in the community but does not provide many facilities beyond that. There are ways to get across the community using bike lanes, but this requires riding along busy roadways with high volumes and high speeds. Internal community facilities connecting residents to recreation or retail areas are minimal. Commute trip connections between transit stations and employment areas are provided on the primary roadways that vehicles would also use. This creates high levels of stress for most riders.

Bicycle connections are provided to adjacent communities to the west via the I-5 ramps and Miramar Road, to the north via Sorrento Valley Road and Black Mountain Road, to the south via Kearny Villa Road, and to the east via Mercy Road, Carroll Canyon Road, and Miramar Road.

The following section summarizes the existing bicycle environment in Mira Mesa using the following evaluations:

	Using existing turning movement count data
Demand	Based upon the Bicycle Demand Model (BDM)
	Based upon census-based mode share data
Safety	Using bicycle-related collision data for a recent five-year period
Quality	Using Level of Traffic Stress (BLTS) analysis
	Using a bikeshed ratio evaluation
Connectivity	(Low-stress) Using combination of BLTS and bikeshed evaluations



Existing Bicycle Facilities

4.2.1 BICYCLE DEMAND

Bicycle demand was evaluated using the City of San Diego Bicycle Demand Model (BDM). The BDM has two demand components: intra-community and inter-community travel. Model inputs include population characteristics, bicycle trip attractors and generators, and proximity to land uses that are typically associated with higher rates of cycling activity. **Figure 4-13** displays the Bicycle Demand Model results for the Mira Mesa community with scoring relative to the scores within the community. The BDM process is described in more detail in Section 2.2.

The highest bicycle demand areas are concentrated near the Miramar College Transit Station, along Mira Mesa Boulevard and Miramar Road, and north-south connections between Mira Mesa Boulevard and Miramar Road. These roadways collect travel demand between attractors and generators in the community as there are few connections that traverse the community boundary. The area near Miramar College has high population and potential interaction between transit, employment, college, and recreation areas.

Bicycle demand is lowest in the large employment areas on the western half of the community. There are minimal interactions between the employers in this area, so travel is limited to commute traffic and it is not an easily accessible area with the current bicycle network.

The residential areas of the community experience relatively high demand, showing a need for investments in creating low-stress connections between residential areas and nearby recreation, retail, and schools.

Bicycle commute mode share is another measure of where demand exists for bicycle infrastructure or where existing facilities are successfully accommodating some bicycle commutes. American Community Survey data, 2017 5-year estimates, were used to determine how the commute mode share in the Mira Mesa community compares to both the City of San Diego and the County of San Diego. **Table 4-10** presents the bicycle commute mode share comparison. The Mira Mesa community has an average bicycle mode share slightly higher than the City of San Diego and San Diego County.

	Mira Mesa	City of San Diego	San Diego County
Total Bicycle Commutes	577	6,904	10,370
Total Workers	58,910	762,993	1,549,529
Bicycle Commute Mode Share	1.0%	0.9%	0.7%

Table 4-10 Bicycle Commute Mode Share Comparison

Figure 4-14 displays bicycle commute rates and the total number of bicycle commuters by census block group throughout the Mira Mesa community. As shown, bicycle commute mode share is highest in the southeastern portion of the community and for the most part, tends to have higher mode shares as you go away from the center of the community. The highest commute mode share is shown near Camino Ruiz between Capricorn Way and Aquarius Drive where retail and multifamily residential developments are located.

Figure 4-15 and **Figure 4-16** display the AM and PM peak hour bicycle movements observed at the 92 study intersections. Overall observed bicycle volumes were slightly greater during the PM peak hour. Higher bicycle volumes were observed near Miramar College, and along Mira Mesa Boulevard and Black Mountain Road.



Bicycle Demand



FIGURE 4-14 SABRE SPRINGS MIRAMAR RANCH NORTH 0 0 MIRAMAR RESERVOIR Miramar College 31 SCRIPPS MIRAMAR RANCH 29 43 COUNTY OF SAN DIEGO 15 0.5 Miles

Bicycle Commute Mode Share by Census Block Group



Bicycle Peak Hour Volumes (AM Peak)



Bicycle Peak Hour Volumes (PM Peak)

4.2.2 BICYCLE SAFETY

Between October 2012 and September 2017, there were a total of 94 reported collisions involving bicycles within the Mira Mesa community. In the State of California, collision reports must be generated for any collision where: property damage equals or exceeds 750 dollars, city property is involved, someone is injured, a fatality occurs, a pedestrian or cyclist is involved, or it is a hit-and-run or DUI collision. It is important to note some bicycle collisions may go unreported.

Reported bicycle-involved collision data within the vicinity of the community planning area are illustrated in **Figure 4-17**. Additional information on the collisions is provided in **Appendix A**.

Most locations have isolated collisions, while some intersections or mid-block locations have identified multiple collisions in the five-year period. Locations within 350 feet of an intersection were considered intersection-related, and bundled with the intersection crashes. Mid-block crash locations were evaluated on a case-by-case basis, and bundled if they occurred within close proximity of each other with similar roadway characteristics and crash trends. The locations with three or more collisions are identified in **Table 4-11**.

Intersection	Collisions
Mira Mesa Blvd & Camino Ruiz	5
Mira Mesa Blvd & Westview Pkwy	4
Mira Mesa Blvd & Westmore Rd/Marbury Ave	3
Miramar Rd East of Commerce Ave / Milch Rd	3

Table 4-11 Most Frequent Bicycle Collision Locations

The location types of the reported bicycle-involved collisions are summarized in **Table 4-12**. Types include intersection, mid-block, and approaching/departing locations. Similar to pedestrian-involved collisions, over two-thirds of all bicycle-involved collisions occurred at intersections.

Table 4-12 Bicycle Collisions by Location Types

Collision Location Type	Collisions	Percent of Total
Approaching/Departing	19	20%
Intersection	64	68%
Midblock	11	12%
Total	94	100%

Table 4-13 summarizes the collisions by the party at fault, as reported for the collision. Bicyclists were reported as "at-fault" in 30 percent of all collisions. Drivers were reported as "at-fault" in 28 percent of all collisions. All other collisions did not state the party at fault or were listed as "other."

Party at Fault	Collisions	Percent of Total
Bicyclist	28	30%
Driver	26	28%
Not Stated	26	28%
Parked Vehicle	1	1%
Other	13	14%
Total	94	100%

Table 4-13 Bicycle Collisions by Party at Fault

Table 4-14 displays the primary causes for bicycle involved collisions. As shown in the table, the top cause for bicycle-involved collisions was unsafe speed, followed by auto right-of-way violation and improper turning.

Table 4-14 Primary Bicycle-Involved Collision Cause (2012-2017)

Primary Collision Cause	Number of Collisions	Percent of Total Bicycle Collisions
Auto R/W Violation	18	19%
Impeding Traffic	1	1%
Improper Passing	1	1%
Improper Turning	18	19%
Not Stated	7	5%
Other	2	2%
Other Hazardous Movement	4	4%
Other Than Driver	3	3%
Pedestrian Violation	2	2%
Traffic Signals and Signs	3	3%
Unknown	1	1%
Unsafe Lane Change	4	4%
Unsafe Speed	19	20%
Unsafe Starting or Backing	1	1%
Wrong Side of Road	10	11%
Total	94	100%



Bicycle Collisions (Oct 2012 to Sep 2017)

4.2.3 BICYCLE FACILITY QUALITY

Bicycle Level of Traffic Stress (BLTS) analysis was completed to summarize the quality of bicycle facilities in the community. BLTS evaluates the network of streets and bicycle paths according to the quality of the bicycling experience, based on an evaluation of surrounding roadway and traffic conditions. LTS is a widely accepted measure developed by the Mineta Transportation Institute at San Jose State University, and detailed in the 2012 report "Low Stress Bicycling and Network Connectivity."¹¹

The report also draws from work done by the City of Portland, Oregon, to classify bicycle riders into four types based on their tolerance for traffic.¹² **Table 4-15** defines the four LTS levels in terms of suitable rider types and the cycling experience. A score of 1 represents the lowest level of stress/highest suitability, while a score of 4 represents the highest level of stress/least suitability.

Level of Traffic Stress	Suitable Rider Type
LTS 1	"Interested but Concerned" - Adults and Children
LTS 2	"Interested but Concerned" - Adults Only
LTS 3	"Enthused and Confident" - Adults Only
LTS 4	"Strong and Fearless" - Adults Only

Source: "Low Stress Bicycling and Network Connectivity," Mineta Transportation Institute, p. 14.

Figure 4-18 shows the LTS score for each direction of the roadways in Mira Mesa. **Appendix C** includes the detailed inputs used for BLTS analysis.

Increased number of travel lanes and higher speeds result in a more stressful experience and is shown in the BLTS scoring. As seen in the figure, the majority of the Mira Mesa community has pockets of low stress bicycle facilities that are isolated from the rest of the community due to high speed and high traffic roadways creating a stress barrier for cyclists. Miramar College and transit station are surrounded by high-stress facilities, while the demand is greatest in this area. The community does not have any east-west or north-south corridors that offer low-stress options for bicyclists to access destinations for recreation, leisure, or employment.

Mira Mesa Boulevard creates a high-stress barrier between the north and south portions of the community with only high-stress crossings. Similarly, Camino Santa Fe, Camino Ruiz, and Black Mountain Road are all high-stress routes that further separate areas of the community and prevent bicyclists from accessing destinations comfortably. In addition, all access points in and out of the community are identified as high-stress, and discourage regional travel by bike.

Segments of Gold Coast Drive, Hillery Drive, Capricorn Way, and Aquarius Drive are classified as LTS 2 and allow comfortable short-haul trips between residences, parks and schools. However, portions of these segments are broken up by high-stress intersection crossings that could be upgraded to create longer comfortable routes for bicyclists.

¹¹ <u>http://transweb.sjsu.edu/project/1005.html</u>

¹² https://www.portlandoregon.gov/transportation/44597?a=237507



Existing Bicycle Level of Traffic Stress

4.2.4 BICYCLE NETWORK CONNECTIVIY

Bicycle network connectivity can be measured by the Bikeshed Ratio. This is a metric which compares the area reachable via the bike network within a given distance, often known as the bikeshed, to the "as-the-crow-flies" area, which is a circular coverage area with a radius of the same given distance. This measure indicates how connected and accessible a given area is within the bicycle network. Constraints on connectivity include natural features, such as canyons or rivers, and street grid inefficiencies. Therefore, a score of 65 percent is considered a near maximum score, while a score over 50% is considered ideal.

The methodology for the Bikeshed Ratio is described in **Section 2.2**. The analysis focuses on the area between 0.25 miles and 1.0 mile from the point being assessed. The inner area between 0 miles and 0.25 miles from each point was removed, as it is assumed to be completed by pedestrian trips. This analysis examined 135 points at study area intersections to provide a comprehensive picture of community bicycle connectivity.

Results from the analysis are displayed in **Figure 4-19** with individual bicycle connectivity ratios for each intersection shown in **Table 4-16**. High connectivity is found in the center of the community near the intersection of Mira Mesa Boulevard and Camino Ruiz, where roadway connections are more abundant. Outside of the residential areas of the community, bicycle connectivity ratios become lower, as the roadway connections are limited by canyons. The future Carroll Canyon Road extension will provide some increased connectivity to the southern portion of the community.

Bicycle connectivity can also be assessed by the ability for connections to be made on low stress routes, which are those characterized as LTS 1 or LTS 2. The analysis determined how each traffic analysis zone (TAZ) in the community is connected via the low stress routes. The equation below represents the ratio's calculation:

Number of TAZs accessible via low-stress routes (LTS 1 and 2 only) Number of TAZs accessible via all routes

The results of the analysis are shown in **Figure 4-20**. As seen, there are a number of TAZs where there is no accessibility via low-stress bicycle facilities. These areas are completely isolated due to adjacency to canyons and high-stress facilities along Lusk, Mira Mesa Boulevard, Camino Santa Fe, and Miramar Road where there are no alternative route options. The residential areas of the community are pretty well connected with low-stress alternatives because of the availability of residential street, which have lower speeds and less vehicles. Key crossings will need to be identified to allow low-stress bicycle crossing of the major roadways in these areas.

Mira Mesa's canyons limit some opportunities for increasing low-stress connections, as bikes will need to travel on high-speed, wide roadways for certain portions. Class IV facilities will be considered along these portions, but are not likely to be feasible at most locations because of limited right-of-way availability with the adjacent terrain. The barriers from high-stress facilities currently limit the interaction between different areas of the community. For example, getting to and from the industrial area on Miramar Road from adjacent communities or the residential area of Mira Mesa currently requires travel on a high-stress facility. Similarly, access to and from the western portion of the community (which is a major employment center for the community) has many high-stress bicycle facilities with no alternative options.



FIGURE <u>4-19</u>

Existing Bicycle Network Connectivity (Bikeshed Ratio)

Intersection ID	Intersection Name	Bicycle Connectivity Ratio
1	Ivory Coast Dr & Marauder Wy	54%
2	Vista Sorrento Pkwy & Lusk Blvd	26%
3	Vista Sorrento Pkwy & Directors Pl	19%
4	Vista Sorrento Pkwy & Mira Sorrento Pl	23%
5	Vista Sorrento Pkwy & Mira Mesa Blvd/I-805 NB Ramps	24%
6	Sorrento Valley Rd & Carroll Canyon Rd/I-805 SB Ramps	19%
7	Juniper Park Ln & Sorrento Valley Blvd	12%
8	Sunny Mesa Rd & Sorrento Valley Blvd	14%
9	Camino Santa Fe & Sorrento Valley Blvd/Calle Cristobal	16%
11	Carroll Canyon Rd & I-805 DAR	20%
13	Office Driveways & Lusk Blvd	22%
14	W Wateridge Cir & Lusk Blvd	13%
15	Telesis Ct & Lusk Blvd	15%
16	E Wateridge Cir & Lusk Blvd	16%
17	Pacific Center Blvd & Lusk Blvd	28%
18	Lusk Blvd & Barnes Canyon Rd	34%
19	Lusk Blvd & Morehouse Dr	34%
20	Lusk Blvd & Mira Mesa Blvd	37%
21	Scranton Rd & Mira Sorrento Pl	25%
22	Scranton Rd & Morehouse Dr	26%
23	Scranton Rd & Mira Mesa Blvd	27%
24	Scranton Rd & Sorrento South Dwy/Oberlin Dr	27%
25	Scranton Rd & Carroll Canyon Rd	24%
26	Pacific Heights Blvd & Barnes Canyon Rd	32%
27	Wireless Wy & Pacific Center Blvd	23%
28	Pacific Heights Blvd & Pacific Center Blvd	24%
29	Pacific Mesa Blvd & Pacific Center Blvd	23%
30	Pacific Mesa Blvd & Pacific Heights Blvd	32%
31	Pacific Heights Blvd & Mira Mesa Blvd	38%
32	Pacific Heights Blvd & Cornerstone Ct	33%
33	Pacific Heights Blvd & Carroll Canyon Rd	27%
34	Lopez Point Dr & Calle Cristobal	16%
35	Camino Propico & Calle Cristobal	14%
36	Lopez Ridge Park Driveways & Calle Cristobal	14%
37	Camino Miranda & Calle Cristobal	18%
38	Windey Ridge Wy & Calle Cristobal	28%
39	Prairie Wood Dr & Calle Cristobal	35%

Table 4-16 Bicycle Connectivity Ratio at Pedestrian Study Intersections

Intersection ID	Intersection Name	Bicycle Connectivity Ratio
40	Avenida Del Gato & Calle Cristobal	36%
41	Camino Ruiz & Calle Cristobal	37%
42	Sequence Dr/ Huennekens St & Mira Mesa Blvd	31%
43	Genetic Center/Steadman St & Mira Mesa Blvd	28%
44	Flanders Dr & Mira Mesa Blvd	33%
45	Viper Wy & Mira Mesa Blvd	39%
46	Camino Santa Fe & Mira Mesa Blvd	42%
47	Schilling Ave & Mira Mesa Blvd	34%
48	Aderman Ave & Mira Mesa Blvd	39%
49	Parkdale Ave & Mira Mesa Blvd	58%
50	Reagan Rd & Mira Mesa Blvd	57%
51	Mira Mesa Mall Driveways & Mira Mesa Blvd	53%
52	Camino Ruiz & Mira Mesa Blvd	59%
53	New Salem St/Marauder Wy & Mira Mesa Blvd	56%
54	Westonhill Dr & Mira Mesa Blvd	61%
55	Greenford Dr & Mira Mesa Blvd	61%
56	Westmore Rd/Marbury Ave & Mira Mesa Blvd	54%
57	Black Mountain Rd & Mira Mesa Blvd	44%
58	Westview Pkwy & Mira Mesa Blvd	40%
59	I-15 SB Ramps & Mira Mesa Blvd	34%
60	I-15 NB Ramps & Mira Mesa Blvd	31%
62	Business Access Road & Carroll Canyon Rd	17%
63	Youngstown Wy & Carroll Canyon Rd	28%
64	Nancy Ridge Dr & Carroll Canyon Rd	27%
65	Rehco Rd & Carroll Rd	31%
66	Camino Santa Fe & Carroll Rd	38%
67	Carroll Rd & Kenamar Dr	31%
68	Carroll Rd & Miramar Rd	30%
70	Camino Santa Fe & Miramar Rd	25%
72	Commerce Ave & Miramar Rd	28%
73	Production Ave & Miramar Rd	29%
74	Distribution Ave & Miramar Rd	31%
75	Miramar Wy & Miramar Rd	32%
76	Empire St & Miramar Rd	18%
77	Dowdy Dr & Miramar Rd	18%
78	Chabot Dr & Miramar Rd	19%
79	Camino Ruiz & Miramar Rd	40%
80	Clayton Dr/Mitscher Wy & Miramar Rd	45%

Intersection ID	Intersection Name	Bicycle Connectivity Ratio
81	Black Mountain Rd & Miramar Rd	31%
82	Kearny Villa Rd & Miramar Rd	23%
83	Kearny Mesa Rd & Miramar Rd	21%
84	I-15 SB Ramps & Miramar Rd	18%
86	Camino Santa Fe & Flanders Dr	39%
87	Dabney Dr & Flanders Dr	49%
88	Parkdale Ave & Flanders Dr	52%
89	Camino Ruiz & Flanders Dr	55%
90	San Ramon Dr & Flanders Dr	49%
91	Camino Santa Fe & Top Gun St	35%
92	Camino Santa Fe & Miratech Dr	20%
93	Camino Santa Fe & Summers Ridge Rd	17%
94	Camino Santa Fe & Unnamed Road	25%
95	Camino Santa Fe & Trade St	35%
96	Parkdale Ave & Gold Coast Dr	48%
97	Montongo St & Acama St	38%
98	Montongo St & New Salem St	50%
99	Montongo St & Goleta Rd	47%
100	Camino Ruiz & Aquarious Dr	41%
101	Camino Ruiz & Teresa Dr/Capricorn Wy	51%
102	Camino Ruiz & Westmore Rd	58%
103	Camino Ruiz & New Salem St	58%
104	Camino Ruiz & Driveway	54%
105	Camino Ruiz & Reagan Rd/Marauder Wy	56%
106	Camino Ruiz & Gold Coast Dr	53%
107	Camino Ruiz & Jade Coast Dr	44%
108	Camino Ruiz & Carroll Canyon Rd	30%
109	Camino Ruiz & Miralani Dr	35%
110	Camino Ruiz & Activity Rd	36%
113	San Ramon Dr & Gold Coast Dr	46%
114	Thanksgiving Ln & Gold Coast Dr	40%
115	Black Mountain Rd & Gold Coast Dr	42%
116	Westonhill Dr & Arctrus Wy	48%
117	Black Mountain Rd & Capricorn Wy	48%
118	Westview Pkwy & Capricorn Wy	34%
119	Black Mountain Rd & Mercy Rd	25%
120	Black Mountain Rd & Westview Pkwy	26%
121	Black Mountain Rd & Galvin Ave	46%

Intersection ID	Intersection Name	Bicycle Connectivity Ratio
122	Black Mountain Rd & Gemini Ave	44%
123	Black Mountain Rd & Village Green/The Hills Driveways	44%
124	Black Mountain Rd & Hillery Dr	46%
125	Black Mountain Rd & Miramar College	41%
126	Black Mountain Rd & Carroll Canyon Rd	37%
127	Black Mountain Rd & Maya Linda Rd	34%
128	Black Mountain Rd/Kearny Villa Rd & Black Mountain Rd/Carroll Centre Rd	30%
129	Black Mountain Rd & Activity Rd	29%
130	Rickert Rd & Hillery Dr	45%
131	Westview Pkwy & Hillery Dr	29%
132	Mercy Rd & Kika Ct	19%
133	Alamenia Rd & Mercy Rd	23%
134	I-15 SB Ramps & Mercy Rd	24%
135	I-15 NB Ramps & Mercy Rd	25%
136	Westview Pkwy & Campus Point Dr N	20%
137	Westview Pkwy & Campus Point Dr S	25%
138	Westview Pkwy & Mira Lee Wy	34%
139	Westview Pkwy & Galvin Ave	36%
140	Westview Pkwy & Market Center Driveway	31%
141	Maya Linda Rd & Carroll Canyon Rd	29%
142	I-15 SB Ramps & Carroll Canyon Rd	29%
143	I-15 NB Ramps & Carroll Canyon Rd	30%



Existing Bicycle Network Connectivity (Low-Stress Connectivity)

4.3 TRANSIT

Public transportation (transit) service is provided throughout the San Diego region. The following section summarizes the existing transit environment in Mira Mesa using the following evaluations:

Demand	 Using ridership information Based upon census-based mode share data (Potential) based upon census-based population density data (Potential) based upon LODES employment density data
Safety	 Using pedestrian- and bicycle-related collision data near transit stops for a recent five-year period
Quality	Using inventory of transit stop amenitiesUsing roadway speed simulation analysis
Connectivity	Using walkable area within 1/4-mile distance to major transit stations

Figure 4-21 shows an overview of the roadway facilities where transit is available within the Mira Mesa community. The Miramar College Transit Station is the only major transit station located within the community. The Sorrento Valley Station is located just outside of Mira Mesa, west of the community boundary, but is included in the discussion as it provides a major connection point for Mira Mesa's transit system and overall transportation network. Currently, buses are the primary form of transit provided in the community. Private shuttle services are also being utilized by some of the larger employers in the community and may not be reflected in Figure 4-21.

BUS ROUTES

There are nine Metropolitan Transit Service (MTS) routes that currently serve the Mira Mesa community. A description and map of each of the bus routes within the community is provided in **Appendix D**. Most of the bus routes serving the community are focused on connecting specific areas of the community to one of the two major transit stations for access to other bus routes, trolley lines and regional services. Mira Mesa Boulevard services three bus routes all of which terminate or travel through the Miramar Transit Station. Otherwise most roadways have only one route. Bus routes within the Mira Mesa community include;

ROUTE 20 – 30-minute headway service between Downtown San Diego and Rancho Bernardo with a stop at Miramar College Transit Station

ROUTE 31 – 30-minute headway peak period service (5:55 – 8:28 AM and 2:27 – 6:33 PM) between University community and Mira Mesa via Miramar Rd

ROUTE 110 (EXPRESS) – Limited AM (6:00 – 7:00) and PM (4:00 – 5:30) service between Downtown and 2 stops in Mira Mesa: Miramar College Transit Station and Camino Santa Fe & Flanders Dr

ROUTE 235 – 15-minute headway service between Downtown San Diego and Escondido with a stop at Miramar College Transit Station

ROUTE 237 – peak hour 15-minute headways (6:22 – 9:50 AM and 4:19 – 5:40 PM) between University community and Mira Mesa community along Mira Mesa Blvd between I-805 and Miramar College Transit Station



Existing Transit Routes

ROUTE 921 - 30-minute headway service between UTC and Mira Mesa via Mira Mesa Blvd and Scranton Rd / Barnes Canyon Rd / Pacific Heights Blvd

ROUTE 964 – 30-minute headway service between Scripps Ranch and Mira Mesa via Black Mountain Rd / Gold Coast Dr / Camino Ruiz

ROUTE 972 – Limited AM (6:30 – 9:00) and PM (3:30 – 6:10) service between Sorrento Valley Station to Sorrento Mesa area (western portion of the community)

ROUTE 973 - Limited AM (6:30 – 9:00) and PM (3:30 – 6:10) service between Sorrento Valley Station to Carroll Canyon area

RAIL SERVICES

No rail lines traverse through the Mira Mesa Community; however, the Sorrento Valley Station serves the COASTER/AMTRAK and is located just west of the community with access available from multiple Mira Mesa roadways. The rail services provide connections north and south of the community and connect to other regional rail services.

Both the COASTER and the Pacific Surfliner services are part of the 351-mile Los Angeles-San Diego-San Luis Obispo Rail Corridor that travels through a six-county coastal region in Southern California.

NCTD COASTER

The COASTER is a commuter rail line operated by NCTD that runs north to south from Oceanside to downtown San Diego with a stop at the Sorrento Valley Station. The COASTER serves eight stations including Santa Fe Depot, Old Town, Sorrento Valley, Solana Beach, Encinitas, Carlsbad Poinsettia, Carlsbad Village, and Oceanside. It takes about an hour to travel the entire route from downtown San Diego (Santa Fe Depot) to the Oceanside Transit Center. The rail line provides 11 daily round-trip services Monday through Thursday, 13 round-trip services on Fridays, six round-trip services on Saturdays, and four round-trip services on Sundays and Holidays. The COASTER also provides expanded service in the spring and summer and additional trains scheduled for special events as needed (such as Padres games). The fare varies depending on the number of zones traveled.

AMTRAK Pacific Surfliner

The Pacific Surfliner is a passenger rail line operated by AMTRAK that runs north to south from San Luis Obispo to downtown San Diego with a stop at the Sorrento Valley Station. The Pacific Surfliner serves thirty stations including the eight COASTER stations stated above, as well as Anaheim, Santa Barbara, and Los Angeles. The rail line offers 12 daily round-trip services between San Diego and Los Angeles, and between Santa Barbara and San Diego. Commuters with COASTER passes can use AMTRAK trains that are not full.

SHUTTLE SERVICES

Several of the larger employers in the area provide their own shuttle service between the Sorrento Valley Station and their buildings. Currently the private shuttles are independently operated and are not shared resources between different employers.

4.3.1 TRANSIT DEMAND

Transit demand was assessed through a combination of stop-level ridership data, census commute mode share data, and evaluation of the population and employment density within Mira Mesa community.

A full list of stop-specific ridership information from Spring 2017 is presented in **Appendix D**. The data provides boardings (getting on the vehicle), alightings (getting off the vehicle), and total ridership for MTS routes serving the Mira Mesa community using ridership data provided by SANDAG/MTS. **Figure 4-22** displays the average number of weekday boardings at each stop and **Figure 4-23** displays the average number of weekday alightings at each stop.

Miramar College Transit Station, the only major transit stop in the community, has the highest boardings and alightings. Not including the Miramar College Transit Station, the ten bus stops with the highest daily boardings are provided in **Table 4-17**, and the ten stops with the highest daily alightings are provided in **Table 4-18**.

As shown in the tables, many of the high boardings and alightings stops are located along Mira Mesa Boulevard and Black Mountain Road. Within the community, boardings and alightings are generally higher near shopping centers. The employment area on the west side of the community has low to moderate ridership. Camino Ruiz where route 964 services the residential area north of Mira Mesa Boulevard also has moderate ridership. Miramar Road has low ridership.

Transit Stops with Most Passengers	Boardings
Mira Mesa BI & Camino Ruiz (NW Corner)	148
Mira Mesa BI & Camino Ruiz (SE Corner)	80
Black Mountain Rd & Gold Coast Dr (NW Corner)	77
Mira Mesa BI & Black Mountain Rd (NW Corner)	73
Black Mountain Rd & Activity Rd (NW Corner)	53
Mira Mesa BI & Pacific Heights BI (SE Corner)	50
Barnes Canyon Rd & Pacific Heights BI (SE	
Corner)	43
Gold Coast Dr & Camino Ruiz (SE Corner)	35
Mira Mesa BI & Shilling Av (NW Corner)	33
Zapata Av & Kelowna Rd (SW Corner)	30

Table 4-17 Mira Mesa Community Transit Stops with Most Passenger Boardings

*FY2017 Spring Ridership Source: SANDAG

Transit Stops with Most Passengers	Alightings
Mira Mesa BI & Camino Ruiz (SE Corner)	132
Mira Mesa BI & Camino Ruiz (NW Corner)	91
Black Mountain Rd & Mira Mesa BI (SW Corner)	68
Camino Ruiz & Capricorn Wy (NE Corner)	68
Black Mountain Rd & Miramar Rd (NE Corner)	67
Black Mountain Rd & Gold Coast Rd (NE Corner)	53
Mira Mesa BI & Pacific Heights BI (NW Corner)	47
Barnes Canyon Rd & Pacific Heights BI (SW Corner)	39
Camino Ruiz & Mira Mesa BI (NW Corner)	38
Westview Pkwy & Mira Mesa MarketCenter (East side)	33
*FY2017 Spring Ridership	

Table 4-18 Mira Mesa Community Transit Stops with Most Passenger Alightings

*FY2017 Spring Ridership Source: SANDAG

Table 4-19 provides a summary of total ridership for each route within the community. Route 921 is the most heavily utilized bus route in the community, running east-west along Mira Mesa Boulevard between the University of California San Diego and the Miramar College Transit Station. This route services the employment area in Sorrento Valley during the weekdays only, and services the retail and recreational areas near Mesa Verde Park. Route 964 has the second highest ridership and connects Mira Mesa neighborhoods and destinations to Scripps Ranch neighborhoods and destinations. These two highest ridership bus routes show the desire for connections between Mira Mesa and the adjacent communities.

Route	Daily Ridership within Community
20	4242
31	3048
110	669
235	2512
237	4009
921	9802
964	4422
972	990
973	582
978	51
979	35
*FY2017 Spring Ridership	

Table 4-19 Mira Mesa Community Ridership by Route

*FY2017 Spring Ridership Source: SANDAG



Transit Boardings by Stop


Transit Alightings by Stop

Transit commute mode share is another measure of where demand exists and are successfully facilitating some transit commutes. American Community Survey data, 2017 5-year estimates, were used to determine how the commute mode share in the Mira Mesa community compares to both the City of San Diego and the County of San Diego. **Table 4-20** presents the transit commute mode share comparison. The Mira Mesa community has a mode share nearly half that of the City of San Diego and the County of San Diego. This indicates that transit is not a popular choice for people in this community. Transit is composed primarily of bus connections for this community, with the Sorrento Valley Station being the only stop for rail service.

	Mira Mesa	City of San Diego	San Diego County
Total Transit Commutes	1,079	28,753	45,883
Total Workers	58,910	762,993	1,549,529
Transit Commute Mode Share	1.8%	3.8%	3.0%

Table 4-20 Transit Commute Mode Share Comparison

Figure 4-24 displays transit commute rates and the total number of transit commuters by census block group throughout the Mira Mesa community. As shown, transit commute mode share is higher for the areas along the eastern portion of the community, near the Miramar College Transit Station. Areas west and south have no commute mode share, but also have little to no residential uses.

An evaluation of the residential and employment density in the community was also performed to determine areas with the highest population for transit ridership potential. Residential and employment density are shown in **Figure 4-25** and **Figure 4-26**, respectively. Residential density is highest in the eastern portion of the community where large blocks of single-family homes and several multi-family developments are located. Employment density is largely focused on the western portion of the community. Thus, transit demand for work commuters may focus on providing access to the businesses in the western areas of the community, whereas resident-focused service may be in greater demand in the central and eastern portions of the community. The southern, industrial portion of the community has a mix of moderate residential and employment density.

An evaluation of how much of the density is within 0.25-miles of a transit stop was performed. The results are summarized in **Table 4-21**. As shown, 57% of residents and 85% of jobs are within 0.25-miles of a transit stop.

	Near Transit	Total in Mira Mesa Community
Residents	14,635	25,840
Jobs	82,972	97,946

Table 4-21 Residential and Employment Density Near Transit



Transit Commute Mode Share by Census Block Group



Residential Density Near Transit



Employment Density Near Transit

4.3.2 SAFETY NEAR TRANSIT STOPS

Between October 2012 and September 2017, there were a total of 110 reported pedestrian- and bicycleinvolved collisions along corridors that serve transit in the Mira Mesa community. In the State of California, collision reports must be generated for any collision where property damage totals 750 dollars or more, someone is injured, or someone is killed. As a result, it is important to note some incidents may go unreported for failing to meet one of these criteria.

Figure 4-27 displays the reported pedestrian- and bicycle-involved collision locations across the community overlaid with the transit stops in the community. Additional information on the collisions is provided in **Appendix A**.

Locations with at least three combined pedestrian- or bicycle-involved collisions along a transit corridor are identified in **Table 4-22**.

Intersections	Collisions
Mira Mesa Blvd & Westview Pkwy	8
Mira Mesa Blvd & Westmore Rd/Marbury Ave	8
Mira Mesa Blvd & Camino Ruiz	7
Mira Mesa Blvd & Black Mountain Rd	6
Camino Ruiz & Capricorn Wy	4
Camino Ruiz & Reagan Rd/Marauder Wy	4
Black Mountain Rd & Gold Coast Dr	4
Mira Mesa Blvd & Sequence Dr	3
Mira Mesa Blvd & Mira Mesa Mall	3
Mira Mesa Blvd & New Salem St	3
Mira Mesa Blvd & Greenford Dr	3
Miramar Rd East of Commerce Ave/Milch Rd	3
Westview Pkwy & Market Center Dwy	3
Black Mountain Rd & Carroll Canyon Rd	3

Table 4-22 Most Frequent Collision Locations near Transit Stops

As shown in the data, areas near transit stops with higher ridership (commute mode share and boardings/alightings) have higher pedestrian- and bicycle-involved collisions. This indicates that the pedestrian and bicycle volumes are likely higher near the transit routes, and there is a need for improved facilities at major intersections and roadways near transit stops.



Bicycle- and Pedestrian-Involved Collisions Along Transit Corridors

4.3.3 TRANSIT QUALITY

Travel time runs were performed using the floating car method on Black Mountain Road, Mira Mesa Boulevard, Camino Ruiz, and Miramar Road, all of which service transit routes in the community. A discussion on the travel time results for these corridors is provided in **Section 4.4.4**.

MTS also publishes an annual Performance Monitoring Report for the productivity and service quality of each operating transit route. Based on the fiscal year 2017 report, provided in **Appendix D**, Route 964 which connects the Mira Mesa community to the Scripps Ranch community currently operates under the MTS on-time performance goal of 90%.

The rider amenities provided at each stop are presented in **Table 4-23**. For each stop, the amenities present are compared against the standard suite of amenities as identified in the MTS Designing for Transit Manual as described in **Section 2.3**. For stops serving multiple routes, minimum transit amenity requirements are based on total boardings from all routes that serve that stop.

Of particular interest are stations which do not provide sufficient station amenities based on ridership. Accessible stations must have sidewalks with sufficient width, a landing area for a bus ramp, and space for seating underneath a shelter (where present). Of the 168 stops assessed, 57 do not currently meet the station amenities standards.

The MTS stops listed below did not meet accessibility requirements; *italics* represent stops serving more than one route.

Route 20:

- 11700 Black Mountain Rd/Miramar College Drwy
- 12841 Black Mountain Rd/Activity Rd
- 12842 Black Mountain Rd/Miramar Rd

Route 31:

- 11700 Black Mountain Rd/Miramar College Drwy
- 12489 Black Mountain Rd/Carroll Canyon Rd
- 12841 Black Mountain Rd/Activity Rd
- 12842 Black Mountain Rd/Miramar Rd
- 99042 Miramar Rd/Black Mountain Rd
- 99157 Miramar Rd/Empire St

Route 110:

- 10870 Mira Mesa Bl/Reagan Rd
- 11257 Mira Mesa Bl/Montongo St
- 11272 Mira Mesa Bl/Camino Ruiz

Route 237:

• 11272 – Mira Mesa Bl/Camino Ruiz

Route 921:

- 10870 Mira Mesa Bl/Reagan Rd
- 11257 Mira Mesa Bl/Montongo St
- 11272 Mira Mesa Bl/Camino Ruiz
- 12837 Black Mountain Rd/Village Greens MHP (10771)
- 13227 Barnes Canyon Rd/10140
- 13228 Barnes Canyon Rd/10030
- 99203 Westonhill Dr/Mira Mesa BI
- 99206 Westonhill Dr/Hebrides Dr
- 99207 Westonhill Dr/Gold Coast Dr
- 99208 Westonhill Dr/Gold Coast Dr
- 99270 Barnes Canyon Rd/Pacific Heights Bl

Route 964:

- 11700 Black Mountain Rd/Miramar College Drwy
- 60783 Gold Coast Dr/Gold Coast Pl
- 60784 Gold Coast Dr/Londonderry Av
- 60785 Gold Coast Dr/Westchester Av
- 99267 Camino Ruiz/Calle Morelos

Route 972:

- 98505 Pacific Center BI/Pacific Heights BI
- 98512 Morehouse Dr/5510 (Fs Morehouse Tech Ctr Drvwy)
- 98514 Lusk Bl/6455 (@ Qualcomm Design Ctr)
- 98515 Lusk Bl/Telesis Ct
- 99271 Barnes Canyon Rd/Pacific Heights BI

Route 973:

- 98556 Nancy Ridge Dr/Carrol Rd (Carroll Ridge Bus Pk)
- 98557 5960 Nancy Ridge Dr (Sorrento Vista Indu)

The MTS stops listed below did not meet sign and pole; and route designation requirements; *italics* represent stops serving more than one route or also accessibility deficient.

Route 31:

• 99157 – Miramar Rd/Empire St

Route 921:

99061 – Pacific Heights Blvd/Mira Mesa Blvd

Route 972:

- 13200 Lusk Blvd/Barnes Canyon Rd
- 98500 Barnes Canyon Rd/Lusk Blvd
- 98502 Pacific Mesa Blvd/Sorrento View Business Park
- 98503 Pacific Center Ct/Pacific Center Blvd
- 98504 Pacific Center Ct/10450 (In Front of Time Warner)

- 98505 Pacific Center Blvd/Pacific Heights Blvd
- 98506 Pacific Center Blvd/McKellar Ct
- 98507 Lusk Blvd/Vista Sorrento Pkwy
- 98508 Lusk Blvd/Wateridge Cir
- 98509 Lusk Blvd/Telesis Ct
- 98510 Lusk Blvd/Pacific Center Blvd
- 98511 Morehouse Dr/5590 (Pro-Sat & Comm Drwy)
- 98512 Morehouse Dr/5510 (Morehouse Tech Center Drwy)
- 98513 Barnes Canyon Rd/10225 (@ Mailboxes)
- 98514 Lusk Blvd/6455 (@ Qualcomm Design Center)
- 98515 Lusk Blvd/Telesis Ct

Route 973:

- 98517 Pacific Heights Blvd/Mira Mesa Blvd
- 98522 Oberlin Dr/5871 (@ Mailboxes)
- 98525 6310 Nancy Ridge Dr (Nancy Ridge Tech Pk/6349)
- 98526 6650 Nancy Ridge Dr/6767 (@ Fire Hydrant After Drwy)
- 98527 Phage Biotechnology
- 98549 5910 Pacific Center Blvd
- 98550 5788 Pacific Center Blvd
- 98551 Pacific Heights Blvd/Cornerstone Ct
- 98552 Brown Deer Rd/Ferris Sq
- 98553 9215 Brown Deer Rd
- 98554 9339 Carroll Park Dr
- 98555 9449 Carroll Park Dr
- 98556 Nancy Ridge Dr/Carrol Rd (Carroll Ridge Business Pk)
- 98557 5960 Nancy Ridge Dr (Sorrento Vista Industrial Pk)
- 98558 5280 Carroll Canyon Rd
- 98559 Youngstown Wy/Oberlin Dr
- 98560 5807 Oberlin Dr

Stop ID	Route Number	Meets Standards?*	Stop Location	Boardings	Sign and Pole	Route Designation	Accesible	Bench	Expanded Sidewalk	Shelter	Time Table	Trash Container	Lighting
10085	31	Yes	Miramar Rd/Milch Rd	8	Х	Х	Х	Х					Х
10095	31	Yes	Miramar Rd/Distribution Av	1	Х	Х	Х	Х	Х				Х
10107	31	Yes	Miramar Rd/Carroll Rd	8	Х	Х	Х	Х	Х				Х
10124	31	Yes	Miramar Rd/Dowdy Dr	4	Х	Х	Х	Х	Х				Х
10132	31	Yes	Miramar Rd/Cabot Dr	4	Х	Х	Х	Х	Х				Х
10142	110, 921	Yes	Mira Mesa Bl/Reagan Rd (E)	13	Х	Х	Х	Х	Х				Х
10149	110, 921	Yes	Mira Mesa Bl/Westonhill Dr	11	Х	Х	Х	Х	Х	Х		Х	Х
10168	110, 921	Yes	Mira Mesa Bl/Marbury Av	7	Х	Х	Х	Х	Х			Х	
10422	237, 973	Yes	Mira Mesa Bl/Scranton Rd	19	Х	Х	Х	Х	Х	Х	Х	Х	Х
10450	31	Yes	Miramar Rd/Frost Mar Pl	4	Х	Х	Х	Х					Х
10464	31	Yes	Miramar Rd/Production Av	1	Х	Х	Х	Х	Х				Х
10484	110, 921	Yes	Mira Mesa Bl/Parkdale Av	17	Х	Х	Х	Х					Х
10498	110, 921	Yes	Mira Mesa Bl/Reagan Rd (W)	18	Х	Х	Х	Х	Х				Х
10511	110, 237, 921	Yes	Mira Mesa BI/Camino Ruiz	81	х	х	х	х	х				х
10542	110, 921	Yes	Mira Mesa Bl/Greenford Dr	19	Х	Х	Х	Х	Х				Х
10553	921	Yes	Mira Mesa Bl/Rickert Rd	1	Х	Х	Х	Х	Х				Х
10859	110, 921	Yes	Mira Mesa Bl/Parkdale Av	5	Х	X	Х	Х	Х				Х
10870	110, 921	No	Mira Mesa Bl/Reagan Rd	12	Х	Х		Х	Х				
11223	31	Yes	Miramar Rd/Camino Santa Fe	6	Х	Х	Х	Х	Х				Х
11227	31	Yes	Miramar Rd/Commerce Av	5	Х	Х	Х	Х					Х
11233	31	Yes	Miramar Rd/Production Av	3	Х	X	Х		Х				Х

Table 4-23 Transit Stop Amenities

Mira Mesa CPU | Existing Mobility Conditions June 2019

Stop ID	Route Number	Meets Standards?*	Stop Location	Boardings	Sign and Pole	Route Designation	Accesible	Bench	Expanded Sidewalk	Shelter	Time Table	Trash Container	Lighting
11241	31	Yes	Miramar Rd/Distribution Av	2	Х	Х	Х	Х	Х	Х		Х	Х
11251	31	Yes	Miramar Rd/Carroll Rd	4	Х	X	Х	Х					Х
11257	110, 921	No	Mira Mesa Bl/Montongo St	1	Х	X		Х	Х				
11261	31	Yes	Miramar Rd/Empire St	1	х	X	Х	Х	Х				Х
11265	31	Yes	Miramar Rd/Dowdy Dr	2	Х	Х	Х	Х					Х
11272	110, 237, 921	No	Mira Mesa Bl/Camino Ruiz	148	Х	x		х	x	х	х	х	
11274	31	Yes	Miramar Rd/Cabot Dr	2	Х	Х	Х	Х					Х
11282	110, 921	Yes	Mira Mesa Bl/New Salem St	13	Х	Х	Х						Х
11289	110, 921	Yes	Mira Mesa Bl/Westonhill Dr	11	Х	X	Х	Х	X				Х
11292	31	Yes	Miramar Rd/Camino Ruiz	2	Х	X	Х	Х	Х	Х	Х	Х	Х
11294	110, 921	Yes	Mira Mesa Bl/Greenford Dr	21	Х	Х	Х	Х					Х
11302	110, 921	Yes	Mira Mesa Bl/Westmore Rd	5	Х	X	Х	Х	X				Х
11320	237, 110, 921	Yes	Mira Mesa Bl/Black Mountain Rd	73	х	x	х	Х	x	х	х	х	
11699	31, 964	Yes	Black Mountain Rd/Gold Coast Dr	38	х	x	х	х	х	х	х	х	x
11700	31, 964	No	Black Mountain Rd/Miramar College Drwy	4	х	х		Х				х	
11701	31	Yes	Black Mountain Rd/Activity Rd	1	Х	Х	Х	Х					
11703	31	Yes	Black Mountain Rd/Carroll Center Rd	2	х	х	х	Х	х				
12071	964	Yes	Camino Ruiz/Reagan Rd	8	Х	Х	Х	Х		Х	Х	Х	
12073	964	Yes	Camino Ruiz/Mira Mesa Bl	20	Х	Х	Х	Х	Х	Х	Х	Х	
12108	110, 237, 921	Yes	Black Mountain Rd/Mira Mesa Bl	14	х	x	х	Х	x	х	х	х	
12109	921	Yes	Black Mountain Rd/10770 The Woods MHP	0	x	x	х						

Stop ID	Route Number	Meets Standards?*	Stop Location	Boardings	Sign and Pole	Route Designation	Accesible	Bench	Expanded Sidewalk	Shelter	Time Table	Trash Container	Lighting
12111	31, 964	Yes	Black Mountain Rd/Hillery Dr	9	Х	Х	Х	Х	Х	Х	Х	Х	Х
12112	31	Yes	Black Mountain Rd/Carroll Canyon Rd	3	х	x	х	Х					х
12402	110	Yes	Camino Santa Fe/Flanders Dr	3	Х	Х	Х						Х
12489	31	No	Black Mountain Rd/Carroll Canyon Rd	2	х	х		Х				х	х
12807	964	Yes	Camino Ruiz/Reagan Rd	1	Х	Х	Х	Х					Х
12837	921	No	Black Mountain Rd/Village Greens MHP (10771)	3	х	х							х
12838	31, 964	Yes	Black Mountain Rd/Hillery Dr	0	Х	Х	Х	Х					
12839	31, 964	Yes	Black Mountain Rd/Gold Coast Dr	8	х	x	х	Х	х	х	х	х	х
12840	31, 964	Yes	Black Mountain Rd/Miramar College Way	0	х	x	х	Х			х		х
12841	31	No	Black Mountain Rd/Activity Rd	1	Х	Х							Х
12842	31	No	Black Mountain Rd/Miramar Rd	3	Х	Х							
12844	31	Yes	Black Mountain Rd/Carroll Center Rd	1	х	x	х	Х	х			х	Х
13003	31	Yes	Miramar Rd/Miramar Way	3	Х	Х	Х	Х					Х
13070	31	Yes	Miramar Rd/7636	1	Х	Х	Х	Х	Х				
13101	31	Yes	Miramar Rd/Miramar Way	3	Х	Х	Х	Х					Х
13104	31	Yes	Miramar Rd/Northgate Plaza	2	Х	Х	Х	Х					Х
13195	921, 972	Yes	Scranton Rd/Morehouse Dr	8	Х	Х	Х	Х					
13196	921, 972	Yes	Scranton Rd/9605	4	Х	Х	Х	Х	Х		Х		
13197	921, 972	Yes	Scranton Rd/SD Tech Center (9805)	8	х	х	х	Х					х
13198	921	Yes	Barnes Canyon Rd/10055	4	Х	Х	Х	Х					Х
13199	921, 972	Yes	Barnes Canyon Rd/Lusk Bl	19	Х	Х	Х	Х			Х		

Stop ID	Route Number	Meets Standards?*	Stop Location	Boardings	Sign and Pole	Route Designation	Accesible	Bench	Expanded Sidewalk	Shelter	Time Table	Trash Container	Lighting
13200	972	No	Lusk Bl/Barnes Canyon Rd	0			Х						
13202	973	Yes	Mira Mesa Bl/Oberlin Dr	30	Х	X	Х	Х	Х	Х	Х	Х	
13203	237, 921	Yes	Mira Mesa Bl/Pacific Heights Bl	50	Х	X	Х	Х	Х	Х	Х	Х	Х
13204	921	Yes	Mira Mesa Bl/Huennekens St	4	Х	X	Х	Х			Х	Х	
13205	237, 921	Yes	Mira Mesa Bl/Steadman St	27	Х	X	Х	Х	Х	Х	Х	Х	
13206	921	Yes	Mira Mesa Bl/Flanders Dr	6	Х	Х	Х				Х		
13207	921	Yes	Mira Mesa Bl/Viper Wy	10	Х	X	Х	Х	X			Х	Х
13208	110, 921	Yes	Mira Mesa Bl/Camino Santa Fe	16	Х	X	Х	Х			Х		Х
13209	110, 921	Yes	Mira Mesa Bl/Caminito Alvarez	19	Х	Х	Х	Х					Х
13210	110, 921	Yes	Mira Mesa Bl/Aderman Av	14	Х	X	Х	Х					
13215	110, 921	Yes	Mira Mesa Bl/Dabney Dr	2	Х	Х	Х	Х	Х				Х
13216	110, 921	Yes	Mira Mesa Bl/Aderman Av	8	Х	Х	Х	Х	Х				Х
13217	110, 921	Yes	Mira Mesa Bl/Shilling Av	33	Х	Х	Х	Х	Х				
13218	921	Yes	Mira Mesa Bl/Camino Santa Fe	14	Х	Х	Х	Х	Х				Х
13219	921	Yes	Mira Mesa Bl/Viper Wy	4	Х	Х	Х	Х	Х				
13220	921	Yes	Mira Mesa Bl/Flanders Dr	4	Х	Х	Х	Х	Х		Х		Х
13221	237, 921	Yes	Mira Mesa Bl/Genetic Center Dr	15	Х	Х	Х	Х	Х	Х	Х	Х	
13222	921	Yes	Mira Mesa Bl/Sequence Dr	2	Х		Х	Х	Х				
13223	237	Yes	Mira Mesa Bl/Pacific Heights Bl	13	Х	Х	Х	Х	Х	Х	Х	Х	
13226	921	Yes	Barnes Canyon Rd/Lusk Bl	15	Х	Х	Х	Х			Х		
13227	921	No	Barnes Canyon Rd/10140	1	Х	Х							
13228	921	No	Barnes Canyon Rd/10030	1	Х	Х					Х		
13229	921	Yes	Scranton Rd/9808	5	Х	Х	Х	Х			Х		Х
13230	921	Yes	Scranton Rd/Mira Sorrento Pl	3	Х	Х	Х						

Stop ID	Route Number	Meets Standards?*	Stop Location	Boardings	Sign and Pole	Route Designation	Accesible	Bench	Expanded Sidewalk	Shelter	Time Table	Trash Container	Lighting
13231	237, 921	Yes	Mira Mesa Bl/Scranton Rd	27	Х	Х	Х	Х	Х		Х		Х
13321	31	Yes	Miramar Rd/Mitchner Way	11	x	X	Х	Х	Х				Х
60684	964	Yes	Zapata Av/Kelowna Rd	30	Х	Х	Х	Х	Х				
60685	964	Yes	Kelowna Rd/Capricorn Wy	19	Х	Х	Х	Х	Х				
60686	964	Yes	Camino Ruiz/Teresa Dr	9	Х	X	Х	Х	Х				
60687	964	Yes	Camino Ruiz/Hydra Ln	4	Х	Х	Х						
60688	964	Yes	Camino Ruiz/Westmore Rd	5	Х	Х	Х	Х					
60689	964	Yes	Camino Ruiz/New Salem St	20	Х	Х	Х	Х					
60691	964	Yes	Gold Coast Dr/Westchester Av	2	Х	Х	Х						
60693	964	Yes	Gold Coast Dr/Londonderry Av	1	Х	Х	Х						
60694	964	Yes	Gold Coast Dr/Lipscomb Dr	2	Х	Х	Х						
60695	964	Yes	Gold Coast Dr/Westonhill Dr	1	Х	Х	Х						
60696	964	Yes	Gold Coast Dr/San Ramon Dr	4	Х	Х	Х		Х				Х
60697	964	Yes	Gold Coast Dr/Drumcliff Av	0	Х	Х	Х		Х				
60700	964	Yes	Camino Ruiz/Hydra Ln	0	Х	Х	Х		Х				Х
60702	964	Yes	Camino Ruiz/Westmore Rd	0	Х	Х	Х	Х					
60703	964	Yes	Camino Ruiz/New Salem St	16	Х	Х	Х	Х					Х
60704	964	Yes	Camino Ruiz/Mira Mesa Bl	22	Х	Х	Х	Х	Х				Х
60705	964	Yes	Gold Coast Dr/Camino Ruiz	2	Х	Х	Х	Х			Х		
60779	964	Yes	Gold Coast Dr/Camino Ruiz	35	Х	Х	Х	Х			Х		
60780	964	Yes	Gold Coast Dr/Saluda Av	4	Х	Х	Х		Х				
60781	964	Yes	Gold Coast Dr/San Ramon Dr	4	Х	Х	Х		Х				Х
60782	964	Yes	Gold Coast Dr/Gold Coast Wy	8	Х	Х	Х						Х
60783	964	No	Gold Coast Dr/Gold Coast Pl	6	Х	Х							Х

Stop ID	Route Number	Meets Standards?*	Stop Location	Boardings	Sign and Pole	Route Designation	Accesible	Bench	Expanded Sidewalk	Shelter	Time Table	Trash Container	Lighting
60784	964	No	Gold Coast Dr/Londonderry Av	3	Х	Х							
60785	964	No	Gold Coast Dr/Westchester Av	2	Х	Х							
60786	964	Yes	Camino Ruiz/Capricorn Wy	13	Х	Х	Х	Х	Х		Х		
60844	964	Yes	Capricorn Way/Camino Ruiz	8	X	Х	Х		Х				
90051	20	Yes	Mira Mesa Marketcenter	30	Х	Х	Х	Х	Х		Х		
98500	972	No	Barnes Canyon Rd/Lusk Blvd (After Turn Before Dr	3			x						
98502	972	No	Pacific Mesa Bl/Sorrento View Business Park (@ F	3			x						
98503	972	No	Pacific Center Ct/Pacific Center BI (10309 @ Ele	2			х						x
98504	972	No	Pacific Center Ct/10450 (In Front Of Time Warner	11			х						
98505	972	No	Pacific Center Bl/Pacific Heights Bl	6									
98506	972	No	Pacific Center Bl/Mckellar Ct	1			Х						
98507	972	No	Lusk Bl/Vista Sorrento Pkwy (@10525 Before Dvwy)	0			x						
98508	972	No	Lusk BI/Wateridge Cir (After Intersection)	0			x						
98509	972	No	Lusk Bl/Telesis Ct (After Intersection)	0			x						
98510	972	No	Lusk Bl/Pacific Ctr Bl (@ Fire Hydrant Across Fr	0			x						
98511	972	No	Morehouse Dr/5590 (Pro-Sat & Comm Driveway)	0			x						
98512	972	No	Morehouse Dr/5510 (Fs Morehouse Tech Ctr Drvwy)	0									
98513	972	No	Barnes Canyon Rd/10225 (@ Mailboxes)	1			x						

Stop ID	Route Number	Meets Standards?*	Stop Location	Boardings	Sign and Pole	Route Designation	Accesible	Bench	Expanded Sidewalk	Shelter	Time Table	Trash Container	Lighting
98514	972	No	Lusk Bl/6455 (@ Qualcomm Design Ctr)	1									x
98515	972	No	Lusk Bl/Telesis Ct	13									
98517	973	No	Pacific Heights Bl/Mira Mesa Bl	9			Х	Х					Х
98522	973	No	Oberlin Dr/5871 (@ Mailboxes)	10			Х						
98525	973	No	6310 Nancy Ridge Dr (Nancy Ridge Tech Pk/6349)	5			x						
98526	973	No	6650 Nancy Ridge Dr/6767 (@ Fire Hydrant After D	0			х						
98527	973	No	Phage Biotechnology	0			Х						
98549	972	No	5910 Pacific Center Bl	2			Х						
98550	972	No	5788 Pacific Center Bl	4			Х						
98551	973	No	Pacific Heights Bl/Cornerstone Ct	1			х						
98552	973	No	Brown Deer Rd/Ferris Sq	1			Х						
98553	973	No	9215 Brown Deer Rd	3			Х						
98554	973	No	9339 Carroll Park Dr	1			Х						
98555	973	No	9449 Carroll Park Dr	5			Х						
98556	973	No	Nancy Ridge Dr/Carrol Rd (Carroll Ridge Bus Pk)	5									
98557	973	No	5960 Nancy Ridge Dr (Sorrento Vista Indu	5									
98558	973	No	5280 Carroll Canyon Rd	0			Х						
98559	973	No	Youngstown Wy/Oberlin Dr	3			Х						
98560	973	No	5807 Oberlin Dr	1			Х						
99036	110	Yes	Camino Santa Fe/Flanders Dr	0	Х	Х	Х	Х					Х
99041	31	Yes	Miramar Rd/Camino Ruiz	5	Х	Х	Х	Х	Х				Х

Stop ID	Route Number	Meets Standards?*	Stop Location	Boardings	Sign and Pole	Route Designation	Accesible	Bench	Expanded Sidewalk	Shelter	Time Table	Trash Container	Lighting
99042	31	No	Miramar Rd/Black Mountain Rd	24	X	Х							
99061	921	No	Pacific Heights Bl/Mira Mesa Bl	4			Х						
99156	31	Yes	Miramar Rd/Clayton Dr	3	X	x	Х						
99157	31	No	Miramar Rd/Empire St	1									
99202	237	Yes	Mira Mesa Bl/Lusk Bl	8	Х	X	Х	Х	Х		Х		
99266	964	Yes	Camino Ruiz/Calle Morelos	0	Х	Х	Х						
99267	964	No	Camino Ruiz/Calle Morelos	5	X	X							
99268	964	Yes	Zapata Av/Camino Ruiz	7	X	X	Х						Х
99270	921	No	Barnes Canyon Rd/Pacific Heights Bl	25	x	х		Х					
99271	921, 972	No	Barnes Canyon Rd/Pacific Heights Bl	43	x	х		Х					
99382	110	Yes	Camino Santa Fe/Mira Mesa Bl	1	X	X	Х						
99394	20, 964	Yes	Westview Pkwy/Mira Mesa MarketCenter	25	x	x	x	Х	x				

Legend:

Х	Meets minimum standard
	Does not meet minimum standard
Х	Amenity exceed minimum standard
	Amenity not required per minimum standard
	Stanuaru

4.3.4 QUALITY CONNECTIONS TO TRANSIT

To access the transit system, passengers in the community must walk or bike to a transit stop. High-stress and missing connections in the bicycle and pedestrian networks limit the areas accessible by transit and depresses ridership. First-mile and last-mile connections in the community were assessed by considering the connectivity of bicycle and pedestrian facilities in the areas around major transit stops.

The quality connections assessment draws from the quality walking analysis and quality bicycle analysis results from **Section 4.1.4** and **Section 4.2.3** to identify quality ¼-mile pedestrian and ¾-mile bicycle networks surrounding major transit stations. These travelshed distances were obtained from *San Diego Forward: The Regional Plan, Appendix U4 – SANDAG Regional Transit Oriented Development Strategy,* and represent a five-minute travel distance for pedestrians and cyclists.

A major transit station is defined in part as "the intersection of two or more major bus routes each having a frequency of service of 15 minutes or less during the morning and afternoon peak commute periods." The Mira Mesa community has one location that meets this criteria at the Miramar College Transit Station. The existing Quality Walk and Bicycle Ratios are presented in **Table 4-24** and illustrated in **Figure 4-28** and **Figure 4-29**. The total acres represents the acres within the crow flies buffer for walk and bicycle. The quality acres represents the total acres within the quality walkshed and quality bikeshed.

The Miramar College Transit Station has quality connections from the adjacent Miramar College and medium-quality environment on the adjacent public roads. Overall, it is considered well connected with an existing Quality Walk Ratio of 44 percent. The existing Quality Bicycle Ratio is zero percent. This is due to the fact that the existing LTS along all four legs of the intersection of Hillery Drive and Westview Parkway have high levels of stress for bicyclists of LTS 3 or 4. The high stress is primarily due to vehicle speeds and width of these roadways.

For the Sorrento Valley Station, the Quality Walk Ratio and Quality Bicycle Ratio were not calculated because the station as well as connections to the station are outside of the community boundary. However, the facilities surrounding the station are low pedestrian quality facilities and high stress bike facilities making connectivity to the Sorrento Valley Station from the Mira Mesa community poor.

Major Transit Stop	Mode of Access	Quality Acres	Total Acres	Quality Ratio
Miramar College	Walk	55.5	125.6	44%
winamar College	Bicycle	0	1,884	0%

Table 4-24 Summary of Quality Travel Ratios from Major Transit Stop



Existing Quality Walk Ratio from Major Transit Stations



Existing Quality Bicycle Ratio from Major Transit Stations

4.4 VEHICULAR SYSTEM

Maintaining efficient vehicular operations is vital to the economy. Local roadways and the regional freeway system provide an interconnected network used to move people and goods throughout the region.

Mira Mesa is readily accessible by freeway as it is bounded by I-15 and I-805 on the east and west of the community. Major roadways provide direct access to neighboring communities. However, Penasquitos Canyon on the north limits access between Mira Mesa and Rancho Penasquitos community, and MCAS Miramar, located on the southern border of the community limits access to southern communities.

This section describes the existing roadway network within the Mira Mesa community using the following evaluations:

Demand	Using existing peak hour intersection information and daily roadway volume information
Safety	Using vehicle collision data for the past five years
Quality	 Using roadway level of service based on volume-to-capacity ratio Using roadway travel time level of service based on speed Using intersection level of service based on delay Using freeway level of service based on density Using freeway ramp capacity based on volumes and queues
Connectivity	Using vehicle miles travelled

It also describes the layout and operations of the roadway system, including the results of existing conditions analyses at the study area intersections, roadway segments, corridors and freeways. **Figure 4-30** presents a summary of the existing roadway classifications for the study area roadways within the Mira Mesa community, and **Table 4-25** provides a description of the existing roadway characteristics within the community.



Existing Roadway Segment Classifications

Road Segment	General Direction	From	То	Width (ft)	# of Lanes	Barrier Type	Shoulders?	Bike Lanes /Routes?	Parking?
Vista Sorrento	NB/SB	Sorrento Valley Blvd (N. Community Limit)	Lusk Blvd	55-65	4	Undivided	N	Y	Ν
	NB/SB	Lusk Blvd	Mira Sorrento PI	55-75	3	Divided	N	Y	N
Parkway	NB/SB	Mira Sorrento Pl	Mira Mesa Blvd	95	4	Divided	N	Y	Ν
Sorrento Valley Blvd	NB/SB	West of Western Community Limit	I-805	68	4	Undivided	N	Y	Ν
valley bivu	EB/WB	I-805	Camino Santa Fe	67-87	4	Divided	N	Y	N
	EB/WB	Vista Sorrento Pkwy	Pacific Center Blvd	78	4	Divided	N	Y	N
Lusk Blvd	EB/WB NB/SB	Pacific Center Blvd	Barnes Canyon Rd	63	4	Divided	N	Y	Ν
	NB/SB	Barnes Canyon Rd	Mira Mesa Blvd	68-78	4	Divided	N	Y	Ν
Mira Sorrento Pl	EB/WB	Vista Sorrento Pkwy	Scranton Rd	71	4	Divided	N	Y	Ν
Quantan	NB/SB	Barnes Canyon Rd	Mira Sorrento Pl	44	2	Undivided	N	N	Y
Scranton Rd	NB/SB	Mira Sorrento PI	Mira Mesa Blvd	55-80	3-5	Divided	N	Y	Ν
Ru	NB/SB	Mira Mesa Blvd	Carroll Canyon Rd	78	4	Divided	N	N	N
Barnes	EB/WB	Scranton Rd	Lusk Blvd	43	2	Undivided	Y	N	Y
Canyon Rd	EB/WB	Lusk Blvd	Pacific Heights Blvd	84	4	Divided	N	N	Y
Pacific Center Blvd	NB/SB EB/WB	Lusk Blvd	Pacific Heights Blvd	77-82	4	Divided	N	Ν	Y
Center Biva	EB/WB	Pacific Heights Blvd	Pacific Mesa Blvd	77-80	4	Divided	N	N	Y
Pacific	NB/SB	Pacific Center Blvd	Barnes Canyon Rd	77-87	4	Divided	N	N	Y
Heights	NB/SB	Barnes Canyon Rd	Mira Mesa Blvd	87-109	4	Divided	N	N	Y
Blvd	NB/SB	Mira Mesa Blvd	Carroll Canyon Rd	73-87	4	Divided	N	N	Y
Pacific Mesa Blvd	NB/SB	Pacific Heights Blvd	Pacific Center Blvd	77-80	4	Divided	N	Ν	Y
Calle	EB/WB	Camino Santa Fe	Acama Ct	77-86	4	Divided	N	Y	Ν
Cristobal	EB/WB	Acama Ct	Camino Ruiz	77	4	Divided	N	Y	Ν
Mira Mesa	EB/WB	I-805	Scranton Rd	93-140	7	Divided	N	Y	Ν
Blvd	EB/WB	Scranton Rd	Lusk Blvd	102	6	Divided	N	Y	Ν

Table 4-25 Existing Roadway Segment Characteristics

Road Segment	General Direction	From	То	Width (ft)	# of Lanes	Barrier Type	Shoulders?	Bike Lanes /Routes?	Parking?
	EB/WB	Lusk Blvd	Pacific Heights Blvd	102	6	Divided	N	Y	N
	EB/WB	Pacific Heights Blvd	Flanders Dr	102	6	Divided	N	Y	N
	EB/WB	Flanders Dr	Camino Santa Fe	101	6	Divided	N	Y	N
	EB/WB	Camino Santa Fe	Parkdale Ave	82-101	6	Divided	N	Y	N
	EB/WB	Parkdale Ave	Reagan Rd	82	6	Divided	N	Y	N
	EB/WB	Reagan Rd	Camino Ruiz	105	6	Divided	N	Y	N
	EB/WB	Camino Ruiz	New Salem St/Marauder Wy	106	6	Divided	N	Y	Ν
	EB/WB	New Salem St/Marauder Wy	Westonhill Dr	94	6	Divided	N	Y	Ν
	EB/WB	Westonhill Dr	Greenford Dr	82	6	Divided	N	Y	N
	EB/WB	Greenford Dr	Black Mountain Rd	93-105	6	Divided	N	Y	N
	EB/WB	Black Mountain Rd	Westview Pkwy	108-152	6	Divided	N	N	N
	EB/WB	Westview Pkwy	I-15	110-152	7	Divided	Y	N	N
	EB/WB	I-15	East of Eastern Community Limit	105	6	Divided	N	N	Ν
	EB/WB	Sorrento Valley Rd/Mira Mesa Blvd	Scranton Rd	73-85	4	Divided/ Undivided	N	Y	N
	EB/WB	Scranton Rd	Nancy Ridge Dr (W)	63	4	Divided	N	Y	N
	EB/WB	Nancy Ridge Dr (W)	Pacific Heights Blvd	63	2	Divided	N	Y	N
	-	Pacific Heights Blvd	Camino Santa Fe	Does Not Exist					
Carroll	-	Camino Santa Fe	Juniper Creek Ln			Does	s Not Exist		
Canyon Rd	EB/WB	Juniper Creek Ln	Camino Ruiz	101-115	4	Divided	N	Y	N
	-	Camino Ruiz	Black Mountain Rd			Does	s Not Exist		
	EB/WB	Black Mountain Rd	Maya Linda Rd	67	4	Divided	N	N	Y
	EB/WB	Maya Linda Rd	I-15	67-84	4	Divided	N	Y	N
	EB/WB	I-15	East of Eastern Community Limit	67	4	Divided	Ν	Y	Ν
	EB/WB	Pacific Heights Blvd	Nancy Ridge Dr (E)	50-65	2-3	Divided	N	Y	Ν
Carroll Rd	EB/WB	Nancy Ridge Dr (E)	Camino Santa Fe	50	2	Divided	N	Y	N
	EB/WB	Camino Santa Fe	Miramar Rd	50-63	2-3	Undivided / Divided	N	Y	Ν

Road Segment	General Direction	From	То	Width (ft)	# of Lanes	Barrier Type	Shoulders?	Bike Lanes /Routes?	Parking?
Nancy Ridge Dr	NB/SB EB/WB	Carroll Canyon Rd	Carroll Rd	43	2	Undivided	Ν	Ν	Y
	EB/WB	West of Western Community Limit		105	6	Divided	N	Y	N
	EB/WB	Western Community Limit	Camino Santa Fe	102	6	Divided	N	Y	Ν
	EB/WB	Camino Santa Fe	Production Ave	102-108	6	Divided	N	Y	N
	EB/WB	Production Ave	Distribution Ave	102	6	Divided	N	Y	N
Miromor Dd	EB/WB	Distribution Ave	Carroll Rd	102	6	Divided	N	Y	N
Miramar Rd	EB/WB	Carroll Rd	Camino Ruiz	102	6	Divided	N	Y	N
	EB/WB	Camino Ruiz	Black Mountain Rd	102	6	Divided	N	Y	N
	EB/WB	Black Mountain Rd	Kearny Villa Rd	102	6	Divided	N	Y	N
	EB/WB	Kearny Villa Rd	I-15	95-110	5-6	Divided	Y	Y	N
	EB/WB	I-15	East of Eastern Community Limit	53-78	4	Undivided / Divided	N	Y	Ν
	EB/WB	Mira Mesa Blvd	Camino Santa Fe	63	4	Undivided	N	Y	N
	EB/WB	Camino Santa Fe	Caminito Alvarez	67	4	Divided	N	Y	N
Flanders Dr	EB/WB	Caminito Alvarez	Parkdale Ave	40-50	2	Undivided	N	Y	Y
Flanders Dr	EB/WB	Parkdale Ave	Camino Ruiz	40	2	Undivided	N	N	Y
	EB/WB	Camino Ruiz	Westonhill Dr	40	2	Undivided	N	N	Y
	EB/WB	Westonhill Dr	Greenford Dr	40	2	Undivided	N	N	Y
	NB/SB	Sorrento Valley Blvd/Calle Cristobal	Top Gun St	77	4	Divided	N	Y	Ν
	NB/SB	Top Gun St	Mira Mesa Blvd	77-101	4	Divided	N	Y	N
Camino	NB/SB	Mira Mesa Blvd	Flanders Dr	101	6	Divided	N	Y	N
Santa Fe	NB/SB	Flanders Dr	Carroll Canyon Rd	101-112	6	Divided	N	Y	N
	NB/SB	Carroll Canyon Rd	Carroll Rd	82-106	4	Divided	N	Y	N
	NB/SB	Carroll Rd	Spectrum Ln	81	4	Divided	N	N	Y
	NB/SB	Spectrum Ln	Miramar Rd	101	6	Divided	N	N	Y
Parkdale	NB/SB	Mira Mesa Blvd	Flanders Dr	40-62	2	Undivided	N	N	Y
Ave	NB/SB	Flanders Dr	Osgood Wy	39	2	Undivided	N	N	Y
Production Ave	NB/SB	Carroll Rd	Miramar Rd	49	2	Divided	Ν	N	Y

Road Segment	General Direction	From	То	Width (ft)	# of Lanes	Barrier Type	Shoulders?	Bike Lanes /Routes?	Parking?
Distribution Ave	NB/SB	Carroll Rd	Miramar Rd	49	2	Undivided	Ν	N	Y
Montongo	NB/SB	Acama St	Westmore Rd	39	2	Undivided	N	N	Y
St	NB/SB	Westmore Rd	Mira Mesa Blvd	39-63	2	Undivided	N	N	Y
	NB/SB	Calle Cristobal	Aquarius Dr	82-106	4	Divided	N	Y	N
	NB/SB	Aquarius Dr	Teresa Dr/Capricorn Wy	81	4	Divided	Ν	Y	Y (SB Only)
	NB/SB	Teresa Dr/Capricorn Wy	Westmore Rd	81	4	Divided	N	Y	Y
	NB/SB	Westmore Rd	Mira Mesa Blvd	82-106	4-5	Divided	N	Y	Y
Camino Ruiz	NB/SB	Mira Mesa Blvd	Reagan/Marauder Wy	93	4	Divided	Ν	Y	Y (SB Only)
	NB/SB	Reagan Rd/Marauder Wy	Flanders Dr	81	4	Divided	N	Y	N
	NB/SB	Flanders Dr	Gold Coast Dr	81	4	Divided	Ν	Y	N
	NB/SB	Gold Coast Dr	Carroll Canyon Rd	53-82	4	Divided	N	Y	Y
	NB/SB	Carroll Canyon Rd	Activity Rd	78-110	4	Divided	Y	Y	Y
	NB/SB	Activity Rd	Miramar Rd	78	5	Divided	N	Y	Y
Westmore	EB/WB	Montongo St	Camino Ruiz	39-63	2	Undivided	N	N	Y
Rd	EB/WB	Camino Ruiz	Westonhill Dr	39-63	2	Undivided	N	N	Y
Reagan Rd	NB/SB EB/WB	Mira Mesa Blvd	Camino Ruiz	39-63	2	Undivided	Ν	N	Y
Marauder Wy	NB/SB EB/WB	Camino Ruiz	Mira Mesa Blvd	39-63	2	Undivided	Ν	N	Y
	EB/WB	Parkdale Ave	Camino Ruiz	39-63	2	Undivided	N	Y	Y
Gold Coast	EB/WB	Camino Ruiz	Westonhill Dr	39-63	2	Undivided	N	Y	Y
Dr	EB/WB	Westonhill Dr	Black Mountain Rd	39-44	2	Undivided	N	Y	Y
	EB/WB	Black Mountain Rd	Maya Linda Rd	39-44	2	Undivided	N	Y	Y
	NB/SB	Menkar Rd	Aquarius Dr	39	2	Undivided	Ν	N	Y
	NB/SB	Aquarius Dr	Capricorn Wy	39	2	Undivided	Ν	N	Y
Westonhill	NB/SB	Capricorn Wy	Libra Dr	39	2	Undivided	Ν	N	Y
Dr	NB/SB	Libra Dr	Westmore Rd	39	2	Undivided	Ν	N	Y
	NB/SB	Westmore Rd	Mira Mesa Blvd	51-71	2-3	Undivided	Ν	N	Y
	NB/SB	Mira Mesa Blvd	Flanders Dr	39	2	Undivided	N	N	Y

Road Segment	General Direction	From	То	Width (ft)	# of Lanes	Barrier Type	Shoulders?	Bike Lanes /Routes?	Parking?
	NB/SB	Flanders Dr	Gold Coast Dr	39	2	Undivided	N	N	Y
	NB/SB	Gold Coast Dr	Jade Coast Dr	39	2	Undivided	N	N	Y
Aquarius	EB/WB	Camino Ruiz	Westonhill Dr	39	2	Undivided	N	N	Y
Dr	EB/WB	Westonhill Dr	Bootes Dt	39	2	Undivided	N	N	Y
	EB/WB	Camino Ruiz	Westonhill Dr	39-63	2	Undivided	N	N	Y
Capricorn	EB/WB	Westonhill Dr	Bootes St	39	2	Undivided	N	N	Y
Wy	EB/WB	Bootes St	Black Mountain Rd	36-71	2	Undivided	N	N	Y
	EB/WB	Black Mountain Rd	Westview Pkwy	71	2	Divided	N	N	Y
Bootes St	NB/SB	Aquarius Dr	Capricorn Wy	39	2	Undivided	N	N	Y
Libra Dr	EB/WB	Westonhill Dr	Hyades Wy	39	2	Undivided	N	N	Y
Greenford	NB/SB	Mira Mesa Blvd	Hillery Dr	39	2	Undivided	N	N	Y
Dr	NB/SB	Hillery Dr	Flanders Dr	39	2	Undivided	N	N	Y
	NB/SB	North of Northern Community Limit		84	4	Divided	N	Y	N
	NB/SB	Northern Community Limit	Westview Pkwy	102	6	Divided	N	Y	Ν
	NB/SB	Westview Pkwy	Capricorn Wy	102	6	Divided	N	Y	N
	NB/SB	Capricorn Wy	Galvin Ave	102	6	Divided	N	Y	N
	NB/SB	Galvin Ave	Gemini Ave	81	4	Divided	N	Y	N
	NB/SB	Gemini Ave	Mira Mesa Blvd	88	4	Divided	N	Y	N
Black	NB/SB	Mira Mesa Blvd	Hillery Dr	81	4	Divided	N	Y	N
Mountain Rd	NB/SB	Hillery Dr	Gold Coast Dr	78	4	Divided	N	Y	Y (SB Only)
i tu	NB/SB	Gold Coast Dr	Carroll Canyon Rd	77	4	Divided	N	Y	Y (NB Only)
	NB/SB	Carroll Canyon Rd	Maya Linda Rd	78	4	Divided	N	Y	Y
	NB/SB	Maya Linda Rd	Black Mountain Rd/Carroll Centre Rd	88	5	Divided	N	Y	N
	EB/WB NB/SB	Black Mountain Rd/Kearny Villa Rd	Activity Rd	77	4	Divided	N	N	Y (SB Only)
	NB/SB	Activity Rd	Miramar Rd	77	4	Divided	N	N	Y
Kearny Villa Rd	NB/SB	Black Mountain Rd/Carroll Centre Rd	Miramar Rd	77	4	Divided	N	Y	Y (NB Only)

Road Segment	General Direction	From	То	Width (ft)	# of Lanes	Barrier Type	Shoulders?	Bike Lanes /Routes?	Parking?
	NB/SB	Miramar Rd	South of Southern Community Limit	81	4	Divided	Ν	Y	Ν
Gemini Ave	EB/WB	Hyades Wy	Black Mountain Rd	39-63	3	Divided	N	N	Y
Hillon Dr	EB/WB	Greenford Dr	Black Mountain Rd	39	2	Undivided	N	N	Y
Hillery Dr	EB/WB	Black Mountain Rd	Westview Pkwy	71	3-4	Divided	N	Y	N
Activity Rd	EB/WB	Camino Ruiz	Black Mountain Rd	43-49	2	Divided	N	N	Y
	EB/WB	Black Mountain Rd	I-15	77-109	4	Divided	N	Y	N
Mercy Rd	EB/WB	I-15	East of Eastern Community Limit	102	4	Divided	N	Y	Ν
	EB/WB NB/SB	Black Mountain Rd	Capricorn Wy	71	4	Divided	Ν	Ν	Y
Westview	NB/SB	Capricorn Wy	Galvin Ave	71	4	Divided	N	Ν	Y
Pkwy	NB/SB	Galvin Ave	Mira Mesa Blvd	83	4	Divided	N	N	Y
	NB/SB	Mira Mesa Blvd	Hillery Dr	77-85	4	Divided	N	Y	N
Galvin Ave	EB/WB	Black Mountain Rd	Westview Pkwy	63-71	4	Divided	Ν	Ν	Y (WB Only)
Maya Linda Rd	NB/SB EB/WB	Carroll Canyon Rd	Black Mountain Rd	39	2	Undivided	Ν	Ν	Y

4.4.1 VEHICLE DEMAND

Average daily traffic counts along roadway segments, and AM and PM peak hour turning movement counts were collected in October and November 2018. All counts were taken on a Tuesday through Thursday on non-holiday weeks. These counts reflect typical weekday conditions when schools were in session. **Figure 4-31** presents the daily roadway segment volumes. **Figure 4-32** presents the existing intersection lane configuration for all study intersections that were used in the intersection analysis. **Figure 4-33** presents the AM and PM peak-hour traffic volumes, while **Figure 4-34** and **Figure 4-35** show the peak hour times that were identified for each intersection during the AM and PM peak periods, respectively. The existing traffic volume data is contained in **Appendix E**.



Existing Daily Roadway Segment Volumes

FIGURE 4-32 A



Existing Intersection Lane Configurations

FIGURE 4-32 B



Existing Intersection Lane Configurations

FIGURE 4-32 C

41 Viramar Road Miramar Road	42 avid motion with the state of the state	43 unit unit with the second s	44 real and real and				
45 O J Miramar Road Miramar Road	46 Several and several and se	47 u type u	48				
49 (1) Carroll Canyon Road (1) (2) (2) (2) (2) (2) (2) (2) (2	50 	51 Setting and the set of the se	52 onneros tasta dura Mesa Bontevard dura Mesa Bontevard dura Mesa Bontevard				
53 ourses and the second secon	54 Bacilic Center Bacilic Center	55 B Carroll Canyon Road	56 study prevention study of the state of				
57 Barnes Canyon Road	58 State of the second	59 Se president of the second	60 Solution So				
Intersection Control Bicycle Facilities Transit Facilities Intersection Control Bicycle Facilities Transit Facilities Image: Signalized Intersection Image: Through Buffered Bicycle Lane ('Bicycle Pocket') Image: Bus Only Movement Image: Signalized Intersection Image: Through Bicycle Lane ('Bicycle Pocket') Image: Bus Only Movement Image: Signalized Intersection Image: Through Bicycle Lane ('Bicycle Pocket') Image: Bus Only Movement Image: Signalized Intersection Image: Through Bicycle Lane ('Bicycle Pocket') Image: Bus Only Movement Image: Signalized Intersection Image: Through Bicycle Lane ('Bicycle Pocket') Image: Bus Only Movement Image: Signalized Intersection Image: Through Bicycle Lane Merge Image: Signalized Intersection Image: One Right-Turn Overlap Image: Signalized Lane Marking ('Sharrow') Image: Signalized Lane Marking ('Sharrow') Image: Defacto Right-Turn Lane Image: Signalized Lane Marking Lane Image: Signalized Lane							

Existing Intersection Lane Configurations

FIGURE 4-32 D



Existing Intersection Lane Configurations

FIGURE 4-32 E



Existing Intersection Lane Configurations
FIGURE 4-33 A

1 0 t 0 t 0 t 0 t 0 t 0 t 0 t 0 t 0 t 0		2		3		4	
 5 162 /103 ⇔ 724 /84 ≥ 275 /498 Vista Sorrento Pkwy 	 № 319 / 266 ⇔ 779 / 237 2 252 / 31 Sorento Valley Blvd 	Sorento Valley Bivd	 ⇔ 1070 / 141 ☆ 574 / 78 Calle Cristobal 	6 /6 ⇔ 13 /15 Camino Ruiz	2 3 / 2 Calle Cristobal	 > 16 / 30 2 150 / 110 A Hemania Rd 	 № 114 / 133 ⇔ 661 / 954 ∠ 4 / 5 Mercy Rd
62 / 129	112 /438 ⊘ 91 /827 ⇔ 120 /421 ⊗	86 / 1253 ⇔ Santa ⇔ Santa S Canal S Santa S S S S S S S S S S S S S S S S S S S	243 /244 % 52 /694 %	4/3	1060 /294 % 17 /33 0 2 /3 %	45 / 37	3 /4 &
 5 161 /321 ⇔ 2 /3 ∞ 427 /702 ⊢15 SB Ramps 	 ⇔ 641 / 798 ≥ 944 / 1044 Mercy Rd 	6 H15 NB Ramps	∾ 607 / 775 ⇔ 1419 / 1592 Mercy Rd	 8 4 / 18 8 2078 / 1263 9 2078 / 1263 16 / 11 Black Mountain Rd 	rs 48 / 20 Babauta Rd	8 002/62 002/861 ↔ 002/861 ↔ 1308/3008 train 002/861 ↔ 14805 NB Ramps	 № 49 / 105 ⇔ 46 / 552 ∞ 20 / 137 Mira Sorrento PI
653 / 763 ⇔ 454 / 148 ∾		307 / 321 869 / 1146 ⇒	111 /263 ⊘ 2 /16 ⊕ 1352 /734 ⊗	15/6 😒	931 /1983 ⇔ 10 /23 ⊗	557 / 227	400 /764 % 194 /118 ⊕ 159 /15 %
© 124 / 344 ⇔ 57 / 143 ∞ 51 / 104 Scranton Rd	s 144 / 104 ⇔ 992 / 1315 ⊵ 54 / 110 Mira Mesa Blvd	5 51 / 225 ⇔ 9 / 111 ∞ 53 / 455 Lusk Blvd	∿ 393 / 69 ⇔ 1139 / 1200 ⊉ 96 / 39 Mira Mesa Blvd	 5 66 /316 4 35 /243 4 35 /243 6 36 /988 Pacific Heights Btvd 	 5 922 / 171 ⇔ 1565 / 909 ≥ 309 / 105 Mira Mesa Blvd 	236 /277 ⇔ 15 /8 ∞ 12 /66 Sequence Dr	 № 118 / 10 ⇔ 2647 / 790 ∞ 127 / 20 Mira Mesa Blvd
684 / 168	57 /310 2 68 /67 4 24 /34 2	208/64 ⊘ 2119/1152 ⇔ Ła 31/6 ∿ ⊑ 8	6 /20	456 / 112	33 /124	340 / 219	57 / 236 2 6 / 17 4 14 / 90 2
5 50 / 74 ⇔ 16 / 2 € 29 / 90 Genetic center Dr	s 122 / 36 ⇔ 2844 / 669 ≥ 226 / 21 Mira Mesa Blvd	№ 42/45 № 0 17/57 0 128 0 18/128 Flanders Dr	 ⊾ 131 / 37 ⇔ 2825 / 498 ☆ 83 / 30 Mira Mesa Blvd 	22 22 22 22 22 22 13/22 13/22 13/22 Viper Way	 5 65 / 27 ⇔ 2860 / 470 ☆ 47 / 57 Mira Mesa Blvd 	© 116/35 ⇔ 293/186 © 114/384 Camino Santa Fe	∾ 305 / 149 ⇔ 2831 / 491 ∞ 585 / 156 Mira Mesa Blvd
71 / 37	10 / 15 % 4 / 15 % 28 / 205 %	49 / 72	334 / 181 & 44 / 29 & 47 / 154 &	24 / 37	147 / 89 & 25 / 28 や 50 / 122 ☆	22 / 59	42 / 43 ⊘ 105 / 318 ⇔ 66 / 509 ⊵
8 103 / 14 8 103 / 14 8 8 / 0 8 78 / 51 Schilling Ave	is 27 / 55 ⇔ 3533 / 757 ∞ 21 / 43 Mira Mesa Blvd	8 43 / 11 ⇔ 16 / 4 ∞ 119 / 54 Aderman Ave	∾ 32 / 46 ⇔ 3520 / 841 ஜ 22 / 40 Mira Mesa Blvd	5 199 / 56 ⇔ 69 / 55 ∞ 72 / 26 Parkdate Ave	∾ 35 / 96 ⇔ 3277 / 865 ∞ 35 / 89 Mira Mesa Blvd	254 / 79 ⇔ 120 / 127 ⊭ 73 / 51 Reagan Rd	 № 23 / 86 ⇔ 2908 / 871 ∞ 21 / 39 Mira Mesa Blvd
20 / 123 ⊘ 465 / 3227 ⇔ 05 / 7 7 / 39 ⊗ 1/2 NAgree	45/17 22/21 45 2/21 45 50/75 22	10/30 ⊘ 596/3278 ⇔ 2/24 ∿	14/11 ~ 6/9 ⁴) 37/42 2	48 / 139 ⊘ 660 / 2929 ⇔ 50 / 280 ∿	96 / 42 20 / 94 50 23 / 80 20 20 20 20 20 20 20 20 20 20 20 20 20	49 / 186	156 / 137 2 58 / 158 5 20 / 21 2
5 28 / 32 ⇔ 6 / 46 ∞ 17 / 98 Mira Moss Mall Dwy	 № 26 / 101 ⇔ 2941 / 853 № 27 / 130 Mira Mesa Blvd 	22 174 / 73 ⇔ 452 / 469 ∞ 366 / 332 Camino Ruiz	 № 110 / 224 ⇔ 2559 / 963 ∞ 136 / 213 Mira Mesa Blvd 	™ 33 / 33 ™<	 5 103 / 176 ⇔ 2483 / 1302 ∞ 125 / 58 Mira Mesa Blvd 	54 112 / 60 ⇔ 103 / 129 ∞ 277 / 91 westonhill Dr	 S 38 / 112 ⇔ 2775 / 1383 ☆ 18 / 43 Mira Mesa Blvd
26 / 135 ⊅ 639 / 2087 ⇔ 31 / 108 ₪	24 / 64 2 8 / 77 5 13 / 136 2	82 / 213	89 / 133 2 255 / 576 4 192 / 152 2	54 / 26 ⊘ Ar 1125 / 2296 ⇔ X 66 / 167 ≌ Parater W	121 / 106 2 95 / 96 4 86 / 40 2	28 / 108	73 / 66 2 81 / 155 4 36 / 15 2

FIGURE 4-33 B

22 37 /36 ⊕ 38 /11 6reenford Dr	 № 34 / 62 ⇔ 2604 / 1450 ≥ 27 / 52 Mira Mesa Blvd 	28 28 /21 /19 ≥ 28 /21 /30 westmore Rd	 ∞ 72 / 84 ⇔ 2784 / 1432 ≥ 85 / 129 Mira Mesa Blvd 	© 504 / 305 © 504 / 305 © 505 / 358 Black Mountain Rd	 № 108 / 232 ⇔ 2210 / 1272 ≥ 128 / 154 Mira Mesa Blvd 	82 362 /236 362 /236 818 /579 Westview Pkwy	 № 294 / 633 ⇔ 2291 / 1444 ≈ 569 / 411 Mira Mesa Blvd
6 / 16	75 /97 23 50 /68 45 118 /33 23	17 / 10 1684 / 2279 ⇔ 21 / 37 ⊗ Vingrew	14 / 38 2 25 / 46 5 69 / 173 2	210 / 414	190 /177 & 232 /617 & 4	105 / 172	64 / 224 2 122 / 319 5 318 / 518 2
6 1411 /1247 6 283 /388 1-1588 Ramps	ড 858 / 374 ⇔ 1849 / 1420 Mira Mesa Blvd	30 Sdm BN S1-1	∾ 290 / 547 ⇔ 1695 / 1027 Mira Mesa Blvd	⇔ 1610 /796 ⇔ 1610 /796 ⊗ 492 /267 Black Mountain Rd	© 229 / 412 ⇔ 0 / 2 ≥ 419 / 493 Mercy Rd	25 5 691 / 906 ⇔ 2 / 3 2 3 / 93 2 53 / 93 Camino Santa Fe	∾ 98 / 68 ⇔ 2278 / 1343 ∞ 15 / 2 Miramar Rd
1408 / 2192 ⇔ 1589 / 838 ∿		826 / 1374 ⇔ 874 / 1186 ∿	1009 /781	1/0 ⊅ 0/3 ⇔ 0/1 №	2 /2 ∞ 528 /1375 ⇔ 477 /593 ∞	626 / 746	15/47 2 7/31 4 8/7 2
5 50 / 89 ⇔ 15 / 5 ∞ 24 / 82 Commerce Ave	 ⊾ 116 / 47 ⇔ 2357 / 1219 ∞ 72 / 19 Miramar Rd 	 5 68 / 80 63 / 52 β 33 / 52 Production Ave 	∾ 107 / 30 ⇔ 2524 / 1224 Miramar Rd	22 75 / 106 28 75 / 106 29 36 / 81 Distribution Ave	∾ 93 / 76 ⇔ 2571 / 1157 Miramar Rd	 9 19 / 10 24 / 47 Miramar Way 	∾ 38/37 ⇔ 2643/1136 ஜ 0/5 Miramar Rd
80 / 81	76 /50 2 16 /10 4 41 /49 2	71 / 39		52 / 79		31/33 ⊘ 931/1997 ⇔ 3/74 ∿	0 /52 2
 8 108 / 165 8 140 / 487 Carroll Rd 	∾ 606 / 130 ⇔ 2573 / 1007 Miramar Rd	8 8 / 24 / 24	∾ 27 / 17 ⇔ 3274 / 1078 Miramar Rd	8 114/119 8 107/187 Dowdy Dr	∾ 328 / 55 ⇔ 3229 / 955 Miramar Rd	89 / 68 80 / 126 Cabot Dr	∾ 139 / 100 ⇔ 3465 / 979 Miramar Rd
161 / 85		16 / 10 ⊅ 893 / 2379 ⇔		95 / 99		55 / 115 ⊅ 836 / 2393 ⇔	
 b 541 / 135 c 633 / 441 c 633 / 441 	is 219 / 769 ⇔ 3099 / 1030 Miramar Rd	60/21 60/21 8/1/41 8/179 Clayton Dr	 № 24 / 38 ⇔ 3132 / 1479 ≥ 233 / 106 Miramar Rd 	8 244 / 156 8 117 / 447 8 Black Mountain Rd	∾ 195 / 155 ⇔ 3113 / 1456 Miramar Rd	A1 A5 A2 A5 A45 A23 A23	 № 87 / 160 ⇔ 2266 / 1081 ∞ 13 / 37 Miramar Rd
128 / 367 Ø 614 / 2159 ⇔		15/26 Ø Rev 983/2465 ⇔ Rev 149/149 S egsiw	167 / 284 ⊗ 20 / 51 ⇔ 125 / 280 ⊗	77 / 267		24 / 45	955 / 431 & 299 / 395 🕀 10 / 31 &
5 1371 / 601 & 121 / 16 H15 SB Ramps	∿ 846 / 725 ⇔ 945 / 755 Miramar Rd	46 sdwe¥ 8N SI-i	∾ 169 / 116 ⇔ 1098 / 941 Miramar Rd	291 / 75 ⇔ 621 / 566 ⊗ 84 / 70 Camino Santa Fe	 № 49 / 115 ⇔ 276 / 91 ∞ 47 / 86 Carroll Rd 	8 142/30 ⇒ 721/244 ⇒ 33/166 Camino Santa Fe	 № 114 / 55 ⇔ 412 / 36 ∞ 381 / 43 Flanders Dr
470 / 1297 ⇔ 555 / 1424 ∿		267 / 418 ⇔ 328 / 894 ∿	681 / 536 2 540 / 661 2	65 / 294 ∅ 142 / 315 ⇔ 156 / 383 ₪	279 / 108 & 289 / 720 み 115 / 73 &	14 / 76	60 / 64 ⊘ 115 / 748 ⇔ 21 / 512 ⊵

FIGURE 4-33 C

68 Caruoli Canhou Kq Camino Ruíz Camino Ruíz		00 8 1 /8 966 /532 α 244 /900 Camino Ruiz	 539 / 239 ⇒ 3 / 0 ≥ 213 / 53 Activity Rd 	21 /35 ↔ 71 /35 ↔ 396 /101 ↔ 1495 /643 Hates se off	 N 706 / 1267 ⇔ 338 / 290 ≥ 12 / 40 Sorrento Valley Rd 	25 333 /484 © 60 /56 Vista Sorrento Pkwy	∾ 457 / 748 ⇔ 678 / 1115 Mira Mesa Blvd
6 / 23 🛛 🧔 53 / 52 🖄	70 /13	1/1 ⊅ 0/8 ⇔ 1/5 ∿	0/3 294/919 10 63/165 2	308 / 457 ⇔ 143 / 96 ∿ 143 Buggung Su	48 /104 /3 86 /694 /2	255 / 78 ⊅ 1477 / 653 ⇔ ¥5 89 998	52 / 42 🕁 2058 / 840 😒
⇔ 430 /73 ⇔ 430 /73 ∞ 931 /106 Vissorento Pkwy	 ∞ 111 / 1113 2 63 / 294 Lusk Bivd 	24 65 /478 ⇔ 2 /0 ∞ 12 /0 ∞ 17 /160 Pacific enter	 № 167 / 37 ⇔ 216 / 184 ∞ 18 / 3 Lusk Blvd 	52 /310 & 32 /310 & 292 /178 Scranton Rd	 № 53 / 194 ⇔ 120 / 815 Carroll Canyon Rd 	94 /376 8 94 /376 & 58 /232 Pacific Heights Bivd	 N 74 / 78 ⇔ 93 / 217 Carroll Canyon Rd
	212 /563 🕁 301 /77 😒	334 / 33 ⊅ 211 / 262 ⇔ 8 / 3 ≌	1 /19 % 2 /4 75 4 /24 %	71 / 25		244 / 85 372 / 287 ⇔	
22 30 /110 ↔ 32 /110 ↔ 134 /313 ↔ 155 /64 Lusk Bivd	≅ 94 / 53 ⇔ 150 / 172 ஜ 24 / 35 Barnes Canyon Rd	R 2 /36 2 /36 4 /57 ⇔ 4 /57 Pacific Heights Bivd	 S 0 / 1 ⇔ 29 / 218 ⇔ 12 / 89 Pacific Center Blvd 	62 ⇔ 1 / 1 Pacfific Mesa Bivd	⇔ 17 / 54 ☆ 47 / 262 Pacific Center Blvd	8 /15 8 /15 8 /15 8 Businees Access Rd	 S 4 / 2 ⇔ 124 / 794 Carroll Canyon Rd
117 / 53	35 /15 & 247 /131 & 74 /57 &	18 / 4	270 /55 ~ 33 /9 ⁻ ⁻ 89 /54 2	27 / 18 ⇔ 10 / 172 _∿	237 /30 % 3 /1 ¹ 342 /48 2	17 / 3 ⊘ 539 / 223 ⇔	
Image: Mission of the state of th		 72 / 143 86 / 19 Youngstown Way 	∾ 25 / 10 ⇔ 165 / 838 Carroll Canyon Rd	(29 ⇔ 1869 / 1010 ∞ 227 / 241 Black Mountain Rd	 S 246 / 316 2 41 / 20 Westview Pkwy 	P9 ≈ 546 / 425 ≈ 1199 / 560 ≈ 24 / 26 Black Mountain Rd	 S 28 / 23 ⇔ 175 / 145 ≥ 65 / 37 Capricorn Way
481 / 76 ⊅ 149 / 57 ∿	69 / 284 ⊗ 216 / 125 ⇔	25 / 15			690 / 1707 ⊕ 20 / 73 🔗	366 / 677	99 / 144 & 341 / 1056 ⊕ 43 / 95 &
2/ 2 / 2 ش 2 / 2 ش 45 / 40 Black Mountain Rd	 № 67 / 67 ⇔ 1 / 2 ∞ 168 / 59 Galvin Ave 	© 211/83 ⇔ 1267/542 ∞ 42/51 Black Mountain Rd	 S 22 / 81 ⇔ 22 / 64 ≥ 29 / 85 Gemini Ave 	 № 129 / 73 ⇔ 678 / 431 № 153 / 174 Black Mountain Rd 	 S 122 / 102 ⇔ 338 / 279 ≥ 383 / 230 Hillery Dr 	e 994 / 633 ⊘ 234 / 143 Black Mountain Rd	s 15 / 89 27 / 76 Miramar College Dwy
1/1 ⊘ 4/0 ⇔ 5/3 ∿	1 / 3 ∞ 410 / 1254 ⇔ 159 / 214 ∞	150 / 374	126 / 214 ⊘ 400 / 1024 ⇔ 10 / 17 ≥	87 / 165 ⊘ 194 / 497 ⇔ 185 / 110 ∿	152 / 165 ~ 242 / 630 ⇔ 195 / 525 ≥		565 / 1186 ⇔ 193 / 132 ⊗
69 № 177 / 101 ⇔ 684 / 459 ∞ 72 / 86 Black Mountain Rd	 № 185 / 179 ⇔ 241 / 196 2 36 / 30 Gold Coast Dr 	 3 3 13/19 696/517 339/410 Black Mountain Rd Mountain 	 № 316 / 280 ⇔ 1 / 6 ☆ 777 / 169 Carroll Canyon Rd 	© 20/18 00/18 00/19 00/19 00/19 00/19 00/19 00/19 00/19 00/19 00/19 00/19 00/19 00/19 00/19 00/19 00/10 00/	 S 336 / 391 ⇔ 1030 / 452 ☆ 77 / 66 Carroll Canyon Rd 	25/4 ≈ 25/4 ≈ 1485/656 8 8/21 Black Mountain Rduntain	∾ 19 / 23 2 104 / 17 Maya Linda Rd
131 / 244 ⊅ 165 / 163 ⇔ 330 / 456 ⊵	221 / 230 ≈ 385 / 882 ⇔ 18 / 53 ∿	15/12	4 / 13	9 / 12	4/5 2/36 5 32/36 5 81/212 2	13 / 2 Ø 24 / 1 ₪	6 / 2 ∞ 301 / 1345 ⇔ 16 / 232 ⊗

FIGURE 4-33 D

73 73 73 73 73 73 73 73 74 74 7008 / 388 7400 / 308 7400 / 308 7	 № 30 / 84 ⇔ 75 / 27 ∞ 68 / 82 Carroll Center Rd № 1 Ø № 1 Ø № 1 Ø № 1 Ø 	74 11/ ↓ soon function for the second seco	 № 185 / 104 ⇔ 1289 / 819 Kearny Villa Rd 	75 27 28 / 871 0 0 128 / 871 0 0 120 / 462 0	© 0/9 © 1/4 2/7 Activity Rd © 0 2/7 Activity Rd 0/9 0/7 0/9 0/9 0/9 0/9 0/9 0/9 0/9 0/9	76 18 / 8 51 / 13 5 / 2 5 / 2 5 / 3 5 / 3 6 / 402 5 / 3 6 / 3 7 / 402 5 / 3 6 / 3 7 / 402 6 / 3 7 / 402 6 / 3 7 / 402 7 / 7 / 402 7 / 7 / 402 7 / 7 / 402 7 / 7 / 7 / 402 7 / 7 / 7 / 7 / 7 / 7 / 7 / 7 / 7 / 7 /	© 66 / 41 © 259 / 579 © 1422 0 Mira Lee Way © 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
77 E 2 / 701 L 2 3 3 / 72 2 237 / 245 S	148 /141 & 323 /934 ⇔	78 sdurgy gn s1-1 239 / 419 Ø 488 / 625 ↔	 № 166 / 280 ⇔ 775 / 689 Carroll Canyon Rd № û Ø 01 / 78 02 / 78 03 / 78 	sduurea as s1-1 6227/ 14.6 ∞ ⇒ 2/ 2 2/ 2/ 66. ∞ ⊕ ∞ 400 / 854 ⊕ ∞ 400 / 854 ∞	⇔ 1058 / 628 2 331 / 410 Carroll Canyon Rd	80 24 / 35 0 24 / 35 0 24 / 35 0 31 / 91 0 Start west Start	 № 19/21 ⇔ 2235/1219 ☆ 2235/1219 ☆ 22/45 Miramar Rd № 0 № 0
81 81 81 81 81 82 83 84 83 84 83 84 84 85 84 85 84 85 84 85 84 85 85 85 85 85 85 85 85 85 85	181 /92 ⊘ 238 /445 ⇔	82 Miratech Dr 93 / 20 0 947 / 447 0 80 0 47 / 447 0 80 0 80 0 80 0 80 0 80 0 80 0 80 0 8	27 /5 ⊘ 186 /1168 ⇔	83 502 200 505 200 500 200	75 /11 ≈ 213 /1162 ⇔	84 72 12 12 12 13 15 64<	2/2 2/3 /1027 3 2 2/3 /1027 3 2 1/1 /227 2 1/3 /1142 / 1/22 1/3 2 1/3 /114 / 2/3 2 1/3 / 2/3 2 1/3 / 2/3 2 1/3 / 2/3 2 1/3 / 2/3 /
85 596 / 316 ⇔ 60 252 / 56 ∿ 12 V	⇔ 149 / 601 2 37 / 7 Carroll Canyon Rd 8 2 149 / 601 8 4 7 2 6 1 2 2 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6 1	86 86 2 / 1 3 2 / 1 4 2 / 2 3 2 / 1 4 2 / 2 3 2 / 1 4 2 / 2 3 2 / 1 3 2 / 1 4 2 / 2 3 2 / 1 3 2 / 1 3 2 / 1 3 2 / 1 3 2 / 2 / 3 3 / 2 / 3 4 / 2 / 2 / 2 / 3 4 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 /	 N 188 / 22 ⇒ 599 / 226 ≥ 44 / 11 Carroll Rd ⊙ ∞ ∞ 7 → → 	28 6 6 7 7 7 7 6 7 7 7 7 7 7 7 7 7 7 7 7 7	 5 7 / 22 4 1 / 0 4 13 / 154 6 12 / 56 7 8 0 12 / 56 12 / 56 12 / 56 12 / 56 13 / 54 	88 88 88 88 88 88 88 88 88 88	 ≈ 182/10 ≈ 41/24 ≈ 713/128 Capricorn May ∞ ⊕ ∅ ∞ ⊕ ∅
89 001 201 201 201 201 201 201 201 201 201	 ≈ 124 / 80 ⇔ 124 / 104 ≈ 124 / 104 ∞ 139 / 54 Gold Coast Dr ≈ ⊕ Ø ≈ ⊕ Ø ≈ € ≈ ⊕ Ø ≈ € ∞ € <	90 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9	 ≈ 15 / 6 ⇔ 29 / 14 ∞ 69 / 42 Capricom Way ≈ ⊕ 29 / 0€ 691 / 22 / 0€ 	Image: constraint of the state	 543 / 97 ⇒ 16 / 14 ⇒ 92 / 62 Aquarius Dr ⇒ 2 × 2 × 2 × 2 × 3 × 4 × 5 × 5 × 5 × 6 × 7 × 7 × 7 × 8 × 7 × 7 × 8 × 7 ×	92 02 02 02 02 02 02 02 02 02 02 02 02 02	S 5 / 9 ⇔ 9 / 22 ⇒ 10 / 46 Barnes Canyon Rd S 12 / 28 S 28 /



Existing Peak Hour Time Periods (AM Peak)



Existing Peak Hour Time Periods (PM Peak)

4.4.2 VEHICLE SAFETY

Between October 2012 and September 2017, there were a total of 2,029 reported vehicular collisions, excluding pedestrian- and bicycle-involved collisions, within the Mira Mesa community. In the State of California, collision reports must be generated for any collision where property damage totals 750 dollars or more, someone is injured, or someone is killed. As a result, it is important to note some incidents may go unreported for failing to meet one of these criteria.

Figure 4-36 displays the collisions across the community, symbolized by the number of crashes within 350 feet of the given location.

Many locations experienced multiple collisions in the five-year period. A collision within 350 feet of the intersection was considered for this ranking. The ten most frequent collision locations are identified in **Table 4-26**. As shown, the three intersections with the highest number of collisions all occur on Mira Mesa Boulevard. Mira Mesa Boulevard and Miramar Road are corridors that have a high number of intersection-related collisions.

Rank	Intersections	Collisions*
1	Mira Mesa Blvd & Westview Pkwy	74
2	Mira Mesa Blvd & Black Mountain Rd	64
3	Mira Mesa Blvd & Camino Ruiz	42
4	Miramar Rd & Camino Ruiz	37
5	Miramar Rd & Carroll Rd	35
6	Miramar Rd & Black Mountain Rd	34
7	Mira Mesa Blvd & Scranton Rd	30
8	Miramar Rd & Kearny Villa Rd	29
9	Mira Mesa Blvd & Marbury Ave/Westmore Rd	29
10	Miramar Rd & Camino Santa Fe/Frost-Mar PI	28

Table 4-26 Most Frequent Vehicular Collision Locations

*Represents the number of collisions within 350 feet of the intersection

The reported collisions based on location types are summarized in **Table 4-27**. Location types include intersection, mid-block, and approaching/departing locations. Nearly three-quarters of all collisions occurred at intersections.

Table 4-27 Most Frequent Vehicular Collision Locations

Collision Location Type	Collisions	Percent of Total
Intersection	1,463	72%
Approaching/Departing	367	18%
Mid-Block	199	10%
Total	2,029	100%



Vehicle Collision Summary

A summary of the reported collisions categorized by party at fault is shown in Table 4-28.

Party at Fault	Collisions	Percent of Total
Driver	1,069	53%
Bicyclist	25	1%
Parked Vehicle	169	8%
Pedestrian	31	2%
Other/Not Stated	735	36%
Total	2,029	100%

Table 4-28 Collisions by Party at Fault

Table 4-29 displays the primary causes for vehicle involved collisions. As shown in the table, the top causes of collisions were improper turning, followed by unsafe speeds, and auto right-of-way violation.

Primary Collision Cause	Number of Collisions	Percent of Total
Improper Turning	432	21%
Unsafe Speed	421	21%
Auto R/W Violation	343	17%
Not Stated	159	8%
Following Too Closely	107	5%
Traffic Signals and Signs	103	5%
Unsafe Lane Change	91	4%
Unsafe Starting or Backing	87	4.%
Unknown	53	3%
Other Hazardous Movement	49	2%
Other	43	2%
Driving Under Influence	31	2%
Pedestrian Violation	23	1%
Other Improper Driving	21	1%
Wrong Side of Road	19	<1%
Ped R/W Violation	16	<1%
Improper Passing	15	<1%
Other Than Driver	6	<1%
Impeding Traffic	4	<1%
Other Equipment	4	<1%
Fell Asleep	2	<1%
Total	2029	100%

Table 4-29 Primary Collision Cause

Collision data with causes labeled "Other" and those that were blank are combined. "Other" = 24 Blank = 19

4.4.3 VEHICLE SYSTEM OPERATIONS (QUALITY)

Each roadway segment in the study area was evaluated by comparing the daily traffic volume (ADT) with the roadway's theoretical capacity based on its classification. The capacity represents the maximum daily volume before the roadway is expected to begin to operate at a LOS E based on the number of lanes, speed, access points, and other physical features of the roadway. This volume-to-capacity comparison (v/c ratio) is a planning tool used to determine the general traffic demand on a segment and its sensitivity to delays. The v/c ratios are reported in terms of level of service (LOS), a quantitative measure representing the quality of service from the driver's perspective.

Table 4-30 presents the functional classification and other characteristics for each roadway segment, and the results of the roadway segment analysis for a typical weekday. As shown in the table, it is estimated that all roadway segments function at an acceptable LOS D or better in the study area, except for the following segments:

- Scranton Road between Barnes Canyon Road to Mira Sorrento Place
 2 Lane Collector (w/o two-way left-turn lane) (LOS F)
- Barnes Canyon Road Scranton Road to Lusk Boulevard
 - 2 Lane Collector (w/o two-way left-turn lane) (LOS E)
- Mira Mesa Boulevard Camino Santa Fe to Parkdale Avenue
 - 6 Lane Major Arterial (LOS E)
- Mira Mesa Boulevard Parkdale Avenue to Reagan Road
 6 Lane Major Arterial (LOS F)
- Mira Mesa Boulevard Reagan Road to Camino Ruiz.
 - \circ 6 Lane Major Arterial (LOS E)
- Mira Mesa Boulevard New Salem Street/Marauder Way to Westview Parkway
 - 6 Lane Major Arterial (LOS F)
- Mira Mesa Boulevard Westonhill Dr to Greenford Dr
 - 6 Lane Major Arterial (LOS F)
- Mira Mesa Boulevard Greenford Dr to Black Mountain Road
 - 6 Lane Major Arterial (LOS F)

0

- Mira Mesa Boulevard –Black Mountain Road to Westview Parkway
 - 6 Lane Major Arterial (LOS F)
- Mira Mesa Boulevard Westview Parkway to I-15 Ramps
 7 Lane Prime Arterial (LOS E)
- Carroll Road Nancy Ridge Drive (E) to Camino Santa Fe
 - 2 Lane Collector (w/ two-way left-turn lane) (LOS F)
- Miramar Road West of Western Community Limit
 - 6 Lane Major Arterial (LOS F)
- Miramar Road Western Community Limit to Camino Santa Fe
 - o 6 Lane Major Arterial (LOS F)
- Miramar Road Camino Santa Fe to Production Avenue
 - o 6 Lane Major Arterial (LOS F)
- Miramar Road Production Avenue to Distribution Avenue
 6 Lane Major Arterial (LOS F)
- Miramar Road Distribution Avenue to Carroll Road
 - 6 Lane Major Arterial (LOS F)

- Miramar Road Carroll Road to Camino Ruiz
 - o 6 Lane Major Arterial (LOS F)
- Miramar Road Camino Ruiz to Black Mountain Road
 - o 6 Lane Major Arterial (LOS F)
- Miramar Road Black Mountain Road to Kearny Villa Road
 6 Lane Major Arterial (LOS F)
- Miramar Road Kearny Villa Road to I-15
 - o 6 Lane Major Arterial (LOS F)
- Flanders Drive Caminito Alvarez to Parkdale Avenue
 - 2 Lane Collector (w/o two-way left-turn-lane) (LOS F)
- Westmore Road Camino Ruiz to Westonhill Drive
 - 2 Lane Collector (w/o two-way left-turn lane) (LOS F)
- Reagan Road Mira Mesa Boulevard to Camino Ruiz
 - 2 Lane Collector (w/o two-way left-turn lane) (LOS E)
- Gold Coast Drive Parkdale Avenue to Camino Ruiz
 - o 2 Lane Collector (w/o two-way left-turn lane) (LOS E)
- Gold Coast Drive –Camino Ruiz to Westonhill Dr
 - 2 Lane Collector (w/o two-way left-turn lane) (LOS E)
- Gold Coast Drive Westonhill Drive to Black Mountain Road
 - 2 Lane Collector (w/o two-way left-turn lane) (LOS F)
- Gold Coast Drive Black Mountain Road to Maya Linda Road
 2 Lane Collector (w/o two-way left-turn lane) (LOS E)
 - Westonhill Drive Capricorn Way to Libra Drive
 - 2 Lane Collector (w/o two-way left-turn lane) (LOS E)
- Westonhill Drive Libra Drive to Westmore Road
 - o 2 Lane Collector (w/o two-way left-turn lane) (LOS F)
- Capricorn Way Camino Ruiz to Westonhill Drive
 - 2 Lane Collector (w/o two-way left-turn lane) (LOS E)
- Capricorn Way Westonhill Drive to Bootes Street
 - 2 Lane Collector (w/o two-way left-turn lane) (LOS E)
- Capricorn Way Bootes Street to Black Mountain Road
 - 2 Lane Collector (w/o two-way left-turn lane) (LOS F)
- Black Mountain Road North of Northern Community Limit
 4 Lane Major Arterial (LOS E)
- Hillery Drive Greenford Drive to Black Mountain Road
 - 2 Lane Collector (w/o two-way left-turn lane) (LOS F)

Figure 4-37 illustrates the existing LOS results for each of the roadway segments in the study area based on the volume-to-capacity analysis methodology. The segments with LOS E or F have volumes above their theoretical capacity, typically resulting in periods of congestion.



Existing Roadway Segment Level of Service

Roadway Segment	Functional Class	LOS E Capacity	ADT	V/C Ratio	LOS
Vista Sorrento Parkway					
North of Sorrento Valley Blvd.	4 Lane Major Arterial	40,000	15,635	0.391	В
Sorrento Valley Blvd (N. Community Limit) to Lusk Blvd	4 Lane Major Arterial	40,000	14,927	0.373	А
Lusk Blvd to Mira Sorrento Pl	3 Lane Collector (w/ TWLTL)	22,500	13,504	0.600	С
Mira Sorrento PI to Mira Mesa Blvd	4 Lane Major Arterial	40,000	17,009	0.425	В
Sorrento Valley Blvd					
West of Western Community Limit to I-805 Ramps	4 Lane Collector (w/ TWLTL)	30,000	12,887	0.430	В
I-805 Ramps to Camino Santa Fe	4 Lane Major Arterial	40,000	15,764	0.394	В
Lusk Blvd				1	
Vista Sorrento Pkwy to Pacific Center Blvd	4 Lane Major Arterial	40,000	11,324	0.283	Α
Pacific Center Blvd to Barnes Canyon Rd	4 Lane Major Arterial	40,000	10,630	0.266	Α
Barnes Canyon Rd to Mira Mesa Blvd	4 Lane Major Arterial	40,000	11,068	0.277	Α
Mira Sorrento PI	,	- /		-	
Vista Sorrento Pkwy to Scranton Rd	4 Lane Collector (w/ TWLTL)	30,000	10,145	0.338	В
Scranton Rd	(iii + i / _ · · · / / · · / / · · / / · · / / · · / / · · / / · · / / · · / / · · / / · · / / · · / / · · / / · · / / · · / / · · / / · · / / · · / / · · / / · · / / / · / / / · /	,			
Barnes Canyon Rd to Mira Sorrento Pl	2 Lane Collector (w/o TWLTL)	8,000	10,870	1.359	F
Mira Sorrento PI to Mira Mesa Blvd	5 Lane Major Arterial	45,000	18,296	0.407	В
Mira Mesa Blvd to Carroll Canyon Rd	4 Lane Major Arterial	40,000	10,303	0.258	A
Barnes Canyon Rd			,		
Scranton Rd to Lusk Blvd	2 Lane Collector (w/o TWLTL)	8,000	7,335	0.917	E
Lusk Blvd to Pacific Heights Blvd	4 Lane Major Arterial	40,000	6,924	0.173	A
Pacific Center Blvd	,	- /	-) -		
Lusk Blvd to Pacific Heights Blvd	4 Lane Major Arterial	40,000	7,565	0.189	Α
Pacific Heights Blvd to Pacific Mesa Blvd	4 Lane Collector (w/o TWLTL)	15,000	3,293	0.220	A
Pacific Heights Blvd		,	-,		
Pacific Center Blvd to Barnes Canyon Rd	4 Lane Major Arterial	40,000	7,245	0.181	Α
Barnes Canyon Rd to Mira Mesa Blvd	4 Lane Major Arterial	40,000	16,772	0.419	B
Mira Mesa Blvd to Carroll Canyon Rd	4 Lane Major Arterial	40,000	8,045	0.201	A
Pacific Mesa Blvd	jj	,	-,		
Pacific Heights Blvd to Pacific Center Blvd	4 Lane Major Arterial	40,000	9,398	0.235	Α
Calle Cristobal	,		-,		
Camino Santa Fe to Acama Ct	4 Lane Major Arterial	40,000	14,812	0.370	Α
Acama Ct to Camino Ruiz	4 Lane Major Arterial	40,000	12,239	0.306	A
Mira Mesa Blvd	,	- /	,		
I-805 Ramps to Scranton Rd	7 Lane Prime Arterial	87,000 ^d	60,870	0.761	С
Scranton Rd to Lusk Blvd	6 Lane Prime Arterial	60,000	47,868	0.798	C
Lusk Blvd to Pacific Heights Blvd	6 Lane Prime Arterial	60,000	45,646	0.761	С
Pacific Heights Blvd to Flanders Dr	6 Lane Prime Arterial	60,000	41,338	0.689	С
Flanders Dr to Camino Santa Fe	6 Lane Prime Arterial	60,000	41,679	0.695	C
Camino Santa Fe to Parkdale Ave	6 Lane Major Arterial	50,000	47,281	0.946	E
Parkdale Ave to Reagan Rd	6 Lane Major Arterial	50,000	51,329	1.027	F
Reagan Rd to Camino Ruiz	6 Lane Major Arterial	50,000	45,330	0.907	E
		00,000	10,000	0.001	-

Table 4-30 Existing Roadway Segment Analysis

Roadway Segment	Functional Class	LOS E Capacity	ADT	V/C Ratio	LOS
Camino Ruiz to New Salem St/Marauder Wy	6 Lane Major Arterial	50,000	31,552	0.631	С
New Salem St/Marauder Wy to Westonhill Dr	6 Lane Major Arterial	50,000	57,445	1.149	F
Westonhill Dr to Greenford Dr	6 Lane Major Arterial	50,000	57,200	1.144	F
Greenford Dr to Black Mountain Rd	6 Lane Major Arterial	50,000	60,335	1.207	F
Black Mountain Rd to Westview Pkwy	6 Lane Major Arterial	64,167 ^d	70,632	1.101	F
Westview Pkwy to I-15 Ramps	7 Lane Prime Arterial	87,000 ^d	78,516	0.902	Е
I-15 Ramps to East of Eastern Community Limit	6 Lane Major Arterial	50,000	32,450	0.649	С
Carroll Canyon Rd					
Sorrento Valley Rd/Mira Mesa Blvd to Scranton Rd	4 Lane Major Arterial	40,000	12,130	0.303	А
Scranton Rd to Nancy Ridge Dr (W)	4 Lane Collector (w/ TWLTL)	30,000	13,164	0.439	В
Nancy Ridge Dr (W) to Pacific Heights Blvd	2 Lane Major Arterial	20,000	13,164	0.658	С
Pacific Heights Blvd to Black Mountain Rd	Future	e Connection	1	•	
Black Mountain Rd to Maya Linda Rd	4 Lane Collector (w/ TWLTL)	30,000	18,896	0.630	С
Maya Linda Rd to I-15 Ramps	4 Lane Collector (w/ TWLTL)	30,000	19,862	0.662	С
I-15 Ramps to East of Eastern Community Limit	4 Lane Collector (w/ TWLTL)	30,000	13,806	0.460	В
Carroll Rd				<u> </u>	
Pacific Heights Blvd to Nancy Ridge Dr (E)	2 Lane Major Arterial	20,000	11,833	0.592	С
Nancy Ridge Dr (E) to Camino Santa Fe	2 Lane Collector (w/ TWLTL)	15,000	15,941	1.063	F
Camino Santa Fe to Miramar Rd	2 Lane Collector (w/ TWLTL)	15,000	9,755	0.650	С
Nancy Ridge Dr					
Carroll Canyon Rd to Carroll Rd	2 Lane Collector (w/o TWLTL)	8,000	3,039	0.380	В
Miramar Rd					
West of Western Community Limit	6 Lane Major Arterial	50,000	62,983	1.260	F
Western Community Limit to Camino Santa Fe	6 Lane Major Arterial	50,000	66,374	1.327	F
Camino Santa Fe to Production Ave	6 Lane Major Arterial	50,000	58,884	1.178	F
Production Ave to Distribution Ave	6 Lane Major Arterial	50,000	54,165	1.083	F
Distribution Ave to Carroll Rd	6 Lane Major Arterial	50,000	51,816	1.036	F
Carroll Rd to Camino Ruiz	6 Lane Major Arterial	50,000	50,944	1.019	F
Camino Ruiz to Black Mountain Rd	6 Lane Major Arterial	50,000	64,376	1.288	F
Black Mountain Rd to Kearny Villa Rd	6 Lane Major Arterial	50,000	64,382	1.288	F
Kearny Villa Rd to I-15 Ramps	6 Lane Major Arterial	50,000	52,857	1.057	F
I-15 Ramps to East of Eastern Community Limit	4 Lane Prime Arterial	64,125 ^d	28,064	0.438	В
Flanders Dr				•	
Mira Mesa Blvd to Camino Santa Fe	4 Lane Collector (w/o TWLTL)	15,000	7,549	0.503	С
Camino Santa Fe to Caminito Alvarez	4 Lane Collector (w/o TWLTL)	15,000	10,385	0.692	D
Caminito Alvarez to Parkdale Ave	2 Lane Collector (w/o TWLTL)	8,000	8,279	1.035	F
Parkdale Ave to Camino Ruiz	2 Lane Collector (w/o TWLTL)	8,000	4,129	0.516	С
Camino Ruiz to Westonhill Dr	2 Lane Collector (w/o TWLTL)	8,000	3,745	0.468	С
Westonhill Dr to Greenford Dr	2 Lane Collector (w/o TWLTL)	8,000	4,487	0.561	С
Camino Santa Fe					
Sorrento Valley Blvd/Calle Cristobal to Top Gun St	4 Lane Major Arterial	40,000	10,792	0.270	А

_

Roadway Segment	Functional Class	LOS E Capacity	ADT	V/C Ratio	LOS
Top Gun St to Mira Mesa Blvd	4 Lane Major Arterial	40,000	16,903	0.423	В
Mira Mesa Blvd to Flanders Dr	6 Lane Major Arterial	50,000	18,925	0.379	Α
Flanders Dr to Carroll Canyon Rd	6 Lane Prime Arterial	60,000	20,126	0.335	А
Carroll Canyon Rd to Carroll Rd	4 Lane Prime Arterial	45,000	20,126	0.447	В
Carroll Rd to Spectrum Ln	4 Lane Major Arterial	40,000	21,494	0.537	С
Spectrum Ln to Miramar Rd	6 Lane Major Arterial	50,000	21,494	0.430	В
Parkdale Ave					
Mira Mesa Blvd to Flanders Dr	2 Lane Collector (w/o TWLTL)	8,000	4,862	0.608	С
Flanders Dr to Osgood Wy	2 Lane Collector (w/o TWLTL)	8,000	536	0.067	Α
Production Ave					
Carroll Rd to Miramar Rd	2 Lane Collector (w/ TWLTL)	15,000	2,353	0.157	Α
Distribution Ave					
Carroll Rd to Miramar Rd	2 Lane Collector (w/o TWLTL)	8,000	2,931	0.366	В
Montongo St				<u> </u>	
Acama St to Westmore Rd	2 Lane Collector (w/o TWLTL)	8,000	4,555	0.569	С
Westmore Rd to Mira Mesa Blvd	2 Lane Collector (w/o TWLTL)	8,000	3,992	0.499	С
Camino Ruiz			· · ·		
Calle Cristobal to Aquarius Dr	4 Lane Major Arterial	40,000	18,446	0.461	В
Aquarius Dr to Teresa Dr/Capricorn Wy	4 Lane Collector (w/ TWLTL)	30,000	17,787	0.593	С
Teresa Dr/Capricorn Wy to Westmore Rd	4 Lane Major Arterial	40,000	17,509	0.438	В
Westmore Rd to Mira Mesa Blvd	4 Lane Major Arterial	40,000	19,562	0.489	В
Mira Mesa Blvd to Reagan/Marauder Wy	4 Lane Major Arterial	40,000	22,819	0.570	С
Reagan Rd/Marauder Wy to Flanders Dr	4 Lane Major Arterial	40,000	20,311	0.508	В
Flanders Dr to Gold Coast Dr	4 Lane Major Arterial	40,000	19,060	0.477	В
Gold Coast Dr to Carroll Canyon Rd	4 Lane Major Arterial	40,000	27,094	0.677	С
Carroll Canyon Rd to Activity Rd	4 Lane Major Arterial	40,000	28,213	0.705	С
Activity Rd to Miramar Rd	5 Lane Major Arterial	45,000	27,016	0.600	С
Westmore Rd	,	-,	,		
Montongo St to Camino Ruiz	2 Lane Collector (w/o TWLTL)	8,000	5,152	0.644	D
Camino Ruiz to Westonhill Dr	2 Lane Collector (w/o TWLTL)	8,000	9,951	1.244	F
Reagan Rd		-,	-,		_
Mira Mesa Blvd to Camino Ruiz	2 Lane Collector (w/o TWLTL)	8,000	6,849	0.856	E
Marauder Wy		0,000	0,010		
Camino Ruiz to Mira Mesa Blvd	2 Lane Collector (w/o TWLTL)	8,000	6,086	0.761	D
Gold Coast Dr		0,000	0,000		
Parkdale Ave to Camino Ruiz	2 Lane Collector (w/o TWLTL)	8,000	7,243	0.905	E
Camino Ruiz to Westonhill Dr	2 Lane Collector (w/o TWLTL)	8,000	7,066	0.883	E
Westonhill Dr to Black Mountain Rd	2 Lane Collector (w/o TWLTL)	8,000	10,120	1.265	F
Black Mountain Rd to Maya Linda Rd	2 Lane Collector (w/o TWLTL)	8,000	7,710	0.964	E
Westonhill Dr		0,000	1,110	0.001	
Menkar Rd to Aquarius Dr	2 Lane Collector (w/o TWLTL)	8,000	1,492	0.187	Α
Aquarius Dr to Capricorn Wy	2 Lane Collector (w/o TWLTL)	8,000	4,297	0.537	C
Capricorn Wy to Libra Dr	2 Lane Collector (w/o TWLTL)	8,000	6,636	0.830	E
Libra Dr to Westmore Rd	2 Lane Collector (w/o TWLTL)	8,000	9,389	1.174	F
Westmore Rd to Mira Mesa Blvd	2 Lane Collector (w/o TWLTL)	11,400 ^d	9,309 8,896	0.780	D
Mira Mesa Blvd to Flanders Dr	2 Lane Collector (w/o TWLTL)	8,000	4,480	0.560	C
		0,000	4,400	0.000	U

Roadway Segment	Functional Class	LOS E Capacity	ADT	V/C Ratio	LOS
Flanders Dr to Gold Coast Dr	2 Lane Collector (w/o TWLTL)	8,000	4,684	0.586	С
Gold Coast Dr to Jade Coast Dr	2 Lane Collector (w/o TWLTL)	8,000	1,762	0.220	Α
Aquarius Dr	·		•		
Camino Ruiz to Westonhill Dr	2 Lane Collector (w/o TWLTL)	8,000	5,135	0.642	D
Westonhill Dr to Bootes Dt	2 Lane Collector (w/o TWLTL)	8,000	3,197	0.400	В
Capricorn Wy					
Camino Ruiz to Westonhill Dr	2 Lane Collector (w/o TWLTL)	8,000	7,886	0.986	E
Westonhill Dr to Bootes St	2 Lane Collector (w/o TWLTL)	8,000	7,167	0.896	Е
Bootes St to Black Mountain Rd	2 Lane Collector (w/o TWLTL)	8,000	12,481	1.560	F
Black Mountain Rd to Westview Pkwy	2 Lane Collector (w/ TWLTL)	15,000	6,438	0.429	В
Bootes St		,	,	I	
Aquarius Dr to Capricorn Wy	2 Lane Collector (w/o TWLTL)	8,000	6,244	0.781	D
Libra Dr		-,	-,		
Westonhill Dr to Hyades Wy	2 Lane Collector (w/o TWLTL)	8,000	4,467	0.558	С
Greenford Dr		0,000	1,101	0.000	
Mira Mesa Blvd to Hillery Dr	2 Lane Collector (w/o TWLTL)	8,000	4,198	0.525	С
Hillery Dr to Flanders Dr	2 Lane Collector (w/o TWLTL)	8,000	5,159	0.645	D
Black Mountain Rd		0,000	0,100	0.040	
North of Northern Community Limit	4 Lane Major Arterial	40,000	36,605	0.915	Е
Northern Comminuty Limit to Westview Pkwy	6 Lane Prime Arterial	60,000	35,556	0.593	C
Westview Pkwy to Capricorn Wy	6 Lane Prime Arterial	60,000	25,815	0.430	B
Capricorn Wy to Galvin Ave	6 Lane Prime Arterial	60,000	25,815	0.430	A
					C
Galvin Ave to Gemini Ave	4 Lane Major Arterial	40,000	24,797	0.620	C C
Gemini Ave to Mira Mesa Blvd	4 Lane Major Arterial	40,000	27,659	0.691	
Mira Mesa Blvd to Hillery Dr	4 Lane Major Arterial	40,000	18,301	0.458	В
Hillery Dr to Gold Coast Dr	4 Lane Major Arterial	40,000	23,507	0.588	C
Gold Coast Dr to Carroll Canyon Rd	4 Lane Major Arterial	40,000	24,794	0.620	С
Carroll Canyon Rd to Maya Linda Rd	4 Lane Major Arterial	40,000	23,944	0.599	С
Maya Linda Rd to Black Mountain Rd/Carroll Centre Rd	5 Lane Major Arterial	45,000	24,188	0.538	В
Black Mountain Rd/Kearny Villa Rd to Activity Rd	4 Lane Collector (w/ TWLTL)	30,000	16,795	0.560	С
Activity Rd to Miramar Rd	4 Lane Collector (w/ TWLTL)	30,000	11,575	0.386	В
Kearny Villa Rd		· · · ·			
Black Mountain Rd/Carroll Centre Rd to Miramar Rd	4 Lane Collector (w/ TWLTL)	30,000	12,079	0.403	В
Miramar Rd to South of Southern Community Limit	4 Lane Major Arterial	40,000	26,246	0.656	С
Gemini Ave			I	I	1
Hyades Wy to Black Mountain Rd	3 Lane Collector (w/ TWLTL)	22,500	9,839	0.437	В
Hillery Dr	(,000	-,		
Greenford Dr to Black Mountain Rd	2 Lane Collector (w/o TWLTL)	8,000	12,224	1.528	F
Black Mountain Rd to Westview Pkwy	4 Lane Collector (w/ TWLTL)	30,000	15,473	0.516	С
Activity Rd					
Camino Ruiz to Black Mountain Rd	2 Lane Collector (w/ TWLTL)	15,000	11,844	0.790	D
Mercy Rd					

Roadway Segment	Functional Class	LOS E Capacity	ADT	V/C Ratio	LOS
Black Mountain Rd to I-15 Ramps	4 Lane Major Arterial	40,000	17,747	0.444	В
I-15 Ramps to East of Eastern Community Limit	6 Lane Prime Arterial	60,000	36,813	0.614	С
Westview Pkwy					
Black Mountain Rd to Capricorn Wy	4 Lane Collector (w/ TWLTL)	30,000	7,819	0.261	Α
Capricorn Wy to Galvin Ave	4 Lane Major Arterial	40,000	19,810	0.495	В
Galvin Ave to Mira Mesa Blvd	4 Lane Major Arterial	40,000	22,495	0.562	С
Mira Mesa Blvd to Hillery Dr	4 Lane Major Arterial	40,000	12,544	0.314	A
Galvin Ave					
Black Mountain Rd to Westview Pkwy	4 Lane Major Arterial	40,000	4,548	0.114	Α
Maya Linda Rd					
Carroll Canyon Rd to Black Mountain Rd	2 Lane Collector (w/o TWLTL)	8,000	1,970	0.246	А

Notes:

Bold values indicate roadway segments operating at LOS E or F.

(a) Existing road classifications are based on field work conducted December 2017.

(b) Average Daily Traffic (ADT) volumes for the roadway segments were provided by NDS and Field Data Services of Arizona/Veracity Traffic Group and measured in October and November 2018.

(c) The v/c Ratio is calculated by dividing the ADT volume by each respective roadway segment's capacity.

(d) Capacity accounts for auxiliary lanes for this segment.

4.4.4 VEHICULAR QUALITY – TRAVEL SPEED SURVEY

Travel speeds were recorded along four major corridors in the Mira Mesa community during periods of high demand to estimate real-world vehicular travel speeds when traffic is likely to be heaviest, as well as to identify locations of delay along key roadway facilities. The roadways analyzed were Mira Mesa Boulevard, Miramar Road, Camino Santa Fe, and Black Mountain Road. Travel speed data was collected between January 23rd and January 29th, 2019 on Tuesday, Wednesday, and Thursday between 7:00-9:00 AM and 4:00-6:00 PM. The data was collected using the floating car method via the Traction application developed by Kimley-Horn. A detailed summary of travel speed data is included in **Appendix G**.

Crowd-source data was also obtained from the Traction software for a one-month period along the four travel time corridors, as well as an additional seven corridors in the study area: Camino Ruiz, Carroll Canyon Road, Lusk Boulevard, Pacific Heights Boulevard, Sorrento Valley Boulevard / Calle Cristobal, Vista Sorrento Parkway, and Westview Parkway. Data was collected at 10-minute intervals between 5:00 AM and 9:00 PM. This data provides information to show fluctuations in travel times at different times of days and on different days of the week. It was compared to the field travel time data for the four study corridors for validation of data.

Figure 4-38 through **Figure 4-45** show the travel time data results comparing crowd-sourced data, travel time data, Synchro arterial outputs, and SimTraffic arterial outputs for each of the four travel time corridors in each direction. The figures also show the congestion areas for each direction of travel during the peak periods, to highlight areas where significant delays and/or queueing was experienced during the field runs.

Mira Mesa Boulevard and Miramar Road are congested westbound in the morning between 7 - 10 AM and eastbound in the afternoon between 2:30 - 7:30 PM.

Camino Santa Fe has fairly consistent travel times throughout the day with increased northbound and southbound times from 4 - 6 PM.

Black Mountain Road has significant congestion in the southbound direction from 7 - 10 AM and moderate congestion northbound and southbound from 4 - 7 PM.

Figure 4-46 and **Figure 4-47** summarize the most congested segments and intersections for the vehicular study area during the AM and PM peak periods. Roadway segment congestion is based on SimTraffic speed data, highlighting segments where vehicles currently travel at 20 MPH or less during the peak periods. Intersection congestion is depicted by intersections currently operating at LOS E or LOS F based on the intersection analysis discussed in Section 4.4.5.



Mira Mesa Blvd Travel Time - Eastbound Direction



Mira Mesa Blvd Travel Time - Westbound Direction



Miramar Rd Travel Time - Eastbound Direction



Miramar Rd Travel Time - Westbound Direction





Camino Santa Fe Travel Time - Northbound Direction





Camino Santa Fe Travel Time - Southbound Direction



Black Mountain Road Travel Time - Northbound Direction



20 mph 📕 20 mph 📒 30 mph 📒 30 mph 40 mph 📕 40 mph 50 mph 50 mph AM Peak PM Peak

10 mph

Leaend

10 mph

Black Mountain Road Travel Time - Southbound Direction



Vehicle Congestion Areas - AM Peak



Vehicle Congestion Areas - PM Peak

4.4.5 VEHICULAR QUALITY – INTERSECTION ANALYSIS

Peak-hour LOS analyses were performed for the AM and PM peak hour at each of the intersections within the study area as described in **Section 2.4**. The analyses represent the one-hour timeframe that experiences the highest total intersection volume at each individual location.

The following locations have coordinated signal timing plans for the listed time of day:

- Mira Mesa Boulevard Mira Mesa Mall Driveway to Westview Parkway, I-15 NB Ramps (AM, PM)
- Miramar Road Camino Santa Fe to I-15 SB Ramps, Kearny Mesa (AM, PM)
- Mercy Road I-15 SB Ramps, I-15 NB Ramps (AM)
- Carroll Canyon Rd I-15 SB Ramps, I-15 NB Ramps (AM, PM)
- Camino Ruiz Gold Coast Drive, Activity Road (AM, PM)
- Black Mountain Road Capricorn Way to Miramar College Driveway (AM, PM)
- Black Mountain Road Gold Coast Drive, Mercy Boulevard (PM)
- Black Mountain Road Carroll Canyon Road, Maya Linda Rd (AM, PM)

The intersection analysis results are presented in **Figure 4-48** and **Figure 4-49** for all 92 study intersections, during the AM and PM peak hours. **Table 4-31** identifies the traffic control type for each intersection, and the corresponding AM and PM peak hour delay and LOS. Detailed intersection LOS calculation worksheets are provided in **Appendix F**.

As shown in the results:

- Twenty-two of the ninety-two intersections evaluated experienced LOS E or F conditions during one or more of the peak periods
 - 7 of the 22 intersections are located along Mira Mesa Boulevard, with failing operations during both the AM and PM peak hours.
 - 7 of the 22 intersections are located along Black Mountain Road, with failing operations during both the AM and PM peak hours.
 - 4 of the 22 intersections are located along Camino Ruiz, with failing operations during both the AM and PM peak hours.
 - 2 of the 22 intersections are located along Miramar Road, with failing operations during both the AM and PM peak hours.
 - 2 of the 22 intersections is located along Vista Sorrento Parkway, with failing operations during both the AM and PM peak hours.
 - The I-15 on and off ramp intersections at Carroll Canyon Road operate with failing operations during both the AM and PM peak hours



Existing Intersection Level of Service (AM Peak)



Existing Intersection Level of Service (PM Peak)

			Peak Hour	Existing	
ID	Intersection	Control		Delay (a)	LOS (b)
1	Vista Serrente Diany & Serrente Valley Plyd	Signal	AM	58.5	E
I	Vista Sorrento Pkwy & Sorrento Valley Blvd	Signal	PM	64.3	Е
2	Camino Santa Fe & Sorrento Valley Blvd	Signal	AM	12.1	В
2	Carnino Ganta i e a Gorrento Valley Diva	Olghai	PM	23.4	С
3	Camino Ruiz & Calle Cristobal	Signal	AM	9.7	А
		orginal	PM	13.1	В
4	Alemenia Rd & Mercy Rd	Signal	AM	9.5	A
•		original	PM	8.3	A
5	I-15 SB Ramps & Mercy Rd	Signal	AM	28.8	С
	· · · · · · · · · · · · · · · · · · ·	g	PM	31.5	С
6	I-15 NB Ramps & Mercy Rd	Signal	AM	27.9	С
_			PM	37.1	D
7	Black Mountain Rd & Babauta Rd	SSSC	AM	15.2	С
-			PM	43.6	E
8	Vista Sorrento Pkwy & Mira Sorrento Pl	Signal	AM	40.7	D
			PM	52.6	D
9	Scranton Rd & Mira Mesa Blvd	Signal	AM	35.6	D
			PM	51.9	D
10	Lusk Blvd & Mira Mesa Blvd	Signal	AM	23.6	С
		5	PM	43.0	D
11	Pacific Heights Blvd & Mira Mesa Blvd	Signal	AM	102.6	F
		Ŭ	PM	51.8	D
12	Sequence Dr/Huennekens St & Mira Mesa	Signal	AM	43.7	D
	Blvd	-	PM	27.9	C
13	Genetic Center/Steadman St & Mira Mesa	Signal	AM	29.3	С
	Blvd		PM	14.2	B
14	Flanders Dr & Mira Mesa Blvd	Signal	AM	27.4	C
			PM	17.1	B
15	Viper Wy & Mira Mesa Blvd	Signal	AM	10.2	B
			PM	13.7	B
16	Camino Santa Fe & Mira Mesa Blvd	Signal	AM	22.1	C
			PM	102.8	F
17	Schilling Ave & Mira Mesa Blvd	Signal	AM	10.1	B
		Signal	PM	7.8	A
18	Aderman Ave & Mira Mesa Blvd		AM	6.5	A
		Signal	PM	6.3 40.8	A
19	Parkdale Ave & Mira Mesa Blvd		AM PM	40.8 57.7	D E
					_
20	Reagan Rd & Mira Mesa Blvd	Signal	AM	52.8	D
_	~ 	-	PM	34.5	С

Table 4-31 Intersection Peak Hour Delay and LOS Analysis

			Deels	Exist	ting
ID	Intersection	Control	Peak Hour	Delay (a)	LOS (b)
01	Mire Mass Mell Driveways & Mire Mass Plud	Signal	AM	4.2	A
21	Mira Mesa Mall Driveways & Mira Mesa Blvd	Signal	PM	18.7	В
22	Camino Ruiz & Mira Mesa Blvd	Signal	AM	49.0	D
22		Signal	PM	45.2	D
23	New Salem St/Marauder Wy & Mira Mesa	Signal	AM	111.6	F
B	Blvd	Olgriai	PM	18.5	В
24	Westonhill Dr & Mira Mesa Blvd	Signal	AM	37.1	D
		orginar	PM	17.0	В
25	Greenford Dr & Mira Mesa Blvd	Signal	AM	8.5	A
		eignai	PM	14.1	В
26	Westmore Rd/Marbury Ave & Mira Mesa Blvd	Signal	AM	21.3	С
	,	0	PM	38.3	D
27	27 Black Mountain Rd & Mira Mesa Blvd Signal	Signal	AM	122.4	F
		-	PM	71.3	E
28	Westview Pkwy & Mira Mesa Blvd	Signal	AM	76.7	E
			PM	65.9	E
29	I-15 SB Ramps & Mira Mesa Blvd	Signal	AM	46.8	D
	I-15 NB Ramps & Mira Mesa Blvd		PM	46.6	D C
30		Signal	AM	26.2 22.0	C C
	Black Mountain Rd & Mercy Rd	Signal	PM		
31			AM PM	18.7 34.9	B C
	Camino Santa Fe & Miramar Rd	Signal	AM	34.9	C
32			PM	48.1	D
			AM	45.6	D
33	Commerce Ave & Miramar Rd	Signal	PM	47.9	D
			AM	4.5	A
34	Production Ave & Miramar Rd	Signal	PM	5.0	A
		<u>.</u>	AM	5.3	A
35	Distribution Ave & Miramar Rd	Signal	PM	20.2	С
		Olam I	AM	2.5	A
36	Miramar Wy & Miramar Rd	Signal	PM	5.3	А
27	Carrell Conven Rd & Miramar Dd	Signal	AM	8.4	А
37	Carroll Canyon Rd & Miramar Rd	Signal	PM	22.8	С
38	Alcomith Ct / Empire Ct & Miramar Dd	Signal	AM	1.1	А
50	Alesmith Ct / Empire St & Miramar Rd	Signal	PM	1.9	А
39	Dowdy Dr & Miramar Rd	Signal	AM	6.3	А
		Signal	PM	28.0	С
40	Cabot Dr & Miramar Rd	Signal	AM	13.6	В
70		Signal	PM	11.4	В
41	Camino Ruiz & Miramar Rd	Signal	AM	18.3	В
			PM	22.5	С
42	Clayton Dr/Mitscher Wy & Miramar Rd	Signal	AM	14.2	В
		_	PM	40.9	D
43	Black Mountain Rd & Miramar Rd	Signal	AM	7.1	A

			Deals	Existing		
ID	Intersection	Control	Peak Hour	Delay	LOS	
			DM	(a) 12.6	(b)	
			PM	32.5	B C	
44	Kearny Villa Rd & Miramar Rd	Signal	AM			
			PM	35.5	D	
45	I-15 SB Ramps & Miramar Rd	Signal	AM PM	<u>549.9</u> 68.4	F	
				13.5	B	
46	I-15 NB Ramps & Miramar Rd	Signal	AM PM	13.5	B	
			AM	32.1	С	
47	Camino Santa Fe & Carroll Rd	Signal	PM	33.7	C	
			AM	28.3	C C	
48	Camino Santa Fe & Flanders Dr	Signal	PM	52.9	D	
			AM	9.9	A	
49	49 Camino Ruiz & Carroll Canyon Rd Signa	Signal	PM	7.0	A	
			AM	23.5	C	
50	Camino Ruiz & Activity Rd	Signal	PM	80.8	F	
	I-805 SB Off-Ramp/Carroll Canyon Rd &		AM	20.8	C	
51	Sorrento Valley Rd	Signal	PM	18.0	B	
			AM	191.3	F	
52	Vista Sorrento Pkwy & Mira Mesa Blvd	Signal	PM	69.1	E	
= 0	Vista Sorrento Pkwy & Lusk Blvd		AM	13.8	B	
53		Signal	PM	17.3	В	
5 4	Pacific Center Blvd & Lusk Blvd	Signal	AM	11.4	В	
54			PM	12.6	В	
	Scranton Rd & Carroll Canyon Rd	Ciana al	AM	7.9	Α	
55		Signal	PM	11.4	В	
EG Daai	Desifie Heights Plud & Carroll Conven Dd	Signal	AM	10.7	В	
56	Pacific Heights Blvd & Carroll Canyon Rd	Signal	PM	13.2	В	
57	Luck Plud & Parnee Conven Pd	Signal	AM	16.7	В	
57	Lusk Blvd & Barnes Canyon Rd	Signal	PM	15.3	В	
58	Pacific Heights Rlvd & Pacific Contor Rlvd	Signal	AM	14.4	В	
50	Pacific Heights Blvd & Pacific Center Blvd	Signal	PM	16.9	В	
59	Pacific Mesa Blvd & Pacific Center Blvd	Signal	AM	15.9	В	
- 19	Pacific Mesa Bivo & Pacific Center Bivo	Signal	PM	20.5	С	
60	Business Access Rd & Carroll Canyon Rd	Signal	AM	3.8	А	
00	Business Access Nu & Carroli Carryon Nu	Signal	PM	5.7	А	
61	Scranton Rd & Mira Sorrento Pl	Signal	AM	12.7	В	
01	Scianton Ru & Mila Sofiento Pi		PM	22.6	С	
62	Youngstown Wy & Carroll Canyon Rd	Signal	AM	4.5	Α	
02			PM	9.7	А	
63	Black Mountain Rd & Westview Pkwy	Signal	AM	13.6	В	
			PM	20.2	С	
64	Black Mountain Rd & Capricorn Wy	Signal	AM	57.6	E	
V-T			PM	141.1	F	
65	Black Mountain Rd & Galvin Ave	Signal	AM	12.0	В	
CO			PM	6.0	А	

			Deck	Existing	
ID	Intersection	Control	Peak Hour	Delay (a)	LOS (b)
66	Plack Mountain Dd & Camini Ava	Signal	AM	12.9	B
66	Black Mountain Rd & Gemini Ave	Signal	PM	32.8	С
67	Disale Mauntain Dd 8 Lilliam / Dr	Circal	AM	79.9	Е
67	Black Mountain Rd & Hillery Dr	Signal	PM	82.9	F
68	Plack Mountain Rd & Miramar Callaga	Signal	AM	10.8	В
00	Black Mountain Rd & Miramar College	Signal	PM	29.0	С
69	Black Mountain Rd & Gold Coast Dr	Signal	AM	42.7	D
09	Black Mountain Ru & Gold Coast Di	Signal	PM	59.7	Е
70	Black Mountain Rd & Carroll Canvon Rd	Signal	AM	25.6	С
70	Black Mountain Rd & Carroll Canyon Rd	Signal	PM	12.3	В
71	Maya Linda Rd & Carroll Canyon Rd	Signal	AM	20.6	С
7 1			PM	12.2	В
72		Signal	AM	6.9	А
12		PM	5.1	А	
73	Black Mountain Rd/Kearny Villa Rd & Black	Signal	AM	69.2	E
75	Mountain Rd/Carroll Centre Rd	Signal	PM	25.6	С
74	Kearny Mesa Rd & Kearny Villa Rd	SSSC	AM	16.1	С
74		0000	PM	12.2	В
75	Black Mountain Rd & Activity Rd	Signal	AM	61.5	E
75	Black Mountain I'd & Activity I'd	Olghai	PM	33.9	С
76	Westview Pkwy & Mira Lee Wy	Signal	AM	34.3	С
70		Signal	PM	20.6	С
77	Westview Pkwy & Galvin Ave	Signal	AM	21.8	С
		Olghai	PM	12.7	В
78	I-15 NB Ramps & Carroll Canyon Rd	Signal	AM	295.8	F
10		Olghai	PM	171.7	F
79	I-15 SB Ramps & Carroll Canyon Rd	Signal	AM	668.2	F
10		Olghai	PM	432.4	F
80	Kearny Mesa Rd & Miramar Rd	Signal	AM	129.9	F
		orginal	PM	36.9	D
81	Camino Santa Fe & Top Gun St	Signal	AM	12.9	В
			PM	14.1	В
82	Camino Santa Fe & Miratech Dr	Signal	AM	6.0	Α
			PM	8.5	A
83	Camino Santa Fe & Summers Ridge Rd	Signal	AM	6.8	A
		3	PM	6.2	A
84	Camino Santa Fe & Trade St	Signal	AM	14.3	В
-		J	PM	18.2	В
85	Nancy Ridge Dr & Carroll Canyon Rd	Signal	AM	8.2	A
-	, , ,	J	PM	8.8	A
86	Rehco Rd & Carroll Rd	Signal	AM	5.1	A
			PM	11.5	B
87	Carroll Rd & Kenamar Dr	Signal	AM	10.3	B
	-	PM	11.8	B	
88	Camino Ruiz & Teresa Dr/Capricorn Wy	Signal	AM	217.8	F

ID Intersection			Peak	Existing	
	Control	Hour	Delay (a)	LOS (b)	
			PM	148.6	F
89	Camino Ruiz & Gold Coast Dr	Signal	AM	111.3	F
			PM	36.8	D
90 Westview Pkwy & C	Mastrian Dans & Caprisorn Mu	Signal	AM	13.8	В
	Westview Fkwy & Capilcolli wy		PM	10.7	В
91	Camino Ruiz & Aquarius Dr	AWSC	AM	195.0	F
			PM	159.6	F
92	Pacific Heights Blvd & Barnes Canyon Rd	Signal	AM	14.2	В
			PM	14.9	В

Notes:

Bold values indicate intersections operating at LOS E or F.

(a) Delay refers to the average control delay for the entire intersection, measured in seconds per vehicle. At a two-way stop-controlled intersection, delay refers to the worst movement.

(b) LOS calculations are based on the methodology outlined in the 6th Edition Highway Capacity Manual and performed using Synchro 10.
4.4.6 VEHICULAR QUALITY – INTERSECTION QUEUING ANALYSIS

Queuing analysis was performed to understand where queue volumes may cause overflows into adjacent lanes. This can reduce the efficiency of the intersection control and can have a detrimental effect on vehicular flow through intersections both upstream and downstream of the affected intersection. Overflows were determined to occur where the 95th percentile of queue lengths in either the AM or PM peak periods exceeds the storage length for that movement. **Table 4-32** identifies the intersection control, pocket length, 95th percentile queue lengths, and any excess queueing for each movement that exceeds the storage length. The results of this analysis show that nearly two-thirds of the 92 study intersections have insufficient storage lengths for at least one turning movement.

Intersection	Movement	Pocket Length	95% Queue Length (AM)	95% Queue Length (PM)	Excess Queue (AM) (ft)	Excess Queue (PM) (ft)
	EBL	315	135	249	-	-
1. Vista Sorrento	WBL	275	539	83	264	-
Pkwy & Sorrento	NBL	275	221	816	-	541
Valley Blvd	SBL	150	404	461	254	311
	SBR	125	138	56	13	-
2. Camino Santa Fe	EBL	250	0	6	-	-
& Sorrento Valley	EBR	250	54	89	-	-
Blvd	WBL	270	191	55	-	-
	NBL	365	84	234	-	-
	EBT/L	340	17	15	-	-
3. Camino Ruiz &	NBL	240	531	140	291	-
Calle Cristobal	NBR	145	0	0	-	-
	SBL	80	0	0	-	-
	EBL	170	71	56	-	-
4. Alemenia Rd &	WBL	100	19	23	-	-
Mercy Rd	WBR	150	42	55	-	-
	SBR	35	2	12	-	-
5. I-15 SB Ramps &	EBR	120	384	105	264	-
Mercy Rd	SBL	705	256	404	-	-
	EBL	150	175	203	25	53
6. I-15 NB Ramps &	WBR	165	387	726	222	561
Mercy Rd	NBL	330	61	175	-	-
	NBR	330	812	387	482	57
7. Black Mountain Rd & Babauta Rd	SBL	210	5	10	-	-
	EBL	170	824	353	654	183
8. Vista Sorrento	EBR	160	20	17	-	-
Pkwy & Mira Sorrento Pl	WBL	210	46	217	-	7
	SBL	245	177	79	-	-
9. Scranton Rd &	EBL	385	491	157	106	-
Mira Mesa Blvd	WBL	365	142	191	-	-

Table 4-32 Intersection Storage Lengths and Queue Analysis

Intersection	Movement	Pocket Length	95% Queue Length (AM)	95% Queue Length (PM)	Excess Queue (AM) (ft)	Excess Queue (PM) (ft)
	SBL	120	60	93	-	-
	EBL	245	191	67	-	-
	WBL	255	79	57	-	-
10. Lusk Blvd & Mira Mesa Blvd	NBL	105	26	61	-	-
Wesa Divu	NBR	105	0	133	-	28
	SBL	210	66	423	-	213
	EBL	290	742	272	452	-
	WBL	275	369	267	94	-
11. Pacific Heights	WBR	320	982	32	662	-
Blvd & Mira Mesa Blvd	NBL	90	90	241	-	151
Diva	NBR	95	0	202	-	107
	SBL	540	93	827	-	287
	EBL	230	641	408	411	178
12. Sequence	WBL	250	212	69	-	-
Dr/Huennekens St & Mira Mesa Blvd	SBL	250	44	146	-	-
	SBR	250	96	338	-	88
	EBL	265	237	68	-	-
	WBL	255	481	72	226	-
13. Genetic	NBL	140	38	49	-	-
Center/Steadman St & Mira Mesa Blvd	NBR	85	0	213	-	128
	SBL	160	82	190	-	30
	SBR	160	7	43	-	-
	EBL	215	142	114	-	-
	WBL	245	139	92	-	-
14. Flanders Dr &	NBL	250	353	207	103	-
Mira Mesa Blvd	NBR	160	0	85	-	-
	SBL	200	45	224	-	24
	EBL	260	69	61	-	-
15. Viper Wy & Mira	WBL	260	79	147	-	-
Mesa Blvd	SBL	110	29	130	-	20
	EBL	250	76	121	-	-
16. Camino Santa Fe	WBL	250	811	317	561	67
& Mira Mesa Blvd	NBL	280	183	204	-	-
	SBL	250	118	328	-	78
	EBL	260	0	140	-	-
17. Schilling Ave &	WBL	195	33	119	-	-
Mira Mesa Blvd	NBR	55	30	24	-	-
	SBL	95	160	106	65	11
	EBL	145	41	48	-	-
18. Aderman Ave &	WBL	130	29	113	-	-
Mira Mesa Blvd	SBL	100	226	108	126	8
	EBL	275	119	216	-	-

Intersection	Movement	Pocket Length	95% Queue Length (AM)	95% Queue Length (PM)	Excess Queue (AM) (ft)	Excess Queue (PM) (ft)
	WBL	255	50	211	-	-
10 Derkdele Ave 9	NBL	240	202	108	-	-
19. Parkdale Ave & Mira Mesa Blvd	NBR	100	45	39	-	-
	SBL	100	157	73	57	-
	SBR	100	173	0	73	-
	EBL	235	139	218	-	-
	WBL	240	44	102	-	-
20. Reagan Rd &	WBR	80	0	13	-	-
Mira Mesa Blvd		100	420	394	320	294
	NBT/R SBL	250 110	71 145	192 110	- 35	-
	SBL SBT/R	290	285	145	35	-
	EBL	140	83	217	-	- 77
	WBL	135	25	140		5
21. Mira Mesa Mall Driveways & Mira	NBL	90	58	133	_	43
Mesa Blvd	NBR	105	0	138	-	33
	SBL	55	48	203	-	148
	EBL	190	117	189	-	-
	WBL	200	109	280	-	80
22. Camino Ruiz &	WBR	620	0	202	-	-
Mira Mesa Blvd	NBL	270	216	374	-	104
	NBR	100	201	159	101	59
	SBL	250	346	326	96	76
	EBL	250	242	66	-	-
	EBR	125	25	15	-	-
23. New Salem St/Marauder Wy &	WBL	145	184	112	39	-
Mira Mesa Blvd	NBL	100	244	321	144	221
	SBL	150	308	284	158	134
	SBR	150	3	0	-	-
	EBL	175	66	207	-	32
24. Westonhill Dr &	WBL	265	35	125	-	-
Mira Mesa Blvd	NBL SBL	150	152	138	2 133	-
	EBL	225	358	166 32	100	-
25. Greenford Dr & Mira Mesa Blvd	WBL	250 250	18 55	32 197	-	-
26. Westmore	EBL	250	55 65	28	-	-
Rd/Marbury Ave &						
Mira Mesa Blvd	WBL	250	138	430	-	180
	EBL	250	241	338	-	88
27. Black Mountain	EBR	400	111	67	-	-
Rd & Mira Mesa Blvd	WBL	250	152	204	-	-
	NBL	260	198	155	-	-
	NBR	275	53	140	-	-

Intersection	Movement	Pocket Length	95% Queue Length (AM)	95% Queue Length (PM)	Excess Queue (AM) (ft)	Excess Queue (PM) (ft)
	SBL	440	396	308	-	-
	SBR	380	351	119	-	-
	EBL	245	101	198	-	-
	WBL	375	495	475	120	100
28. Westview Pkwy	WBR	250	66	768	-	518
& Mira Mesa Blvd	NBL	245	76	196	-	-
	NBR	200	80	91	-	-
	SBL	260	425	319	165	59
	SBR	115	192	105	77	-
29. I-15 SB Ramps &	SBL	570	138	219	-	-
Mira Mesa Blvd	SBR	290	773	804	483	514
30. I-15 NB Ramps &	WBR	60	0	0	-	-
Mira Mesa Blvd	NBR	496	138	117	-	-
	WBL	280	291	339	12	59
31. Black Mountain	WBR	240	0	77	-	-
Rd & Mercy Rd	NBL	370	59	50	-	-
	SBL	430	390	242	-	-
	EBL	550	400	561	-	11
32. Camino Santa Fe	WBL	330	14	43	-	-
& Miramar Rd	NBL	75	33	82	-	7
	SBL	270	71	120	-	-
33. Commerce Ave &	EBL	350	92	90	-	-
Miramar Rd	WBL	465	106	77	-	-
	SBR	180	5	32	-	-
34. Production Ave &	EBL	250	115	96	-	-
Miramar Rd	SBR	65	26	20	-	-
35. Distribution Ave & Miramar Rd	EBL	75	104	145	29	70
36. Miramar Wy &	EBL	190	79	68	-	-
Miramar Rd	WBL	125	5	45	-	-
	NBL	45	0	94	-	49
	EBL	150	258	163	108	13
37. Carroll Canyon	WBL	100	1	12	-	-
Rd & Miramar Rd	WBR	315	0	27	-	-
	SBL	380	141	374	-	-
38. Alesmith Ct / Empire St & Miramar Rd	pire St & Miramar EBL		49	21	-	-
	EBL	190	208	183	18	-
39. Dowdy Dr &	WBL	110	2	14	-	-
Miramar Rd	SBL	250	157	270	-	20
40. Cabot Dr &	EBL	130	98	187	-	57
Miramar Rd	WBL	100	6	40	-	-

Intersection	Movement	Pocket Length	95% Queue Length (AM)	95% Queue Length (PM)	Excess Queue (AM) (ft)	Excess Queue (PM) (ft)
	SBL	170	121	173	-	3
	EBL	300	98	254	-	-
41. Camino Ruiz & Miramar Rd	WBR	310	0	8	-	-
	SBL	400	447	314	47	-
	EBL	200	31	57	-	-
42. Clayton	EBR	350	31	33	-	-
Dr/Mitscher Wy & Miramar Rd	WBL	375	111	103	-	-
	NBL	400	171	327	-	-
	EBL	290	77	134	-	-
43. Black Mountain	WBL	50	0	21	-	-
Rd & Miramar Rd	SBL	300	85	355	-	55
	SBR	300	26	36	-	-
	EBL	175	62	65	-	-
	EBR	410	89	199	-	-
44. Kearny Villa Rd & Miramar Rd	WBL	135	23	86	-	-
	NBL	190	562	325	372	135
	SBL	210	98	232	-	22
45. I-15 SB Ramps & Miramar Rd	SBL	500	101	23	-	-
	EBR	225	35	82	-	-
46. I-15 NB Ramps &	WBR	250	27	21	-	-
Miramar Rd	NBL	580	228	190	-	-
	NBR	580	59	151	-	-
	EBL	175	132	416	-	241
	EBR	240	26	128	-	-
	WBL	85	97	139	12	54
47. Camino Santa Fe & Carroll Rd	NBL	200	467	183	267	-
a Garroli Ru	NBR	100	16	32	-	-
	SBL	225	176	134	-	-
	SBR	310	157	24	-	-
	WBT/R	280	456	76	176	-
48. Camino Santa Fe & Flanders Dr	NBL	250	115	153	-	-
& Flanders DI	SBL	225	94	463	-	238
49. Camino Ruiz &	EBL	245	11	10	-	-
Carroll Canyon Rd	NBL	370	86	26	-	-
50 0 · - · ·	WBT/L	140	153	88	13	-
50. Camino Ruiz &	NBL	130	10	28	-	-
Activity Rd	SBL	170	228	1232	58	1062
51. I-805 SB Off-	EBR	180	31	19	-	-
Ramp/Carroll	WBL	350	30	52	-	-
Canyon Rd &	NBL	245	37	59	-	-
Sorrento Valley Rd	NBR	315	27	217	-	-

Intersection	Movement	Pocket Length	95% Queue Length (AM)	95% Queue Length (PM)	Excess Queue (AM) (ft)	Excess Queue (PM) (ft)
52. Vista Sorrento Pkwy & Mira Mesa Blvd	EBL	350	155	52	-	-
53. Vista Sorrento	WBL	310	60	231	-	-
Pkwy & Lusk Blvd	SBL	200	234	50	34	-
54. Pacific Center	EBL	250	148	22	-	-
Blvd & Lusk Blvd	WBL	130	35	10	-	-
EE Coronton Dd 9	EBL	170	21	14	-	-
55. Scranton Rd & Carroll Canyon Rd	WBR	130	17	53	-	-
Carroli Carryon Nu	SBL	90	57	59	-	-
56. Pacific Heights Blvd & Carroll Canyon Rd	EBL	125	238	96	113	-
	EBL	155	140	79	-	-
	EBT/R	155	73	72	-	-
57. Lusk Blvd &	WBL	150	46	57	-	-
Barnes Canyon Rd	NBL	120	56	33	-	-
	NBR	245	22	26	-	-
	SBL	145	81	85	-	-
	EBL	190	39	31	-	-
58. Pacific Heights	EBR	270	3	15	-	-
Blvd & Pacific Center Blvd	WBL	220	23	106	-	-
Divu	NBL	90	222	60	132	-
59. Pacific Mesa	EBL	150	11	23	-	-
Blvd & Pacific Center	WBL	150	76	313	-	163
Blvd	NBL	175	198	40	23	-
60. Business Access Rd & Carroll Canyon Rd	EBL	175	18	7	-	-
61. Scranton Rd & Mira Sorrento Pl	NBL	110	83	332	-	222
62. Youngstown Wy & Carroll Canyon Rd	EBL	230	19	21	-	-
63. Black Mountain	WBL	165	45	41	-	-
Rd & Westview Pkwy	NBL	265	6	7	-	-
	SBL	250	214	324	-	74
	EBL 200 819 1319		619	1119		
64. Black Mountain			76	20	-	
Rd & Capricorn Wy	NBL	260	216	240	-	-
	SBL	270	91	79	-	-
65. Black Mountain	WBL	195	98	48	-	-
Rd & Galvin Ave	NBL	145	3	3	-	-
	SBL	250	76	56	-	-

			95%	95%	Excess	Excess
Intersection	Movement	Pocket Length	Queue Length (AM)	Queue Length (PM)	Queue (AM) (ft)	Queue (PM) (ft)
	EBL	160	(A IVI) 131	465		305
	EBR	85	33	403 50	-	303
	WBL	75	36	79	-	- 4
66. Black Mountain Rd & Gemini Ave	WBL/R	75	17	30	-	4
Ru & Gemini Ave	NBL	150	103	158	-	- 8
	SBL	130	51	79	-	0
	EBL	90	121	235	- 31	- 145
	WBL	285	121	153	31	145
	WBR	340	42	34	-	-
67. Black Mountain					-	-
Rd & Hillery Dr	NBL	210	355	310	145	100
	NBR	135	152	370	17	235
	SBL	210	292	411	82	201
68. Black Mountain Rd & Miramar	WBL	170	42	116		-
College	SBL	160	271	297	111	137
	EBL	145	234	316	89	171
69. Black Mountain	WBL	145	88	64	-	-
Rd & Gold Coast Dr	NBL	310	422	218	112	-
	SBL	210	287	229	77	19
	WBL	400	345	109	-	-
70. Black Mountain	WBR	135	151	198	16	63
Rd & Carroll Canyon Rd	NBL	185	23	30	-	-
r d	SBL	310	203	244	-	-
74.14	EBL	145	26	23	-	-
71. Maya Linda Rd & Carroll Canyon Rd	WBL	60	116	72	56	12
Carroll Carryon Ru	SBL	55	310	126	255	71
	WBL	105	119	35	14	-
72. Black Mountain	NBL	275	23	14	-	-
Rd & Maya Linda Rd	SBL	175	16	60	-	-
	EBL	220	95	550	-	330
73. Black Mountain	WBL	70	118	129	48	59
Rd/Kearny Villa Rd &	NBL	180	247	65	67	-
Black Mountain Rd/Carroll Centre Rd	SBL	220	94	58	-	-
	SBR	250	1160	37	910	-
74. Kearny Mesa Rd & Kearny Villa Rd	-	-			-	-
	EBL	120	167	884	47	764
75. Black Mountain	NBL	155	235	154	80	-
Rd & Activity Rd	SBL	120	25	9	-	-

Intersection	Movement	Pocket Length	95% Queue Length (AM)	95% Queue Length (PM)	Excess Queue (AM) (ft)	Excess Queue (PM) (ft)
	WBR	205	46	17	-	-
76. Westview Pkwy	NBL	305	83	47	-	-
& Mira Lee Wy	NBR	325	41	83	-	-
	SBL	165	51	114	-	-
77. Westview Pkwy & Galvin Ave	NBL	165	185	130	20	-
78. I-15 SB Ramps & Carroll Canyon Rd	WBL	115	98	139	-	24
70 1 15 ND Dompo 9	EBL	125	107	380	-	255
79. I-15 NB Ramps & Carroll Canyon Rd	NBL	365	330	218	-	-
Carron Carryon Nd	NBR	165	117	94	-	-
80. Kearny Mesa Rd	EBL	160	63	47	-	-
& Miramar Rd	WBL	170	23	91	-	-
81. Camino Santa Fe	EBL	265	73	402	-	137
& Top Gun St	NBL	270	177	106	-	-
	EBL	280	17	111	-	-
82. Camino Santa Fe	EBR	375	0	18	-	-
& Miratech Dr	NBL	270	24	10	-	-
83 Camino Santa Fe	EBL	270	3	13	-	-
& Summers Ridge	Camino Santa Fe EBL 270 3 13 - Summers Ridge EBR 230 0 5 - Rd NBL 245 41 11 -		-	-		
-	NBL	245	41	11	-	-
	WBL	290	146	217	-	-
84. Camino Santa Fe	NBL	185	36	17	-	-
& Trade St	SBL	200	155	114	-	-
85. Nancy Ridge Dr	WBL	75	12	6	-	-
& Carroll Canyon Rd	NBL	80	46	110	-	30
86. Rehco Rd &	EBL	110	27	7	-	-
Carroll Rd	WBL	150	23	12	-	-
	WBR	100	0	3	-	-
87. Carroll Rd &	NBL	275	8	5	-	-
Kenamar Dr	SBL	130	42	43	-	-
	EBR	70	26	20	-	-
88. Camino Ruiz &	WBR	130	54	37	-	-
Teresa Dr/Capricorn	NBL	140	39	73	-	-
Wy	SBL	140	77	302	-	162
	EBL	115	340	139	225	24
89. Camino Ruiz &	WBL	215	235	113	20	-
Gold Coast Dr	NBL	130	99	109	-	-
	SBL	100	96	281	-	181
	EBR	130	34	41	-	-
90. Westview Pkwy	WBL	100	58	40	-	-
& Capricorn Wy	NBL	270	142	167	_	-
	SBL	140	8	107	-	-

Intersection	Movement	Pocket Length	95% Queue Length (AM)	95% Queue Length (PM)	Excess Queue (AM) (ft)	Excess Queue (PM) (ft)
91. Camino Ruiz &	NBL	275	8	10	-	-
Aquarius Dr	SBL	180	18	450	-	270
92. Pacific Heights	EBL	185	137	55	-	-
Blvd & Barnes	NBL	230	140	71	-	-
Canyon Rd	SBL	150	16	42	-	-

4.4.7 VEHICULAR QUALITY – FREEWAY LEVEL OF SERVICE

I-805 and I-15 border to the Mira Mesa community on the west and east sides, respectively, providing local and regional mobility. A description of each freeway is provided within the Mira Mesa study area context, followed by an operational V/C analysis of freeway segments.

Interstate 805

Interstate 805 (I-805) is a north-south facility that splits from Interstate 5 (I-5) in Sorrento Valley and runs parallel to I-5 to just north of the US-Mexico International Border, where the freeways merge back together. Within the Mira Mesa community study area, a majority of the I-805 segments carry four mainline lanes in each direction with on- and off-ramps for local access at Miramar Road and Mira Mesa Boulevard/Sorrento Valley Road. The I-805 gives access to State Route 56 (SR-56) to the north and State Route 163 (SR-163) to the south on the community.

Interstate 15

Interstate 15 (I-15) is a north-south facility that runs along the eastern border of the Mira Mesa study area. I-15 extends north from San Diego County through Riverside County then reaching the US-Canada International Border in Montana, passing through the states of Nevada Utah and Idaho. The majority of I-15 has six mainline lanes in each direction as well as two dynamic High-Occupancy Vehicle (HOV) lanes in each direction. I-15 provides access to SR-56 to the north, SR-163 and SR-52 in the south. Within the vicinity of the study area, there are four interchanges at Mercy Road, Mira Mesa Boulevard, Carroll Canyon Road, and Miramar Road.

Table 4-33 presents freeway characteristics and the level of service analysis results for mainline segments within the vicinity of the Mira Mesa community. V/C, density, and LOS values were calculated along the mainline freeway segments, excluding weave, diverge and merge movements. Volume data was obtained from Caltrans Traffic Volumes on California State Highways (2017). Peak Hour volume freeway information can be found in **Appendix H**. Auxiliary lanes and HOV lanes were not included in the number of lanes on a basic freeway segment. Instead the auxiliary lanes were included in the weave analysis.

In general, each of the freeway segments are operating under unsatisfactory conditions with a LOS E or F in either or both of the AM or PM peak hours in at least one direction. Based on the analysis, northbound I-805 and southbound I-15 are more heavily utilized during the AM peak, while southbound I-805 and both direction of I-15 are more heavily utilized during the PM peak. The worst congestion occurs on the southbound portion of I-805 between Sorrento Valley Boulevard and Mira Mesa Boulevard, where there are only three general purpose travel lanes.

Figure 4-50 and **Figure 4-51** present the freeway LOS results for the mainline, diverge, merge and weave segments during the AM and PM peak periods, respectively.

Freeway	Direction	Segment	ADT ^(a)	# of Lanes	Capacit y ^(b)	D ^(c)	K ^(d)	HV ^(e)	Volum e	V/C	Density	LOS
		•		A	Peak Hou	ır	·					
		Between Miramar Way and Miramar Road	304,000	6	14,400	57.1%	7.9%	4%	10,241	0.71	30.8	D
		Between Miramar Road and Carroll Canyon Road	287,000	6	14,400	57.1%	7.7%	4%	12,890	0.90	48.5	F
	RB	Between Carroll Canyon Road to Mira Mesa Boulevard	277,000	5	12,000	57.6%	7.9%	4%	12,584	1.05	79.7	F
I-15		Between Mira Mesa Boulevard and Mercy Road	268,000	6	12,000	57.6%	7.9%	4%	12,175	1.01	70.1	F
		Between Mercy Road and Mira Mesa	268,000	6	12,000	57.6%	7.9%	4%	8,970	0.75	33.8	D
	SB	Between Mira Mesa Boulevard and Carroll Canyon Road	277,000	6	14,400	57.6%	7.9%	4%	9,271	0.64	27.0	D
	Ø	Between Carroll Canyon Road and Miramar Road	287,000	6	14,400	57.1%	7.9%	4%	9,668	0.67	28.6	D
		Between Miramar Road and Miramar Way	304,000	7	16,800	57.1%	7.9%	4%	13,653	0.81	38.7	E
		Between Nobel Drive and Miramar Road	186,000	4	9,600	65.5%	7.0%	6%	8,497	0.89	49.3	F
I-805	NB	Between Miramar Road and Mira Mesa Boulevard	185,000	4	9,600	65.5%	7.0%	6%	8,452	0.88	48.6	F
		Between Mira Mesa Boulevard and Sorrento Valley Road	164,000	4	9,600	61.6%	7.3%	6%	4,451	0.46	23.7	с

Table 4-33 Existing Freeway Mainline Operations Analysis

		Between Sorrento							1			1
		Valley Road and Mira	164,000	3	7,200	61.6%	7.3%	6%	7,346	1.02	82.8	F
		Mesa Boulevard	104,000	5	7,200	01.070	1.570	0 /0	7,540	1.02	02.0	1
		Between Mira Mesa										
	SB	Boulevard and Miramar	185,000	4	9,600	65.5%	7.0%	6%	4,461	0.46	23.7	с
		Road	,					• / •	.,			
		Between Miramar Road	100.000	4	0.000	CE E0/	7.0%	6%	4.400	0.47	00.7	с
		and Nobel Drive	186,000	4	9,600	65.5%	7.0%	6%	4,486	0.47	23.7	
		- ·		PI	M Peak Hou	ır						
		Between Miramar Way	304,000	6	14,400	57.1%	7.9%	4%	12,186	0.85	42.0	E
		and Miramar Road	004,000	Ū	14,400	01.170	1.070	770	12,100	0.00		
		Between Miramar Road										
		and Carroll Canyon	287,000	6	14,400	57.1%	7.7%	4%	10,480	0.73	32.3	D
	~	Road										
	NB	Between Carroll			10.000		7.00/	40/	40.000		40.4	_
		Canyon Road to Mira	277,000	5	12,000	57.6%	7.9%	4%	10,238	0.85	43.4	E
		Mesa Boulevard Between Mira Mesa										
		Between Mira Mesa Boulevard and Mercy	268,000	6	12,000	57.6%	7.9%	4%	9,906	0.83	40.5	E
S		Road	200,000	0	12,000	57.070	1.970	4 /0	9,900	0.05	40.5	
I-15		Between Mercy Road										
		and Mira Mesa	268,000	6	12,000	57.6%	7.9%	4%	10,918	0.91	50.5	F
		Between Mira Mesa										
		Boulevard and Carroll	277,000	6	14,400	57.6%	7.9%	4%	11,284	0.78	36.7	E
	m	Canyon Road										
	SB	Between Carroll										
		Canyon Road and	287,000	6	14,400	57.1%	7.9%	4%	11,504	0.80	38.0	E
		Miramar Road		W					ļ			
		Between Miramar Road	304,000	7	16,800	57.1%	7.9%	4%	11,101	0.66	27.7	D
		and Miramar Way	001,000	•	10,000	51.170		170		0.00	<u></u>	
I-805	R	Between Nobel Drive	186,000	4	9,600	65.5%	7.0%	6%	5,600	0.58	24.3	С
I-8	z	and Miramar Road	100,000	4	9,000	00.070	1.070	0 /0	5,000	0.58	24.5	

	Between Miramar Road and Mira Mesa	185,000	4	9,600	65.5%	7.0%	6%	5,570	0.58	24.1	с
	Boulevard										
	Between Mira Mesa										
	Boulevard and Sorrento	164,000	4	9,600	61.6%	7.3%	6%	4,451	0.46	23.7	C
	Valley Road										
	Between Sorrento										
	Valley Road and Mira	164,000	3	7,200	61.6%	7.3%	6%	6,930	0.96	66.2	F
	Mesa Boulevard										
SB	Between Mira Mesa										
S	Boulevard and Miramar	185,000	4	9,600	65.5%	7.0%	6%	8,767	0.91	53.4	F
	Road										
	Between Miramar Road	186,000	4	9,600	65.5%	7.0%	6%	8,815	0.92	54.2	F
	and Nobel Drive	100,000		0,000	00.070	1.070	070	0,010	0.02	04.2	





Existing Freeway Level of Service (AM Peak)



Existing Freeway Level of Service (PM Peak)

4.4.8 VEHICULAR QUALITY – FREEWAY RAMP METERING ANALYSIS

Ramp meter analysis was conducted at all freeway ramp locations where metering is in place for either the AM or PM peak hours. Ramp meter rates were obtained from Caltrans District 11 and are provided in **Appendix H. Table 4-34** presents the ramp metering analysis results for these ramp meter locations. As shown in the table, no ramp shows a delay beyond 15 minutes. Most ramps are able to use the most restrictive ramp meter; only five locations were modified from the most restrictive rate to minimize queues at the ramp:

- Mira Mesa Boulevard westbound to I-15 Southbound (AM Peak)
- Mira Mesa Boulevard eastbound to I-15 Southbound (AM Peak)
- Miramar Road eastbound to I-805 Northbound (AM and PM Peaks)
- Mercy Road to I-15 Southbound
- Mercy Road to I-15 Northbound

Table 4-34 Existing Ramp Meter Analysis

Location			e		e ele	es er	Existing Conditions				
Freeway	Segment	Direction	Lane Type	Total Ramp Volume	Meter Rate Seconds/Cycle	Total Vehicles Serviced per hour/lane	Excess Demand (veh/hr)	Delay (min)	Queue (ft)		
	AM Peak Hour										
	Mercy Road	SB	2 GP 1 HOV	1400	560*	366 183	0	0	0		
	Mira Mesa Boulevard	WB to SB	1 GP 1 HOV	858	686*	686 172	0 3	0 3	10 3		
I-15		EB to SB	2 GP 1 HOV	1589	636*	636 318	0	0	0		
	Carroll Canyon Road	SB	2 GP 0 HOV	720	542	360 0	0	0	10 0		
	Miramar Road	WB to SB	2 GP 0 HOV	846	727	423 0	0	0	0		
		EB to SB	2 GP 1 HOV	555	523	222 111	0	0	0		
I-805	Miramar Road	EB to NB	1 GP 1 HOV	802	744*	642 160	0	0 0	0		
				PM Pea	ak Hour						
	Mercy Road	NB	2 GP 1 HOV	1112	460*	445 222	0 0	0 0	0 0		
		SB	2 GP 1 HOV	1195	480*	478 239	0	0	0		
		EB to NB	2 GP 0 HOV	1186	726	593 0	0	0 0	0		
	Mira Mesa Boulevard	WB to NB	1 GP 1 HOV	549	576	439 110	0 2	0 2	0 2		
I-15		WB to SB	1 GP 1 HOV	374	526	299 75	0	0	0		
<u> </u>		EB to SB	2 GP 1 HOV	838	442	335 168	0	0	0		
	Carroll Canyon Road	NB	1 GP 1 HOV	709	530	567 142	37 1	4	930 1		
		SB	2 GP 0 HOV	715	492	358 0	0	0 1	0 1		
	Miramar Road	EB to NB	2 GP	894	432	447	15	2	375		
			0 HOV			0	2	0	0		

						-		-	
		WB to	1 GP	116	271	116	0	0	0
		NB	0 HOV	110	2/1	0	0	0	0
		WB to	2 GP	705	770	363	0	0	0
		SB	0 HOV	725	778	0	0	0	0
		EB to	2 GP	1424	559	570	11	1	265
		SB	1 HOV	1424	559	285	1	1	1
	Mira Sorrento	NB	2 GP			606	0	0	0
	Valley Place/Vista Sorrento Parkway	SB	1 HOV 1516	756	303	0	0	0	
	Sorrento Valley Road	WB to	3 GP	1267	900	422	0	0	0
		SB	0 HOV			0	0	0	0
		EB to	2 GP	1063	752	425	0	0	0
I-805		SB	1 HOV	1005		213	0	0	0
<u> </u>	Miramar Road	EB to	1 GP	1374	996*	1099	103	6	2580
		NB	1 HOV			275	0	0	0
		WB to	1 GP	804	446	357	0	0	0
		NB	1 HOV			89	0	0	0
		WB to	1 GP	640	704	512	0	0	0
		SB	1 HOV			128	1	1	1
		EB to	2 GP	1016	593	406	0	0	0
		SB	1 HOV			203	0	0	0
Notoo:									

Notes:

(a) The ramp meter rate represents the most restrictive rate obtained from Caltrans unless marked with an *. These rates may not result in queue lengths that reflect field observations.

* Rate was adjusted from most restrictive to minimize queues at the ramp

(b) Volumes from I-805 @ Miramar Road interchange were taken from the University CPU existing conditions report turning movement volumes

(c) HOV lanes were assumed to have 20% of total traffic

(d) Delays exceeding 15-minutes are shown in **Bold**.

4.4.9 VEHICLE CONNECTIVITY

VMT changes between existing and proposed land uses will be evaluated in the future conditions evaluations.

4.5 PARKING

Parking within the Mira Mesa community consists of public on-street parking, private off-street parking for local businesses and residents, and public parking lots.

Public on-street parking is prohibited along all or sections of the following corridors:

- Mira Mesa Boulevard .
- Miramar Road
- Carroll Road Camino Ruiz
- Mercy Road

Westview Parkway

Black Mountain Road Sorrento Valley

Boulevard

•

- Camino Santa Fe Vista Sorrento •
- Parkway

To determine relative parking utilization where on-street parking is permitted in the existing condition, a "drive-by windshield" parking occupancy survey was conducted over three time periods (AM, midday, and PM) along the primary study roadways. Figure 4-52, Figure 4-53, and Figure 4-54 display the parking occupancy survey results for the AM, mid-day, and PM peak hours, respectively.

Parking utilization was observed to be 85% or greater in the areas surrounding employment centers along Pacific Center Boulevard, Pacific Heights Boulevard, Pacific Mesa Boulevard, Scranton Road, Carroll Road, Activity Road and Black Mountain Road, especially in the mid-day peak hour. Other roadways with higher parking utilization include Maurader Way, Westview Parkway, and Galvin Avenue, as well as sections along Camino Ruiz. These roadway segments surround shopping centers, schools and parks, that may not have sufficient parking facilities leading to overflow on-street parking. In general, parking demand was greater during the mid-day and PM peak hours. A majority of the parking segments that front residential land uses, such as Montongo Street and Camino Ruiz, are generally less than 70% occupied during the three peak periods.

Detailed parking utilization data is summarized in Appendix I.



Parking Utilization (AM Peak)



Parking Utilization (Mid-Day Peak)



Parking Utilization (PM Peak)

4.6 INTELLIGENT TRANSPORTATION SYSTEMS

Use of Intelligent Transportation Systems (ITS) can provide many benefits to a mobility network, including improving travel time, providing transit bypass methods, helping relay valuable traffic-related information to vehicular and non-vehicular users, and providing guidance to key destinations.

The 2008 City of San Diego General Plan Mobility Element identifies the following goals for integrating ITS into the mobility network:

- A transportation system which operated efficiently, saves energy, and reduces negative environmental impacts.
- A safe transportation system.
- A transportation system that effectively uses appropriate technologies.

In 2014, the City of San Diego completed the Traffic Signal Communication Master Plan as a means to modernize the traffic signal system. The resulting improved coordination will increase public safety, shorten commutes, reduce greenhouse gas emissions, and increase mobility at intersections for all modes of travel. The Traffic Signal Communication Master Plan identified the following 5 intersections within Mira Mesa as having traffic signal communication gaps (signals without an existing communication line to connect with) that inhibit coordination:

- Miramar Road and Kearny Villa Road
- Miramar Road and Kearny Mesa Road
- Mercy Road and Alemania Road
- Mercy Road and Kika Court
- Carroll Road and Rehco Road

Adaptive Traffic Signal (ATS) Control technology adjusts the timing to accommodate varying traffic patterns. This technology improves travel time reliability by progressively moving vehicles through green lights, reduce congestion by creating smoother traffic flow along a corridor. The following corridors have adaptive traffic signal controllers:

- Lusk Boulevard Vista Sorrento Parkway to Mira Mesa Boulevard
- Mira Mesa Boulevard Scranton Road to Mira Mesa Mall Driveways

4.7 TRANSPORTATION DEMAND MANAGEMENT

Transportation Demand Management (TDM) are a collection of programs and strategies that reduce the need for vehicle trips. Proper use of TDM results in several benefits, including improved transportation network efficiencies, reduced greenhouse gas emissions, and more active lifestyles.

The 2008 City of San Diego General Plan Mobility Element identified the following TDM goals:

- Reduced single-occupant vehicle traffic on congested streets and freeways.
- Improved performance and efficiency of the street and freeway system by means other than roadway widening or construction.
- Expanded travel options and improved personal mobility.

The City of San Diego's TDM program specifically serves to improve mobility, reduce congestion and air pollution, and provide options for employees and residents to commute to and from work. Typical TDM strategies include promoting:

- Teleworking
- Alternative Work Schedules
- Walking
- Bicycling
- Carpooling
- Vanpooling
- Transit
- Car-Share
- Mixed-use Development
- Other Transportation Options

The City of San Diego collaborates with SANDAG to encourage participation in citywide and regional TDM measures due to the fact that commute trips often cross local jurisdictional boundaries. SANDAG administers the regional TDM program known as iCommute, which provides the following programs and services:

- Employer Services Program Free assistance to local business to help them develop and implement employee commuter benefit programs that lower costs, increase productivity, and help the environment.
- Vanpool Program SANDAG contracts with vanpool vendors that provide vehicles, maintenance, and insurance. SANDAG also provides up to a \$400 monthly subsidy to qualified vanpools.
- Guaranteed Ride Home (GRH) Serves as a safety net for commuters who carpool, vanpool, ride transit, walk, or bike to work three or more times per work. GRH provides a free Uber ride or 24-hour car rental up to three times per year in the event of a family emergency, unscheduled overtime, or being stranded from a carpool or vanpool.
- Bike Encouragement Program Supports bike commuting by providing Bike Month and Bike to Work Day events, and the San Diego Regional Bike Map. iCommute manages more than 800 bike lockers at more than 60 transit stations and Park & Ride lots throughout San Diego County.

- Walk, Ride, and Roll to School Education and outreach program to increase the number of students who walk, bike, skate, or ride a scooter to school.
- Carpool Match iCommute provides access to a database of commuters looking for a carpool match.
- Park & Ride Map Map identifying the location of approximately 90 Park & Ride lots in the San Diego Region and southern Riverside County.

The iCommute program markets its various offerings through a variety of promotional campaigns, such as Bike Month and Rideshare Month. The iCommute website (www.icommutesd.com) provides links to additional resources and information that encourage alternatives to single occupant vehicle commutes.

The City of San Diego's land development policies require new developments to provide sufficient bicycle parking, employee showers and lockers, carpool parking, pedestrian paths, and a display of alternative transportation information. The City's Mobility Management section also serves as a resource to assist employers and developers in identifying and pursuing opportunities to implement TDM measures.

As new development occurs in Mira Mesa, TDM strategies and policies provide an opportunity to change travel behavior and reduce reliance on the automobile. TDM should be used in context with the land use and be complimented with network changes to be most effective.

4.8 AIRPORTS, PASSENGER RAIL, AND GOODS MOVEMENT

In addition to the standard roadway network mobility, the San Diego region relies on airports, passenger rail service, and a network of maritime and surface transportation routes to facilitate the movement of people and goods. This section briefly touches on these types of mobility and how they relate to Mira Mesa.

Airports

The City of San Diego General Plan Mobility Element identifies the following goals for airports:

- An air transportation system that fosters economic growth.
- Adequate capacity to serve the forecasted passenger and cargo needs at existing airports.
- An air transportation system that is integrated with a multi-modal surface transportation system that efficiently moves people and goods.
- An international airport to serve the region's long-term air transportation and economic needs.

The San Diego International Airport at Lindbergh Field is about 18 miles from the Mira Mesa community. Trips to and from the airport are primarily done using personal vehicles as there are limited transit options and is too far to walk or bike. The San Diego International Airport is the one of the busiest single-runway commercial service airports in the nation. In 2018, the San Diego International Airport served a record 24 million passengers, a 10 percent increase over the previous year. The airport is operated by the San Diego County Regional Airport Authority (SDRAA) and continues to grow its passenger use. Major plans/projects prepared by SDRAA will influence future access to and from the airport, including Destination Lindberg and the San Diego International Airport Master Plan.

Destination Lindbergh is a long-range planning effort to guide the ultimate build-out of the San Diego International Airport. The plan proposes an expanded configuration of the facility that attempts to minimize airport-related traffic impacts to adjacent communities, and improve intermodal access to the airport. The plan recommends improvements to the local and regional roadway networks providing access to the airport, as well as a new transit route to serve the airport. The Intermodal Transit Center (ITC) is proposed as an intermodal hub to facilitate airport access without the need for driving single occupant vehicles. The plans also indicate that existing trolley lines, the Coaster, Amtrak, new express bus routes, local bus routes, and the planned California High Speed Rail system will all be served by the ITC.

The current San Diego International Airport Master Plan was adopted in 2008 to serve as the future blueprint for the airport's 661 acres. The Master Plan provides guidance for the airport to meet anticipated growth for passengers, cargo and operations. Additionally, it outlines local roadway improvements to expand vehicular capacity and enhance airport access. The SDRAA is currently in the process of updating the Airport Master Plan.

Marine Corps Air Station (MCAS) Miramar is adjacent to the south of the community along Miramar Road. The MCAS Miramar Airport Master Plan area encompasses 23,065 acres, with over 15,000 service members and their families serving this location. The Master Plan identifies nearly 11 million square feet of new facility development capacity using the infill development model on 672 acres of developable land, across 4 districts. The MCAS Miramar Airport Land Use Compatibility Plan (ALUCP) provides for the orderly growth of the airport and the area surrounding the airport and safeguards the general welfare of the

inhabitants within the vicinity of the airport and the public in general. The ALUCP identifies airport land use compatibility policies and standards related to four airport-related factors: noise, safety, airspace protection and overflight.

Passenger Rail

The City of San Diego General Plan Mobility Element has identified "improving rail travel opportunities" as a goal. Any proposed enhancements to passenger rail service should help achieve this goal.

The COASTER is operated by the North County Transit District (NCTD), and runs in a north-south direction, providing service to eight stations between Santa Fe Depot and the Oceanside Transit Center. One of the stops is at the Sorrento Valley Station which is adjacent to the Mira Mesa community. The Southbound COASTER stops at the Sorrento Valley Station approximately every 30 minutes in the morning peak and approximately every 90 minutes in the afternoon peak with a break in the early afternoon. Conversely, the Northbound COASTER stops at the Sorrento Valley Station Valley Station direction approximately every 90 minutes in the afternoon peak with a break in the early afternoon. Conversely, the Northbound COASTER stops at the Sorrento Valley Station direction approximately every 90 minutes in the morning peak and approximately every 30 minutes in the afternoon with a break in the late morning.

This schedule reflects ridership trends of people primarily using it to travel to and from places north of Mira Mesa. The COASTER connects to four bus routes at the Sorrento Valley Station to help get to ultimate destinations. The Sorrento Valley Station is not within walkable or reasonable bicycle distance of many uses in Mira Mesa. Relocating the Sorrento Valley Station to provide more access options, such as pedestrian and bicycle first- and last-mile improvements has been recommended by SANDAG in the Regional Transportation Plan and will be considered in the Mira Mesa Community Plan Update.

The Pacific Surfliner is operated by Amtrak and runs in a north-south direction between downtown San Diego and San Luis Obispo via the greater Los Angeles area. The Pacific Surfliner stops at the Old Town Transit Center, Santa Fe Depot (downtown San Diego), and Solana Beach. The nearest Pacific Surfliner stop for access to Mira Mesa is at Solana Beach.

Goods Movement

Existing goods movement in San Diego is supported by infrastructure consisting of roadways, railways, maritime facilities and airports. The City of San Diego General Plan identifies the following policies related to goods movement:

- Support infrastructure improvements and use of emerging technologies that will facilitate the clearance, timely movement, and security of domestic and international trade, including facilities for the efficient intermodal transfer of goods between truck, rail, marine, and air transportation modes.
- Preserve property for planned roadway and railroad rights-of-way, marine and air terminals, and other needed transportation facilities.
- Support measures to alleviate on-street truck parking and staging and peak period truck usage on freeways. These measures may include, but are not limited to: designating off-street truck staging areas; shared use of park-and-ride lots; and shared use of other public and private parking lots where appropriate.

- Implement measures to minimize the impacts of truck traffic, deliveries, and staging in residential and mixed-use neighborhoods.
- Support alternatives to transporting hazardous materials by truck.

Truck Freight

The majority of goods in the San Diego region are transported by truck through the regional freeway network and local roadways. While the City of San Diego does not have a system of designated truck routes, regional truck access to Mira Mesa is provided via the adjacent I-5 and I-805 freeways. Truck access is necessary throughout the community due to the dispersal of commercial and industrial designated land uses. Industrial zoning in Mira Mesa exists primarily along the north side of Miramar Road and are currently buffered from residential and retail areas by Carroll Canyon. Miramar Road and Mira Mesa Boulevard are the primary east-west truck routes in the community. Camino Ruiz is the primary north-south truck route.

Table 4-35 presents the percent of trucks on local roadways within the study community.

Roadway SegmentTruck %Sorrento Valley BlvdI-805 to Camino Santa Fe3.6%Calle Cristobal4.4%Mira Mesa Blvd4.4%I-805 to Pacific Heights Blvd2.1%Pacific Heights Blvd to Camino Santa Fe4.0%Camino Santa Fe to Parkdale Ave5.8%Camino Ruiz to Black Mountain Rd8.3%Black Mountain Rd to Westview Pkwy2.2%Westview Pkwy to I-152.9%Carroll Canyon Rd5.8%Carnon Santa Fe to Carroll Rd6.3%Carroll Canyon Rd6.5%Black Mountain Rd to I-156.7%Carroll Rd to Black Mountain Rd6.5%Black Mountain Rd to I-156.7%Carroll Rd to Black Mountain Rd1.6%Carroll Rd to Black Mountain Rd1.6%Carroll Rd to Miramar Rd1.9%Calle Cristobal to Mira Mesa Blvd6.1%Mira Mesa Blvd to Miramar Rd3.7%Black Mountain Rd3.0%								
I-805 to Camino Santa Fe3.6%Calle CristobalCamion Santa Fe to Camino Ruiz4.4%Mira Mesa BlvdI-805 to Pacific Heights Blvd2.1%Pacific Heights Blvd to Camino Santa Fe4.0%Camino Santa Fe to Parkdale Ave5.8%Camino Ruiz to Black Mountain Rd8.3%Black Mountain Rd to Westview Pkwy2.2%Westview Pkwy to I-152.9%Carroll Canyon RdScranton Rd to Nancy Ridge DrScranton Rd to Nancy Ridge Dr1.1%Miramar Rd6.3%Carroll Rd to Black Mountain Rd6.5%Black Mountain Rd to I-156.7%Carroll Rd to Black Mountain Rd1.6%Carroll Rd to Miramar Rd1.9%Carroll Rd to Miramar Rd3.7%Black Mountain Rd3.7%Black Mountain Rd3.7%Black Mountain Rd3.7%	Roadway Segment	Truck %						
Calle CristobalCamion Santa Fe to Camino Ruiz4.4%Mira Mesa Blvd1-805 to Pacific Heights Blvd2.1%Pacific Heights Blvd to Camino Santa Fe4.0%Camino Santa Fe to Parkdale Ave5.8%Camino Ruiz to Black Mountain Rd8.3%Black Mountain Rd to Westview Pkwy2.2%Westview Pkwy to I-152.9%Carroll Canyon Rd1.1%Scranton Rd to Nancy Ridge Dr1.1%Miramar Rd6.3%Carroll Rd to Black Mountain Rd6.5%Black Mountain Rd to I-156.7%Carroll Rd to Black Mountain Rd6.5%Black Mountain Rd to I-156.7%Camino Santa Fe2Sorrento Valley Blvd to Carroll Rd1.6%Carroll Rd to Miramar Rd1.9%Camino RuizCalle Cristobal to Mira Mesa Blvd6.1%Mira Mesa Blvd to Miramar Rd3.7%Black Mountain Rd3.7%Black Mountain Rd3.7%	Sorrento Valley Blvd							
Camion Santa Fe to Camino Ruiz4.4%Mira Mesa Blvd1.805 to Pacific Heights Blvd2.1%Pacific Heights Blvd to Camino Santa Fe4.0%Camino Santa Fe to Parkdale Ave5.8%Camino Ruiz to Black Mountain Rd8.3%Black Mountain Rd to Westview Pkwy2.2%Westview Pkwy to I-152.9%Carroll Canyon Rd1.1%Scranton Rd to Nancy Ridge Dr1.1%Miramar Rd6.3%Carroll Rd to Black Mountain Rd6.5%Black Mountain Rd to I-156.7%Carroll Rd to Black Mountain Rd1.6%Carroll Rd to Miramar Rd1.9%Canino Santa Fe2Sorrento Valley Blvd to Carroll Rd1.6%Carroll Rd to Miramar Rd3.7%Black Mountain Rd3.7%Black Mountain Rd3.7%Black Mountain Rd3.7%	I-805 to Camino Santa Fe	3.6%						
Mira Mesa BlvdI-805 to Pacific Heights Blvd to Camino Santa Fe2.1%Pacific Heights Blvd to Camino Santa Fe4.0%Camino Santa Fe to Parkdale Ave5.8%Camino Ruiz to Black Mountain Rd8.3%Black Mountain Rd to Westview Pkwy2.2%Westview Pkwy to I-152.9%Carroll Canyon Rd1.1%Scranton Rd to Nancy Ridge Dr1.1%Miramar Rd6.3%Carroll Rd to Black Mountain Rd6.5%Black Mountain Rd to I-156.7%Camino Santa Fe5Sorrento Valley Blvd to Carroll Rd1.6%Carroll Rd to Miramar Rd1.9%Camino RuizCalle Cristobal to Mira Mesa BlvdMira Mesa Blvd to Miramar Rd3.7%Black Mountain Rd3.7%Black Mountain Rd3.7%	Calle Cristobal	·						
I-805 to Pacific Heights Blvd2.1%Pacific Heights Blvd to Camino Santa Fe4.0%Camino Santa Fe to Parkdale Ave5.8%Camino Ruiz to Black Mountain Rd8.3%Black Mountain Rd to Westview Pkwy2.2%Westview Pkwy to I-152.9%Carroll Canyon Rd1.1%Scranton Rd to Nancy Ridge Dr1.1%Miramar Rd6.3%Carroll Rd to Black Mountain Rd6.5%Black Mountain Rd to I-156.7%Camino Santa Fe5.7%Sorrento Valley Blvd to Carroll Rd1.6%Carroll Rd to Miramar Rd1.9%Camino Ruiz6.1%Mira Mesa Blvd to Miramar Rd3.7%Black Mountain Rd3.7%	Camion Santa Fe to Camino Ruiz	4.4%						
Pacific Heights Blvd to Camino Santa Fe4.0%Camino Santa Fe to Parkdale Ave5.8%Camino Ruiz to Black Mountain Rd8.3%Black Mountain Rd to Westview Pkwy2.2%Westview Pkwy to I-152.9%Carroll Canyon Rd1.1%Scranton Rd to Nancy Ridge Dr1.1%Miramar Rd6.3%Carroll Rd to Black Mountain Rd6.5%Black Mountain Rd to I-156.7%Camino Santa Fe50rrento Valley Blvd to Carroll RdSorrento Valley Blvd to Carroll Rd1.6%Carroll Rd to Miramar Rd1.9%Camino Ruiz6.1%Black Mountain Rd6.1%Black Mountain Rd3.7%Black Mountain Rd3.7%	Mira Mesa Blvd	•						
Camino Santa Fe to Parkdale Ave5.8%Camino Ruiz to Black Mountain Rd8.3%Black Mountain Rd to Westview Pkwy2.2%Westview Pkwy to I-152.9%Carroll Canyon Rd1.1%Scranton Rd to Nancy Ridge Dr1.1%Miramar Rd6.3%Carroll Rd to Black Mountain Rd6.5%Black Mountain Rd to I-156.7%Camino Santa Fe50rrento Valley Blvd to Carroll RdSorrento Valley Blvd to Carroll Rd1.6%Carroll Rd to Miramar Rd1.9%Calle Cristobal to Mira Mesa Blvd6.1%Mira Mesa Blvd to Miramar Rd3.7%Black Mountain Rd3.7%	I-805 to Pacific Heights Blvd	2.1%						
Camino Ruiz to Black Mountain Rd8.3%Black Mountain Rd to Westview Pkwy2.2%Westview Pkwy to I-152.9%Carroll Canyon RdScranton Rd to Nancy Ridge Dr1.1%Miramar Rd6.3%Carroll Rd to Black Mountain Rd6.5%Black Mountain Rd to I-156.7%Camino Santa Fe5Sorrento Valley Blvd to Carroll Rd1.6%Carroll Rd to Miramar Rd1.9%Camino Ruiz6.1%Black Mountain Rd6.1%Black Mountain Rd3.7%Black Mountain Rd3.7%	Pacific Heights Blvd to Camino Santa Fe	4.0%						
Black Mountain Rd to Westview Pkwy2.2%Westview Pkwy to I-152.9%Carroll Canyon RdScranton Rd to Nancy Ridge Dr1.1%Miramar RdCamino Santa Fe to Carroll Rd6.3%Carroll Rd to Black Mountain Rd6.5%Black Mountain Rd to I-156.7%Camino Santa FeSorrento Valley Blvd to Carroll Rd1.6%Carroll Rd to Miramar Rd1.9%Camino RuizCalle Cristobal to Mira Mesa Blvd6.1%Black Mountain Rd3.7%Black Mountain Rd3.7%	Camino Santa Fe to Parkdale Ave	5.8%						
Westview Pkwy to I-152.9%Carroll Canyon Rd1.1%Scranton Rd to Nancy Ridge Dr1.1%Miramar Rd6.3%Camino Santa Fe to Carroll Rd6.3%Carroll Rd to Black Mountain Rd6.5%Black Mountain Rd to I-156.7%Camino Santa Fe5Sorrento Valley Blvd to Carroll Rd1.6%Carroll Rd to Miramar Rd1.9%Camino Ruiz6.1%Black Mountain Rd3.7%Black Mountain Rd3.7%	Camino Ruiz to Black Mountain Rd	8.3%						
Carroll Canyon RdScranton Rd to Nancy Ridge Dr1.1%Miramar Rd1.1%Camino Santa Fe to Carroll Rd6.3%Carroll Rd to Black Mountain Rd6.5%Black Mountain Rd to I-156.7%Camino Santa Fe1.6%Sorrento Valley Blvd to Carroll Rd1.6%Carroll Rd to Miramar Rd1.9%Calle Cristobal to Mira Mesa Blvd6.1%Mira Mesa Blvd to Miramar Rd3.7%Black Mountain Rd3.7%	Black Mountain Rd to Westview Pkwy	2.2%						
Scranton Rd to Nancy Ridge Dr1.1%Miramar RdCamino Santa Fe to Carroll Rd6.3%Carroll Rd to Black Mountain Rd6.5%Black Mountain Rd to I-156.7%Camino Santa FeSorrento Valley Blvd to Carroll Rd1.6%Carroll Rd to Miramar Rd1.9%Camino RuizCalle Cristobal to Mira Mesa Blvd6.1%Black Mountain Rd3.7%Black Mountain Rd1.9%	Westview Pkwy to I-15	2.9%						
Miramar RdCamino Santa Fe to Carroll Rd6.3%Carroll Rd to Black Mountain Rd6.5%Black Mountain Rd to I-156.7%Camino Santa FeSorrento Valley Blvd to Carroll Rd1.6%Carroll Rd to Miramar Rd1.9%Camino RuizCalle Cristobal to Mira Mesa Blvd6.1%Mira Mesa Blvd to Miramar Rd3.7%Black Mountain Rd	Carroll Canyon Rd							
Camino Santa Fe to Carroll Rd6.3%Carroll Rd to Black Mountain Rd6.5%Black Mountain Rd to I-156.7%Camino Santa Fe5Sorrento Valley Blvd to Carroll Rd1.6%Carroll Rd to Miramar Rd1.9%Camino RuizCalle Cristobal to Mira Mesa BlvdCalle Cristobal to Miramar Rd3.7%Black Mountain Rd3.7%	Scranton Rd to Nancy Ridge Dr	1.1%						
Carroll Rd to Black Mountain Rd6.5%Black Mountain Rd to I-156.7%Camino Santa FeSorrento Valley Blvd to Carroll Rd1.6%Carroll Rd to Miramar Rd1.9%Camino RuizCalle Cristobal to Mira Mesa Blvd6.1%Mira Mesa Blvd to Miramar Rd3.7%Black Mountain Rd	Miramar Rd	•						
Black Mountain Rd to I-156.7%Camino Santa FeSorrento Valley Blvd to Carroll Rd1.6%Carroll Rd to Miramar Rd1.9%Camino RuizCalle Cristobal to Mira Mesa Blvd6.1%Mira Mesa Blvd to Miramar Rd3.7%Black Mountain Rd	Camino Santa Fe to Carroll Rd	6.3%						
Camino Santa FeSorrento Valley Blvd to Carroll Rd1.6%Carroll Rd to Miramar Rd1.9%Camino RuizCalle Cristobal to Mira Mesa BlvdCalle Cristobal to Mira Mesa Blvd6.1%Mira Mesa Blvd to Miramar Rd3.7%Black Mountain Rd	Carroll Rd to Black Mountain Rd	6.5%						
Sorrento Valley Blvd to Carroll Rd1.6%Carroll Rd to Miramar Rd1.9%Camino RuizCalle Cristobal to Mira Mesa Blvd6.1%Mira Mesa Blvd to Miramar Rd3.7%Black Mountain Rd	Black Mountain Rd to I-15	6.7%						
Carroll Rd to Miramar Rd1.9%Camino RuizCalle Cristobal to Mira Mesa Blvd6.1%Mira Mesa Blvd to Miramar Rd3.7%Black Mountain Rd	Camino Santa Fe	•						
Camino RuizCalle Cristobal to Mira Mesa Blvd6.1%Mira Mesa Blvd to Miramar Rd3.7%Black Mountain Rd3.7%	Sorrento Valley Blvd to Carroll Rd	1.6%						
Calle Cristobal to Mira Mesa Blvd6.1%Mira Mesa Blvd to Miramar Rd3.7%Black Mountain Rd	Carroll Rd to Miramar Rd	1.9%						
Mira Mesa Blvd to Miramar Rd 3.7% Black Mountain Rd	Camino Ruiz							
Black Mountain Rd	Calle Cristobal to Mira Mesa Blvd	6.1%						
	Mira Mesa Blvd to Miramar Rd	3.7%						
Westview Pkwy to Miramar Rd 3.0%	Black Mountain Rd							
	Westview Pkwy to Miramar Rd	3.0%						

Table 4-35 Existing Roadway Segment Analysis

Rail Freight

Rail freight serves San Diego via the Los Angeles – San Diego – San Luis Obispo Rail Corridor (LOSSAN Corridor), which is one of the busiest rail corridors nationwide. The LOSSAN corridors follows the canyons along the western edge of the Mira Mesa community, with an at-grade crossing at Sorrento Valley Boulevard and grade separated crossings at I-805 and at Miramar Road near Camino Santa Fe.

Freight operations along the corridor are operated by the Burlington Northern Santa Fe Railway Company (BNSF). BNSF operates freight rail service along the same right-of-way as Amtrak and the Coaster passenger services. BNSF transports freight to points north and east of San Diego County, such as Los Angeles and Arizona. It also provides important rail connections to the south between the United States and Mexico.

Maritime Freight

The 10th Avenue Marine Terminal and the National City Marine Terminal, both located on the San Diego Bay, are the primary maritime ports serving San Diego and are far from the Mira Mesa community. Freight is then transported via truck, rail, and air throughout San Diego County and the rest of the United States.

Air Freight

Air freight transport companies such as FedEx, DHL Express and UPS operate out of the San Diego International Airport, which serves as the region's primary airport for air freight. Air freight is then transported via truck, rail, and/or maritime modes.

5 MOBILITY NEEDS AND FUTURE DIRECTION

This chapter provides a summary of pedestrian, bicycle, transit, and street and freeway mobility needs determined through the existing conditions analyses.

5.1 PEDESTRIAN

Nearly all trips involve a pedestrian connection from walking to/from a parked car to a building or simply walking to transit, a store, school, or employment. The surrounding environment can encourage, discourage, or dictate the length of walk trips depending on many different factors such as: sidewalks, trees for shading, lighting, interesting buildings or scenery to look at, other people outside, neighborhood destinations and a feeling of safety. Pedestrian environments that are inviting and land uses that promote interaction between pedestrian activities can help to increase walking as a means of transportation and recreation. Land use and street design recommendations that benefit pedestrians also contribute to the overall quality, vitality, and sense of community within a neighborhood.

Future improvements to the pedestrian environment in Mira Mesa should focus on areas where need is the greatest. Pedestrian areas for improvement identified in Mira Mesa include locations with high pedestrian activity and collisions, sidewalk connectivity issues, anticipated increases in pedestrian activity based on future land use, and high pedestrian priority as identified by the City of San Diego's Pedestrian Priority Model (PPM). Pedestrian opportunity and constraint areas are identified in **Figure 5-1**.

Safety

Facilitating the safe movement of pedestrians is key to increasing the propensity of walking in an area. Locations with three or more collisions involving pedestrians over a 5-year period are concentrated at the intersections of one of the community's major east-west roadways, Mira Mesa Boulevard. The following intersections each have 3 or more collisions between October 2012 and September 2017:

- Mira Mesa Boulevard & Westmore Road/Marbury Avenue
- Mira Mesa Boulevard & Westview Parkway
- Mira Mesa Boulevard & Black Mountain Road
- Camino Ruiz & Capricorn Way
- Black Mountain Road & Gemini Avenue
- Mira Mesa Boulevard & Mira Mesa Mall
- Mira Mesa Boulevard & Sequence Drive
- Camino Ruiz and Reagan Road/Marauder Way

These intersections are in the denser, central part of the community, with high pedestrian activity due to adjacency to retail, office, residential, and schools. Many of the intersections identified above have long crossing distances (90' - 155') and are heavily travelled by pedestrians and vehicles experiencing delay, making both pedestrians and motorists more aggressive in their decision-making.

Connectivity

Connectivity within the pedestrian network is important to facilitate the safe and efficient movement of pedestrians in an area. Missing sidewalks discourage walking trips and may cause pedestrians to take longer routes to get to their destinations. The majority of the Mira Mesa community has a complete sidewalk network, including a pedestrian bridge at the north intersection leg of Galvin Avenue and Black Mountain Road.

Missing sidewalk on the south side of Mira Mesa Boulevard between Scranton Road and Lusk Boulevard stands out as one missing sidewalk link that would benefit the community by connecting the employment area and commercial / retail destinations within the Sorrento Valley employment area.

Camino Ruiz between Carroll Canyon Road and Jade Coast Drive is currently missing sidewalk on both sides of the roadway. The east side provides an asphalt raised area that is not classified as sidewalk. Although this segment of Camino Ruiz cuts through undeveloped land, the lack of sidewalk still prevents connectivity between the industrial and residential areas in the southern portion of Mira Mesa and the residential areas south of Mira Mesa Boulevard. The missing sidewalks should be completed with future developments along the east and west sides of Camino Ruiz.

The south side of Miramar Road between Commerce Avenue and Kearny Mesa Road provides an asphalt raised area that is not classified as sidewalk but is utilized by pedestrians at transit stops and could benefit from upgrading the raised area to concrete sidewalk.

There are also several roadways with missing sidewalks within the industrial area on the south side of the community including Production Avenue, Distribution Avenue, Carroll Way, Trade Street, Dowdy Drive, Silverton Avenue, Cabot Drive, Arjons Drive, and Activity Road. Providing continuous sidewalk in this area could encourage longer walking trips and improve first-mile / last-mile connections for those using Bus Route 31 to access these destinations. Many local breweries are also located in this area and could benefit from sidewalks to encourage activity between neighboring breweries.

Pedestrian Activity

Current pedestrian activity is highest near the Mira Mesa Mall and Miramar College. Intersections along Mira Mesa Boulevard and Black Mountain Road in these areas experience high pedestrian activity.

Demand

Pedestrian priority areas were determined using the City's PPM. The model evaluates community characteristics including demographic data, traffic volumes and speed, pedestrian collisions, presence of street lighting, location of transit stations, and land uses such as residential, office, commercial/retail, schools, and parks. The model uses these factors to identify areas where both pedestrian demand and detractors are high, thereby indicating a need to focus resources in these locations.

The PPM identifies the areas surrounding the Miramar College Transit Station, as well as the area around the Mira Mesa Boulevard and Camino Ruiz intersection as having the highest pedestrian priority. These areas encompass Miramar College, several other elementary, middle and high schools, five community parks, Mira Mesa Market Center, Mira Mesa Mall, and several high-density housing complexes.

Quality

Based on the segment PEQE analysis, there is one high-quality pedestrian facility in the Mira Mesa community, the pedestrian bridge over Black Mountain Road on the north side of Galvin Avenue. Facilities along major roadways do not have a buffer between the travel lanes and the sidewalk, have obstructions in the 5-foot clear zone, and do not satisfy lighting requirements. Enhancements such as providing landscaped buffers, buffered bike lanes, or parking to increase the separation between travel lanes and the pedestrian, relocating obstructions outside of the 5-foot clear zone, and installing additional street lights along pedestrian facilities would improve the quality of these facilities.

Regarding the intersection PEQE anaysis, the community of Mira Mesa does not provide any curb extensions, pedestrian lead intervals, or raised crosswalks. Very few of the intersections studied contain "No Turn on Red" signs, enhanced pedestrian signs, or pedestrian countdown timers. Approximately one third of the intersections provide high visibility crosswalks and/or advanced limit lines, and less than half of the intersections have curb ramps that meet ADA requirements. Upgrading curb ramps to meet ADA standards, installing high-visibility crosswalks and advanced limit lines, or providing any of the pedestrian crossing enhancements discussed would improve the quality of these intersections.

Planned Pedestrian Improvements

The City's Pedestrian Master Plan – City-wide Implementation Framework Report (2006) established pedestrian route typologies to categorize sidewalks by function and environment. These typologies work to define the function which a route serves and establishes a hierarchy for the development of priority pedestrian improvements. The route type purpose, adjacent street classifications, and adjacent land uses are identified for each typology. The route typology assessment for the pedestrian study area identified only two pedestrian route types within the Mira Mesa community: connector and neighborhood streets.

Additionally, the Framework Report acknowledges there should be flexibility in the treatments and amenities for pedestrian facilities. **Figure 5-2** describes four treatment levels to consider for pedestrian facilities, including premium, enhanced, basic, and special use walkway improvements. Each feature is labeled as required, suggested, suggested if conditions or standards are met, or not applicable.

Districts, corridors, and connectors are the most typical pedestrian route types in communities; however, there are no district or corridor routes identified in the Mira Mesa community. The community has connectors, neighborhood, ancillary facilities (pedestrian bridge) and trails, which make this community unique and desirable for pedestrian travel.



FIGURE 5-1

Pedestrian Opportunity and Constraint Areas

TREATMENT LEVEL:	Treatment Level 1 "Premium" Walkway Improvements	Treatment Level 2 "Enhanced" Walkway Improvements	Treatment Level 3 "Basic" Walkway Improvements	Treatment Leve 4 "Special Use Walkway Improvements
Route Types Receiving These Treatment Levels (Unless Special Circumstances Exist*)	District Route Type / Special Pedestrian Zone	Corridor Route Type	Connector and Neighborhood Route Type	Path & Ancillary Route Types
*Special Circumstances that Warrant a Higher Treatment Level than Normal. Requirements in Each Column would Increase to the Column on its Left	Already Uses Highest Treatment Level	If within 1/4 mile of Transit/ School/ Ped. High Use/ Major Arterial	If within 1/4 mile of Transit/ School/ Maj. Commercial Facilities/ Maj. Arterials	Case-by-Case Basi
Provide Accessible Facilities Such As:				
1A) Curb ramps	!	ł	l.	?
2A) Audible/visual crosswalk signals	!	!	?	?
3A) Walkways & ramps free of damage or trip hazards	!	l	1	¥
4A) Pedestrian paths free of obstructions and barriers		!	!	v
5A) Sidewalks with limited driveways and minimal cross-slope	!	~	 ✓ 	<i>v</i>
6A) Re-grade slope of walkway to meet ADA / Title 24 standards	?	?	?	?
7A) Repair, slice or patch lifts on walk surfaces or reset utility boxes to be flush	?	?	?	?
Provide Safety Features Such As:		-		
1S) Median refuges (a safe place to stand in the street)	<u> </u>	v	-	-
28) Pedestrian popouts (curb / sidewalk extensions into street)	✓ !	v	-	-
3S) High visibility crosswalk striping 4S) Raised crosswalks or special paying materials to denote crosswalks	: /	<i>v</i>	-	? ?
55) Advance stop bars >10 feet from crosswalk			-	?
65) Radar Speed Monitor & Display	?	?	?	?
7S) Reduced curb radii	· · ·	· ·	· ·	-
88) Early pedestrian start at crossing signal (Lead Pedestrian Interval)	v	?	-	?
98) No Turn on Red at Intersection	?	?	?	?
108) Mid-block crosswalks with ped. flashers but no traffic control	-	-	v	-
11S) Automatic pedestrian detection & signal control		•	-	?
28) Mid-block crossing with signs, median or curb ext. & flashing lights in road	?	?	•	?
138) Mid-block crosswalks with ped. actuated traffic control device	<i></i>	?	•	-
14S) 1-Lane Mid-block with high contrast crossings, signs & center lane marker	?	?	<i>·</i>	?
158) Parkway planting for buffer between sidewalk and cars	!	!	!	?
168) On-street parking for buffer between sidewalk and cars		✓ 	✓ ✓	-
17S) Adequate levels of pedestrian lighting 18S) Various traffic calming measures	· · ·		· ·	-
198) Enforcement, education or encouragement solutions	?	?	?	?
208) Missing sidewalks added or provide adeq, walk width clear of obstructions	?	?	?	?
Improve Walkability by Providing:	•	•	•	-
1W) Above minimum walkway widths (> 5')	ł	v	?	?
2W) Trees that provide shade on walkways			· · · · · · · · · · · · · · · · · · ·	· ·
3W) Street furnishings for comfort and enjoyment	!	v	?	~
4W) Countdown display crosswalk signals	 ✓ 	?	?	-
5W) Traffic control for crossings such as traffic signals or "All way stops"	!	v	v	~
6W) Pedestrian scrambles (cross all directions of street)	?	•	-	?
Ensure Connectivity by Adding:				
1C) Missing sidewalk segments in areas where sidewalks mostly exist	!	!	1	~
2c) Missing sidewalks in areas where no sidewalks exist at all		¥	?	۲
3C) Connection pathways between streets		v	v	r
4C) Narrow street widths or adding features to narrow for pedestrians			· ·	-
5C) Destinations within walking distance of origins	!		v	~
6C) Pedestrian bridges that avoid excessive ramp lengths	?		•	?
7C) Pedestrian crossing opportunities for all sides (legs) of an intersection 8C) Verify that pedestrian distances between land uses are reasonable & direct	! ?	✓	✓	- ?
our receipting that proceedian containers between faile uses are reasonable & direct	-	-		1

Figure 5-2 Pedestrian Route Type Treatment Levels and Potential Improvements

Source: City of San Diego Pedestrian Master Plan - City-Wide Implementation Framework Report (2006)

City of San Diego Transportation Unfunded Needs List (TUNL)

The following pedestrian facility improvements are identified by the City's Transportation Unfunded Needs List (TUNL) as desirable enhancements to the pedestrian environment in the Mira Mesa community:

- Black Mountain Road between Gold Coast Drive and Hillery Dr Construct mid-block pedestrian bridge across Black Mountain Road
- Flanders Drive at Flanders Place Install new crosswalk with Pedestrian Activated Flashing Beacons and curb ramps
- Montongo Street at Goleta Road Install Pedestrian Activated Flashing Beacon
- Avenida Del Gato at Zapata Ave Install Type 1A Flashing Yellow Beacon with school warning sign facing northbound traffic
- Mercy Road from Chabola Road to Alemenia Road Install two V-Calm signs
- Calle Cristobal near Frames Port Place Install one V-Calm sign facing westbound traffic
- Mesa Rim Road Install two V-Calm signs
- Miramar Way Install two V-Calm signs
- Camino Ruiz from Westmore Road to Capricorn Way Install one V-Calm sign facing northbound traffic
- Calle Cristobal from Camino Ruiz to Camino Santa Fe Install two V-Calm signs

Opportunities

Pedestrian connections are an important part of this community to improve access to multiple key destinations. With the current transit use and upcoming expansion of transit services, connections between transit centers and nearby attractions are vital to transit ridership. First- and last-mile connections should provide quality facilities to encourage walking throughout the community.

Connections along the high-speed, wide roadways in the community should consider alternatives to standard at-grade crossings. Minimizing conflict points between pedestrians and vehicles reduces the risk of collisions and can improve the efficiency of the roadway system and pedestrian experience, encouraging pedestrian travel within the community.

A new pedestrian bridge at Mira Mesa Boulevard near Westview Parkway would benefit pedestrians as it would reduce pedestrian conflicts with high volume/speed vehicles and create a more pleasant crossing experience across Mira Mesa Boulevard, which is a wide and busy intersection. This could also provide an opportunity for creating a gateway to the Mira Mesa community. Other locations for pedestrian bridges may also be considered to support redevelopment or new transit connections. Intersection features such as protected intersections can also help to reduce pedestrian collisions by slowing right turning traffic, and reducing vehicle-pedestrian and vehicle-bicycle conflicts. This may also be explored in combination with bicycle facility intersection treatments.

Providing enhanced pedestrian connections near the large office areas in the western portion of the community could also encourage more walk trips, both commute and non-commute. Best efforts to improve the quality of the pedestrian facilities such as providing wider walkways, accessibility to transit, and buffer from vehicles will be considered in this update. The ideal environment would be a campus-like feel where
walking is the preferred mode of transportation, and the roadway is designed for pedestrians by including reduced crossings distances and lower travel speeds.

Constraints

It is important to take into consideration existing freeway and topographic barriers within the Mira Mesa community, as previously mentioned in Chapter 4. The Mira Mesa community is bounded by Interstate 805 to the west, Interstate 15 to the east, the MCAS Miramar Airport to the south, and Los Peñasquitos Canyon to the north. The bordering canyons and freeways create barriers for access in and out of Mira Mesa to neighboring communities. Major corridors such as Mira Mesa Boulevard, Camino Santa Fe, Camino Ruiz, and Black Mountain Road are also responsible for internally dividing the community into sections, limiting the connectivity within the community.

Creating additional connections across freeways and canyons may be difficult to implement. However, the community plan update can focus on improving the existing connections at freeways and facilitating recreational walking within the canyons.

5.2 BICYCLE

Bicycle infrastructure should provide for the safety and comfort of its users, and the bicycle network should be well connected across a community. Safety and comfort are paramount considerations, given that active travelers are more exposed and vulnerable than those inside a vehicle. Residential roadways are generally inviting to bicyclists. The wider, high-speed roadways and intersections typically discourage bicycle trips. These areas are often where a community needs to focus its bicycle infrastructure efforts. Network connectivity is also important, as gaps in the bicycle network can also discourage bicycle travel within the community. The bicycle network should be made up of a combination of short-haul and long-haul facilities to encourage internal trips in the community as well as regional trips to adjacent communities.

The Mira Mesa community has several areas for improvement based on the analyses performed. They are identified by locations with a high number of bicycle collisions, the amount of stress likely to be experienced by a bicyclist, lack of existing bicycle facilities, and high cycling demand. Bicycle opportunity and constraint areas are identified in **Figure 5-3**.

Safety

The following locations in the community had three or more collisions involving a bicycle in the 5-year period analyzed:

- Mira Mesa Boulevard & Camino Ruiz
- Mira Mesa Boulevard & Westview Parkway
- Mira Mesa Boulevard & Westmore Road/Marbury Avenue
- Miramar Road East of Commerce Avenue/Milch Road

These intersections lack bicycle intersection treatments, with the majority occurring along the major eastwest thoroughfare within the community, Mira Mesa Boulevard. For most of these intersection approaches, a bicycle facility is provided upstream of the intersection, but the intersection approach itself does not contain a bicycle intersection treatment such as a bike pocket, leaving the bicyclists vulnerable and requiring them to merge with vehicles at the intersection.

Quality

Bicycle Level of Traffic Stress (LTS) is high (LTS 3 or 4) on all major roadways in the Mira Mesa community. These roadways are nearly all higher speed, high volume arterials with little or no accommodations made for bicyclists. Due to the land use patterns and barriers in the community, traveling between areas of the community requires the use of these roadways. Thus, finding opportunities to introduce low-stress facilities along some major roadways to allow for safe bicycle travel within the community is necessary to improve the overall bicycle experience and encourage more cycling within the community. Not every roadway will be able to accommodate bicycle facilities, but an integrated east-west and north-south route near the residential, school, and retail areas should be determined.

Activity

Intersections near the Sorrento Valley Station and near Miramar College Transit Station experience high bicycle volumes. This is likely first-mile, last-mile connection trips to transit. Similarly, intersections along

Black Mountain Road also have high bicycle activity. One other location noted with high activity is the intersection of Mira Mesa Boulevard and Flanders Drive. This intersection likely has high bicycle activity as bicyclists use Flanders Drive as an alternative route to Mira Mesa Boulevard, with the decision on route choice being made at this intersection.

Demand

Bicycle demand was assessed using the City's Bicycle Demand Model (BDM). Demand is highest along the major roadways in the study area. Streets including Mira Mesa Boulevard, Camino Santa Fe (south of Mira Mesa Boulevard), Camino Ruiz (south of Mira Mesa boulevard), Black Mountain Road, and Miramar Road were found to be in the top 25 percent of bicycle demand in the Mira Mesa community. These streets are continuous across the community, and thus are highly desirable for making connections throughout the Mira Mesa community.

Connectivity

Connectivity will be improved with the construction of the remaining section of Carroll Canyon Road. This roadway will be constructed with future development and will provide a major east-west connection parallel to Mira Mesa Boulevard. Additional connectivity is limited due to the canyons dispersed throughout the community. Upgrades to existing bicycle facilities will improve the low-stress connectivity. Providing comfortable routes to traverse the entirety of the community will be a focus of the plan update.

Opportunities

To increase bicycle commute, it is important to create a low-stress bicycle network which can connect retail, office, residential and schools. Arterials and collectors connect these land uses in the Mira Mesa community, while the majority of low-stress bicycle facilities in the community are located on local and neighborhood roadways. The community needs more low-stress facilities to increase safe and comfortable bicycle connectivity and encourage more bicycle use within the community.

Due to various roadway elements including high vehicular speeds or constrained roadway widths, portions of the major east-west and north-south corridors may not be feasible options for low-stress bicycle routes. However, several parallel routes such as Flanders Drive, Gold Coast Drive, Westmore Road, Capricorn Way, Montongo Street, and Parkdale Avenue can provide low-stress facilities with lower cost enhancements such as traffic calming, bike lane buffers, and intersection treatments. These facilities should be evaluated for trade-offs such as lane narrowing, parking removal, and road diets to determine the most desirable corridors for low-stress bike facilities. Alternatively, if the roadway speeds cannot be reduced via traffic calming measures, adding vertical separation to provide a Class IV bikeway creates a lower traffic stress facility (LTS 1).

The future alignment of Carroll Canyon Road offers a great opportunity to construct the first Class IV facility in the community and provide a low-stress east-west across the community.

There are also roadways with intermittent bicycle facilities that could benefit from more continuity by reallocating the roadway to provide more space for bicycles. Specifically, Camino Ruiz, Mira Mesa Boulevard, and Carroll Road alternate between Class II and Class III bike facilities, and Black Mountain

Road alternates between buffered bike lanes and standard bike lanes, with a small portion of a Class III bike route.

Mira Mesa Boulevard has been identified as a regional bicycle facility that should have a Class II or better bicycle facility.

Constraints

Freeways, canyons and missing facilities create barriers for cycling for members of the Mira Mesa community. Mira Mesa Boulevard runs east-west across Mira Mesa, through the heart of the community where pedestrian, bicycle and transit demand is highest. This is also the corridor with the highest pedestrian- and bicycle-involved collisions. The high traffic volumes, speeds, and number of lanes create a divide of the community into a northern and southern portion, with extremely long crossing distances. The Class II bike lanes on Mira Mesa Boulevard occasionally striped without a buffer next to travel lanes with vehicles traveling up to 55 mph provides a false sense of safety for bicyclists. Further the bike lanes occasionally abruptly transition into a Class III bike route leaving bicyclists stranded and vulnerable. The roadway width along a majority of Mira Mesa Road prevents the construction of a low-stress bicycle facility without removing travel lanes or reducing the median width. In certain constrained areas, considerations will need to be made for parallel facilities to balance the needs of all modes and identify key connections and facilities needed to encourage cycling within the community.

Due to the lack of parallel options into Mira Mesa, consideration should be given to enhancing the bike facilities on Black Mountain Road and Vista Sorrento Parkway to connect adjacent neighborhoods to low-stress routes within Mira Mesa.

Black Mountain Road and Vista Sorrento Parkway are the only major north-south connection into the community from adjacent communities north of Mira Mesa. Black Mountain Road, on the east side of Mira Mesa connects to Rancho Peñasquitos, and Vista Sorrento Parkway, on the west side of the community connects to Torrey Hills. Due to the lack of parallel options, consideration should be given to enhancing the bike facilities on Black Mountain Road and Vista Sorrento Parkway to connect adjacent neighborhoods to low-stress routes within Mira Mesa. Similarly, consideration should be given to enhancing any or all of the four connections to communities east of Mira Mesa across Interstate-15 (Mercy Road, Mira Mesa Boulevard, Carroll Canyon Road, and Miramar Road).

On the west side of the community, a major barrier is presented by Interstate-805, which separates Mira Mesa from the Sorrento Valley Station and further to the University community. Sorrento Valley Boulevard under I-805 does not have any additional roadway width to be reallocated to bicyclists to provide a low-stress connection from the station into the community. This roadway width is constrained by the I-805 overpass bridge abutments.



FIGURE 5-3

Bicycle Opportunity and Constraint Corridors

5.3 TRANSIT

The City of Villages strategy supports expansion of the transit system by encouraging multi-family housing, employment centers, and other higher-intensity uses to be located in areas that can be served by high quality transit services. This will allow more people to live and work within walking distance of transit, and will provide the opportunity for more people to use transit rather than single-occupancy vehicle trips. The Mira Mesa community is relatively well served by transit with a large portion of the community within a quarter-mile of a transit stop, and experiences high transit ridership along the more frequent routes. The highest public transit ridership levels in the community are along Bus Routes 921, 237, 964, and 20, all of which stop or end at the Miramar College Transit Station. With the exception of Bus Route 964, which serves as a local route, all routes within Mira Mesa provide access to major employment areas within the City of San Diego.

Transit opportunity and constraint areas are identified in Figure 5-4.

Safety

Since most transit trips begin and end on foot or by bike, it is crucial that users can safely access transit stops so that trips to and from the transit stops are comfortable and low-stress. High bicycle- and pedestrian-involved collisions near a transit stop may indicate safety concerns for transit users. Transit area safety was assessed by looking at the combined number of pedestrian- and bicycle-involved collisions. Locations with four or more collisions near a transit stop were all located along the Mira Mesa Boulevard, Black Mountain Road, or Camino Ruiz corridors. These locations include:

- Mira Mesa Boulevard & Westview Parkway
- Mira Mesa Boulevard & Westmore Road/Marbury Avenue
- Mira Mesa Boulevard & Camino Ruiz
- Mira Mesa Boulevard & Black Mountain Road
- Camino Ruiz & Capricorn Way
- Camino Ruiz & Reagan Road
- Black Mountain Road & Gold Coast Drive

Activity

Miramar College Transit Station, the only major transit stop in the community has the highest boardings and alightings. Not including the Miramar College Transit Station, the ten bus stops with the highest daily boardings and the ten stops with the highest daily alightings include stops near the following intersections:

- Mira Mesa Boulevard & Camino Ruiz
- Mira Mesa Boulevard & Black Mountain Road
- Mira Mesa Boulevard & Pacific Heights Boulevard
- Mira Mesa Boulevard & Shilling Avenue
- Black Mountain Road & Gold Coast Drive
- Black Mountain Road & Activity Road
- Black Mountain Road & Miramar Road
- Barnes Canyon Road & Pacific Heights Boulevard
- Gold Coast Drive & Camino Ruiz

- Zapata Avenue & Kelowna Road
- Camino Ruiz & Capricorn Way
- Westview Parkway & Mira Mesa Market Center

Many of the high boardings and alightings stops are located along Mira Mesa Boulevard and Black Mountain Road. The employment area on the west side of the community has low to moderate ridership. Camino Ruiz where route 964 services the residential area north of Mira Mesa Boulevard also has moderate ridership. Miramar Road has low ridership.

Route 921 is the most heavily utilized bus route in the community, running east-west along Mira Mesa Boulevard between the University of California San Diego and the Miramar College Transit Station. This route services the employment area in Sorrento Valley during the weekdays only, and services the retail and recreational areas near Mesa Verde Park.

Route 964 has the second highest ridership and connects Mira Mesa neighborhoods and destinations to Scripps Ranch neighborhoods and destinations.

These two bus routes with the highest ridership in the community show the desire for connections between Mira Mesa and the adjacent communities. In addition, more routes serving as community circulator routes may be ideal from higher concentrated residential areas within Mira Mesa to shopping centers and employment areas.

Quality

Transit quality was assessed based on amenities provided for the transit user at each stop. Stops that did not meet the minimum requirements identified in the MTS Designing for Transit Manual were generally due to lack of sign and pole, route designation or accessibility. Providing a sign and pole with route designations and relocating obstructions to provide the required clear zone for accessibility can improve the quality at these stops and the surrounding environment for future transit riders.

Connectivity

Transit access was assessed using the quality bike and quality pedestrian connectivity to major transit stops. The Miramar College Transit Station does not have any low-stress bicycle facilities which provide access to the station, due to its location along Hillery Drive and Westview Parkway, both of which experience high levels of traffic stress due to high speeds of vehicular traffic. The station, however has medium quality facilities for pedestrians to access the station.

Demand

Transit demand was assessed through a combination of existing ridership as well as U.S. Census data showing concentrations of housing and jobs. Housing density is highest on the east side of the community, east of Camino Santa Fe and north of the future Carroll Canyon Road alignment. Employment density is focused in the western and southern ends of the community, with jobs concentrated west of Camino Santa Fe, south of Lopez Canyon and south of future Carroll Canyon Road.

Opportunities

On-time performance is an important piece of improving and maintaining transit ridership. The reliability of services is directly affected by the amount of congestion and delay at intersections and along roadway segments. Buses caught in congestion may affect the reliability of a bus route and decrease ridership over time. Based on the 2017 MTS Performance Monitoring Report, Route 964 is currently performing under the MTS on-time performance goal of 90%. This is the one of the highest ridership routes in the community.

Improving reliability can be accomplished with technological improvements such as Transit Signal Priority (TSP) and adaptive traffic signals, and/or striping dedication such as transit only lanes or transit queue jump areas at intersections. These measures should be considered and implemented, where feasible. Also providing adequate bus stop amenities at appropriate locations can reduce delays. The following are operational improvements in the community that are identified by the San Diego Metropolitan Transit System (MTS):

- Bus-only lanes along Mira Mesa Boulevard for Rapid Bus Route 237 to circumvent congestion on the busy corridor and provide an opportunity for TSP on Mira Mesa Boulevard.
- Bus-only lanes along Miramar Road to enhance Bus Route 31 on this high-capacity corridor and better service the employment corridor.
- TSP on Miramar Road.
- TSP on Black Mountain Road between Miramar Road and Mira Mesa Boulevard to enhance transit along this key north-south corridor with dense residential developments and employment.
- TSP for westbound left turns from Hillery Drive (off Interstate-15 Direct Access Ramp (DAR)) onto southbound Westview Parkway to enhance Rapid Bus Route 235 travel time into Miramar College Transit Station.
- Widen and extend Direct Access Ramp (DAR) bridge over Interstate-15 at Hillery Drive to provide connectivity for pedestrians and bicyclists between Mira Mesa and communities to the east. Specifically, this connection can provide access for the Scripps Miramar Ranch community to rapid bus routes.

Additionally, SANDAG's 2015 RTP builds upon local planning efforts by emphasizing the link between land use planning and transportation planning. As it is implemented, the Plan will enhance the movement of both people and goods, as well as break new ground by incorporating components aimed at enhancing public health. The following are planned transit projects identified in the RTP to increase mobility connections for the Mira Mesa community:

- Extend existing Rapid 235 Bus service to Temecula from Downtown San Diego, running through Mira Mesa.
- Double tracking for Coaster with peak frequencies of 20 minutes.
- Rapid 30 Bus service from Old Town to Sorrento Mesa.
- Rapid Route 688 bus service from San Ysidro to Sorrento Mesa via I-805/I-15/SR-52 during peak hours.
- Rapid Route 690 bus service from Mid-City to Sorrento Mesa via I-805 corridor during peak hours.
- High frequency bus route along Carroll Canyon Road.
- Bus service frequency enhancements for routes 110, 237, and 921.

Future considerations will be made for improvements at key intersections and roadways that are experiencing congestion and delay to reduce delay for transit users and encourage more transit use. The construction of the Mid-Coast Trolley service provides great opportunity to connect University and Mira Mesa communities to the major employment center in Downtown San Diego as well as to the US-Mexico Border. To get from Mid-Coast stops to the Mira Mesa community, an aerial skyway is proposed to travel into the employment area in Sorrento Valley within the western portion of the community. This would provide reliable travel time close to many major employers.

Relocation of the Sorrento Valley Station has also been considered and recommended in previous planning efforts. The *Project Report for I-5/Sorrento Valley Road Interchange Improvements*¹³ recommends relocating the Sorrento Valley Station south, close to the interchange of Mira Mesa Boulevard and I-805. This would modify the transit connections to the community and would need to be evaluated for connections by all modes. The relocation provides an opportunity to explore first- and last-mile pedestrian and bicycle improvements for access to the Sorrento Valley employment center.

A rapid bus route will be considered for the future roadway alignment of Carroll Canyon Road to service the mixed-use developments planned for construction. Mobility hub locations will also be evaluated along Carroll Canyon Road and other areas within the community. Mobility hubs are places that help connect people to employment, housing, shopping, and recreation by walking, biking, transit, and shared mobility.

As land uses continue to change in Mira Mesa and neighboring communities, MTS will consider transit routes for service upgrades between residential, recreational, and employment areas.

Constraints

The cost of providing the infrastructure for and operations of transit services limit the areas in which transit can be provided. Topographic barriers and limited roadways across communities reduce the number of available options for transit to connect to neighboring communities. Although bordering freeways provide opportunities for transit riders to reach destinations further away, sharing facilities with single-occupant vehicles within the community and along the freeways increases travel time for transit riders discouraging transit use to distant destinations. Transit routes and connections follow areas of high ridership potential which is associated with high population areas or high employment demands. Transit is also only as good as its connections when on fixed routes. Consideration of internal community service and connections to external origin-destination pairs needs to be considered in transit planning.

¹³ Project Report for I-5/Sorrento Valley Road Interchange Improvements, City of San Diego Public Works / AECOM, January 2015



FIGURE 5-4

Transit Opportunity and Constraint Areas

5.4 VEHICLE

Streets and freeways comprise the framework of our transportation system and play a major role in shaping the community and quality of life. A street system plagued by congestion can have major impacts on the community. Roadway opportunity and constraint areas are shown in **Figure 5-5**.

Arterials

Although Mira Mesa is readily accessible by freeway, travel to specific points within the community by means of arterial roadways can be difficult during the peak hours. In the morning and evening peak hours, congestion occurs on freeway-serving roadways as commuters travel into, out of and across the community for work, school, or other activities.

These high vehicular traffic volumes result in a number of roadway segments operating at substandard levels of service. In particular, east-west roadways such as Mira Mesa Boulevard, Miramar Road, Capricorn Way, Carroll Canyon Road, Flanders Drive, Gold Coast Drive, and Capricorn Way experience LOS E and F conditions or below. Black Mountain Road, north of Mira Mesa also experiences LOS E conditions and is the only access to the community from areas northeast of the Mira Mesa.

Freeways

The two freeways that serve Mira Mesa are I-15 and I-805. These freeways are utilized by residents, employees, and patrons of Mira Mesa, as well as significant regional pass-through trips. In general, a majority of the I-15 and I-805 roadway segments are operating under unsatisfactory conditions with a LOS E or F in either or both of the AM or PM peak hours.

Based on the analysis, northbound I-805 and southbound I-15 are more heavily utilized during the AM peak, while southbound I-805 and both directions of I-15 are more heavily utilized during the PM peak. The worst congestion occurs on the southbound portion of I-805 between Sorrento Valley Boulevard and Mira Mesa Boulevard, where there are only three general purpose travel lanes.

Intersections

Twenty-two (about one-quarter) of the 92 study area intersections currently operate at LOS E or LOS F during one or more of the peak commute hours. Mira Mesa Boulevard, Camino Ruiz, and Black Mountain Road experience some of the worst intersection congestion during both peak periods.

- 7 intersections along Mira Mesa Boulevard operate at unacceptable LOS during either or both the AM and PM peak hours
- 7 intersections along Black Mountain Road operate at unacceptable LOS during either or both the AM and PM peak hours
- 4 intersections along Camino Ruiz operate at unacceptable LOS during both the AM and PM peak hours
- 2 intersections along Miramar Road operate at unacceptable operations during either or both the AM and PM peak hours.
- 2 intersections along Vista Sorrento Parkway operate at unacceptable operations during both the AM and PM peak hours.

• The I-15 on and off ramp intersections at Carroll Canyon Road operate at unacceptable LOS during both the AM and PM peak hours

Safety

It is important to ensure roadways are safe for travel by all modes of transportation. In order concentrate on areas with the greatest need the ten intersections with the highest number of vehicular collisions are listed below:

- Mira Mesa Blvd & Westview Pkwy
- Mira Mesa Blvd & Black Mountain Rd
- Mira Mesa Blvd & Camino Ruiz
- Miramar Rd & Camino Ruiz
- Miramar Rd & Carroll Rd
- Miramar Rd & Black Mountain Rd
- Mira Mesa Blvd & Scranton Rd
- Miramar Rd & Kearny Villa Rd
- Mira Mesa Blvd & Marbury Ave / Westmore Rd.
- Miramar Rd & Camino Santa Fe / Frost-Mar Pl

On January 11, 2019, Circulate San Diego, a non-profit organization, compiled an updated "Fatal Fifteen Intersections" list recommendation to Councilmembers to reflect Vision Zero goals of eliminating fatal crashes. Mira Mesa encompasses three of these intersections due to repeat collisions that could warrant safety enhancements:

- 1. Camino Ruiz & Reagan Rd
- 2. Mira Mesa Blvd & Marbury Ave / Westmore Rd
- 3. Scranton Rd & Morehouse Dr

Parking

Roadways in the Mira Mesa Community with high rates of observed on-street parking occupancy (over 85%) during one or more peak periods are generally located near employment centers. In particular, segments include Pacific Heights Boulevard, Pacific Center Boulevard, Pacific Mesa Boulevard, Scranton Road, Carroll Road, Activity Road and Black Mountain Road, especially in the mid-day peak hour. Other roadways with higher parking utilization include Marauder Way, Westview Parkway, and Galvin Avenue, as well as sections along Camino Ruiz. Additionally, large portions of the Mira Mesa community do not permit parking along major arterials such as Mira Mesa Boulevard and Miramar Road.

Greater management of parking spaces can help achieve mobility, environmental, and community development goals. Motorists are accustomed to "free" parking at many destinations, but no parking is without cost. The real cost of parking is paid by consumers to property owners through higher rents, lower salaries, higher costs of goods and services, or taxes – regardless of how many cars we own or how much we drive. This system of "bundling" parking costs with other goods and services lowers the out-of-pocket expenses of driving and makes other types of travel seem expensive by comparison. Research suggests that when the real costs of parking are passed on directly to drivers, the demand for parking typically drops,

and alternative modes of transportation, where available (such as transit, carpooling, walking, and bicycling) become more attractive and viable for certain trips.

Planned Roadway Improvements

Carroll Canyon Road extension is a planned connection to be made within the Mira Mesa community, creating another, needed east-west corridor between I-805 and I-5. The roadway connection will be the shared responsibility of private development and City of San Diego. This new connection is anticipated to alleviate traffic on Mira Mesa Boulevard and Miramar Road, which may provide opportunities to enhance the pedestrian, transit and bicycle network within the community.

Planned improvements within the community, such as the Carroll Canyon Road extension and adaptive signal operations along Mira Mesa Boulevard corridor will help to provide more and new opportunities for motorists to travel more efficiently within the community. In addition, consideration should be given to enable safe, attractive and comfortable access for pedestrian, bicycle, and transit users in order to encourage residents, students and employees of Mira Mesa to travel throughout the community by alternative modes. These considerations may also alleviate congestion in areas currently experiencing excessive delays. New development throughout the community can provide additional first- and last-mile connections to give people options of getting to where they need to be and advances in technology can also help to improve capacity of the existing infrastructure.

Opportunities

The roadways in the Mira Mesa community are primarily built out and the primary mode of travel within the community is single occupancy vehicles. The planned Carroll Canyon Road extension will provide an additional east-west connection across the community and is anticipated to shift some of the vehicular traffic along Mira Mesa Boulevard and Miramar Road. However, planned developments within the community will help inform how this extension will influence roadway users.

Connectivity in the community may benefit from the conversion of on-street parking to exclusive transit or bicycle facilities. This can encourage some trips to be made by alternative modes to driving which can eliminate some vehicles along a roadway. Providing enough off-street parking to accommodate the adjacent land uses, and repurposing the roadways to accommodate other modes of travel may be needed to accommodate future growth. The effect of removing on-street parking will need to be considered on an individual project basis.

Circulate San Diego has recommended pedestrian safety improvements that could be implemented at the three Fatal Fifteen intersections within Mira Mesa This can help to facilitate connections for all modes of travel.

Considering the bicycle network recommendations to provide parallel low-stress options for bicycling, enhancements to Mira Mesa Boulevard can prioritize vehicles rather than creating space for all modes of transportation.

Some of the arterials that experience unacceptable operations based on ADTs are located in residential areas, which could be indicative of cut-through traffic avoiding congestion on other major arterials. These roadways include Westmore Road, Gold Coast Drive, and Capricorn Way. Traffic calming measures could

be implemented to reduce traffic volumes in the residential areas, and create lower stress conditions for pedestrians and bicyclists accessing schools, parks and other key destinations from their home.

Constraints

The Mira Mesa community is bounded by freeways, canyons, and MCAS Miramar (Military facilities), limiting access and connections to adjacent neighborhoods on all sides of Mira Mesa. The canyons on the north side of the community present a unique barrier to the community. Black Mountain Road and Vista Sorrento Parkway are the only connections to the adjacent communities to the north of Mira Mesa, meaning all vehicles accessing Mira Mesa from the north utilize these two congested roadways. Providing another north-south connection to the north would require crossing canyons and lands dedicated to preserve habitat for animals.

Similarly, MCAS Miramar on the south side prevents another north-south connection to communities south of Mira Mesa as it is dedicated military land.

Additionally, many of the freeway underpasses and overpasses restrict the ability to increase capacity. For example, Sorrento Valley Boulevard under the I-805 overpass is at its full capacity due to right-of-way constraints under the bridge. This is a main connection between the Sorrento Valley Station west of I-805 and the major employment center east of I-805.

Lastly, many of the community's arterial roadways are built out with little opportunity to expand or widen. Mira Mesa Boulevard and Black Mountain Road are major east-west and north-south roadways within the community that provide access to freeways as well as neighboring communities; these roadways experience congestion, excessive delays at intersections, and a large number of collisions. The majority of these roadways have built out development along both sides of the roadway which limits the amount of space available.



FIGURE 5-5

Vehicle Opportunity and Constraint Corridors



Appendix B – Pedestrian Collision Evaluation

Mira Mesa Blvd & Westmore Rd/Marbury Ave



#	Cause	Location	Pedestrian Action	Vehicle Action	Other Notes
1	Auto R/W Violation	14 feet East of intersection	Crossing in Crosswalk	Proceeding Straight	Dark
2	Ped R/W Violation	250 West of intersection	Not stated	Making Right Turn	
3	Traffic Signals and Striping	Not Stated	Crossing not at Cross- walk	Proceeding Straight	
4	Ped R/W Violation	Not Stated	Crossing in Crosswalk	Making Left Turn	
5	Ped R/W Violation	Not Stated	Crossing in Crosswalk	Making Left Turn	

Countermeasures

- High visibility crosswalks
- Leading Pedestrian Intervals
- Pedestrian countdown timers
- Advanced stop bars

Camino Ruiz & Teresa Dr/Capricorn Way



#	Cause	Location	Pedestrian Action	Vehicle Action	Other Notes
1	Unsafe Speed	8 feet East of intersection	Crossing in Crosswalk	Proceeding Straight	
2	Auto R/W Violation	Not stated	Crossing in Crosswalk	Making Left Turn	
3	Ped R/W Violation	Not stated	Crossing in Crosswalk	Making Left Turn	Inattention
4	Ped R/W Violation	8 feet North of intersection	Crossing in Crosswalk	Making Left Turn	Inattention

Countermeasures

- Curb bulbouts (NE and SE corners)
- Protected left-turn movements (east-west)
- High visibility crosswalks
- Leading Pedestrian Intervals
- Pedestrian countdown timers
- Advanced stop bars

Mira Mesa Blvd & Black Mountain Rd



#	Cause	Location	Pedestrian Action	Vehicle Action	Other Notes
1	Pedestrian Violation	120 feet East of intersection	Crossing Not in Cross- walk	Proceeding Straight	Dark
2	Pedestrian Violation	54 feet North of intersection	Not stated	Proceeding Straight	
3	Pedestrian R/W Vio- lation	Not stated	Crossing Not in Cross- walk	Making Right Turn	
4	Pedestrian Violation	Not stated	Not stated	Proceeding Straight	

Countermeasures

- High visibility crosswalks
- Leading Pedestrian Intervals
- Pedestrian countdown timers
- Advanced stop bars

Mira Mesa Blvd & Westview Pkwy



#	Cause	Location	Pedestrian Action	Vehicle Action	Other Notes
1	Other Hazardous Movement	3 feet South of intersection	Not stated	Making Right Turn	
2	Improper Turning	Not stated	Stopped In Road	Parking Manuever	
3	Pedestrian R/W Vio- lation	Not stated	Not stated	Making Right Turn	
4	Pedestrian R/W Vio- lation	Not stated	Not stated	Making Right Turn	

Countermeasures

- Pedestrian Bridge
- High visibility crosswalk (west leg)
- Leading Pedestrian Intervals
- Pedestrian countdown timers
- Advanced stop bars

Black Mountain Rd & Gemini Ave



#	Cause	Location	Pedestrian Action	Vehicle Action	Other Notes
1	Other Hazardous Movement	9 feet West of intersection	Crossing at Crosswalk	Making Right Turn	
2	Unsafe Starting or Backing	Not stated	Not stated	Making Right Turn	
3	Pedestrian Violation	4 feet South of intersection	Crossing at Crosswalk	Making Left Turn	

Countermeasures

- Protected left turns (east-west)
- Leading Pedestrian Intervals
- Pedestrian countdown timers

Mira Mesa Blvd & Mira Mesa Mall



#	Cause	Location	Pedestrian Action	Vehicle Action	Other Notes
1	Unsafe Starting or Backing	250 feet East of intersection	Not in Road	Backing	Inattention
2	Other Hazardous Movement	Not stated	Crossing at Crosswalk	Making Left Turn	
3	Pedestrian Violation	5 feet North of intersection	Crossing at Crosswalk	Proceeding Straight	Violation

Countermeasures

- High visibility crosswalks
- Leading Pedestrian Intervals
- Pedestrian countdown timers

Mira Mesa Blvd & Sequence Dr/Huennekens St



#	Cause	Location	Pedestrian Action	Vehicle Action	Other Notes
1	Other Hazardous Movement	Not stated	Crossing Not at Cross- walk	Making Right Turn	Dark
2	Pedestrian R/W Vio- lation	1 foot South of intersection	Crossing at Crosswalk	Stopped in Road	
3	Not stated	Not stated	Not stated	Not stated	

Countermeasures

- Corner bulb-outs / protected intersection
- High visibility crosswalks
- Leading Pedestrian Intervals
- Pedestrian countdown timers

Camino Ruiz & Reagan Rd



#	Cause	Location	Pedestrian Action	Vehicle Action	Other Notes
1	Automobile R/W Violation	Not stated	Not stated	Proceeding Straight	
2	Pedestrian R/W Vio- lation	6 feet East of intersection	Proceeding Straight	Making Right Turn	
3	Pedestrian R/W Vio- lation	Not stated	Not stated	Making Right Turn	

Countermeasures

- Corner bulb-outs / protected intersection
- High visibility crosswalks
- Leading Pedestrian Intervals
- Pedestrian countdown timers

Appendix C – Corridor Concept Planning Sheets and Cross-Sections

Length

3 Miles

Functional Class

Existing: 4- to 5-Lane Major Arterial **Preferred:** 4- to 6-Lane Major Arterial

Traffic Volumes

18,000-23,000 North of Gold Coast Dr 28,000 South of Gold Coast Dr

Crash Summary (2012-2017)		
Total Crashes	236	
Most Predominant Causes:		
Auto R/W Violation	23%	
Improper Turning	22%	
Unsafe Speed	18%	
Percent of community crashes	12%	

Corridor Location

The City of

SAN DIEGO



Kimley »Horn

Potential Corridor-wide Improvements

- Complete corridor: Improve access to destinations and neighborhoods by providing quality facilities for all modes of travel
- Flexible lanes: (see below)
- Separated bikeway: Improves comfort by reducing traffic stress on cyclists, encourages cycling, and creates connections within the community and to the region

Potential Corridor-wide Feature

Flexible lanes: dedicated roadway space for any combination of nonsingle occupancy vehicles, such as transit, autonomous/connected vehicles, or other emerging mobility concepts



General Corridor Cross Section

Varies By Segment (see pages CR-2 & CR-3)







Legend



Typical Section (see following sheets) Community Plan Implementation **Overlay Zone (CPOIZ)**



Note: Cross-section shown is taken at most constrained or complex location within the segment limits. Cross-sections for remainder of segment are subject to varyvy. Dimensions shown are conceptual and used for feasibility assessment only. Landscaping depicted may require the formation of a Maintenance Assessment Dristrict (MAD). Lane colors are for illustrative purposes only and do not necessarily indicate pavement marking color or pattern.











CR-2

Note: Cross-section shown is taken at most constrained or complex location within the segment limits. Cross-sections for remainder of segment are subject to vary. Dimensions shown are conceptual and used for feasibility assessment only. Landscaping depicted may require the formation of a Maintenance Assessment Dristrict (MAD). Lane colors are for illustrative purposes only and do not necessarily indicate pavement marking color or pattern.







pattern.





Note: Intersection design is conceptual only. Lane colors are for illustrative purposes only and do not necessarily indicate pavement marking color or





Westview Parkway

Length

1.5 Miles

Functional Class

Existing: 4-Lane Major Arterial **Preferred:** 4-Lane Collector

Traffic Volumes

8,000 North of Capricorn Rd22,000 Capricorn Rd to Mira Mesa Blvd12,500 Mira Mesa Blvd to Hillery Dr

Crash Summary (2012-2017)			
Total Crashes	123		
Most Predominant Causes:			
Unsafe Speed	25%		
Improper Turning	18%		
Auto R/W Violation	14%		
Percent of community crashes	6%		

Corridor Location

The City of

SAN DIEGO



Kimley »Horn



- Complete corridor: Improve access to destinations and neighborhoods by providing quality facilities for all modes of travel
- Flexible lanes: (see below)
- Separated bikeway: Improves comfort by reducing traffic stress on cyclists, encourages cycling, and creates connections with the community and to the region

Potential Corridor Feature

Flexible lanes: dedicated roadway space for any combination of non-single occupancy vehicles, such as transit, autonomous/connected vehicles, or other emerging mobility concepts





General Corridor Cross Section

Varies By Segment (see page WP-2)





Legend



Typical Section (see following sheets) Community Plan Implementation Overlay Zone (CPOIZ)



Westview Parkway

Note: Cross-section shown is taken at most constrained or complex location within the segment limits. Cross-sections for remainder of segment are subject to vary. Dimensions shown are conceptual and used for feasibility assessment only. Landscaping depicted may require the formation of a Maintenance Assessment Dristrict (MAD). Lane colors are for illustrative purposes only and do not necessarily indicate pavement marking color or pattern.







Reconfigure existing right-of-way to include:

- One general purpose travel lane each way
- One flexible lane each way
- A center raised median
- Two-way separated bikeway on the west side

Right-of-way modifications:

 Proposed reconfiguration would require widening to the west

Future

- Redevelopments:
- Proposed reconfiguration fronts potential redevelopment of Mira Mesa Gateway and should comply with recommendations in the Urban Design Element





Westview Parkway

pattern.





Note: Intersection design is conceptual only. Lane colors are for illustrative purposes only and do not necessarily indicate pavement marking color or



Length

5.5 Miles

Functional Class

Existing: 6-Lane Major/Prime Arterial **Preferred:** 6-Lane Prime Arterial

Traffic Volumes

61,000 West of Scranton Rd **41,000-52,000** Scranton Rd to Camino Ruiz **31,500** Camino Ruiz to New Salem St 56,000-59,500 New Salem St to **Black Mountain Rd** 70,600-78,500 Black Mountain Rd to I-15

Crash Summary (2012-2017)

Total Crashes	518
Most Predominant Causes:	
Unsafe Speed	26%
Auto R/W Turning Violation	15%
Improper Turning	14%
Percent of community crashes	25%

Corridor Location

The City of

SAN DIEGO



Kimley »Horn



- Separated bikeways: Improves comfort by reducing traffic stress on cyclists, encourages cycling, and creates connections within the community and to the region
- Sustainable Mobility for Adaptable and Reliable Transportation (SMART) corridor: (see below)

Potential Corridor-wide Feature

SMART corridor: SMART corridors can include flexible lanes dedicated for use by any combination of nonsingle occupancy vehicles, and utilizes emerging technology to increase person throughput.





General Corridor Cross Section

Varies By Segment (see pages MMB-2 — MMB-4)















Note: Cross-section shown is taken at most constrained or complex location within the segment limits. Cross-sections for remainder of segment are subject to vary. Dimensions shown are conceptual and used for feasibility assessment only. Landscaping depicted may require the formation of a Maintenance Assessment Dristrict (MAD). Lane colors are for illustrative purposes only and do not necessarily indicate pavement marking color or pattern.



SAN DIEGO Kimley »Horn



Note: Cross-section shown is taken at most constrained or complex location within the segment limits. Cross-sections for remainder of segment are subject to vary. Dimensions shown are conceptual and used for feasibility assessment only. Landscaping depicted may require the formation of a Maintenance Assessment Dristrict (MAD). Lane colors are for illustrative purposes only and do not necessarily indicate pavement marking color or pattern.









MIRA MESA COMMUNITY PLAN October 2022



Reconfigure existing right-of-way to include: **Black Mountain Rd to Westview Pkwy** Two general purpose travel lanes westbound Proposed • Three general purpose travel lanes eastbound • One flexible lane each way • A center raised median One-way raised bikeway westbound One-way separated bikeway on the south Travel L Lane Travel 1, Lane Travel 1, Lane 12' Raised ikeway Buffer Turn Lane **Fravel** Lane xible Lane parated 3ikeway **Fravel** Lane exible Lane Buffer **Right-of-way** modifications: None Existing **Future Redevelopments:** Proposed reconfiguration fronts potential redevelop-12' 12' 13' ment of Mira Mesa Gate-14 way and should comply with recommendations in the Urban Design Element Reconfigure existing right-of-way to include: Westview Pkwy to I-15 (East of Westview Pkwy Intersection) Four general purpose lanes westbound Three general purpose lanes eastbound Proposed A center raised median Two-way shared use path on both sides **Right-of-way** \checkmark modifications: Proposed Buffer & Buffer & Shared- t Sse Path & , Turn Lane ravel Lane ₇₅ ravel 5 Lane Turn ,0 Lane ,0 Turn , Lane ,0 ravel Lane ,12 Lane 14' Lane Lane ravel 5 Lane 5 12' reconfiguration would ravel Lane -Use Path uffer ravel Lane ravel Lane require widening to the south Future Existing **Redevelopments:** Proposed reconfiguration fronts potential redevelopment of Mira Mesa Gate-12' 14' 12 way and should comply with recommendations in the Urban Design Element

Note: Cross-section shown is taken at most constrained or complex location within the segment limits. Cross-sections for remainder of segment are subject to vary. Dimensions shown are conceptual and used for feasibility assessment only. Landscaping depicted may require the formation of a Maintenance Assessment Dristrict (MAD). Lane colors are for illustrative purposes only and do not necessarily indicate pavement marking color or pattern.

SAN DIEGO Kimley »Horn



MIRA MESA COMMUNITY PLAN October 2022
Mira Mesa Boulevard

pattern.

Mira Mesa Blvd & Pacific Heights Blvd **Proposed Intersection Concept**





Note: Intersection design is conceptual only. Lane colors are for illustrative purposes only and do not necessarily indicate pavement marking color or



Length

5 Miles

Functional Class

Existing: 6-Lane Major Arterial **Preferred:** 6-Lane Major/Prime Arterial

Traffic Volumes

66,000 West of Camino Santa Fe 50,000-59,000 Camino Santa Fe to **Camino Ruiz** 63,000 East of Black Mountain Rd

Crash Summary (2012-2	2017)
Total Crashes	362
Most Predominant Causes:	
Unsafe Speed	26%
Auto R/W Turning	21%
Improper Turning	14%
Percent of community crashes	18%

Corridor Location





Potential Corridor Improvements

- **Regional bikeways:** Improve bicycle comfort and access to local and regional destinations in the Scripps Miramar Ranch and University communities
- **SMART corridor:** A major arterial roadway that provides access to or between a least two freeways, where roadway spaces is repurposed for transit and flexible lanes dedicated for use by any combination of non-single occupancy vehicles
- Dynamic lane: (see below)

Potential Corridor Feature

Dynamic lane: Adaptable turning movement designation to accommodate peak vehicle volume imbalances using real-time transportation management devices



General Corridor Cross Section

Varies By Segment (see pages MR-2 & MR-3)





Legend





Typical Section (see following sheets) **Community Plan** Implementation **Overlay Zone (CPIOZ)**





Note: Cross-section shown is taken at most constrained or complex location within the segment limits. Cross-sections for remainder of segment are subject to vary. Dimensions shown are conceptual and used for feasibility assessment only. Landscaping depicted may require the formation of a Maintenance Assessment Dristrict (MAD). Lane colors are for illustrative purposes only and do not necessarily indicate pavement marking color or pattern.





• None

CONCEPT PLANNING SHEET MOBILITY CORRIDOR

MIRA MESA COMMUNITY PLAN October 2022

MR-2

Note: Cross-section shown is taken at most constrained or complex location within the segment limits. Cross-sections for remainder of segment are subject to vary. Dimensions shown are conceptual and used for feasibility assessment only. Landscaping depicted may require the formation of a Maintenance Assessment Dristrict (MAD). Lane colors are for illustrative purposes only and do not necessarily indicate pavement marking color or pattern.





Reconfigure existing right-of-way to include:

- Two general purpose travel lanes each way
- One flexible lane each
 way
- A center raised median
- Two-way raised bikeway with landscape buffer on the south side

Right-of-way modifications:

• None

Future Redevelopments:

 Proposed reconfiguration fronts potential redevelopment of Miramar Gateway and should comply with recommendations in the Urban Design Element









pattern.





Note: Intersection design is conceptual only. Lane colors are for illustrative purposes only and do not necessarily indicate pavement marking color or



Length

3 Miles

Functional Class

Existing: 4- to 6-Lane Major Arterial Preferred: 6-Lane Major Arterial

Traffic Volumes

35,000 North of Westview Pkwy 17,500-27,500 Westview Pkwy to Carroll Centre Rd 17,000 South of Carroll Centre Rd

Crash Summary (2012-2017)							
Total Crashes	276						
Most Predominant Causes:							
Unsafe Speed	20%						
Auto R/W Violation	18%						
Improper Turning	13%						
Percent of community crashes	14%						

Corridor Location

The City of

SAN DIEGO



Kimley »Horn



- **Complete corridor:** Improve access to destinations and neighborhoods by providing quality facilities for all modes of travel
- Separated bikeways: (see below)

Potential Corridor-wide Feature

Separated bikeway: Improves comfort by reducing traffic stress on cyclists, encourages cycling, and creates connections within the community and to the region





General Corridor Cross Section

Varies By Segment (see pages BMR-2 & BMR-3)







Legend



Typical Section (see following sheets) Community Plan Implementation **Overlay Zone (CPOIZ)**





Note: Cross-section shown is taken at most constrained or complex location within the segment limits. Cross-sections for remainder of segment are subject to vary. Dimensions shown are conceptual and used for feasibility assessment only. Landscaping depicted may require the formation of a Maintenance Assessment Dristrict (MAD). Lane colors are for illustrative purposes only and do not necessarily indicate pavement marking color or pattern.



The City of **Kimley»Horn** SAN DIEGO



Reconfigure existing right-of-way to include:

- Two general purpose travel lanes each way
- A center raised median
- One-way separated bikeway each way

Right-of-way modifications:

reconfiguration would require widening to the

Redevelopments:

 Proposed reconfiguration fronts potential redevelopment of Mira Mesa Gateway and should com ply with recommendations in the Urban Design



Reconfigure existing right-of-way to include:

- Two general purpose travel lanes each way
- A center raised median
- One-way separated bikeway southbound
- Buffered bike lane norhbound

Right-of-way modifications: • None

Future Redevelopments:

• None





Note: Cross-section shown is taken at most constrained or complex location within the segment limits. Cross-sections for remainder of segment are subject to vary. Dimensions shown are conceptual and used for feasibility assessment only. Landscaping depicted may require the formation of a Maintenance Assessment Dristrict (MAD). Lane colors are for illustrative purposes only and do not necessarily indicate pavement marking color or pattern.







pattern.





Note: Intersection design is conceptual only. Lane colors are for illustrative purposes only and do not necessarily indicate pavement marking color or



Camino Santa Fe

Length

3 Miles

Functional Class

Existing: 4- to 6-Lane Major Arterial **Preferred:** 6-Lane Major Arterial

Traffic Volumes

10,000-16,000 North of Mira Mesa Blvd **18,000-21,000** South of Mira Mesa Blvd

Crash Summary (2012-2017)								
Total Crashes	85							
Most Predominant Causes:								
Unsafe Speed	28%							
Auto R/W Violation	25%							
Improper Turning	13%							
Percent of community crashes	4%							

Corridor Location





• Separated bikeways: (see below)

Potential Corridor-wide Feature

Separated bikeway: Improves comfort by reducing traffic stress on cyclists, encourages cycling, and creates connections within the community and to the region





General Corridor Cross Section

Varies By Segment (see page CSF-2)





SAN DIEGO Kimley »Horn

Legend



Typical Section (see following sheets) Community Plan Implementation Overlay Zone (CPOIZ)



Camino Santa Fe

Note: Cross-section shown is taken at most constrained or complex location within the segment limits. Cross-sections for remainder of segment are subject to vary. Dimensions shown are conceptual and used for feasibility assessment only. Landscaping depicted may require the formation of a Maintenance Assessment Dristrict (MAD). Lane colors are for illustrative purposes only and do not necessarily indicate pavement marking color or pattern.



Redevelopments:

None

Future

None



The City of **Kimley»Horn** SAN DIEGO

20'

12'

18'

12'

20'

MIRA MESA COMMUNITY PLAN October 2022

MOBILITY CORRIDOR CONCEPT PLANNING SHEET

CSF-2

Camino Santa Fe

pattern.





Note: Intersection design is conceptual only. Lane colors are for illustrative purposes only and do not necessarily indicate pavement marking color or



Carroll Canyon Road

General Corridor Cross Section

Varies By Segment (see page CCR-2)

Length

Existing:

1 Mile I-805 to Carroll Rd (west end of community)

0.5 Mile Black Mountain Rd to I-15 (east end of community)

Future (Total): 5.5 Miles I-805 to I-15

Functional Class

Existing:

4-Lane Collector w/ TWLTL Black Mountain Rd to Maya Linda Rd 4-Lane Major Arterial Maya Linda Rd to I-15 2-Lane Collector Nancy Ridge to Pacific **Heights Blvd** 2-Lane Major Arterial Pacific Heights Blvd

to Carroll Rd

Future:

The City of

SAN DIEGO

4-Lane Major Arterial Scranton Rd to Camino Santa Fe 6-Lane Prime Arterial Camino Santa Fe to Camino Ruiz 6-Lane Major Arterial Camino Ruiz to Black Mountain Rd 4 Lane Collector I-805 to Scranton Rd

Traffic Volumes

13,000 I-805 to Pacific Heights Rd 20,000 Black Mountain Rd to I-15

Corridor Location



Kimley »Horn

Potential Corridor-wide Improvements

- Separated bikeways: Improves comfort by reducing traffic stress on cyclists, encourages cycling, and creates connections within the community and to the region
- **Bus Rapid Transit (BRT) corridor:** Rapid services that are highfrequency, limited-stop routes moving people to their destinations more quickly than traditional local bus service using dedicated lanes or guideways



Crash Summary (2012-2017)

Total Crashes	73
Most Predominant Causes:	
Improper Turning	22%
Auto R/W Turning Violation	15%
Unsafe Speed	16%
Percent of community crashes	4%





Legend



CONCEPT PLANNING SHEET MOBILITY CORRIDOR



Carroll Canyon Road

Note: Cross-section shown is taken at most constrained or complex location within the segment limits. Cross-sections for remainder of segment are subject to vary. Dimensions shown are conceptual and used for feasibility assessment only. Landscaping depicted may require the formation of a Maintenance Assessment Dristrict (MAD).



SAN DIEGO Kimley »Horn

EET SHI **CONCEPT PLANNING** CORRIDOR MOBILITY

MIRA MESA COMMUNITY PLAN October 2022



Carroll Canyon Road







<u>Activity Road</u> (Clayton Drive to Padgett Street - Looking East)



Capricorn Way



Capricorn Way



Flanders Drive



<u>Flanders Drive</u> (West of Camino Santa Fe - Looking East)



<u>Kearny Villa Road</u> (Candida Street to Miramar Road - Looking North)



Lusk Boulevard (Wateridge Circle to Pacific Center Blvd - Looking East)





<u>Barnes Canyon Road / Scranton Road</u> (Mira Sorrento PI to Lusk Boulevard - Looking North/East)



Scranton Road (South of Mira Mesa Boulevard - Looking North)

shown are conceptual and used for feasibility assessment only. Landscaping depicted may require the formation of a Maintenance Assessment Dristrict (MAD).



<u>Vista Sorrento Parkway</u> (Sorrento Valley Boulevard to Lusk Boulevard - Looking North)





Appendix D – Model Land Use Inputs

FID * Shape *	scen_yr abm_ver	hwy_link	hwycov_id link_name	from_nm	to_nm	ID NBS	В	EBWB	ADT	Reduced
1 Polyline	2050 version_13_3_3	421	14293 CAMINO SANTA FE	MAYCREST LN	TOP GUN	9 Camino Santa Fe		Top Gun St	27051	25698
2 Polyline	2050 version_13_3_3	422	11425 SORRENTO VALLEY	CAMINO SANTA FE	UNKNOWN	8 Camino Santa Fe		Sorrento Valley Blvd	29255	27792
3 Polyline	2050 version_13_3_3	423	23123 CAMINO SANTA FE	CALLE CRISTOBAL	MAYCREST LN	8 Camino Santa Fe		Sorrento Valley Blvd	25595	24315
4 Polyline	2050 version_13_3_3	501	4486 MIRA MESA	GENETIC CENTER	FLANDERS	43 Genetic Center/Steadn		Mira Mesa Blvd	35272	33508
5 Polyline	2050 version_13_3_3	1996	19715 VISTA SORRENTO	SORRENTO VALLEY	LUSK	1 Vista Sorrento Pkwy		Lusk Blvd	26737	25400
6 Polyline	2050 version_13_3_3	2000	20781 I-805 SB	I-5 SB	SORRENTO VALLEY	135 Vista Sorrento Pkwy		Sorrento Valley Blvd	88585	84156
7 Polyline	2050 version_13_3_3	2001	20762 I-805 NB	MIRA MESA	I-5 NB	1 Vista Sorrento Pkwy		Lusk Blvd	92506	87881
8 Polyline	2050 version_13_3_3	2007	29553 I-805 HOV NB	ramp I-805 HOV NB	ramp I-805 HOV NB	135 Vista Sorrento Pkwy		Sorrento Valley Blvd	10008	9508
9 Polyline 10 Polyline	2050 version_13_3_3 2050 version 13 3 3	2008 2012	29551 I-805 HOV SB 14309 PACIFIC HEIGHTS	CARMEL MOUNTAIN MIRA MESA	MIRA MESA CORNERSTONE	135 Vista Sorrento Pkwy 31 Pacific Heights Blvd		Sorrento Valley Blvd Mira Mesa Blvd	11107 22791	10552 21651
11 Polyline	2050 version_13_3_3	2012	14309 PACIFIC HEIGHTS 14308 LUSK	BARNES CANYON	MOREHOUSE	18 Lusk Blvd		Barnes Canyon Rd	18175	17266
12 Polyline	2050 version 13 3 3	2022	15490 LUSK	VISTA SORRENTO	DRIVEWAY	1 Vista Sorrento Pkwy		Lusk Blvd	27540	26163
13 Polyline	2050 version 13 3 3	2023	14305 MIRA MESA	unknown	PACIFIC HEIGHTS	31 Pacific Heights Blvd		Mira Mesa Blvd	41521	39445
14 Polyline	2050 version 13 3 3	3336	15489 SORRENTO VALLEY	zone connector	CARROLL CANYON	138 I-805 SB Off-Ramp/Car		Sorrento Valley Rd	28299	26884
15 Polyline	2050 version 13 3 3	3337	19719 VISTA SORRENTO	UNKNOWN	MIRA SORRENTO	3 Vista Sorrento Pkwy		Mira Sorrento Pl	22465	21342
16 Polyline	2050 version 13 3 3	3808	19716 VISTA SORRENTO	LUSK	zone connector	1 Vista Sorrento Pkwy		Lusk Blvd	16167	15359
17 Polyline	2050 version_13_3_3	3809	1549 I-805 HOV NB	ramp I-805 HOV NB	ramp I-805 HOV NB	1 Vista Sorrento Pkwy		Lusk Blvd	10008	9508
18 Polyline	2050 version_13_3_3	3810	1580 I-805 HOV SB	ramp I-805 HOV SB	ramp	1 Vista Sorrento Pkwy		Lusk Blvd	11107	10552
19 Polyline	2050 version_13_3_3	3960	14324 CARROLL CANYON	YOUNGSTOWN	NANCY RIDGE	11 Youngstown Wy		Carroll Canyon Rd	32196	30587
20 Polyline	2050 version_13_3_3	3961	4475 MIRA MESA	SCRANTON	LUSK	23 Scranton Rd		Mira Mesa Blvd	35473	33699
21 Polyline	2050 version_13_3_3	4065	15496 MIRA MESA	VISTA SORRENTO	SCRANTON	4 Vista Sorrento Pkwy		Mira Mesa Blvd	65520	62244
22 Polyline	2050 version_13_3_3	4066	15494 RAMP	I-805 NB	ramp I-805 NB	3 Vista Sorrento Pkwy		Mira Sorrento Pl	21312	20246
23 Polyline	2050 version_13_3_3	4067	10151 MIRA MESA	SORRENTO VALLEY	ramp I-805 NB	4 Vista Sorrento Pkwy		Mira Mesa Blvd	54590	51860
24 Polyline	2050 version_13_3_3	4068	3241 RAMP	ramp	MIRA MESA	4 Vista Sorrento Pkwy		Mira Mesa Blvd	17074	16220
25 Polyline	2050 version_13_3_3	4073	31303 RAMP	ramp I-805 SB	SORRENTO VALLEY	138 I-805 SB Off-Ramp/Car		Sorrento Valley Rd	16959	16111
26 Polyline 27 Polyline	2050 version_13_3_3 2050 version 13 3 3	4078 4080	40254 RAMP	ramp	ramp I-805 SB SCRANTON	138 I-805 SB Off-Ramp/Car 21 Scranton Rd	roll Canyon Rd	Sorrento Valley Rd Mira Sorrento Pl	23462 28393	22289 26973
28 Polyline	2050 version_13_3_3	4080	33658 MIRA SORRENTO 19206 CARROLL CANYON	zone connector CARROLL CYN DAR	SCRANTON	25 Scranton Rd		Carroll Canyon Rd	38242	36330
29 Polyline	2050 version 13 3 3	4083	352 CARROLL CANYON	SCRANTON	YOUNGSTOWN	25 Scranton Rd		Carroll Canyon Rd	28077	26673
30 Polyline	2050 version 13 3 3	4085	23151 SCRANTON	OBERLIN	unknown	25 Scranton Rd		Carroll Canyon Rd	20418	19397
31 Polyline	2050 version 13 3 3	4090	24682 CARROLL CANYON	RAMP	CARROLL CYN DAR	139 Business Access Rd		Carroll Canyon Rd	23677	22493
32 Polyline	2050 version 13 3 3	4092	10150 SORRENTO VALLEY	CARROLL CANYON	RAMP	138 I-805 SB Off-Ramp/Car		Sorrento Valley Rd	68757	65319
33 Polyline	2050 version 13 3 3	4093	19205 CARROLL CANYON	RAMP	RAMP	138 I-805 SB Off-Ramp/Car		Sorrento Valley Rd	27300	25935
34 Polyline	2050 version_13_3_3	4094	48478 zone connector	zone 2201	RAMP	139 Business Access Rd		Carroll Canyon Rd	10341	9824
35 Polyline	2050 version_13_3_3	4095	48477 RAMP	zone connector	CARROLL CANYON	139 Business Access Rd		Carroll Canyon Rd	10341	9824
36 Polyline	2050 version_13_3_3	4099	28955 RAMP	ramp I-805 NB	ramp I-805 NB	3 Vista Sorrento Pkwy		Mira Sorrento Pl	19784	18795
37 Polyline	2050 version_13_3_3	4110	15274 MIRA SORRENTO	VISTA SORRENTO	zone connector	3 Vista Sorrento Pkwy		Mira Sorrento Pl	31548	29970
38 Polyline	2050 version_13_3_3	4111	19721 VISTA SORRENTO	ramp	MIRA MESA	3 Vista Sorrento Pkwy		Mira Sorrento Pl	18033	17131
39 Polyline	2050 version_13_3_3	4112	33659 RAMP	ramp I-805 NB	VISTA SORRENTO	3 Vista Sorrento Pkwy		Mira Sorrento Pl	21312	20246
40 Polyline	2050 version_13_3_3	4113	19720 VISTA SORRENTO	MIRA SORRENTO	ramp	3 Vista Sorrento Pkwy		Mira Sorrento Pl	18033	17131
41 Polyline	2050 version_13_3_3	4114	10152 MIRA MESA	ramp I-805 NB	VISTA SORRENTO	4 Vista Sorrento Pkwy		Mira Mesa Blvd	54590	51860
42 Polyline 43 Polyline	2050 version_13_3_3 2050 version 13 3 3	4115 4122	6006 SCRANTON 14320 SCRANTON	unknown COMPTER VISION	CARROLL CANYON MIRA SORRENTO	25 Scranton Rd 21 Scranton Rd		Carroll Canyon Rd Mira Sorrento Pl	20418 25174	19397 23915
43 Polyline 44 Polyline	2050 version_13_3_3 2050 version_13_3_3	4122	14320 SCRANTON 14318 SCRANTON	MOREHOUSE	MIRA SORRENTO MIRA MESA	21 Scranton Rd 23 Scranton Rd		Mira Mesa Blvd	25174 33195	31535
45 Polyline	2050 version 13 3 3	4125	10153 SCRANTON	MIRA MESA	SORRENTO SOUTH DR	23 Scranton Rd		Mira Mesa Blvd	18525	17599
46 Polyline	2050 version 13 3 3	4123	14319 SCRANTON	zone connector	UNKNOWN	21 Scranton Rd		Mira Sorrento Pl	23727	22540
47 Polyline	2050 version_13_3_3	4129	14321 SCRANTON	MIRA SORRENTO	zone connector	21 Scranton Rd		Mira Sorrento Pl	18968	18020
48 Polyline	2050 version 13 3 3	4134	20418 YOUNGSTOWN	OBERLIN	CARROLL CANYON	11 Youngstown Wy		Carroll Canyon Rd	12586	11957
49 Polyline	2050 version_13_3_3	4148	3666 NANCY RIDGE	CARROLL CANYON	unknown	12 Nancy Ridge Dr		Carroll Canyon Rd	7053	6700
50 Polyline	2050 version_13_3_3	4154	14322 PACIFIC HEIGHTS	CORNERSTONE	CARROLL CANYON	33 Pacific Heights Blvd		Carroll Canyon Rd	23211	22050
51 Polyline	2050 version_13_3_3	4155	1630 OBERLIN	MIRA MESA	UNKNOWN	20 Lusk Blvd		Mira Mesa Blvd	20020	19019
52 Polyline	2050 version_13_3_3	4157	14323 CARROLL CANYON	NANCY RIDGE	PACIFIC HEIGHTS	12 Nancy Ridge Dr		Carroll Canyon Rd	27871	26478
53 Polyline	2050 version_13_3_3	4159	3665 MIRA MESA	LUSK	unknown	20 Lusk Blvd		Mira Mesa Blvd	41521	39445
54 Polyline	2050 version_13_3_3	4160	3917 LUSK	UNKNOWN	MIRA MESA	20 Lusk Blvd		Mira Mesa Blvd	31005	29455
55 Polyline	2050 version_13_3_3	4161	22004 CARROLL CANYON	PACIFIC HEIGHTS	UNKNOWN	33 Pacific Heights Blvd		Carroll Canyon Rd	33788	32098
56 Polyline	2050 version_13_3_3	4852	11421 SORRENTO VALLEY	UNKNOWN	VISTA SORRENTO	135 Vista Sorrento Pkwy		Sorrento Valley Blvd	36471	34647
57 Polyline	2050 version_13_3_3	4853 4879	19714 VISTA SORRENTO 9580 SORRENTO VALLEY	zone connector VISTA SORRENTO	SORRENTO VALLEY SORRENTO VALLEY	135 Vista Sorrento Pkwy 135 Vista Sorrento Pkwy		Sorrento Valley Blvd Sorrento Valley Blvd	21150 38245	20092 36333
58 Polyline 59 Polyline	2050 version_13_3_3 2050 version 13 3 3	4879 5164	17380 PACIFIC CENTER	PACIFIC HEIGHTS	UNKNOWN	28 Pacific Heights Blvd		Pacific Center Blvd	38245 13215	36333 12555
55 FOIYIIIIE	2020 4613001_12_3_3	5104	1/300 FACIFIC CLINER	ACTIC TEIGITTS		20 Facilie Heights DIVU		radine center bivu	13213	12333

60 Polyline	2050 version_13_3_3	5172	21227 BARNES CANYON	UNKNOWN	LUSK	18 Lusk Blvd	Barnes Canyon Rd	13148	12491
61 Polyline	2050 version_13_3_3	5173	30873 PACIFIC HEIGHTS	PACIFIC CENTER	zone connector	28 Pacific Heights Blvd	Pacific Center Blvd	8648	8216
62 Polyline	2050 version_13_3_3	5174	14299 LUSK	WATERRIDGE	PACIFIC CENTER	17 Pacific Center Blvd	Lusk Blvd	18847	17905
63 Polyline	2050 version_13_3_3	5183	14300 PACIFIC CENTER	LUSK	MC KELLAR	17 Pacific Center Blvd	Lusk Blvd	18638	17706
64 Polyline	2050 version_13_3_3	5188	23155 LUSK	PACIFIC CENTER	zone connector	17 Pacific Center Blvd	Lusk Blvd	12884	12240
65 Polyline	2050 version_13_3_3	5190	48746 UNKNOWN	LUSK	UNKNOWN	17 Pacific Center Blvd	Lusk Blvd	2787	2648
66 Polyline	2050 version 13 3 3	5194	14313 LUSK	zone connector	BARNES CANYON	18 Lusk Blvd	Barnes Canyon Rd	16282	15468
67 Polyline	2050 version 13 3 3	5195	14314 BARNES CANYON	LUSK	10140/COMSTREA	18 Lusk Blvd	Barnes Canyon Rd	23107	21952
68 Polyline	2050 version 13 3 3	5196	14301 PACIFIC CENTER	UNKNOWN	PACIFIC HEIGHTS	28 Pacific Heights Blvd	Pacific Center Blvd	9222	8761
69 Polyline	2050 version 13 3 3	5201	48827 UNKNOWN	UNKNOWN	PACIFIC CENTER	28 Pacific Heights Blvd	Pacific Center Blvd	4141	3934
70 Polyline	2050 version_13_3_3	5223	48644 GENETIC CENTER	TOP GUN	MIRA MESA	43 Genetic Center/Steadman St	Mira Mesa Blvd	21013	19962
71 Polyline	2050 version_13_3_3	5224	10460 TOP GUN	GENETIC CENTER	MIRA MESA	42 Sequence Dr/ Huennekens St	Mira Mesa Blvd	0	0
72 Polyline	2050 version 13 3 3	5225	14306 MIRA MESA	PACIFIC HEIGHTS	Huennekens	31 Pacific Heights Blvd	Mira Mesa Blvd	59289	56324
73 Polyline	2050 version 13 3 3	5227	14311 PACIFIC MESA	PACIFIC CENTER	PACIFIC HEIGHTS	29 Pacific Mesa Blvd	Pacific Center Blvd	21935	20838
74 Polyline	2050 version 13 3 3	5228	14304 PACIFIC CENTER	PACIFIC MESA	zone connector	29 Pacific Mesa Blvd	Pacific Center Blvd	33999	32299
75 Polyline	2050 version 13 3 3	5229	14310 PACIFIC HEIGHTS	PACIFIC MESA	MIRA MESA	31 Pacific Heights Blvd	Mira Mesa Blvd	30530	29003
76 Polyline	2050 version 13 3 3	5231	14303 BARNES CANYON	PACIFIC HEIGHTS	UNKNOWN	26 Pacific Heights Blvd	Barnes Canyon Rd	11874	11281
•						-			
77 Polyline	2050 version_13_3_3	5232	14307 PACIFIC HEIGHTS	BARNES CANYON	PACIFIC MESA	26 Pacific Heights Blvd	Barnes Canyon Rd	12034	11432
78 Polyline	2050 version_13_3_3	5236	14302 PACIFIC HEIGHTS	zone connector	BARNES CANYON	26 Pacific Heights Blvd	Barnes Canyon Rd	10510	9984
79 Polyline	2050 version_13_3_3	5237	48829 BARNES CANYON	zone connector	PACIFIC HEIGHTS	26 Pacific Heights Blvd	Barnes Canyon Rd	9763	9275
80 Polyline	2050 version_13_3_3	5239	48828 UNKNOWN	UNKNOWN	PACIFIC CENTER	29 Pacific Mesa Blvd	Pacific Center Blvd	658	625
81 Polyline	2050 version_13_3_3	5240	17381 PACIFIC CENTER	UNKNOWN	PACIFIC MESA	29 Pacific Mesa Blvd	Pacific Center Blvd	11673	11089
82 Polyline	2050 version_13_3_3	5242	48643 Huennekens	MIRA MESA	zone connector	42 Sequence Dr/ Huennekens St	Mira Mesa Blvd	15909	15113
83 Polyline	2050 version_13_3_3	5245	4485 MIRA MESA	TOP GUN	STEADMAN	42 Sequence Dr/ Huennekens St	Mira Mesa Blvd	43380	41211
84 Polyline	2050 version_13_3_3	5246	48645 STEADMAN	MIRA MESA	zone connector	43 Genetic Center/Steadman St	Mira Mesa Blvd	12905	12260
85 Polyline	2050 version_13_3_3	18476	48897 CAROLL CENTER	BLACK MOUNTAIN	UNKNOWN	99 Black Mountain Rd/Kearny Villa Rd	Black Mountain Rd/Carroll Centre Rd	16394	15575
86 Polyline	2050 version_13_3_3	18477	14404 BLACK MOUNTAIN	MAYA LINDA	CAROLL CENTER	98 Black Mountain Rd	Maya Linda Rd	30498	28973
87 Polyline	2050 version_13_3_3	18487	23142 I-15 HOV SB	MIRA MESA	POMERADO	85 I-15 SB Ramps	Miramar Rd	22772	21633
88 Polyline	2050 version_13_3_3	18488	23044 I-15 HOV NB	SR-163 NB	SR-163	69 I-15 SB Ramps	Carroll Canyon Rd	19821	18830
89 Polyline	2050 version_13_3_3	18489	31243 CAMINO SANTA FE	zone connector	SUMMERS RIDGE	116 Camino Santa Fe	Miratech Dr	37276	35412
90 Polyline	2050 version_13_3_3	18490	22039 CAMINO RUIZ	CARROLL CANYON	CARROLL CANYON	109 Camino Ruiz	Carroll Canyon Rd	35937	34141
91 Polyline	2050 version_13_3_3	18507	14679 RAMP	POMERADO	ramp I-15 NB	137 I-15 NB Ramps	Miramar Rd	1229	1168
92 Polyline	2050 version 13 3 3	18580	526 I-15 HOV NB	SR-163 NB	SR-163	85 I-15 SB Ramps	Miramar Rd	22861	21718
93 Polyline	2050 version_13_3_3	19843	8356 DOWDY	SILVERTON	MIRAMAR	78 Dowdy Dr	Miramar Rd	3759	3571
94 Polyline	2050 version 13 3 3	19847	1280 MIRAMAR	EMPIRE	DOWDY	78 Dowdy Dr	Miramar Rd	45683	43399
95 Polyline	2050 version_13_3_3	19928	3350 CAMINO SANTA FE	CARROLL	COMMERCE	87 Camino Santa Fe	Carroll Rd	39874	37880
96 Polyline	2050 version 13 3 3	19940	1628 MIRAMAR	DISTRIBUTION	MIRAMAR WAY	74 Distribution Ave	Miramar Rd	33499	31824
97 Polyline	2050 version 13 3 3	19943	22059 CARROLL	KENMAR	zone connector	88 Carroll Rd	Kenamar Dr	10296	9781
98 Polyline	2050 version 13 3 3	19945	10787 TRADE	CAMINO SANTA FE	UNKNOWN	119 Camino Santa Fe	Trade St	11432	10861
99 Polyline	2050 version 13 3 3	19948	17375 MIRAMAR	UNKNOWN	MILCH	72 Commerce Ave	Miramar Rd	37667	35783
100 Polyline	2050 version 13 3 3	19949	15078 CAMINO SANTA FE	CTE SANTA FE	MIRAMAR	71 Camino Santa Fe	Miramar Rd	40442	38420
101 Polyline	2050 version 13 3 3	19951	17374 MIRAMAR	CAMINO SANTA FE	UNKNOWN	71 Camino Santa Fe	Miramar Rd	36476	34653
102 Polyline	2050 version 13 3 3	19953	15077 MIRAMAR	UNKNOWN	CAMINO SANTA FE	71 Camino Santa Fe	Miramar Rd	78276	74362
103 Polyline	2050 version 13 3 3	19954	48680 FROST MAR PL	MIRAMAR	zone connector	71 Camino Santa Fe	Miramar Rd	1361	1293
104 Polyline	2050 version 13 3 3	19957	17377 MIRAMAR	UNKNOWN	PRODUCTION	73 Production Ave	Miramar Rd	34785	33046
105 Polyline	2050 version 13 3 3	19958	28866 COMMERCE	zone connector	MIRAMAR	72 Commerce Ave	Miramar Rd	3212	3051
105 Polyline	2050 version 13 3 3	19960	17376 MIRAMAR	COMMERCE	UNKNOWN	72 Commerce Ave	Miramar Rd	34785	33046
107 Polyline	2050 version 13 3 3	19961	48901 MILCH	MIRAMAR	unknown	72 Commerce Ave	Miramar Rd	6424	6103
107 Polyline 108 Polyline	2050 version 13 3 3	19964	15154 MIRAMAR	PRODUCTION	DISTRIBUTION	73 Production Ave	Miramar Rd	34145	32438
109 Polyline	2050 version 13 3 3	19965	17373 PRODUCTION					2681	2547
•		19965	14366 DISTRIBUTION	zone connector	MIRAMAR MIRAMAR	73 Production Ave	Miramar Rd	2001	2347
110 Polyline	2050 version_13_3_3			zone connector		74 Distribution Ave	Miramar Rd	2404 3746	3558
111 Polyline	2050 version_13_3_3	19968	48653 SUMMERS RIDGE	UNKNOWN	CAMINO SANTA FE	117 Camino Santa Fe	Summers Ridge Rd		
112 Polyline	2050 version_13_3_3	19971	5403 CARROLL	REHCO	CRESTMAR	86 Rehco Rd	Carroll Rd	14026	13325
113 Polyline	2050 version_13_3_3	19972	19284 CAMINO SANTA FE	SUMMERS RIDGE	unknown	116 Camino Santa Fe	Miratech Dr	35541	33764
114 Polyline	2050 version_13_3_3	19973	14334 CAMINO SANTA FE	CARROLL CANYON	UNKNOWN	119 Camino Santa Fe	Trade St	40845	38802
115 Polyline	2050 version_13_3_3	19978	48662 REHCO	CARROLL	zone connector	86 Rehco Rd	Carroll Rd	400	380
116 Polyline	2050 version_13_3_3	19981	48661 REHCO	zone connector	CARROLL	86 Rehco Rd	Carroll Rd	5235	4974
117 Polyline	2050 version_13_3_3	19982	15772 CARROLL	LIQUID	REHCO	86 Rehco Rd	Carroll Rd	9987	9488
118 Polyline	2050 version_13_3_3	19986	48652 SUMMERS RIDGE	zone connector	CAMINO SANTA FE	116 Camino Santa Fe	Miratech Dr	1734	1647
119 Polyline	2050 version_13_3_3	19988	8359 CAMINO SANTA FE	TRADE	CARROLL	119 Camino Santa Fe	Trade St	35455	33683
120 Polyline	2050 version_13_3_3	19990	8020 CARROLL	CAMINO SANTA FE	PRODUCTION	87 Camino Santa Fe	Carroll Rd	12260	11647

121 Polyline	2050 version_13_3_3	19991	5404 CARROLL	CRESTMAR	CAMINO SANTA FE	87 Camino Santa Fe	Carroll Rd	14873	14130
122 Polyline	2050 version_13_3_3	19992	48658 UNKNOWN	UNKNOWN	CAMINO SANTA FE	119 Camino Santa Fe	Trade St	2056	1954
123 Polyline	2050 version_13_3_3	19996	31244 CAMINO SANTA FE	unknown	SUMMERS RIDGE	117 Camino Santa Fe	Summers Ridge Rd	35541	33764
124 Polyline	2050 version_13_3_3	19998	19285 CAMINO SANTA FE	SUMMERS RIDGE	CARROLL CANYON	117 Camino Santa Fe	Summers Ridge Rd	39287	37323
125 Polyline	2050 version_13_3_3	20001	23137 MIRAMAR WAY	UNKNOWN	RAVEN	75 Miramar Wy	Miramar Rd	1918	1822
126 Polyline	2050 version_13_3_3	20002	48672 UNKNOWN	UNKNOWN	MIRAMAR	75 Miramar Wy	Miramar Rd	2989	2839
127 Polyline	2050 version 13 3 3	20007	14363 CARROLL	zone connector	MIRAMAR	76 Carroll Canyon Rd	Miramar Rd	8131	7724
128 Polyline	2050 version 13 3 3	20013	48669 UNKNOWN	UNKNOWN	CARROLL	88 Carroll Rd	Kenamar Dr	21	20
129 Polyline	2050 version 13 3 3	20014	5451 CARROLL	CARROLL WAY	UNKNOWN	88 Carroll Rd	Kenamar Dr	8761	8323
130 Polyline	2050 version 13 3 3	20024	23135 KENMAR	zone connector	CARROLL	88 Carroll Rd	Kenamar Dr	1535	1458
131 Polyline	2050 version 13 3 3	20024	48864 EMPIRE	zone connector	MIRAMAR	77 Alesmith Ct / Empire St	Miramar Rd	0	0
132 Polyline	2050 version 13 3 3	20027	6639 MIRAMAR		0 EMPIRE	77 Alesmith Ct / Empire St	Miramar Rd	45683	43399
133 Polyline	2050 version 13 3 3	20028	1290 MIRAMAR	8606-NORTHGATE PLAZA	CAMINO RUIZ	80 Camino Ruiz	Miramar Rd	50959	43335
134 Polyline	2050 version_13_3_3	20193	15135 CAMINO RUIZ	CARROLL CANYON	MIRALANI	109 Camino Ruiz	Carroll Canyon Rd	35937	34141
135 Polyline	2050 version_13_3_3	20197	27459 CABOT	zone connector	MIRAMAR	79 Cabot Dr	Miramar Rd	6616	6285
136 Polyline	2050 version_13_3_3	20212	355 CAMINO RUIZ	ACTIVITY	MIRAMAR	111 Camino Ruiz	Activity Rd	25996	24696
137 Polyline	2050 version_13_3_3	20214	357 ACTIVITY	CAMINO RUIZ	CLAYTON	111 Camino Ruiz	Activity Rd	12630	11999
138 Polyline	2050 version_13_3_3	20216	48634 UNKNOWN	UNKNOWN	CAMINO RUIZ	111 Camino Ruiz	Activity Rd	2704	2569
139 Polyline	2050 version_13_3_3	20217	7076 CAMINO RUIZ	UNKNOWN	ACTIVITY	111 Camino Ruiz	Activity Rd	25091	23836
140 Polyline	2050 version_13_3_3	20219	23165 MITCHNER	MIRAMAR	zone connector	81 Clayton Dr/Mitscher Wy	Miramar Rd	14718	13982
141 Polyline	2050 version 13 3 3	20220	30803 CLAYTON	zone connector	MIRAMAR	81 Clayton Dr/Mitscher Wy	Miramar Rd	14807	14067
142 Polyline	2050 version 13 3 3	20236	14411 I-15 SB	MIRAMAR	MIRAMAR	85 I-15 SB Ramps	Miramar Rd	167402	159032
143 Polyline	2050 version 13 3 3	20237	14409 I-15 NB	POMERADO	POMERADO	137 I-15 NB Ramps	Miramar Rd	147281	139917
144 Polyline	2050 version 13 3 3	20241	4487 BLACK MOUNTAIN	ACTIVITY	MIRAMAR	82 Black Mountain Rd	Miramar Rd	21236	20174
145 Polyline	2050 version 13 3 3	20242	2288 ACTIVITY	PADGETT	BLACK MOUNTAIN	100 Black Mountain Rd	Activity Rd	18119	17213
146 Polyline	2050 version 13 3 3	20242	48899 UNKNOWN	BLACK MOUNTAIN	UNKNOWN	100 Black Mountain Rd	Activity Rd	4159	3951
		20243	14405 BLACK MOUNTAIN	KEARNY VILLA	ACTIVITY	100 Black Mountain Rd	-	14751	14013
147 Polyline	2050 version_13_3_3						Activity Rd		14013
148 Polyline	2050 version_13_3_3	20247	14406 KEARNY VILLA	BLACK MOUNTAIN	CANDIDA	99 Black Mountain Rd/Kearny Villa Rd	Black Mountain Rd/Carroll Centre Rd	19974	
149 Polyline	2050 version_13_3_3	20250	3878 KEARNY VILLA	TIERRA GRANDE	MIRAMAR	83 Kearny Villa Rd	Miramar Rd	24456	23233
150 Polyline	2050 version_13_3_3	20251	14680 RAMP	ramp I-15 SB	ramp I-15 SB	84 Kearny Mesa Rd	Miramar Rd	12065	11462
151 Polyline	2050 version_13_3_3	20256	45608 RAMP	ramp	RAMP	85 I-15 SB Ramps	Miramar Rd	10479	9955
152 Polyline	2050 version_13_3_3	20257	1302 MIRAMAR	RAMP	RAMP	85 I-15 SB Ramps	Miramar Rd	37275	35412
153 Polyline	2050 version_13_3_3	20258	1627 MIRAMAR	KEARNY VILLA	unknown	83 Kearny Villa Rd	Miramar Rd	51634	49052
154 Polyline	2050 version_13_3_3	20259	3869 KEARNY VILLA	MIRAMAR	KEARNY MESA	83 Kearny Villa Rd	Miramar Rd	36173	34364
155 Polyline	2050 version_13_3_3	20260	34440 KEARNY MESA	KEARNY VILLA	MIRAMAR	84 Kearny Mesa Rd	Miramar Rd	1994	1894
156 Polyline	2050 version_13_3_3	20261	10532 KEARNY MESA RD	MIRAMAR	UNKNOWN	84 Kearny Mesa Rd	Miramar Rd	4349	4132
157 Polyline	2050 version 13 3 3	20262	1294 MIRAMAR	RAMP	RAMP	84 Kearny Mesa Rd	Miramar Rd	45134	42878
158 Polyline	2050 version 13 3 3	20263	1293 MIRAMAR	unknown	KEARNY MESA	84 Kearny Mesa Rd	Miramar Rd	51634	49052
159 Polyline	2050 version 13 3 3	20264	7862 MIRAMAR	KEARNY MESA RD	RAMP	84 Kearny Mesa Rd	Miramar Rd	57200	54340
160 Polyline	2050 version 13 3 3	20268	45607 FREEWAY RAMP	ramp I-15 NB	I-15 NB	137 I-15 NB Ramps	Miramar Rd	9133	8676
161 Polyline	2050 version 13 3 3	20269	45606 FREEWAY RAMP	MIRAMAR	ramp I-15 NB	137 I-15 NB Ramps	Miramar Rd	9133	8676
162 Polyline	2050 version 13 3 3	20205	2258 MIRAMAR	FREEWAY RAMP	RAMP	85 I-15 SB Ramps	Miramar Rd	47755	45367
163 Polyline	2050 version_13_3_3	20270	2257 MIRAMAR	RAMP	FREEWAY RAMP	137 I-15 NB Ramps	Miramar Rd	38622	36691
			48524 ALEMANIA	UNKNOWN	MERCY	-		2019	1918
164 Polyline	2050 version_13_3_3	20936				113 Alamenia Rd	Mercy Rd		
165 Polyline	2050 version_13_3_3	20937	3926 MERCY	ALEMANIA	RAMP	113 Alamenia Rd	Mercy Rd	22384	21265
166 Polyline	2050 version_13_3_3	20960	5980 BLACK MOUNTAIN	WESTVIEW	ROCKFIELD	90 Black Mountain Rd	Westview Pkwy	37505	35630
167 Polyline	2050 version_13_3_3	20968	4531 GOLD COAST	CAMINO RUIZ	SALUDA	107 Camino Ruiz	Gold Coast Dr	2516	2390
168 Polyline	2050 version_13_3_3	20973	48591 CAMINO RUIZ	UNKNOWN	CALLE CRISTOBAL	41 Camino Ruiz	Calle Cristobal	1233	1172
169 Polyline	2050 version_13_3_3	20974	14370 CALLE CRISTOBAL	CAMINO RUIZ	AVENIDA DEL GATO	41 Camino Ruiz	Calle Cristobal	11511	10936
170 Polyline	2050 version_13_3_3	20975	14369 CAMINO RUIZ	CALLE CRISTOBAL	AQUARIUS	41 Camino Ruiz	Calle Cristobal	12745	12108
171 Polyline	2050 version_13_3_3	20979	48594 TERESA	UNKNOWN	CAMINO RUIZ	101 Camino Ruiz	Teresa Dr/Capricorn Wy	2494	2369
172 Polyline	2050 version_13_3_3	20984	364 CAMINO RUIZ	GOLD COAST	JADE COAST	107 Camino Ruiz	Gold Coast Dr	29951	28453
173 Polyline	2050 version_13_3_3	20995	20115 WESTVIEW	BLACK MOUNTAIN	COMPASS POINT	90 Black Mountain Rd	Westview Pkwy	10671	10137
174 Polyline	2050 version_13_3_3	20996	14353 MIRA MESA	UNKNOWN	CAMINO RUIZ	51 Mira Mesa Mall Driveways	Mira Mesa Blvd	24656	23423
175 Polyline	2050 version_13_3_3	21005	13731 ADERMAN	zone connector	MIRA MESA	48 Aderman Ave	Mira Mesa Blvd	929	883
176 Polyline	2050 version 13 3 3	21006	14798 MIRA MESA	ADERMAN	DABNEY	48 Aderman Ave	Mira Mesa Blvd	43644	41462
177 Polyline	2050 version 13 3 3	21000	3938 FLANDERS	TOP GUN	MIRA MESA	44 Flanders Dr	Mira Mesa Blvd	9165	8707
178 Polyline	2050 version 13 3 3	21007	48648 VIPER WAY	TOP GUN	MIRA MESA	45 Viper Wy	Mira Mesa Blvd	15386	14616
179 Polyline	2050 version 13 3 3	21008	14342 CAMINO SANTA FE	MIRA MESA	FLANDERS	45 Vipel Wy 46 Camino Santa Fe	Mira Mesa Blvd	17334	16467
180 Polyline	2050 version 13 3 3	21010	14342 CAMINO SANTA PL 14339 FLANDERS	CAMINO SANTA FE	CAMTO ALVAREZ	10 Camino Santa Fe	Flanders Dr	7882	7488
181 Polyline	2050 version 13 3 3	21011 21012	4450 MIRA MESA	VIPER WAY	CAMINO SANTA FE	45 Viper Wy	Mira Mesa Blvd	43751	41564
TOT FOIMINE	2030 VEISIOII_13_3_3	21012			CAMINO SANTA FE			+3731	41304

182 Polyline	2050 version_13_3_3	21013	14343 MIRA MESA	CAMINO SANTA FE	CAMINITO ALVAREZ	46 Camino Santa Fe	Mira Mesa Blvd	43692	41507
183 Polyline	2050 version_13_3_3	21016	14341 CAMINO SANTA FE	FLANDERS	zone connector	10 Camino Santa Fe	Flanders Dr	37276	35412
184 Polyline	2050 version_13_3_3	21018	4451 MIRA MESA	FLANDERS	UNKNOWN	44 Flanders Dr	Mira Mesa Blvd	27411	26040
185 Polyline	2050 version_13_3_3	21020	14335 FLANDERS	MIRA MESA	MESA RIM	44 Flanders Dr	Mira Mesa Blvd	13040	12388
186 Polyline	2050 version_13_3_3	21021	14338 FLANDERS	zone connector	CAMINO SANTA FE	10 Camino Santa Fe	Flanders Dr	21227	20166
187 Polyline	2050 version 13 3 3	21022	48649 UNKNOWN	MIRA MESA	UNKNOWN	45 Viper Wy	Mira Mesa Blvd	16615	15784
188 Polyline	2050 version 13 3 3	21023	23139 TOP GUN	CAMINO SANTA FE	VIPER WAY	9 Camino Santa Fe	Top Gun St	12685	12051
189 Polyline	2050 version 13 3 3	21025	14337 CAMINO SANTA FE	TOP GUN	MIRA MESA	9 Camino Santa Fe	Top Gun St	14560	13832
190 Polyline	2050 version 13 3 3	21031	14344 MIRA MESA	SCHILING	CARRINGTON	47 Schilling Ave	Mira Mesa Blvd	41541	39464
191 Polyline	2050 version 13 3 3	21032	48716 SCHILING	zone connector	MIRA MESA	47 Schilling Ave	Mira Mesa Blvd	3167	3009
192 Polyline	2050 version 13 3 3	21032	48717 CAMINITO ALVAREZ	MIRA MESA	zone connector	47 Schilling Ave	Mira Mesa Blvd	1892	1798
192 Polyline 193 Polyline	2050 version 13 3 3	21035	48720 ADERMAN	zone connector	MIRA MESA	47 Schilling Ave 48 Aderman Ave	Mira Mesa Blvd	2919	2773
•									
194 Polyline	2050 version_13_3_3	21037	14346 MIRA MESA	UNKNOWN	ADERMAN	48 Aderman Ave	Mira Mesa Blvd	41541	39464
195 Polyline	2050 version_13_3_3	21038	14292 CALLE CRISTOBAL	CAMINO PROPICO	CAMINO SANTA FE	8 Camino Santa Fe	Sorrento Valley Blvd	18429	17507
196 Polyline	2050 version_13_3_3	21065	4454 MIRA MESA	PARKDALE	MONTONGO	49 Parkdale Ave	Mira Mesa Blvd	36305	34490
197 Polyline	2050 version_13_3_3	21071	5420 PARKDALE	BENDIGO	MIRA MESA	49 Parkdale Ave	Mira Mesa Blvd	7078	6724
198 Polyline	2050 version_13_3_3	21074	14797 MIRA MESA	DABNEY	PARKDALE	49 Parkdale Ave	Mira Mesa Blvd	43644	41462
199 Polyline	2050 version_13_3_3	21076	3847 PARKDALE	MIRA MESA	DANCY	49 Parkdale Ave	Mira Mesa Blvd	8803	8363
200 Polyline	2050 version_13_3_3	21084	2929 GOLD COAST	BARONESS	CAMINO RUIZ	107 Camino Ruiz	Gold Coast Dr	7321	6955
201 Polyline	2050 version_13_3_3	21085	382 CAMINO RUIZ	FLANDERS	GOLD COAST	107 Camino Ruiz	Gold Coast Dr	26966	25618
202 Polyline	2050 version 13 3 3	21089	23134 REAGAN	MIRA MESA	BERWYN	50 Reagan Rd	Mira Mesa Blvd	5088	4834
203 Polyline	2050 version 13 3 3	21091	4452 MIRA MESA	MONTONGO	REAGAN	50 Reagan Rd	Mira Mesa Blvd	33719	32033
204 Polyline	2050 version 13 3 3	21097	14348 REAGAN	zone connector	MIRA MESA	50 Reagan Rd	Mira Mesa Blvd	1860	1767
205 Polyline	2050 version 13 3 3	21098	14350 MIRA MESA	REAGAN	UNKNOWN	50 Reagan Rd	Mira Mesa Blvd	29491	28016
206 Polyline	2050 version 13 3 3	21099	48608 UNKNOWN	MIRA MESA	UNKNOWN	51 Mira Mesa Mall Driveways	Mira Mesa Blvd	968	919
207 Polyline	2050 version 13 3 3	21100	48609 UNKNOWN	UNKNOWN	MIRA MESA	51 Mira Mesa Mall Driveways	Mira Mesa Blvd	5802	5512
208 Polyline	2050 version_13_3_3	21100	20110 WESTONHILL	WESTMORE	MIRA MESA	54 Westonhill Dr	Mira Mesa Blvd	9723	9237
209 Polyline	2050 version 13 3 3	21195	14391 I-15 SB	MIRA MESA	MIRA MESA	59 I-15 SB Ramps	Mira Mesa Blvd		140023
210 Polyline	2050 version 13 3 3	21190	30720 WESTVIEW PKWY	UNKNOWN	MIRA MESA	58 Westview Pkwy	Mira Mesa Blvd	28603	27172
						-			
211 Polyline	2050 version_13_3_3	21211	528 I-15 HOV SB	I-15 SB	RANCHO PENASQUITOS	59 I-15 SB Ramps	Mira Mesa Blvd	23127	21970
212 Polyline	2050 version_13_3_3	21217	4449 MIRA MESA	UNKNOWN	WESTMORE	56 Westmore Rd/Marbury Ave	Mira Mesa Blvd	40877	38833
213 Polyline	2050 version_13_3_3	21218	4456 MIRA MESA	WESTMORE	RICKERT	56 Westmore Rd/Marbury Ave	Mira Mesa Blvd	43778	41589
214 Polyline	2050 version_13_3_3	21227	4453 MIRA MESA	REAGAN	WESTONHILL	53 New Salem St/Marauder Wy	Mira Mesa Blvd	49900	47405
215 Polyline	2050 version_13_3_3	21239	14356 REAGAN	BARON	MIRA MESA	53 New Salem St/Marauder Wy	Mira Mesa Blvd	2507	2382
216 Polyline	2050 version_13_3_3	21242	14354 CAMINO RUIZ	MIRA MESA	UNKNOWN	52 Camino Ruiz	Mira Mesa Blvd	17283	16418
217 Polyline	2050 version_13_3_3	21244	14357 MIRA MESA	CAMINO RUIZ	zone connector	52 Camino Ruiz	Mira Mesa Blvd	37213	35352
218 Polyline	2050 version_13_3_3	21247	14352 CAMINO RUIZ	zone connector	MIRA MESA	52 Camino Ruiz	Mira Mesa Blvd	26216	24906
219 Polyline	2050 version_13_3_3	21251	14360 NEW SALEM	zone connector	MIRA MESA	53 New Salem St/Marauder Wy	Mira Mesa Blvd	4283	4069
220 Polyline	2050 version_13_3_3	21254	14358 MIRA MESA	zone connector	REAGAN	53 New Salem St/Marauder Wy	Mira Mesa Blvd	46101	43795
221 Polyline	2050 version_13_3_3	21262	20111 WESTONHILL	MIRA MESA	HILLERY	54 Westonhill Dr	Mira Mesa Blvd	7284	6920
222 Polyline	2050 version 13 3 3	21266	48723 GREENFORD	zone connector	MIRA MESA	55 Greenford Dr	Mira Mesa Blvd	1224	1163
223 Polyline	2050 version 13 3 3	21267	4455 MIRA MESA	WESTONHILL	GREENFORD	54 Westonhill Dr	Mira Mesa Blvd	56548	53720
224 Polyline	2050 version_13_3_3	21270	2293 GREENFORD	MIRA MESA	HILLERY	55 Greenford Dr	Mira Mesa Blvd	5516	5240
225 Polyline	2050 version 13 3 3	21271	27873 MIRA MESA	GREENFORD	UNKNOWN	55 Greenford Dr	Mira Mesa Blvd	50781	48242
226 Polyline	2050 version 13 3 3	21275	2319 CAMINO RUIZ	CAPRICORN	HYDRA	101 Camino Ruiz	Teresa Dr/Capricorn Wy	12792	12152
227 Polyline	2050 version 13 3 3	21288	2966 CAPRICORN	CAMINO RUIZ	KELOWNA	101 Camino Ruiz	Teresa Dr/Capricorn Wy	8836	8394
228 Polyline	2050 version 13 3 3	21289	14368 AQUARIUS	CAMINO RUIZ	KELOWNA	132 Camino Ruiz	Aquarious Dr	9218	8758
229 Polyline	2050 version_13_3_3	21205	14367 CAMINO RUIZ	AQUARIUS	ZAPATA	132 Camino Ruiz	Aquarious Dr	8259	7846
230 Polyline	2050 version 13 3 3	21291	384 CAMINO RUIZ	ZAPATA	CAPRICORN	101 Camino Ruiz	Teresa Dr/Capricorn Wy	10527	10001
								4003	
231 Polyline	2050 version_13_3_3	21307	20101 WESTMORE	VIA SAN BLAS	MIRA MESA	56 Westmore Rd/Marbury Ave	Mira Mesa Blvd		3803
232 Polyline	2050 version_13_3_3	21309	48725 MARBURY	MIRA MESA	zone connector	56 Westmore Rd/Marbury Ave	Mira Mesa Blvd	748	711
233 Polyline	2050 version_13_3_3	21320	1221 GOLD COAST	BLACK MOUNTAIN	zone connector	96 Black Mountain Rd	Gold Coast Dr	6663	6329
234 Polyline	2050 version_13_3_3	21322	1203 MAYA LINDA	BLACK MOUNTAIN	unknown	98 Black Mountain Rd	Maya Linda Rd	8536	8109
235 Polyline	2050 version_13_3_3	21328	4513 BLACK MOUNTAIN	UNKNOWN	GOLD COAST	95 Black Mountain Rd	Miramar College	31647	30065
236 Polyline	2050 version_13_3_3	21332	4491 BLACK MOUNTAIN	zone connector	CARROLL CANYON	97 Black Mountain Rd	Carroll Canyon Rd	31259	29696
237 Polyline	2050 version_13_3_3	21333	2964 GOLD COAST	THANKSGIVING	BLACK MOUNTAIN	96 Black Mountain Rd	Gold Coast Dr	10772	10233
238 Polyline	2050 version_13_3_3	21334	19291 MAYA LINDA	UNKNOWN	BLACK MOUNTAIN	98 Black Mountain Rd	Maya Linda Rd	15074	14320
239 Polyline	2050 version_13_3_3	21338	4476 BLACK MOUNTAIN	CARROLL CANYON	MAYA LINDA	97 Black Mountain Rd	Carroll Canyon Rd	19348	18381
240 Polyline	2050 version_13_3_3	21339	6640 CARROLL CANYON	BLACK MOUNTAIN	CAMTO ZAR	97 Black Mountain Rd	Carroll Canyon Rd	31578	29999
241 Polyline	2050 version_13_3_3	21340	365 CARROLL CANYON	UNKNOWN	BLACK MOUNTAIN	97 Black Mountain Rd	Carroll Canyon Rd	37832	35940
242 Polyline	2050 version_13_3_3	21341	4490 BLACK MOUNTAIN	GOLD COAST	zone connector	96 Black Mountain Rd	Gold Coast Dr	32813	31172
•									

243 Polyline	2050 version_13_3_3	21342	1220 HILLERY	UNKNOWN	BLACK MOUNTAIN	94 Black Mountain Rd	Hillery Dr	16868	16025
244 Polyline	2050 version_13_3_3	21345	4512 BLACK MOUNTAIN	HILLERY	UNKNOWN	94 Black Mountain Rd	Hillery Dr	29797	28307
245 Polyline	2050 version_13_3_3	21349	48855 UNKNOWN	BLACK MOUNTAIN	UNKNOWN	95 Black Mountain Rd	Miramar College	5277	5013
246 Polyline	2050 version_13_3_3	21351	14379 BLACK MOUNTAIN	zone connector	HILLERY	94 Black Mountain Rd	Hillery Dr	23657	22474
247 Polyline	2050 version_13_3_3	21352	23154 HILLERY	BLACK MOUNTAIN	UNKNOWN	94 Black Mountain Rd	Hillery Dr	13803	13113
248 Polyline	2050 version_13_3_3	21354	14677 RAMP	ramp I-15 SB	ramp I-15 SB	69 I-15 SB Ramps	Carroll Canyon Rd	14485	13761
249 Polyline	2050 version_13_3_3	21355	27304 RAMP	I-15 SB	CARROLL CANYON	69 I-15 SB Ramps	Carroll Canyon Rd	12951	12303
250 Polyline	2050 version_13_3_3	21356	1204 MAYA LINDA	MESA SPRINGS	CARROLL CANYON	68 Maya Linda Rd	Carroll Canyon Rd	7921	7525
251 Polyline	2050 version_13_3_3	21357	14400 I-15 SB	CARROLL CANYON	CARROLL CANYON	69 I-15 SB Ramps	Carroll Canyon Rd	152170	144561
252 Polyline	2050 version_13_3_3	21360	10857 CARROLL CANYON	RAMP	RAMP	69 I-15 SB Ramps	Carroll Canyon Rd	46247	43935
253 Polyline	2050 version_13_3_3	21364	1205 MAYA LINDA	CARROLL CANYON	GOLD COAST	68 Maya Linda Rd	Carroll Canyon Rd	15081	14327
254 Polyline	2050 version_13_3_3	21367	3428 CARROLL CANYON	CAMTO JOVIAL	MAYA LINDA	68 Maya Linda Rd	Carroll Canyon Rd	34837	33095
255 Polyline	2050 version_13_3_3	21369	1751 CARROLL CANYON	MAYA LINDA	RAMP	68 Maya Linda Rd	Carroll Canyon Rd	56284	53470
256 Polyline	2050 version_13_3_3	21373	10856 CARROLL CANYON	RAMP	UNKNOWN	70 I-15 NB Ramps	Carroll Canyon Rd	38994	37044
257 Polyline	2050 version_13_3_3	21389	5981 BLACK MOUNTAIN	CAPRICORN	LONGRIDGE	91 Black Mountain Rd	Capricorn Wy	26898	25553
258 Polyline	2050 version_13_3_3	21390	14378 GALVIN	ICE SKATE	WESTVIEW	65 Westview Pkwy	Galvin Ave	4007	3807
259 Polyline	2050 version_13_3_3	21396	14376 CAPRICORN	FEATHERHILL	WESTVIEW	63 Westview Pkwy	Capricorn Wy	4857	4615
260 Polyline	2050 version_13_3_3	21397	4525 MIRA MESA	zone connector	WESTVIEW PKWY	58 Westview Pkwy	Mira Mesa Blvd	59288	56323
261 Polyline	2050 version_13_3_3	21398	22488 WESTVIEW	CAPRICORN	UNKNOWN	63 Westview Pkwy	Capricorn Wy	15460	14687
262 Polyline	2050 version_13_3_3	21401	48844 Achilles	zone connector	BLACK MOUNTAIN	92 Black Mountain Rd	Galvin Ave	761	723
263 Polyline	2050 version_13_3_3	21402	4776 BLACK MOUNTAIN	GALVIN	GEMINI	92 Black Mountain Rd	Galvin Ave	25863	24570
264 Polyline	2050 version_13_3_3	21405	2287 GEMINI	JANICE	BLACK MOUNTAIN	93 Black Mountain Rd	Gemini Ave	14356	13639
265 Polyline	2050 version_13_3_3	21407	7075 MIRA MESA	UNKNOWN	BLACK MOUNTAIN	57 Black Mountain Rd	Mira Mesa Blvd	43778	41589
266 Polyline	2050 version_13_3_3	21408	22554 GEMINI	PEGASUS	JANICE	93 Black Mountain Rd	Gemini Ave	14104	13399
267 Polyline	2050 version_13_3_3	21409	30725 MIRA MESA	RICKERT	UNKNOWN	57 Black Mountain Rd	Mira Mesa Blvd	43778	41589
268 Polyline	2050 version_13_3_3	21412	4778 BLACK MOUNTAIN	unknown	MIRA MESA	57 Black Mountain Rd	Mira Mesa Blvd	31011	29460
269 Polyline	2050 version_13_3_3	21415	8109 MIRA MESA	BLACK MOUNTAIN	zone connector	57 Black Mountain Rd	Mira Mesa Blvd	59380	56411
270 Polyline	2050 version_13_3_3	21416	15101 BLACK MOUNTAIN	unknown	WOODS/VILLAGE GRN	57 Black Mountain Rd	Mira Mesa Blvd	37493	35618
271 Polyline	2050 version_13_3_3	21417	14380 BLACK MOUNTAIN	MIRA MESA	unknown	57 Black Mountain Rd	Mira Mesa Blvd	37493	35618
272 Polyline	2050 version_13_3_3	21418	4777 BLACK MOUNTAIN	GEMINI	unknown	93 Black Mountain Rd	Gemini Ave	31011	29460
273 Polyline	2050 version_13_3_3	21419	48847 GEMINI	BLACK MOUNTAIN	zone connector	93 Black Mountain Rd	Gemini Ave	2984	2835
274 Polyline	2050 version_13_3_3	21420	14377 GALVIN	BLACK MOUNTAIN	ICE SKATE	92 Black Mountain Rd	Galvin Ave	2602	2471
275 Polyline	2050 version_13_3_3	21421	4508 BLACK MOUNTAIN	LONGRIDGE	GALVIN	92 Black Mountain Rd	Galvin Ave	26503	25177
276 Polyline	2050 version_13_3_3	21423	1196 CAPRICORN	HAVERFIELD	BLACK MOUNTAIN	91 Black Mountain Rd	Capricorn Wy	17869	16976
277 Polyline	2050 version_13_3_3	21426	4507 BLACK MOUNTAIN	ROCKFIELD	CAPRICORN	91 Black Mountain Rd	Capricorn Wy	38572	36643
278 Polyline	2050 version_13_3_3	21428	14375 CAPRICORN	BLACK MOUNTAIN RAMP	FEATHERHILL	91 Black Mountain Rd	Capricorn Wy Mira Mesa Blvd	2955	2807 71546
279 Polyline	2050 version_13_3_3	21431	4509 MIRA MESA		ramp I-15 SB	59 I-15 SB Ramps		75312	
280 Polyline	2050 version_13_3_3	21433 21439	20118 WESTVIEW	GALVIN	zone connector	65 Westview Pkwy	Galvin Ave	16426 138617	15604 131686
281 Polyline	2050 version_13_3_3	21439 21441	28809 I-15 SB	MIRA MESA	MIRA MESA	59 I-15 SB Ramps	Mira Mesa Blvd	24982	23733
282 Polyline 283 Polyline	2050 version_13_3_3 2050 version 13 3 3	21441 21443	20119 WESTVIEW 4993 MIRA MESA	zone connector WESTVIEW	MIRA MESA RAMP	58 Westview Pkwy 58 Westview Pkwy	Mira Mesa Blvd Mira Mesa Blvd	24982 92784	23733 88145
283 Polyline 284 Polyline	2050 version 13 3 3	21445	48852 MIRA LEE WAY	WESTVIEW	zone connector	64 Westview Pkwy	Mira Mesa Bivu Mira Lee Wy	3042	2890
284 Polyline 285 Polyline		21444	20117 WESTVIEW	MIRA LEE WAY	GALVIN	65 Westview Pkwy	Galvin Ave	12827	12186
285 Polyline 286 Polyline	2050 version_13_3_3 2050 version_13_3_3	21440	48850 UNKNOWN	UNKNOWN	WESTVIEW	64 Westview Pkwy	Mira Lee Wy	0	0
287 Polyline	2050 version 13 3 3	21447	4511 MIRA MESA	FUTURE RAIL STATION	RAMP	59 I-15 SB Ramps	Mira Mesa Blvd	75236	71474
288 Polyline	2050 version 13 3 3	21440	14390 RAMP	ramp I-15 SB	I-15 SB	59 I-15 SB Ramps	Mira Mesa Blvd	8776	8337
289 Polyline	2050 version 13 3 3	21454	4510 MIRA MESA	ramp I-15 SB	FUTURE RAIL STATION	59 I-15 SB Ramps	Mira Mesa Blvd	75312	71546
290 Polyline	2050 version 13 3 3	21460	48996 CAPRICORN WAY	WESTVIEW	zone connector	63 Westview Pkwy	Capricorn Wy	1335	1269
291 Polyline	2050 version 13 3 3	21462	20116 WESTVIEW	COMPASS POINT	CAPRICORN	63 Westview Pkwy	Capricorn Wy	10671	10137
292 Polyline	2050 version 13 3 3	21479	48842 UNKNOWN	UNKNOWN	MERCY	89 Black Mountain Rd	Mercy Rd	1676	1592
293 Polyline	2050 version 13 3 3	21524	14387 MERCY	KIKA	ALEMANIA	113 Alamenia Rd	Mercy Rd	19671	18688
294 Polyline	2050 version 13 3 3	21525	14389 MERCY	BLACK MOUNTAIN	CHABOLA	89 Black Mountain Rd	Mercy Rd	19193	18233
295 Polyline	2050 version 13 3 3	21526	11440 BLACK MOUNTAIN	CANYONSIDE PARK DRIV	MERCY	89 Black Mountain Rd	Mercy Rd	44595	42365
296 Polyline	2050 version 13 3 3	21527	11442 BLACK MOUNTAIN	MERCY	BABAUTA	89 Black Mountain Rd	Mercy Rd	45645	43362
297 Polyline	2050 version 13 3 3	21528	11441 BLACK MOUNTAIN	BABAUTA	WESTVIEW	136 Black Mountain Rd	Babauta Rd	48176	45767
298 Polyline	2050 version 13 3 3	21529	48525 ALEMANIA	MERCY	zone connector	113 Alamenia Rd	Mercy Rd	743	706
299 Polyline	2050 version 13 3 3	21947	525 I-15 HOV SB	I-15 SB	RANCHO PENASQUITOS	114 I-15 SB Ramps	Mercy Rd	23464	22291
300 Polyline	2050 version 13 3 3	21949	2589 RAMP	I-15 SB	MERCY	114 I-15 SB Ramps	Mercy Rd	11161	10602
301 Polyline	2050 version 13 3 3	21958	25100 I-15 SB	MERCY	MERCY	114 I-15 SB Ramps	Mercy Rd	139738	132751
302 Polyline	2050 version 13 3 3	21959	14667 RAMP	ramp I-15 SB	ramp I-15 SB	114 I-15 SB Ramps	Mercy Rd	14896	14151
303 Polyline	2050 version 13 3 3	21969	3925 MERCY	RAMP	RAMP	114 I-15 SB Ramps	Mercy Rd	38464	36541
						-			

304 Polyline	20E0 version 12 2 2	21070	8326 SCRIPPS POWAY	RAMP	ramp I-15 HOV NB	115 I-15 NB Ramps	Morey Dd	55195	52435
SU4 POlyIIIIe	2050 version_13_3_3	21970	6520 SCRIPPS POWAT	RAIVIP		TTO I-TO IND Kallips	Mercy Rd	22132	52455

LAND USE INPUTS FOR PREFERRED MODEL RUN WITH MIRA MESA OVERRIDES

TAZ	MGRA	lu_type_id	LU CODE	Amount_
2279	6285	3	7609	0
2279	6284	3	2301	0
2279	6284	3	7609	0
2279	6283		4102	0
2279	6283	3	2201	205
2279	6283	3	7609	0
2200	6282	3	4117	0
2200	6281		4102	0
2200	6281	3	6701	0
2200	6281	3	7609	0
2200	6281	3	9101	0
2233	6270	3	4112	0
2233	6270	3	4118	0
2233	6270	3	7609	0
2222	6269	3	4118	0
2222	6269	3	7609	0
2222	6268	3	4118	0
2222	6268	3	5033	67
2406	5434	3	4113	0
2329	5209	1	102	92
2329	5209	3	4117	0
2329		3	4118	0
2329	5209	3	7607	0
2329		3	7609	0
2329		1	102	214
2329		3	4118	0
2329		3	7607	0
2303		3	7606	0
2303		3	9101	0
2282		1	102	444
2282			6102	9
2282		1	102	330
2282		3	6071	578
2303		1	101	75
2303		3	4118	0
2303		3	7606	0
2303		3	7607	0
2303		1	102	338
2282		1	102	383
2282		3	4118	0
2282		3	7607	0
2282		1	102 4118	466 0
2282				
2329		1	101 4118	146
2329		3		0
2329	5200	3	7606	0
2303	5199	1	101	102
--------------	------	---	------	------
2303	5199	3	4118	0
2303	5199	3	7606	0
2303	5199	3	7607	0
2303	5198	1	102	123
2303	5198	3	4118	0
2303	5198	3	7607	0
2303	5197	1	102	244
2303	5197	3	4118	0
2303	5197	3	7607	0
2283	5196	3	4118	0
2283	5196	3	5003	186
2283	5190	1	102	586
2283	5195	1	102	1390
2283	5194	3	4118	0
2283 2283	5193	1	102	381
	5193	3	4118	0
2311	5192	1	102	467
2311	5192	3	4118	0
2311	5192	3	7601	0
2311	5192	3	7607	0
2311	5190	1	102	318
2311	5190	3	4112	0
2311	5190	3	4118	0
2311	5188	1	102	310
2311	5188	3	4112	0
2311	5188	3	4118	0
2311	5188	3	7609	0
2300	5185	1	102	548
2300	5185	3	4118	0
2269	5184	1	102	256
2269	5184	3	4118	0
2269	5184	3	7607	0
2269	5183	1	102	532
2269	5183	3	4118	0
2266	5182	1	102	30
2266	5182	3	4118	0
2266	5182	3	5003	346
2269	5181	1	102	418
2269	5181	3	4118	0
2269	5181	3	5012	53
2269	5181	3	6081	611
2269	5181	3	7607	0
2269	5180	1	102	84
2269	5180	3	1501	97
2269	5180	3	4118	0
2269	5180	7	1501	288

2266	5179	3	1501	37
2266	5179	3	4118	0
2266	5179	3	5007	57
2266	5179	3	5021	11
2266	5179	3	5027	33
2266	5179	3	6041	128
2266	5179	3	6071	488
2266	5179	7	1501	400
2222	4966	3	2101	10
2222	4966	3	4118	0
2222	4966	3	5026	28
2222	4966	3	5020	96
2222	4966	3	5029	90 7
2222				
	4965	3	2101	46
2222	4965	3	2103	74
2222	4965	3	2105	4
2222	4965	3	4118	0
2222	4965	3	5029	8
2222	4965	3	6109	12
2222	4964			0
2222	4964		9503	0
2222	4964	3	2101	20
2222	4964	3	2103	25
2222	4964	3	2104	102
2222	4964	3	4114	0
2222	4964	3	4118	0
2222	4964	3	5029	11
2222	4964	3	5033	50
2222	4963	3	2101	238
2233	4962	3	4112	0
2233	4962	3	4113	100
2233	4961	3	4118	0
2233	4961	3	7609	0
2222	4960	3	2101	156
2222	4960	3	2103	21
2222	4960	3	2104	18
2222	4960	3	4117	0
2222	4960	3	4118	0
2222	4960	3	5033	9
2222	4959	3	2104	21
2222	4959	3	2107	6
2222	4959	3	5033	25
2222	4959	3	7609	0
2210	4958	3	2101	152
2210	4958	3	2101	2
2210	4958	3	2105	6
2210	4958	3	2103	8
2210	4550	5	2107	0

2210	4958	3	4118	0
2210	4957	3	2103	370
2210	4957	3	2201	93
2210	4956	3	2101	37
2210	4956	3	2103	250
2210	4956	3	2105	12
2210	4956	3	4118	0
2222	4955	3	2101	198
			2101	
2222	4955	3		409
2222	4955	3	2104	22
2222	4955	3	2107	20
2222	4955	3	4117	0
2222	4955	3	4118	0
2222	4955	3	5029	10
2222	4955	3	5033	7
2222	4955	3	7609	0
2222	4955	3	9101	0
2210	4954	3	2101	130
2210	4954	3	2103	163
2210	4954	3	7609	0
2210	4953	3	4112	0
2210	4953	3	4113	25
2210	4953	3	4117	0
2210	4953	3	4118	0
2210	4953			
		3	7609	0
2210	4952	3	2103	175
2210	4952	3	2107	0
2210	4952	3	7609	0
2195	4888	3	4117	0
2357	4760	1	101	24
2357	4760	3	4118	0
2357	4759	1	101	131
2357	4759	3	4118	0
2357	4759	3	7606	0
2357	4758	1	101	106
2357	4758	3	4118	0
2357	4757	1	101	6
2357	4757	3	4118	0
2357	4756	1	101	63
2357	4756	3	4118	0
2357	4755	1	102	262
2357	4755	3	4118	0
2357	4755	3	5003	100
2357	4755	3	5010	52
2357	4755	3	5013	104
2357	4755	3	5016	54
2357	4755	3	5022	14

2357	4755	3	5025	16
2357	4755	3	6103	24
2357	4755	3	6511	7
2357	4755	3	6809	15
2357	4755	8	6809	133
2357	4754	1	102	52
2357	4754	3	4112	0
2357	4753	1	102	76
2357	4753	3	4118	0
2357	4752	1	101	24
2364	4751	1	102	172
2364	4751	3	4112	0
2364	4751	3	4118	0
2364	4751	3	7609	0
2357	4750	1	101	21
2357	4750	3	4118	0
2364	4749	1	102	72
2364	4749	3	1411	0
2364	4749	3	4118	0
2357	4748	1	101	20
2357	4748	3	4118	0
2357	4747	1	101	10
2357	4747	3	4118	0
2364	4746	1	101	164
2364	4746	3	4112	0
2364	4746	3	4118	0
2364	4745	1	102	827
2364	4745	3	4118	0
2364	4744	1	101	106
2364	4744	3	4118	0
2364	4743	1	101	
2364	4743 4743	1	102	54
2364 2342	4743	3	4118 4118	0
2342	4742	3	6041	398
2342	4742	3	6051	552
2342	4742	3	6061	627
2342	4742	3	6112	74
2342	4741	3	4113	0
2342	4741	3	4118	0
2342	4741	3	6061	616
2342	4741	3	6071	509
2342	4741	3	6081	707
2342	4740	3	4118	0
2342	4740	3	6031	81
2342	4740	3	6041	438
2342	4740	3	6071	520

2342	4740	3	6102	12
2302	4739	1	101	100
2302	4739	3	4118	0
2302	4738	1	101	47
2302	4738	3	4118	0
2302	4737	1	101	48
2302	4737	3	4118	
2302	4736	1	101	15
2328	4735	1	101	56
2302	4735	3	4118	0
2302	4734	1	101	132
2302	4734	3	4118	0
2302	4733	1	101	80
2302	4733	3	4118	0
2308	4732	1	101	114
2308	4732	3	4118	0
2302	4731	3	4118	0
2302	4731	3	6031	100
2302	4731	3	7601	0
2302	4731	3	7609	0
2328	4730	1	101	57
2328	4730	3	4118	0
2328	4730	3	6806	0
2328	4730	8	6806	0
2328	4729	1	102	75
2328	4729	3	4118	0
2328	4729	3	5025	6
2328	4729	3	6806	65
2328	4729	8	6806	593
2328	4728	1	101	145
2328	4728	3	4118	0
2308	4727	1	101	53
2308	4727	3	4118	0
2308	4726	3	4118	0
2308	4726	3	6804	329
2308	4726	3	7609	0
2308	4726	8	6804	1855
2308	4725	1	101	103
2308	4725	3	4117	0
2308	4725	3	4118	0
2308	4725	3	7609	0
2302	4724	1	101	257
2302	4724	3	4112	0
2302	4724	3	4118	0
2302	4724	3	7601	0
2302	4724	3	7609	0
2292	4723	1	102	474

2292	4723	3	4118	0
2292	4722	1	102	127
2292	4722	3	4117	0
2292	4722	3	4118	0
2292	4721	1	102	339
2292	4721	3	4117	0
2292	4721	3	4118	0
2292	4721	3	7609	0
2292	4720	1	102	213
2292	4720	3	4118	0
2292	4719	1	102	163
2292	4719	3	4118	0
2292	4718	1	102	240
2292	4718	3	4118	0
2292	4718	3	6806	94
2292	4718	3	7607	0
2292	4718	8	6806	1000
2286	4717	1	102	500
2286	4717	3	4118	0
2286	4717	3	7601	8
2264	4716	1	102	577
2264	4716	3	1410	499
2264	4716	3	4118	0
2264	4715	3	5003	607
2264	4714	1	102	985
2264	4714	3	4118	0
2264	4714	3	7606	0
2264	4713	1	102	560
		3		
2264	4713		1502	0
2264	4713	3	4118	0
2264	4713	7	1502	200
2253	4712	3	1502	369
2253	4712	3	4118	0
2253	4712	3	6007	128
2253	4712	3	6071	479
2253	4712	7	1502	360
2253	4711	3	6081	2267
2253	4710	1	102	574
2253	4710	3	5007	31
2253	4710	3	6007	110
2246	4709	3	4113	0
2246	4709	3	4118	0
2246	4709	3	6051	230
2246	4709	3	6105	125
2246	4709	3	7215	150
2246	4709	3	7601	0
2272	4708	1	102	302
/2	1,00	-	102	002

2265	4707	3	4118	0
2265	4707	3	6051	210
2265	4707	3	6071	999
2272	4706	1	102	509
2272	4706	3	1410	223
2272	4706	3	4118	0
2272	4706	3	7607	0
2272	4705	1	102	433
2272	4705	3	4118	0
2272	4705	3	7607	0
2265	4704	1	102	355
2265	4704	3	4118	0
2265	4704	3	5007	33
2265	4703	3	1502	0
2265	4703	3	4112	0
2265	4703	3	6081	2173
2265	4703	3	7215	0
2265	4703	7	1502	417
2285	4702	, 1	102	644
2285	4702	3	4118	0
2285	4702	3	7606	0
2205	4702	1	102	338
2285	4701	1	102	136
2285	4700	3	4118	0
2285	4700	3	5004	96
2285	4699	1	102	318
2270	4699	3	4118	0
2270	4698	1	102	165
2270	4698	3	4118	0
2270	4698	3	7606	0
2270	4098	1	102	329
2257	4696	3	4118	0
2257	4696	3	6081	1110
2257	4696	3	6114	27
2257	4695	3	2103	80
2254	4695	3	2103	11
2254	4695	3	2106	599
2254	4695	3	4113	23
2254	4695	3	4118	0
2254	4695	3	6006	2488
2254	4694	1	102	1586
2254	4694	3	4112	0
2254	4694	3	7609	0
2254	4694	3	9101	0
2275	4693	1	102	257
2275	4693	3	4118	0
2275	4693	3	7607	0

2275	4692	1	101	56
2275	4692	3	4118	0
2275	4692	3	7606	0
2289	4688	1	102	391
2289	4688	3	4118	0
2289	4688	3	7607	0
2289	4688	3	7609	0
2289	4687	1	102	325
2289	4687	3	4118	0
2289	4687	3	7607	0
2280	4686	1	102	256
2280	4686	3	4117	0
2280	4686	3	4118	0
2280	4686	3	7609	0
2270	4685	3	7601	9
2270	4684	1	102	923
2270	4684	3	4118	0
2270	4684	3	7606	0
2270	4684	3	7607	0
2270	4683	1	102	34
2270	4683	3	4118	0
2173	4682	3	2106	391
2252	4681	3	4115	0
2252	4681	3	4118	0
2252	4681	3	5012	37
2252	4681	3	6051	466
2252	4681	3	6081	627
2252	4681	3	7606	0
2252	4680	3	4115	0
2252	4680	3	4118	0
2252	4680	3	6041	302
2252	4680	3	6081	1672
2252	4680	3	9101	0
2236	4679	3	4118	0
2236	4679	3	6081	2158
2250	4678	1	102	95
2250	4678	3	1502	155
2250	4678	3	4118	0
2250	4678	3	5012	32
2250	4678	3	6809	68
2250	4678	3	7606	0
2250	4678	7	1502	335
2250	4678	8	6809	286
2236	4677	3	2106	263
2236	4677	3	4115	0
2236	4677	3	6001	3139
2236	4677	3	9101	0

2242	4676	3	4118	0
2242	4676	3	6007	390
2242	4676	3	6061	365
2242	4676	3	6102	13
2242	4675	3	2106	298
2242	4675	3	4118	0
2242	4675	3	6081	1807
2242	4675	3	7606	0
2236	4674	3	2106	682
2236	4674	3	4118	0
2236	4673	3	2106	252
2236	4673	3	4118	0
2202	4672	1	102	365
2202	4672	3	4118	0
2202	4671	1	101	44
2202	4671	3	4118	0
2202	4671	3	7606	0
2202	4671	3	7607	0
2202	4671	3	7609	0
2213	4670	3	2106	360
2213	4670	3	4118	0
2202	4669	1	102	521
2202	4669	3	4113	0
2202	4669	3	4118	0
2202	4669	3	7609	0
2213	4668	3	2106	140
2213	4668	3	4113	0
2202	4667	3	2106	205
2202	4667	3	4118	0
2202	4666	3	2106	398
2202	4666	3	4118	0
2213	4665	3	2106	330
2213	4665	3	7609	0
2213	4664	3	2106	555
2213	4663	3	2100	132
2173	4662	3	2100	132
2173	4662	3	4118	0
2173	4662	3	7609	0
2202	4661	3	2106	560
2202	4661	3	4118	0
2202	4661	3	7609	0
2202	4661	3	9101	0
2149	4660	3	2106	52
2149	4660	3	7609	0
2173	4659	3	2106	589
2173	4659	3	4118	0
2160	4658	3	2106	517
		_		-

)	C	4118	3	4658	2160
	1071	2106	3	4657	2173
5	898	2106	3	4656	2149
)	C	7609	3	4656	2149
)	20	2101	3	4655	2173
	C	4118	3	4655	2173
	C	7609	3	4655	2173
	269	2106	3	4654	2160
	(4118	3	4654	2160
	309	2106	3	4653	2149
	0	4112	3	4653	2149
	C	4118	3	4653	2149
	C	7609	3	4653	2149
	480	2106	3	4652	2145
	400 (4114	3	4652	2160
	0	4114	3	4652	2160
	1003	2106	3	4652	2180
	1005	4112	3	4651	2149
		4112		4651	2149
	(3		
	435	2106	3	4650	2130
	0	4118	3	4650	2130
	29	2106	3	4649	2149
	0	7609	3	4649	2149
	0	9503	2	4648	2130
	620	2106	3	4648	2130
	0	7609		4648	2130
	0	9101	3	4648	2130
	630	2106	3	4647	2130
	0	4118	3	4647	2130
	022	7609	3	4647	2130
	923	2106	3	4646	2084
	0		3	4646	2084
	(7609	3	4646	2084
	212	2106	3	4645	2084
	1125	6071	3	4645	2084
	0	7609	3	4645	2084
	C	7609	3	4644	2034
	0	6801	3	4313	2185
	2278	6801	8	4313	2185
	1248	6801	3	4312	2185
	36	6801	8	4312	2185
	526	2106	3	4311	2185
	C	4118	3	4311	2185
	C	7609	3	4311	2185
	307	2106	3	4310	2163
	C	4118	3	4310	2163
j	535	6801	3	4310	2163

2163	4310	8	6801	45
2185	4309	3	7605	0
2163	4308			0
2163	4308	3	2106	597
2163	4308	3	6502	1469
2163	4308	3	7215	0
2103	4308	3	1503	1165
2034	4307	3	6502	0
2034	4307	7	1503	575
2034	4306	3	7204	59
2034	4306	3	7609	0
2034	4305	3	4118	0
2034	4305	3	7603	0
2034	4305	3	7609	0
2379	4227	1	101	49
2379	4227	3	4118	0
2356	4226	1	102	50
2356	4226	3	4118	0
2356	4225	1	101	127
2356	4225	3	4118	0
2379	4224	3	7609	0
2379	4223	3	4118	0
2379	4223	3	6806	90
2379	4223	8	6806	813
2356	4222	1	101	6
2356	4222	- 1	102	86
2356	4222	3	4118	0
2356	4221	1	101	10
2356	4221	3	4118	0
2356	4221	3	6805	190
2356	4221	3	7601	24
2356	4221	8	6805	1257
2356	4220	1	102	132
2356	4220	3	4118	0
2356	4220	3	5027	14
2356	4220	3	6102	3
2356	4220	3	6809	14
2356	4220	3	9101	0
2356	4220	8	6809	65
2315	4219	3	4118	0
2315	4219	3	5004	192
2315	4219	3	6112	16
2315	4218	1	101	106
2315	4218	3	4118	0
2315	4217	1	101	67
2315	4217	3	4118	0
2315	4216	1	101	129

2315	4216	3	4118	0
2315	4216	3	5008	5
2315	4215	1	101	45
2315	4215	3	4118	0
2315	4214	1	101	154
2315	4214	3	4118	0
2315	4213	1	102	60
2315	4213	3	4118	0
2315	4212	1	101	110
2315	4212	3	4118	0
2315	4211	1	101	110
2315	4211	3	4118	0
2315	4211	3	7603	0
2315	4211	3	7609	0
2379	4210	1	101	140
2379	4210	3	4112	0
2379	4210	3	4118	0
2379	4210	3	7609	0
2379	4209	1	101	27
2379	4209	3	4118	0
2379	4209	3	7609	0
2379	4208	1	101	32
2379	4208	3	4118	0
2379	4207	1	101	146
2379	4207	1	102	8
2379	4207	3	4118	0
2387	4206	1	101	26
2387	4206	3	4118	0
2387	4205	1	101	16
2387	4205	3	4118	0
2387	4204	1	101	21
2387	4204	3	4112	0
2387	4204	3	4118	0
2387	4204	3	7609	0
2387	4203	3	4118	0
2387	4203	3	6806	0
2387	4203	8	6806	273
2387	4202	1	101	32
2387	4202	3	4118	0
2387	4201	1	101	31
2387	4201	3	4118	0
2387	4200	1	101	55
2387	4200	3	4112	0
2387	4200	3	4117	0
2387	4200	3	4118	0
2387	4200	3	7603	0
2387	4200	3	7609	0

2387	4199	1	101	176
2387	4199	3	4118	0
2387	4199	3	7601	0
2387	4199	3	7609	0
2341	4198	1	101	8
2341	4198	3	4118	0
2341	4198	3	6114	12
2341	4197	1	101	72
2341	4197	3	4118	0
2341	4197	3	6102	7
2341	4197	1	101	143
2341	4190	3	4118	0
		3		
2341	4196		5012	24
2341	4196	3	7603	0
2341	4196	3	7609	0
2387	4195	1	101	80
2387	4195	3	4118	0
2387	4195	3	7609	0
2387	4194	1	101	73
2387	4194	3	4118	0
2387	4193	1	101	61
2387	4193	3	4118	0
2387	4193	3	7609	0
2387	4192	1	101	79
2387	4192	3	4118	0
2387	4191	1	101	74
2387	4191	3	4118	0
2387	4191	3	7609	0
2387	4190	1	101	19
2387	4190	3	4118	0
2341	4189	1	101	127
2341	4189	3	4118	0
2341	4189	3	6102	11
2341	4188	1	101	17
2341	4188	3	4118	0
2341	4187	1	101	106
2341	4187	3	4118	0
2228	4184	3	6801	3415
2228	4184	8	6801	6643
2228	4183	3	4118	0
2228	4183	3	6804	77
2228	4183	8	6804	824
2220	4183	1	102	120
2249	4182	3	7607	0
2249	4182	1	102	700
2249	4181	3	4118	007
2249		3	6801	700
2249	4181	- 3	1080	700

2249	4181	8	6801	0
2234	4180	3	4118	0
2234	4180	3	6804	0
2234	4180	8	6804	1240
2228	4179	3	4118	0
2228	4178	3	6801	3080
2228	4178	8	6801	14685
2218	4177	3	2106	33
2218	4177	3	4113	27
2218	4177	3	4118	0
2218	4177	3	6007	1984
2218	4177	3	6502	0
2218	4177	3	7609	0
2239	4173	3	4118	0
2239	4173	3	6801	2490
2239	4173	8	6801	644
2215	4172	3	4112	0
2215	4172	3	6801	5718
2215	4172	8	6801	1062
2204	4171	3	6801	322
2204	4171	8	6801	0
2199	4170	3	4118	0
2199	4170	3	6801	6262
2199	4170	8	6801	14693
2019	4761	1	101	50
2019	4761	3	4118	0
2019	4761	3	7603	0
2019	4761	3	7606	0
2062	4762	1	101	58
2062	4762	3	7603	0
2062	4762	3	7606	0
2062	4762	3	7609	0
2002	4763	3	7609	0
2019	4763	1	102	58
2019	4763	3	7606	0
2019	4763	1	101	98
2015	4764	3	7606	0
2002	4764	3	7607	0
2002	4764	1	101	242
2062	4764	3	7609	242
2062	4764	3	7609	0
2062	4765	3	7603	0
2062	4765	3	4118	0
2062	4765	1	101	70
2062	4765	3	7609	0
2062	4766	1	101	137
2062	4766	3	7606	0

LAND USE INPUTS FOR ADOPTED MODEL RUN WITH MIRA MESA OVERRIDES

TAZ	Series 13 MGRA	lu_type_id	LU CODE	Amount_
1986	5045	1 <u>u_type_</u> 1u 1		
1986	5043	1	102	55
1986	5048	1	101	
1986	5040	1	101	113
1986	5049	1	101	
1986	5050	1	101	58
1986	5052	1	102	
1995	4807	1	101	78
1995	4809	1	101	
1995	4810	1	101	91
1995	4811	1	101	
1998	5025	1	101	81
1998	5030	1	101	
1998	5031	1	101	7
1998	5032	1	101	
1998	5038	1	101	174
1998	5039	1	101	
2005	5041	1	101	215
2007	5022	1	101	
2007	5023	1	101	66
2007	5024	1	101	261
2007	5026	1	101	46
2007	5026	1	102	66
2007	5029	1	101	56
2013	5027	1	102	
2013	5028	1	101	60
2013	5033	1	101	123
2013	5034	1	101	28
2013	5035	1	101	127
2013	5036	1	101	119
2013	5037	1	101	
2016	5040	1	102	
2016	5053	1	102	
2016	5054	1	102	
2016	5055			
2016	5056	1	101	50
2016	5057	1	102	
2019	4761	1	101	50
2019	4763	1	101	
2019	4763	1	102	
2019	4800	1	102	
2019	4801	1	102	
2019	4802	1	102	
2027	4818	1	101	55
2027	4819	1	101	
2027	4820	1	101	54
2027	4821	1	101	
2027	4822	1	101	47
2027	4823	1	101	
2027	4824	1	101 101	60 85
2027 2027	4825 4828	1	101	85
2027	4828	1		
2027	4829		101	52

2027	4830	1	101	79
2027	4831	1	101	23
2030	5014	1	101	102
2030	5015	1	101	44
2030	5016	1	101	139
2030	5017	1	102	180
2030	5018	1	101	108
2030	5019	1	101	18
2030	5020	1	102	200
2030	5021	1	102	238
2033	5012	1	101	126
2033	5013	1	101	148
2039	4812	1	101	89
2039	4813	1	102	172
2039	4814	1	101	207
2039	4815	1	101	153
2039	4816	1	101	219
2042	4860	1	101	57
2042	4861	1	101	120
2042	4862	1	101	81
2042	4863	1	101	52
2042	4863	1	102	90
2042	4864	1	101	86
2043	5073	1	101	39
2043	5074	1	101	19
2043	5075	1	102	64
2043	5076	1	102	272
2043	5077	1	102	260
2043	5078	1	102	200
2043	5079	1	101	115
2043	5080	1	101	86
2043	5081	1	101	121
2043	5082	1	101	80
2044	5058	1	101	114
2044	5059	1	101	16
2044	5060	1	101	121
2044	5061	1	101	13
2044	5062	1	101	43
2044	5068	1	101	99
2045	5063	1	101	43
2045	5064	1	101	152
2045	5069	1	101	25
2048	5065	1	101	65
2048	5065	1	102	24
2048	5066	1	102	8
2048	5067	1	101	1
2048	5067	1	102	123
2048	5070	1	101	22
2048	5070	1	102	92
2049	5042	1	102	1656
2049	5043	1	102	511
2049	5044	1	102	112
2052	4817	1	101	118
2052	4817	1	102	120
	1011	•	102	.20

2056	4832	1	101	83
2056	4833	1	101	49
2056	4834	1	101	18
2056	4835	1	101	61
2056	4836	1	101	42
2056	4837	1	101	98
2056	4844	1	101	12
2056	4845	1	101	109
2056	4846	1	101	67
2056	4847	1	101	17
2056	4848	1	101	61
2056	4850	1	101	10
2059	4826	1	101	121
2059	4827	1	101	102
2062	4762	1	101	58
2062	4764	1	101	242
2062	4765	1	101	70
2062	4766	1	101	137
2063	5083	1	101	82
2063	5084	1	101	125
2063	5085	1	101	66
2063	5086	1	101	84
2063	5086	1	102	406
2063	5087	1	102	72
2067	5071	1	102	544
2067	5072	1	102	340
2068	5088	1	101	78
2068	5089	1	101	83
2068	5090	1	101	69
2068	5091	1	101	19
2068	5091	1	102	92
2069	4838	1	101	13
2069	4841	1	101	120
2069	4842	1	101	44
2069	4852	1	101	94
2069	4853	1	101	48
2069	4854	1	101	83
2069	4855	1	102	184
2069	4856	1	101	40
2069	4857	1	102	200
2069	4858	1	102	80
2069	4859	1	101	58
2070	5092	1	102	408
2070	5093	1	102	135
2070	5097	1	102	259
2071	4865	1	101	39
2071	4865	1	102	89
2071	4866	1	101	109
2071	4867	1	101	61
2074	5128	1	102	512
2074	5129	1	102	570
2074	5134	1	102	492
2075	5130	1	102	384
2075	5131	1	102	171

0075	5400	4	100	4400
2075	5132	1	102	1103
2075	5133	1	102 102	405 193
2076 2076	5108 5109	1	102	193
2076	5110	1	102	1456
2076	5110	1	102	1450
2076	5112	1	102	87
2076	5112	1	101	24
2078	4839	1	101	81
2078	4843	1	101	7
2078	4843	1	101	80
2078	4849	1	102	27
2078	4851	1	101	27
2079	4868	1	101	99
2079	4874	1	101	102
2080	4869	1	101	71
2080	4873	1	101	73
2082	5096	1	101	183
2083	4870	1	102	42
2083	4871	1	102	1501
2083	4872	1	102	220
2083	4875	1	102	77
2083	4877	1	102	50
2086	4767	1	102	340
2086	4769	1	102	497
2086	4771	1	102	355
2086	4773	1	102	500
2088	5121	1	101	54
2088	5121	1	102	113
2088	5122	1	101	3
2088	5123	1	102	108
2088	5124	1	102	96
2094	5100	1	102	189
2095	5099	1	101	96
2095	5101	1	101	86
2095	5102	1	101	113
2095	5105	1	102	236
2096	5114	1	102	166
2096	5116	1	102	168
2099	4996	1	102	432
2099	5000	1	102	205
2100	4998	1	101	39
2100	5001	1	101	84
2100	5002	1	101	71
2100	5003	1	101	37
2100	5004	1	101	216
2107	4987	1	101	70
2107	4988	1	101	109
2107	4989	1	101	73
2107	4990	1	101	44
2110	5136	1	102	355
2110	5138	1	102	64
2111	4780	1	102	1886
2113	4991	1	101	63

2113	4992	1	101	97
2113	4993	1	102	416
2113	4994	1	102	336
2114	5125	1	101	99
2114	5126	1	101	24
2114	5127	1	101	107
2115	5118	1	101	46
2115	5119	1	101	110
2115	5120	1	101	93
2116	5103	1	101	116
2116	5103	1	102	1
2116	5104	1	101	81
2116	5106	1	101	20
2116	5107	1	102 102	136
2121 2121	4968 4969	1	102	100 107
2121	4909	1	102	373
2122	5005	1	102	254
2122	5005	1	102	61
2122	5007	1	101	126
2122	5008	1	101	31
2122	5009	1	101	129
2122	5010	1	101	185
2122	5010	1	101	90
2123	4982	1	101	22
2123	4983	1	101	121
2123	4984	1	101	137
2127	4970	1	102	843
2127	4974	1	102	191
2131	5155	1	101	13
2131	5156	1	101	12
2131	5159	1	101	21
2131	5171	1	101	96
2131	5173	1	101	110
2131	5174	1	101	88
2131	5175	1	102	110
2131	5176	1	101	105
2131	5178	1	102	250
2132	5154	1	101	60
2132	5157	1	101	136
2132	5158	1	102	373
2132	5160	1	101	71
2132	5172	1	101	70
2132	5177	1	101	54
2135	5139	1	102	579
2135	5140	1	102	605
2143	4926	1	101	175
2143	4929	1	101	145
2143	4930	1	101	153
2143	4930	1	102	8
2143	4985	1	101	50
2143	4986	1	101	27
2144	5161	1	102	2857
2148	5141	1	102	200

2148	5142	1	102	425
2148	5143	1	102	160
2150	4925	1	102	144
2150	4927	1	101	14
2150	4928	1	101	20
2150	4928	1	102	1052
2150	4931	1	102	1338
2152	4783	1	102	811
2152	4788	1	102	749
2153	4789	1	102	254
2161	4932	1	102	328
2161	4934	1	102	791
2161	4942	1	102	291
2164	5144	1	102	510
2164	5145	1	102	152
2164	5146	1	102	241
2164	5148	1	102	226
2166	4792	1	102	890
2168	4933	1	102	615
2174	4939	1	102	64
2175	4936	1	102	376
2175	4938	1	102	202
2176	5162	1	102	135
2176	5163	1	102	158
2176	5164	1	102	409
2176	5168	1	102	158
2176	5169	1	102	85
2177	5149	1	102	82
2177	5150	1	102	155
2177	5151	1	102	239
2177	5152	1	102	93
2181	5165	1	102	1345
2182	5166	1	102	366
2182	5167	1	102	304
2189	4943	1	102	133



Appendix E – Future Year Forecast Volume Methodology

Kimley »Horn

MEMORANDUM

To:	Claudia Brizuela, P.E., T.E.
	City of San Diego Planning Department
From:	Amy Jackson, P.E. (MD), PTOE
r ioni.	Kimley-Horn and Associates, Inc.
Date:	January 5, 2022
Subject:	Mira Mesa Community Plan Update: SANDAG Model Output Post-Processing Methodology

Introduction

Through the Community Plan Update process, the project team developed recommended mobility networks for pedestrians, bicycles, transit, and vehicles in the Mira Mesa Community. During the development of the San Diego Association of Governments Activity Based Model (SANDAG ABM model) for the mobility alternatives, the recommended bicycle network was not coded into the preferred alternative network for the future SANDAG ABM run. The proposed bicycle network includes miles of new separates bikeways, bike lanes, and bike routes for improving bicycle connectivity throughout the community. These improvements are anticipated to shift mode choice by encouraging people who live and work in the community to commute by bike rather than by vehicle. The purpose of this memorandum is to outline the methodologies for post-processing the SANDAG ABM model to accurately forecast the future bicycle mode share.

Methodology

The recommended methodology for forecasting bicycle mode share is a method presented the Urban Land Institutes' (ULI) July 2009 report titled *Moving Cooler*. *An Analysis of Transportation Strategies for Reducing Greenhouse Gas Emission* which provides a methodology to quantify changes in the bicycle mode share resulting from changes to a bicycle network. Bicycle facility densities can be calculated (miles of bicycle facilities per square mile) using the existing and future bicycle network mileage. This method accounts for Class II bike lanes traversing areas with qualifying urban densities. For the Mira Mesa Community Plan Update, the Moving Cooler methodology was modified to account for Class IV facilities that had not been recognized by the State of California at the time the document was published.

MOVING COOLER METHODOLOGY

The ULI's Moving Cooler Study outlines methodologies for estimating future bicycle mode share that results from increased bicycle facility densities for Class I and Class II facilities. Data needed for these calculations include existing bike mode share, and existing & planned bike network density.

Below is a step-by-step process to identify proposed bicycle mode share:

- 1) Calculate existing and planned bike network density based on centerline miles of bike facilities
- 2) Planned Bike Network Density Existing Bike Network Density = Bike Network Density Change

Kimley *Whorn*

a. 1-to-1 relationship between bike network density change and mode share change3) Existing Bike Mode Share + Mode Share Change = Future Mode Share

Data source:

- Existing Bike Network (SANGIS Files)
- Community Plan Update
 - Future Bike Network (GIS Files)

MODIFIED METHODOLOGY

The Moving Cooler method was developed prior to the implementation of Class IV bikeway facilities. Class I and IV facilities have a higher level of protection for bicyclists as compared to Class II bike lanes that do not incorporate vertical protection between vehicle and bicycle lanes. It is expected that Class I and Class IV facilities attract a significantly larger number of bicyclists and should not receive the same mode share calculation.

Therefore, a hybrid approach to the Moving Cooler methodology was used in which the centerline miles for Class II facilities were used in accordance with the Moving Cooler methodology, but lane miles for the Class I and Class IV facilities were accounted for prior to performing the calculation shown below.

CALCULATION

Using existing and proposed data obtained from GIS files, the total shift in mode share is calculated below:

There are segments of roadway in the Mira Mesa community where two different bike facility classifications are recommended on opposing sides of the same roadway. As a result, lane miles were not always calculated by doubling the centerline miles. Instead, the following process was used:

- For segments with new Class I or Class IV facilities in both directions, centerline miles were doubled to calculate lane miles
- For segments with new Class II facilities in both directions, centerline miles were used
- For segments with new Class I or Class IV facilities in one direction, and new Class II facilities in the other direction, centerline miles were used once for each facility
- For segments that currently have Class II facilities that are being upgraded to Class IV facilities, centerline miles would be used to account for the enhancement (this scenario did not occur in the Mira Mesa Community)

The resulting centerline and lane miles for the Mira Mesa Community are summarized below in **Table 1**.

Kimley *Whorn*

Bike Facility Classification	Centerline Miles	Lane Miles
Class I	8	16
Class II	8	19
Class IV	32	60

Table 1 - Mira Mesa Community New Bike Facility Mileage

The bold values in Table 1 were used in the calculation below.

Calculation:

Increase in Bicycle Mode Share = <u>Miles of new High Quality Bike facilities in Community</u> Area of Community (square miles)

Alea of Community (

Mira Mesa Community Plan Update:

Increase in Bicycle Mode Share = $\frac{84 \text{ miles of Class II or better}}{42.4 (a muse miles)}$

16.4 (square miles)

Increase in Bicycle Mode Share = 5%

Analysis Results

The analysis results from applying the methodology presented above depict the effect of applying multimodal mobility strategies on commute patterns for the proposed land use scenarios in the community plan update (CPU). The table below provides a summary of the results of this analysis for the Mira Mesa Community. **Table 2** shows a breakdown of the community's existing and future mode share before and after post-processing using methodologies outlined above.

Table 2 - Mira Mesa Daily Mode Share

Mode	Existing Network ¹	Preferred Network ²	Preferred Network After Post-Processing
Bicycle	1%	1.2%	6.2%

Source:

1. GIS data published by SANGIS

2. SANDAG ABM Model

Conclusion

The bicycle mode share based on the SANDAG ABM preferred network model was 1.2%. The model was not able to account for the recommended bicycle network which includes miles of Class I, II, III, and IV facilities. Therefore, a post-processing methodology was applied to the mode share to shift users onto the bike network. Based on the proposed bike network density, the anticipated mode shift from vehicle to bike was 5%. Therefore, the resulting bike mode share percentage after post-processing is 6.2%. The calculated mode shift was applied to the SANDAG ABM model to adjust the roadway traffic volumes and the total Vehicle Miles Traveled (VMT). The results of the post-processed volumes were used to develop turning movement counts for future condition intersection level of service analysis.

Page 3 of 3



Int 1 AM Peak Volumes



Vista Sorrento Pkwy





Int 1 PM Peak Volumes



LEGEND				
Existing K-Factor	xx%			
ADT Volume	хх			
Total Entering Volume	xx			













LEGEND	
Existing K-Factor	xx%
ADT Volume	xx
Total Entering Volume	xx



Int 3 AM Peak Volumes



↓ û 157 936 779 7.3% 12,108 Camino Ruiz





Int 3 PM Peak Volumes









Int 4 AM Peak Volumes









Int 4 PM Peak Volumes









Int 5 AM Peak Volumes



Scenario:	Future Year 2035 - Recommended Network	
N/S Street:	I-15 SB Ramps	
E/W Street:	Mercy Rd	







Int 5 PM Peak Volumes



Scenario:	Future Year 2035 - Recommended Network	
N/S Street:	I-15 SB Ramps	
E/W Street:	Mercy Rd	



LEGEND		
Existing K-F	actor xx%	
ADT Vo	lume xx	
Total Entering Vo	lume xx	



Int 6 AM Peak Volumes



Scenario:	Future Year 2035 - Recommended Network	
N/S Street:	I-15 NB Ramps	
E/W Street:	Mercy Rd	



LEGEND			
	Existing K-Factor	xx%	
	ADT Volume	xx	
	Total Entering Volume	хх	


Int 6 PM Peak Volumes



Scenario:	Future Year 2035 - Recommended Network	
N/S Street:	I-15 NB Ramps	
E/W Street:	Mercy Rd	



LEGEN	ID	
Existing K-Factor	xx%	
ADT Volume	xx	
Total Entering Volume	хх	



Int 7 AM Peak Volumes









Int 7 PM Peak Volumes









Int 8 AM Peak Volumes







Int 8 PM Peak Volumes



Vista Sorrento Pkwy

17,131





Int 9 AM Peak Volumes









Int 9 PM Peak Volumes



Scenario:	Future Year 2035 - Recommended Network	
N/S Street:	Scranton Rd	
E/W Street:	Mira Mesa Blvd	







Int 10 AM Peak Volumes



Lusk Blvd

19,019





Int 10 PM Peak Volumes





LEGEN	ND
Existing K-Factor	xx%
ADT Volume	XX
Total Entering Volume	xx



Scenario: Existing (2018) N/S Street: Pacific Heights Blvd E/W Street: Mira Mesa Blvd Intersection #: 11 Pacific Heights Blvd 88% 12% 187 1622 1435 9.7% Û 16,772 企 35 66 86 Mira Mesa Blvd Û ŝ Blvd Ŵ ₼ 922 43% 1664 ⇔ 1565 2798 65% \Diamond \Diamond Mesa 4336 3829 457 \bigtriangledown 5325 ŵ 311 57% 2165 1366 1538 35% ⇔ ⇔ ⇔ Mira (342 5 \bigtriangledown \mathfrak{A} 10.5% 8.4% 企 45,646 33 86 41,338 56 Û Û 688 175 10.7% 863 8,045 80% 20% Pacific Heights Blvd

Int 11 AM Peak Volumes

Scenario:	Future Year 2035 - Preferred Network	
N/S Street:	Pacific Heights Blvd	
E/W Street:	Mira Mesa Blvd	



LEGEND		
Existing K-Factor	xx%	
ADT Volume	xx	
Total Entering Volume	xx	



Int 11 PM Peak Volumes



LEGEN	ID
Existing K-Factor	xx%
ADT Volume	xx
Total Entering Volume	xx



Int 12 AM Peak Volumes Existing (2018)





LEGEND Existing K-Factor xx% ADT Volume xx Total Entering Volume xx



Int 12 PM Peak Volumes









Int 13 AM Peak Volumes



Genetic Center Dr





Int 13 PM Peak Volumes



Genetic Center Dr





Mira Mesa Blvd

Scenario: Existing (2018) N/S Street: Flanders Dr E/W Street: Mira Mesa Blvd Intersection #: 14 Flanders Dr 25% 75% 77 226 9.0% 303 Û 3,367 企 17 42 18 Û Ŵ \mathfrak{A} ∿ 131 Blvd 80% 3201 ⇔ 2825 3040 85% \Leftrightarrow \Diamond Mira Mesa 3997 51 \bigtriangledown 4338 ŵ 84 3559 20% 796 454 ⇔ 519 15% ⇔ ⇔ 291 $\overline{\nabla}$ \bigtriangledown \mathfrak{A} 8.5% 9.7% 企 41,338 334 47 41,679 44 Û Û 392 425 10.8% 817 7,549 48% 52% Flanders Dr

Scenario:	Future Year 2035 - Preferred Network	
N/S Street:	Flanders Dr	
E/W Street:	Mira Mesa Blvd	



LEGEN	ID	
Existing K-Factor	xx%	
ADT Volume	xx	
Total Entering Volume	xx	



Int 14 PM Peak Volumes



Scenario:	Future Year 2035 - Preferred Network	
N/S Street:	Flanders Dr	
E/W Street:	Mira Mesa Blvd	



LEGEN	ID	
Existing K-Factor	xx%	
ADT Volume	XX	
Total Entering Volume	xx	



Int 15 AM Peak Volumes









Int 15 PM Peak Volumes









Int 16 AM Peak Volumes





LEGEN	ND
Existing K-Factor	xx%
ADT Volume	XX
Total Entering Volume	xx



Int 16 PM Peak Volumes



Camino Santa Fe

1165

793

7.1% 16,467

372





Scenario: Existing (2018) N/S Street: Schilling Ave E/W Street: Mira Mesa Blvd Intersection #: 17 Schilling Ave 79% 21% 189 50 9.0% 239 Û 2,656 企 103 8 78 Mira Mesa Blvd Û \mathfrak{A} Blvd Ŵ ∾ 27 88% 3681 ⇔ 3533 3582 86% ⇔ \Diamond Mira Mesa 4175 4174 21 \bigtriangledown 4361 ŵ 22 12% 493 465 ⇔ 593 14% ⇔ ⇔ 7 ŝ 5 8.8% \bigtriangledown 8.8% 企 47,281 45 50 47,281 2 Û 企 37 97 9.0% 134 1,489 28% 72% Schilling Ave

Int 17 AM Peak Volumes

Scenario:	Future Year 2035 - Preferred Network	
N/S Street:	Schilling Ave	
E/W Street:	Mira Mesa Blvd	



LEGEN	ND
Existing K-Factor	xx%
ADT Volume	XX
Total Entering Volume	xx



Int 17 PM Peak Volumes



Scenario:	Future Year 2035 - Preferred Network	
N/S Street:	Schilling Ave	
E/W Street:	Mira Mesa Blvd	



LEGEN	ID	
Existing K-Factor	xx%	
ADT Volume	XX	
Total Entering Volume	xx	



Int 18 AM Peak Volumes









Int 18 PM Peak Volumes









Int 19 AM Peak Volumes



Scenario:	Future Year 2035 - Preferred Network	
N/S Street:	Parkdale Ave	
E/W Street:	Mira Mesa Blvd	







Int 19 PM Peak Volumes





LEGEI	ND
Existing K-Factor	xx%
ADT Volume	xx
Total Entering Volume	xx



Int 20 AM Peak Volumes









Int 20 PM Peak Volumes





LEGEN	ID	
Existing K-Factor	xx%	
ADT Volume	XX	
Total Entering Volume	xx	



Int 21 AM Peak Volumes



LEGEN	ID
Existing K-Factor	xx%
ADT Volume	xx
Total Entering Volume	xx



Int 21 PM Peak Volumes



LEGENDExisting K-Factorxx%ADT VolumexxTotal Entering Volumexx



Int 22 AM Peak Volumes



Scenario:	Future Year 2035 - Recommended Network	
N/S Street:	Camino Ruiz	
E/W Street:	Mira Mesa Blvd	







Int 22 PM Peak Volumes



Scenario:	Future Year 2035 - Recommended Network	
N/S Street:	Camino Ruiz	
E/W Street:	Mira Mesa Blvd	







Int 23 AM Peak Volumes



Scenario:	Future Year 2035 - Recommended Network	
N/S Street:	New Salem St	
E/W Street:	Mira Mesa Blvd	



LEGEN	ID	
Existing K-Factor	xx%	
ADT Volume	xx	
Total Entering Volume	xx	



Int 23 PM Peak Volumes



Scenario:	Future Year 2035 - Recommended Network	
N/S Street:	New Salem St	
E/W Street:	Mira Mesa Blvd	



LEGEND			
	Existing K-Factor	xx%	
	ADT Volume	XX	
	Total Entering Volume	xx	



Scenario: Existing (2018) N/S Street: Westonhill Dr E/W Street: Mira Mesa Blvd Intersection #: 24 Westonhill Dr 77% 23% 492 7.2% 640 148 Û 8,896 企 103 112 277 Mira Mesa Blvd Û \mathfrak{A} Blvd Ŵ ∿ 38 70% 2960 ⇔ 2775 2831 64% ⇔ \Diamond Mira Mesa 4256 29 \bigtriangledown 4809 ŵ 18 4402 30% 1296 1258 ⇔ ⇔ 1571 36% ⇔ 9 ŝ $\overline{\nabla}$ \bigtriangledown 7.7% 7.4% 企 57,445 73 81 36 57,200 Û Û 130 190 7.1% 320 4,480 41% 59% Westonhill Dr

Scenario:	Future Year 2035 - Recommended Network	
N/S Street:	Westonhill Dr	
E/W Street:	Mira Mesa Blvd	



LEGEND				
	Existing K-Factor	xx%		
	ADT Volume	xx		
	Total Entering Volume	хх		

Int 24 AM Peak Volumes


Int 24 PM Peak Volumes





LEGEND Existing K-Factor xx% ADT Volume хх Total Entering Volume xx



Int 25 AM Peak Volumes



Greenford Dr





Int 25 PM Peak Volumes





LEGEN	ID	
Existing K-Factor	xx%	
ADT Volume	xx	
Total Entering Volume	xx	



Int 26 AM Peak Volumes





LEGEN	ID
Existing K-Factor	xx%
ADT Volume	xx
Total Entering Volume	xx



Int 26 PM Peak Volumes









Int 27 AM Peak Volumes



Black Mountain Rd





Int 27 PM Peak Volumes



Mira Mesa Blvd 41,589 330 1068 484 56,411 Û 企 1347 3231 1884 9.1% 35,618 Black Mountain Rd





Int 28 AM Peak Volumes



Scenario:	Future Year 2035 - Recommended Network	
N/S Street:	Westview Pkwy	
E/W Street:	Mira Mesa Blvd	



LEGEN	ID	
Existing K-Factor	xx%	
ADT Volume	XX	
Total Entering Volume	xx	



Int 28 PM Peak Volumes



Scenario:	Future Year 2035 - Recommended Network	
N/S Street:	Westview Pkwy	
E/W Street:	Mira Mesa Blvd	



	LEGEN	ID	_
	Existing K-Factor	xx%	
	ADT Volume	XX	
Total	Entering Volume	xx	



Int 29 AM Peak Volumes



Scenario:	Future Year 2035 - Recommended Network	
N/S Street:	I-15 SB Ramps	
E/W Street:	Mira Mesa Blvd	



LEGEN	ID	
Existing K-Factor	xx%	
ADT Volume	xx	
Total Entering Volume	хх	



Int 29 PM Peak Volumes



E/W Street: Mira Mesa Blvd







Int 30 AM Peak Volumes



I-15 NB Ramps

LEGEN	ID
Existing K-Factor	xx%
ADT Volume	XX
Total Entering Volume	xx



Int 30 PM Peak Volumes









Scenario: Existing (2018) N/S Street: Black Mountain Rd E/W Street: Mercy Rd Intersection #: 31 Black Mountain Rd 74% 26% 2109 2867 758 7.8% Û 36,605 企 1610 0 499 Û Ŵ \mathfrak{A} ₼ 229 Mercy Rd ⇔ 0 95% 21 648 40% ⇔ \Diamond Mercy Rd 22 1 \bigtriangledown 3784 ☆ 419 1624 5% 0 ⇔ ⇔ 976 60% 1 ⇔ 0 \mathfrak{A} 5 \bigtriangledown 9.0% 9.2% 企 244 21 528 477 17,747 Û Û 2029 3055 1026 8.6% 35,556 66% 34% Black Mountain Rd

Int 31 AM Peak Volumes

Scenario:	Future Year 2035 - Preferred Network	
N/S Street:	Black Mountain Rd	
E/W Street:	Mercy Rd	



		_
LEGEN	ID	
Existing K-Factor	xx%	
ADT Volume	xx	
Total Entering Volume	xx	





Int 31 PM Peak Volumes

Scenario:	Future Year 2035 - Preferred Network	
N/S Street:	Black Mountain Rd	
E/W Street:	Mercy Rd	



LEGEN	עו
Existing K-Factor	xx%
ADT Volume	XX
Total Entering Volume	xx



Int 32 AM Peak Volumes





LEGEN	ID
Existing K-Factor	xx%
ADT Volume	xx
Total Entering Volume	xx



Int 32 PM Peak Volumes



E/W Street: Miramar Rd



L	EGEN	D
Existing K-	-Factor	xx%
ADT \	/olume	XX
Total Entering \	/olume	xx



Int 33 AM Peak Volumes









Int 33 PM Peak Volumes



E/W Street: Miramar Rd



LEGEN	ID	
Existing K-Factor	xx%	
ADT Volume	xx	
Total Entering Volume	хх	



Int 34 AM Peak Volumes









Int 34 PM Peak Volumes









Int 35 AM Peak Volumes









Int 35 PM Peak Volumes









Int 36 AM Peak Volumes









Int 36 PM Peak Volumes



E/W Street: Miramar Rd



LEGEND Existing K-Factor Xx% ADT Volume Xx Total Entering Volume Xx



Int 37 AM Peak Volumes





LEGEN	ND
Existing K-Factor	xx%
ADT Volume	xx
Total Entering Volume	xx



Int 37 PM Peak Volumes









Int 38 AM Peak Volumes









Int 38 PM Peak Volumes



E/W Street:	Miramar	Rd







Int 39 AM Peak Volumes



Scenario:	Future Year 2035 - Preferred Network	
N/S Street:	Dowdy Dr	
E/W Street:	Miramar Rd	







Int 39 PM Peak Volumes



Scenario:	Future Year 2035 - Preferred Network	
N/S Street:	Dowdy Dr	
E/W Street:	Miramar Rd	







Int 40 AM Peak Volumes









Int 40 PM Peak Volumes



Scenario:	Future Year 2035 - Recommended Network	
N/S Street:	Cabot Dr	
E/W Street:	Miramar Rd	









Int 41 AM Peak Volumes

Scenario:	Future Year 2035 - Preferred Network	
N/S Street:	Camino Ruiz	
E/W Street:	Miramar Rd	



LEGEN	ID	
Existing K-Factor	xx%	
ADT Volume	xx	
Total Entering Volume	xx	



Int 41 PM Peak Volumes Existing (2018) Scenario: N/S Street: Camino Ruiz E/W Street: Miramar Rd Intersection #: 41 Camino Ruiz 35% 65% 600 1139 6.4% 1739 Û 27,016 企 0 135 465 Û \mathfrak{A} Ŵ ₼ 769 Miramar Rd Miramar Rd 32% 1165 ⇔ 1030 1799 41% ⇔ \Diamond 4928 3694 370 \bigtriangledown ŵ 0 4423 68% 2529 2159 ⇔ 59% ⇔ 2624 ⇔ 0 ŝ $\overline{\nabla}$ \bigtriangledown 6.9% 7.3% 企 50,944 0 0 64,376 0 Û Û 0 0 0.0% 0 0% 0% 0 Camino Ruiz

Scenario:	Future Year 2035 - Preferred Network	
N/S Street:	Camino Ruiz	
E/W Street:	Miramar Rd	



LEGEN	ID
Existing K-Factor	xx%
ADT Volume	XX
Total Entering Volume	xx



Int 42 AM Peak Volumes



Scenario:	Future Year 2035 - Preferred Network	
N/S Street:	Clayton Dr	
E/W Street:	Miramar Rd	






Int 42 PM Peak Volumes



Scenario:	Future Year 2035 - Preferred Network	
N/S Street:	Clayton Dr	
E/W Street:	Miramar Rd	







Int 43 AM Peak Volumes



Black Mountain Rd

LEGEND		
Existing K-Factor	xx%	
ADT Volume	xx	
Total Entering Volume	xx	



Int 43 PM Peak Volumes









Int 44 AM Peak Volumes Scenario: Existing (2018) N/S Street: Kearny Villa Rd E/W Street: Miramar Rd Intersection #: 44 Kearny Villa Rd 55% 45% 504 411 7.6% 915 Û 12,079 企 243 129 132 Û Ŵ Ŷ ∾ 87 Miramar Rd Miramar Rd ⇔ 2266 73% 3350 2367 71% ⇔ \Diamond 4591 3352 25 \bigtriangledown 5376 ŵ 14 27% 1241 843 985 29% ⇔ ⇔ ⇔ 373 🕾 $\overline{\nabla}$ \bigtriangledown 7.1% 企 6.3% 64,382 955 299 10 52,857 Û 企 630 1264 7.2% 1894 26,246 33% 67% Kearny Villa Rd S

Scenario:	Future Year 2035 - Preferred Network	
N/S Street:	Kearny Villa Rd	
E/W Street:	Miramar Rd	



LEGEN	ID	
Existing K-Factor	xx%	
ADT Volume	xx	
Total Entering Volume	xx	



Int 44 PM Peak Volumes



Scenario:	Future Year 2035 - Preferred Network	
N/S Street:	Kearny Villa Rd	
E/W Street:	Miramar Rd	



LEGEN	ID
Existing K-Factor	xx%
ADT Volume	xx
Total Entering Volume	xx



Int 45 AM Peak Volumes



Scenario:	Future Year 2035 - Preferred Network	
N/S Street:	I-15 SB Ramps	
E/W Street:	Miramar Rd	







Int 45 PM Peak Volumes



Scenario:	Future Year 2035 - Preferred Network	
N/S Street:	I-15 SB Ramps	
E/W Street:	Miramar Rd	







Int 46 AM Peak Volumes









Int 46 PM Peak Volumes



Scenario:	Future Year 2035 - Preferred Network	
N/S Street:	I-15 NB Ramps	
E/W Street:	Miramar Rd	







Existing (2018) Scenario: N/S Street: Camino Santa Fe E/W Street: Carroll Rd Intersection #: 47 Camino Santa Fe 71% 29% 999 1402 403 7.0% Û 20,126 企 621 291 87 Û ŝ Ŵ ₼ 49 Carroll Rd ⇔ 276 70% 846 372 52% \Leftrightarrow \Diamond Carroll Rd 1209 65 \bigtriangledown 2417 ß 47 716 30% 142 344 48% 363 ⇔ ⇔ ⇔ 156 😒 $\overline{\nabla}$ \bigtriangledown 7.3% 7.6% 企 15,941 279 289 115 9,755 Û 企 824 683 7.0% 1507 21,494 55% 45% Camino Santa Fe

Scenario:	Future Year 2035 - Preferred Network	
N/S Street:	Camino Santa Fe	
E/W Street:	Carroll Rd	





Int 47 AM Peak Volumes



Existing (2018) Scenario: N/S Street: Camino Santa Fe E/W Street: Carroll Rd Intersection #: 47 Camino Santa Fe 39% 61% 712 1129 9.1% 1841 Û 20,126 企 566 75 71 Û ŝ Ŵ ∿ 115 Carroll Rd 22% 274 ⇔ 91 292 39% \Diamond \Diamond Carroll Rd 751 1266 294 \bigtriangledown 2897 ≌ 86 78% 992 315 459 61% ⇔ ⇔ ⇔ 383 🖄 $\overline{\nabla}$ \bigtriangledown 7.7% 7.9% 企 15,941 108 720 73 9,755 Û 企 1035 901 9.0% 1936 53% 47% 21,494 Camino Santa Fe Scenario: Future Year 2035 - Preferred Network

Int 47 PM Peak Volumes

N/S Street: Camino Santa Fe E/W Street: Carroll Rd



LEGEND		
Existing K-	-Factor	xx%
ADT \	/olume	XX
Total Entering \	/olume	xx



Int 48 AM Peak Volumes









Int 48 PM Peak Volumes



Camino Santa Fe

35,412

LEGEN	חו
LEGEN	
Existing K-Factor	xx%
ADT Volume	XX
Total Entering Volume	xx



Int 49 AM Peak Volumes





Int 49 PM Peak Volumes





Int 50 AM Peak Volumes



Scenario:	Future Year 2035 - Preferred Network	
N/S Street:	Camino Ruiz	
E/W Street:	Activity Rd	







Int 50 PM Peak Volumes



Scenario:	Future Year 2035 - Preferred Network	
N/S Street:	Camino Ruiz	
E/W Street:	Activity Rd	



	LEGEN	ID	
	Existing K-Factor	xx%	
	ADT Volume	XX	
-	Fotal Entering Volume	xx	





Int 51 AM Peak Volumes

Scenario:	Future Year 2035 - Recommended Network	
N/S Street:	I-805 SB Off	
E/W Street:	Sorrento Valley Rd	



LEGEN	ND
Existing K-Factor	xx%
ADT Volume	XX
Total Entering Volume	xx



Int 51 PM Peak Volumes Scenario: Existing (2018) N/S Street: I-805 SB Off E/W Street: Sorrento Valley Rd Intersection #: 51









Int 52 AM Peak Volumes



Vista Sorrento Pkwy





Int 52 PM Peak Volumes





 LEGEND

 Existing K-Factor
 xx%

 ADT Volume
 xx

 Total Entering Volume
 xx



Int 53 AM Peak Volumes







Int 53 PM Peak Volumes









Int 54 AM Peak Volumes



LEGEN	ID
Existing K-Factor	xx%
ADT Volume	xx
Total Entering Volume	xx



Int 54 PM Peak Volumes



LEGEN	ID
Existing K-Factor	xx%
ADT Volume	xx
Total Entering Volume	xx



Int 55 AM Peak Volumes



LEGEN	ID
Existing K-Factor	xx%
ADT Volume	xx
Total Entering Volume	xx



Int 55 PM Peak Volumes







Int 56 AM Peak Volumes





Int 56 PM Peak Volumes



LEGEND		
Existing K-Factor	xx%	
ADT Volume	XX	
Total Entering Volume	xx	







LEGEN	ND
Existing K-Factor	xx%
ADT Volume	XX
Total Entering Volume	xx











Int 58 AM Peak Volumes





Int 58 PM Peak Volumes



LEGEND		
Existing K-Factor	xx%	
ADT Volume	xx	
Total Entering Volume	xx	



Int 59 AM Peak Volumes



LEGEND		
Existing K-Factor	xx%	
ADT Volume	xx	
Total Entering Volume	xx	



Int 59 PM Peak Volumes



LEGEND		
Existing K-Factor	xx%	
ADT Volume	XX	
Total Entering Volume	xx	



Int 60 AM Peak Volumes



LEGEND		
Existing K-Factor	xx%	
ADT Volume	XX	
Total Entering Volume	xx	


Int 60 PM Peak Volumes



LEGEND	
Existing K-Factor	xx%
ADT Volume	XX
Total Entering Volume	xx





Int 61 AM Peak Volumes

Scenario:	Future Year 2035 - Preferred Network	
N/S Street:	Scranton Rd	
E/W Street:	Mira Sorrento Pl	



LEGEND		
Existing K-Factor	xx%	
ADT Volume	xx	
Total Entering Volume	xx	



Int 61 PM Peak Volumes



Scranton Rd





Scenario: Existing (2018) N/S Street: Youngstown Way Youngstown Way 26% 74% 50 9.0% 18 68





E/W Street: Carroll Canyon Rd



LEGEND	
Existing K-Factor	
ADT Volume	xx
Total Entering Volume	xx



Int 62 PM Peak Volumes



LEGEN	ND
Existing K-Factor	xx%
ADT Volume	XX
Total Entering Volume	xx



Int 63 AM Peak Volumes



Black Mountain Rd





Int 63 PM Peak Volumes



Black Mountain Rd





Int 64 AM Peak Volumes



Black Mountain Rd

25,553





Int 64 PM Peak Volumes





LEGEN	ND
Existing K-Factor	xx%
ADT Volume	XX
Total Entering Volume	xx



Int 65 AM Peak Volumes



Black Mountain Rd

24,570





Int 65 PM Peak Volumes





LEGEND	
Existing K-Factor	xx%
ADT Volume	xx
Total Entering Volume	xx



Int 66 AM Peak Volumes





LEGEND	
Existing K-Factor	xx%
ADT Volume	xx
Total Entering Volume	xx



Int 66 PM Peak Volumes





Black Mountain Rd

LEGEN	ID
Existing K-Factor	xx%
ADT Volume	xx
Total Entering Volume	xx



Scenario: Existing (2018) N/S Street: Black Mountain Rd E/W Street: Hillery Dr Intersection #: 67 Black Mountain Rd 68% 32% 960 451 7.7% 1411 Û 18,301 企 678 129 153 Û Ŵ \mathfrak{A} ∿ 122 Hillery Dr 58% 640 ⇔ 338 843 61% \Diamond \Diamond Hillery Dr 1106 87 \bigtriangledown 2879 Ŵ 383 1385 42% 194 39% 466 ⇔ ⇔ 542 ⇔ 185 9.0% \mathfrak{A} $\overline{\nabla}$ \bigtriangledown 9.0% 企 12,224 173 242 195 15,473 Û 企 1246 610 7.9% 1856 23,507 67% 33% Black Mountain Rd

Scenario:	Future Year 2035 - Preferred Network	
N/S Street:	Black Mountain Rd	
E/W Street:	Hillery Dr	





Int 67 AM Peak Volumes



Int 67 PM Peak Volumes





LEGEND	
Existing K-Factor	xx%
ADT Volume	xx
Total Entering Volume	xx



Int 68 AM Peak Volumes







Int 68 PM Peak Volumes







Int 69 AM Peak Volumes



Black Mountain Rd

LEGEND	
Existing K-Factor	xx%
ADT Volume	xx
Total Entering Volume	xx



Int 69 PM Peak Volumes



Black Mountain Rd

LEGEN	ID
Existing K-Factor	xx%
ADT Volume	XX
Total Entering Volume	xx



Int 70 AM Peak Volumes





Int 70 PM Peak Volumes







Int 71 AM Peak Volumes

Scenario:	ruture fear 2035 - Recommended Network	
N/S Street:	Maya Linda Rd	
E/W Street:	Carroll Canyon Rd	



LEGEN	ID
Existing K-Factor	
ADT Volume	XX
Total Entering Volume	xx





Int 71 PM Peak Volumes

Scenario:	Future Year 2035 - Recommended Network	
N/S Street:	Maya Linda Rd	

E/W Street: Carroll Canyon Rd







Int 72 AM Peak Volumes





Int 72 PM Peak Volumes





Int 73 AM Peak Volumes



LEGEN	ND
Existing K-Factor	xx%
ADT Volume	xx
Total Entering Volume	xx



Int 73 PM Peak Volumes



Black Mountain Rd/ Kearny Villa Rd





Scenario: Existing (2018) N/S Street: Kearny Mesa Rd E/W Street: Kearny Villa Rd Intersection #: 74 Kearny Mesa Rd 99% 1% 185 9.0% 186 1 Û 2,067 企 0 1 0 Kearny Villa Rd Û Ŵ \mathfrak{A} ∾ 185 Kearny Villa Rd 67% 1290 ⇔ 1289 ⇔ 1474 70% \Leftrightarrow 0 2100 1915 \bigtriangledown ŵ 0 2099 33% 625 625 ⇔ ⇔ 30% ⇔ 625 0 😒 $\overline{\nabla}$ \bigtriangledown 9.0% 9.0% 企 21,278 0 0 23,322 0 Û Û 0 0 0.0% 0 0% 0% 0 Kearny Mesa Rd

Int 74 AM Peak Volumes

Scenario:	Future Year 2035 - Recommended Network	
N/S Street:	Kearny Mesa Rd	
E/W Street:	Kearny Villa Rd	



LEGEN	ID
Existing K-Factor	xx%
ADT Volume	xx
Total Entering Volume	xx



Int 74 PM Peak Volumes







Int 75 AM Peak Volumes









Int 75 PM Peak Volumes





LEGEN	ID
Existing K-Factor	xx%
ADT Volume	xx
Total Entering Volume	xx



Int 76 AM Peak Volumes



Scenario:	Future Year 2035 - Recommended Network	
N/S Street:	Westview Pkwy	
E/W Street:	Mira Lee Way	







Int 76 PM Peak Volumes



Scenario:	Future Year 2035 - Recommended Network	
N/S Street:	Westview Pkwy	
E/W Street:	Mira Lee Way	







Existing (2018) Scenario: N/S Street: Westview Pkwy Galvin Ave E/W Street: Intersection #: 77 Westview Pkwy 73% 27% 1256 461 8.7% 1717 Û 19,810 企 104 1152 0 Û \mathfrak{A} Ŵ ∾ 0 Galvin Ave 40% 252 ⇔ 0 0% Galvin Ave \Leftrightarrow ⇔ 0 2102 627 138 \bigtriangledown Ŵ 0 0 60% 375 0 ⇔ 0% ⇔ 0 ⇔ 237 \mathfrak{A} $\overline{\nabla}$ 13.8% \bigtriangledown 0.0% 企 4,548 148 323 0 0 Û 企 1389 471 8.3% 1860 25% 22,495 75% Westview Pkwy

Int 77 AM Peak Volumes

Scenario:	Future Year 2035 - Recommended Network	
N/S Street:	Westview Pkwy	
E/W Street:	Galvin Ave	



LEGEN	ID	
Existing K-Factor	xx%	
ADT Volume	xx	
Total Entering Volume	хх	



Int 77 PM Peak Volumes









Int 78 AM Peak Volumes



LEGEND	
Existing K-Factor	xx%
ADT Volume	XX
Total Entering Volume	xx


Int 78 PM Peak Volumes



LEGEN	ND
Existing K-Factor	xx%
ADT Volume	XX
Total Entering Volume	xx



Int 79 AM Peak Volumes



LEGEN	ID
Existing K-Factor	xx%
ADT Volume	xx
Total Entering Volume	xx



Int 79 PM Peak Volumes



LEGEN	ID
Existing K-Factor	xx%
ADT Volume	xx
Total Entering Volume	xx



Int 80 AM Peak Volumes





LEGEN	ID
Existing K-Factor	xx%
ADT Volume	xx
Total Entering Volume	xx



Int 80 PM Peak Volumes









Existing (2018) Scenario: N/S Street: Camino Santa Fe E/W Street: Top Gun St Intersection #: 81 Camino Santa Fe 73% 27% 837 308 10.6% 1145 Û 10,792 企 391 446 0 Û Ŵ \mathfrak{A} ∾ 0 Top Gun St Top Gun St 79% 628 ⇔ 0 0% \Leftrightarrow ⇔ 0 70 1424 795 \bigtriangledown Ŵ 0 0 21% 167 0 ⇔ 0% ⇔ 0 ⇔ 97 \mathfrak{A} $\overline{\nabla}$ 9.0% \bigtriangledown 0.0% 企 8,833 182 238 0 0 Û Û 488 908 420 5.4% 16,903 54% 46% Camino Santa Fe

Int 81 AM Peak Volumes

Scenario:	Future Year 2035 - Preferred Network	
N/S Street:	Camino Santa Fe	
E/W Street:	Top Gun St	



LEGEND		
Existing K-Factor	xx%	
ADT Volume	xx	
Total Entering Volume	xx	



Int 81 PM Peak Volumes





LEGEND Existing K-Factor xx% ADT Volume xx Total Entering Volume xx



Int 82 AM Peak Volumes





Int 82 PM Peak Volumes



Total Entering Volume

xx



Int 83 AM Peak Volumes



Scenario:	Future Year 2035 - Preferred Network	
N/S Street:	Camino Santa Fe	
E/W Street:	Summers Ridge Rd	



LEGEN	ID
Existing K-Factor	xx%
ADT Volume	xx
Total Entering Volume	xx



Int 83 PM Peak Volumes



Scenario:	Future Year 2035 - Preferred Network	
N/S Street:	Camino Santa Fe	
E/W Street:	Summers Ridge Rd	



LEGEND	
Existing K-Factor	xx%
ADT Volume	XX
Total Entering Volume	xx



Int 84 AM Peak Volumes





LEGEN	ID
Existing K-Factor	xx%
ADT Volume	XX
Total Entering Volume	xx



Int 84 PM Peak Volumes









Int 85 AM Peak Volumes



LEGEN	ID
Existing K-Factor	xx%
ADT Volume	XX
Total Entering Volume	xx



Int 85 PM Peak Volumes



LEGEN	ND
Existing K-Factor	xx%
ADT Volume	XX
Total Entering Volume	xx



Int 86 AM Peak Volumes









Int 86 PM Peak Volumes



Scenario:	Future Year 2035 - Preferred Network	
N/S Street:	Rehco Rd	
E/W Street:	Carroll Rd	







Int 87 AM Peak Volumes



 LEGEND

 Existing K-Factor
 xx%

 ADT Volume
 xx

 Total Entering Volume
 xx



Int 87 PM Peak Volumes



Carroll Rd





Int 88 AM Peak Volumes









Int 88 PM Peak Volumes



E/W Street: Capricorn Way







Int 89 AM Peak Volumes



Scenario:	Future Year 2035 - Preferred Network	
N/S Street:	Camino Ruiz	
E/W Street:	Gold Coast Dr	



LEGEN	ID	
Existing K-Factor	xx%	
ADT Volume	xx	
Total Entering Volume	xx	



Int 89 PM Peak Volumes



Scenario:	Future Year 2035 - Preferred Network	
N/S Street:	Camino Ruiz	
E/W Street:	Gold Coast Dr	



LEGEN	ID	
Existing K-Factor	xx%	
ADT Volume	xx	
Total Entering Volume	xx	



Int 90 AM Peak Volumes



Scenario:	Future Year 2035 - Preferred Network	
N/S Street:	Westview Pkwy	
E/W Street:	Capricorn Way	







Int 90 PM Peak Volumes



Scenario:	Future Year 2035 - Preferred Network	
N/S Street:	Westview Pkwy	
E/W Street:	Capricorn Way	









Int 91 AM Peak Volumes

Scenario:	Future Year 2035 - Preferred Network	
N/S Street:	Camino Ruiz	
E/W Street:	Aquarius Dr	



	LEGEN	ID	
	Existing K-Factor	xx%	
	ADT Volume	XX	
-	Fotal Entering Volume	xx	





Int 91 PM Peak Volumes

Scenario:	Future Year 2035 - Preferred Network	
N/S Street:	Camino Ruiz	
E/W Street:	Aquarius Dr	







Int 92 AM Peak Volumes



LEGEND		
Existing K-Factor		
ADT Volume	xx	
Total Entering Volume	xx	



Int 92 PM Peak Volumes



LEGEN	LEGEND								
Existing K-Factor	xx%								
ADT Volume	xx								
Total Entering Volume	xx								



Appendix F – Pedestrian Network Calculation Worksheets

SEGMENT	NOTES	changes made	NB/EB Any ped facilities?	SB/WB Any ped facilities?	NB/EB speed limit (mph)	SB/WB speed limit (mph)	NB/EB Horiz distance bet auto travel way + clear ped zone (ft)	SB/WB Horiz distance bet auto travel way + clear ped zone (ft)	NB/EB Clear ped zone 5' no obstructions	SB/WB Clear ped zone 5' no obstructions	NB/EB Lighting	SB/WB Lighting
Vista Sorrento Pkwy (NB/SB)					-							
Sorrento Valley Blvd to Lusk Blvd	Missing sidewalk SB side	map says add, mtr says no	1	0	50	50	5	0	2	2	1	1
Lusk Blvd to Directors Pl	Missing sidewalk SB side	map says add, mtr says no	1	0	50	50	5	0	2	2	1	1
Directors Pl to Mira Sorrento Pl	Missing sidewalk SB side	map says add, mtr says no	1	0	50	50	5	0	2	2	1	1
Mira Sorrento Pl to Mira Mesa Blvd	Missing sidewalk SB side	map says add, mtr says no	1	0	50	50	5	0	2	2	1	1
Sorrento Valley Rd (NS)												
I-805 SB Ramps to I-805 NB Ramps			1	1	45	45	0	2	2	2	1	1
Sorrento Valley Blvd (EW)												
Juniper Park Ln to Sunny Mesa Rd			1	1	45	45	10	10	2	2	1	1
Sunny Mesa Rd to Camino Santa Fe			1	1	45	45	10	10	2	2	1	1
Lusk Blvd (EW)												
Vista Sorrento Pkwy to Office Driveways			1	1	50	45	8	8	2	2	1	1
Office Driveways to W Wateridge Cir	Missing sidewalk EB side		1	1	50	45	8	8	2	2	1	1
W Wateridge Cir to Telesis Ct			1	1	50	45	8	8	2	2	1	1
Telesis Ct to E Wateridge Cir			1	1	50	45	8	8	2	2	1	1
E Wateridge Cir to Pacific Center Blvd			1	1	50	45	15	15	2	2	1	1
Pacific Center Blvd to Barnes Canyon Rd			1	1	50	45	15	15	2	2	1	1
Barnes Canyon Rd to Morehouse Dr			1	1	50	45	8	8	2	2	1	1
Morehouse Dr to Mira Mesa Blvd			1	1	50	45	8	8	2	2	1	1
Mira Sorrento PI (EW)												
Vista Sorrento Pkwy to Scranton Rd	Lighting is spaced 600' apart on each side. Could make the 300' threshold if lighting was on		1	1	45	45	10	10	1	2	1	1
Scranton Rd (NS)												
Mira Sorrento PI to Morehouse Dr			1	1	35	35	15	15	2	2	1	1
Morehouse Dr to Mira Mesa Blvd			1	1	35	35	2	2	2	2	1	1
Mira Mesa Blvd to Sorrento South Dvwy/Oberlin Dr			1	1	35	35	9	9	2	2	1	1
Sorrento South Dvwy/Oberlin Dr to			1	1	35	35	9	9	2	2	1	1
Carroll Canyon Rd			T	1	35	35	9	9	2	2	1 I	T
Pacific Center Blvd (NS,EW)												
Lusk Blvd to Wireless Wy			1	1	40	40	15	8	2	2	1	1
Wireless Wy to Pacific Heights Blvd			1	1	40	40	15	8	2	2	1	1
Pacific Heights Blvd to Pacific Mesa Blvd			1	1	40	40	15	8	2	2	1	1

And and any of the sector of the s		•	1										
Normal sector Normal	Pacific Heights Blvd (NS,EW) Pacific Center Blvd to Barnes Canyon Rd		CP 0 to 2	1	1	30	30	9	9	2	2	1	1
and by down by down <	(NS) Barnes Canyon Rd to Pacific Mesa Blvd												
Result of the second secon	(EW)		CP 0 to 2	1	1	30	30	g	g	2	2	1	1
Barbar Process Proces													
mp mp <	Pacific Mesa Blvd to Mira Mesa Blvd		SB CP 0 to 2	1	1	30	30	9	9	2	2	1	1
show a constraint 10 <													
answer of and only source of any of an	Mira Mosa Plud to Corporctopo († (NS)	2015	SP CP 0 to 2	1	1	40	40	0	0	2	2	1	1
Normality (1)Normality (1)Normality (1)Normality 			SB CP 0 to 2							-	-		
Name				1	1	40	40	9	9	2	2	1	1
And and any and any	Pacific Heights Blvd to Pacific Center			1	1	35	35	8	8	2	2	1	1
And And <td>Calle Cristobal (EW)</td> <td></td> <td></td> <td>1</td> <td>1</td> <td>45</td> <td>45</td> <td>10</td> <td>0</td> <td>2</td> <td>2</td> <td>1</td> <td>1</td>	Calle Cristobal (EW)			1	1	45	45	10	0	2	2	1	1
model model <t< td=""><td></td><td></td><td></td><td>1</td><td>1</td><td>45</td><td>45</td><td>10</td><td>9</td><td>2</td><td>2</td><td>1</td><td></td></t<>				1	1	45	45	10	9	2	2	1	
and model in the sector of	Lopez Point Dr to Camino Propico	portion of EB		1	1	45	45	10	9	2	2	1	1
manu manu <thmanu< th=""> manu manu <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td> </td></th<></thmanu<>													
Normal and an	Driveways			1	1	45	45	10	9	2	2	1	1
math math	I onez Ridge Park Driveways to Camino												
normal problemnormal problemnorma	Miranda	protected by		1	1	45	45	10	9	2	2	1	1
watcheffer watcheffer </td <td>Camino Miranda to Windy Ridge Wy</td> <td>guararan</td> <td></td> <td>1</td> <td>1</td> <td>45</td> <td>45</td> <td>10</td> <td>9</td> <td>2</td> <td>2</td> <td>1</td> <td>1</td>	Camino Miranda to Windy Ridge Wy	guararan		1	1	45	45	10	9	2	2	1	1
conditionationcondi	Windy Ridge Wy to Prairie Wood Dr			1	1	45	45	10	9	2	2	1	1
and controland controand controland contro	Prairie Wood Dr to Avenida Del Gato												
consistent of the section of the s	Avenida Del Gato to Camino Ruiz Mira Mesa Blvd (EW)												1
calculation regramme(a)(b)(b)(b)(b)(b)(c)	I-805 NB Ramps to Scranton Rd Scranton Rd to Lusk Blvd												
bisb	Lusk Blvd to Pacific Heights Blvd			1	1	50	50	11	11	2	2	1	1
and all of al	Dr/Huennekens St												
interp<interp<interp<interp<interpinterp<interpinterp<interp<interp<interp<interp<interp<interp<interp<interp<interp<interp<interp<interp<interp<interp<interp<interp<interp<interp<interp<interp<interp<interp<interp<interp<interp<interp<interp<interp<interp<interp<interp<interp<interp<interp<interp<interp<interp<	Center Dr/Steadman St												
Inc. In the image of the im	Genetic Center Dr/Steadman St to Flanders Dr			1	1	50	50	11	11	2	2	1	1
matrix matrix matrix matrix matrix matrix matrix matrix matrix matrix 	Flanders Dr to Viper Wy			1	1	50	50	15	11	2	2	1	1
marked bind bind bind bind bind bind bind bin					_							_	_
increase standard increase standard incre	Viper Wy to Camino Santa Fe Camino Santa Fe to Schilling Ave						50						
appendix Haming from the matrix hand and the matrix hand matr	Schilling Ave to Aderman Ave Aderman Ave to Parkdale Ave												
marked scale and sc	Parkdale Ave to Reagan Rd				1								
main mark mark mark mark mark mark 										-	-		
y matrix to basis by to basis by<	Ruiz			1	1	45	45	16	17	2	2	1	1
According ControlAccording ControlAccordAA <td>Wy</td> <td></td> <td></td> <td>1</td> <td>1</td> <td>40</td> <td>40</td> <td>16</td> <td>17</td> <td>2</td> <td>2</td> <td>1</td> <td>1</td>	Wy			1	1	40	40	16	17	2	2	1	1
beschering registering re	Westonhill Dr												
Nome Nome </td <td>Greenford Dr to Westmore Rd/Marbury</td> <td></td>	Greenford Dr to Westmore Rd/Marbury												
contain any between the betwee	Ave Westmore Rd/Marbury Ave to Black								16				1
basic	Mountain Rd												
unicedence information intermediation intermediatina intermediation intermediatina intermediatina inter	Westview Pkwy to I-15 SB Ramps												
usines across tool of wind wind I <thi< th=""> I <thi< td=""><td>I-15 SB Ramps to I-15 NB Ramps Carroll Canyon Rd/Carroll Rd (EW)</td><td></td><td></td><td>1</td><td>1</td><td>35</td><td>35</td><td>0</td><td>0</td><td>2</td><td>2</td><td>1</td><td>1</td></thi<></thi<>	I-15 SB Ramps to I-15 NB Ramps Carroll Canyon Rd/Carroll Rd (EW)			1	1	35	35	0	0	2	2	1	1
quarters works quarters	Sorrento Valley Rd/Mira Mesa Blvd to			1	1	45	45	2	2	2	2	2	1
unifers action to not the field of participant of of partite partitipant of participant of partite partite participant of p	Business Access Road												
cyclic field Young (own) sidewak (n Tig) 1 <	Business Access Road to Scranton Rd			1	1	45	45	2	2	2	2	2	1
late late </td <td>Scranton Rd to Youngstown Wy</td> <td></td> <td></td> <td>1</td> <td>1</td> <td>45</td> <td>45</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>1</td> <td>1</td>	Scranton Rd to Youngstown Wy			1	1	45	45	2	2	2	2	1	1
ningtor ning base 1 1 4 4 1		side									_		
increduction interpretent interpr	Youngstown Wy to Nancy Ridge Dr			1	1	45	45	2	2	2	2	1	1
and all of the point										_			
rankee tend base relected b	Nancy Ridge Dr to Pacific Heights Blvd	guardrail		1	1	45	45	2	2	2	2	1	1
amine Satural F to Kenamar DV (1) 1 35 35 8 8 2 2 1 1 amine Soft Marker M (EV) (1) 1 45 25 8 8 2 2 1 1 aframe M (EV) (1) 1	Pacific Heights Blvd to Rehco Rd												
dirame Rd (W) image	Camino Santa Fe to Kenamar Dr			1	1	35	35	8	8	2	2	1	1
Airmar PI to Camino Santa Fethresholds along Mirar and115050311722221Amino Santa Fe to Commerce Aw Section (EB side)Applat iddewalk section (EB side)111150500666622222211Iommerce Ave to Production Aw Restarce Ave to Production Aw Restarce Ave to Production Aw (EB side)Applat iddewalk 	Kenamar Dr to Miramar Rd Miramar Rd (EW)			1	1	35	35	8	8	2	2	1	1
Min mar Image	Miramar Pl to Camino Santa Fe			1	1	50	50	3	17	2	2	2	1
amind Santa Pe to Commerce Ave to Production Ave Commerce Ave to Production Ave (B side)Applit sidewalk Commerce Ave to Production Ave 				1	1	50	50	3	17	2	2	2	-
Including and probability of the state o		Asphalt sidewalk				50	50	<i>.</i>	ć	2	2	2	
commerce Ave to Production Ave (EB side)Asphalt sidewalk (EB side)115050682221roduction Ave to Distribution Ave (EB side)Asphalt sidewalk (EB side)111505066822221sistribution Ave to Miramar Wy (EB side)Asphalt sidewalk (EB side)111505066822221Airamar Wy to Carroll Ad (EB side)Asphalt sidewalk (EB side)111505066822221arroll Ad to Empire St (EB side)Asphalt sidewalk (EB side)11150506682221arroll Ad to Empire St (EB side)Asphalt sidewalk (EB side)11505066822221arroll Ad to Empire St (EB side)Asphalt sidewalk (EB side)11505066822221arroll Ado Dr Cabit Dr (EB side)Asphalt sidewalk (EB side)11505066822221arroll Ado Dr Cabit Dr (Asphalt sidewalk (EB side)11505066822221arroll Ado Dr Cabit Dr (Asphalt sidewalk (EB side)115050668222211	Camino Santa Fe to Commerce Ave	section (EB side)		1	1	50	50	Ь	б	2	2	2	1
International (Ending) Internation Internation <thinterna< td=""><td>Commerce Ave to Production Ave</td><td></td><td></td><td>1</td><td>1</td><td>50</td><td>50</td><td>6</td><td>8</td><td>2</td><td>2</td><td>2</td><td>1</td></thinterna<>	Commerce Ave to Production Ave			1	1	50	50	6	8	2	2	2	1
reduction Ave to Distribution Ave (EB side)Res <td></td> <td>(EB side)</td> <td></td> <td>-</td> <td>-</td> <td>50</td> <td>50</td> <td></td> <td>6</td> <td>L</td> <td>2</td> <td>2</td> <td>-</td>		(EB side)		-	-	50	50		6	L	2	2	-
Instribution Ave to Miramar Wy[EB side]IIS0S0B822221Aliramar Wy to Carroll RdAsphalt sidewalk (EB side)Asphalt sidewalk (EB side)I15005006822221Arroll Rd to Empire StAsphalt sidewalk (EB side)I15005006822221Arroll Rd to Empire StAsphalt sidewalk (EB side)I15005006822221Arroll Rd to Empire StAsphalt sidewalk (EB side)I15005006822221Abplat sidewalk (EB side)I15005006822211Abplat sidewalk (EB side)I15005006822211Abplat Sidewalk (EB side)I15005006822211Abplat Sidewalk (EB side)I15005006822211Abplat Sidewalk (EB side)I14004506322221Abplat Sidewalk (EB side)I1400456322221Abplat Sidewalk (EB side)I140045<	Production Ave to Distribution Ave			1	1	50	50	6	8	2	2	2	1
Instribution Ave to Miramar Wy[EB side]IIS0S0B822221Aliramar Wy to Carroll RdAsphalt sidewalk (EB side)Asphalt sidewalk (EB side)I15005006822221Arroll Rd to Empire StAsphalt sidewalk (EB side)I15005006822221Arroll Rd to Empire StAsphalt sidewalk (EB side)I15005006822221Arroll Rd to Empire StAsphalt sidewalk (EB side)I15005006822221Abplat sidewalk (EB side)I15005006822211Abplat sidewalk (EB side)I15005006822211Abplat Sidewalk (EB side)I15005006822211Abplat Sidewalk (EB side)I15005006822211Abplat Sidewalk (EB side)I14004506322221Abplat Sidewalk (EB side)I1400456322221Abplat Sidewalk (EB side)I140045<	Distribution Aug to Minana M			4	1	50	50		0	2	2	2	1
Initiating wy to Carron Rd(EB side)IISoSoSoBSoSoII<	Distribution Ave to Iviiramar Wy			1	1	50	50	0	ŏ	2	2	2	1
Carroll Rd to Empire StSphalt sidewalk (EB side)115050682221impire St to Dowdy Dr $sphalt sidewalk$ (EB side)115050682221owdy Dr to Cabot Dr $sphalt sidewalk$ (EB side)115050682221camino Ruiz to Clayton Dr/Mitscher Wy to Black $sphalt sidewalk$ 115050682221catot Dr /Mitscher Wy to Black $sphalt sidewalk$ 115050682221catot Dr /Mitscher Wy to Black $sphalt sidewalk$ 114045632221	Miramar Wy to Carroll Rd			1	1	50	50	6	8	2	2	2	1
Larron Koto Empire StLEB side)LLSoSoSoBB22221impire St to Dowdy DrAsphalt sidewalk (EB side)115050682221bowdy Dr to Cabot DrAsphalt sidewalk (EB side)115050682221cabot Dr to Camino RuizAsphalt sidewalk (EB side)115050682221cabot Dr to Camino RuizAsphalt sidewalk (EB side)115050682221camino Ruiz to Clayton Dr/Mitscher Wy to BlackAsphalt sidewalk (EB side)114045632221clayton Dr/Mitscher Wy to BlackAsphalt sidewalk114045332221													<u> </u>
Impire St to Dowoy Dr(EB side)IIS0S0B82221Dowdy Dr to Cabot DrAsphalt sidewalk (EB side)115050682221Cabot Dr to Camino RuizAsphalt sidewalk (EB side)115050682221Cabot Dr to Camino RuizAsphalt sidewalk (EB side)115050682221Cabot Dr to Camino RuizAsphalt sidewalk (EB side)114045632221Catoto Dr/Mitscher Wy to BlackAsphalt sidewalk114045332221	Carroll Rd to Empire St			1	1	50	50	6	8	2	2	2	1
Image: Registric (EB side) Registri (EB	Empire St to Dowdy Dr			1	1	50	50	6	8	2	2	2	1
Now of Dr Cable Dr(EB side)IIS0S0B82221Cabot Dr to Camino RuizAsphalt sidewalk (EB side)115050682221Camino Ruiz to Clayton Dr/Mitscher Wy to BlackAsphalt sidewalk (EB side)114045632221Clayton Dr/Mitscher Wy to BlackAsphalt sidewalk114045332221													<u> </u>
Labor Dr Camino Ruiz(EB side)IISUSUBBBIIICamino Ruiz to Clayton Dr/Mitscher WyAsphalt sidewalkII4045632221Clayton Dr/Mitscher Wy to BlackAsphalt sidewalkII4045332221	Dowdy Dr to Cabot Dr			1	1	50	50	6	8	2	2	2	1
Lamino Ruiz to Clayton Dr/Mitscher Wy to BlackAsphalt sidewalk114045632221Clayton Dr/Mitscher Wy to BlackAsphalt sidewalk11404533221	Cabot Dr to Camino Ruiz			1	1	50	50	6	8	2	2	2	1
Lamino Ruiz to Clayton Dr/Mitscher Wy (EB side) I I 40 45 B 3 2 2 2 1 Clayton Dr/Mitscher Wy to Black Asphalt sidewalk 1 1 40 45 3 2 2 2 2 1													<u> </u>]
	Camino Ruiz to Clayton Dr/Mitscher Wy			1	1	40	45	6	3	2	2	2	1
Aountain Rd (EB side)	Clayton Dr/Mitscher Wy to Black		1	1	1	40	45	3	2	2	2	2	1
	Mountain Rd	(EB side)			-	77			5	-	-		

Black Mountain Rd to Kearny Villa Rd	Asphalt sidewalk (EB side)		1	1	40	45	3	3	2	2	2	1
Kearny Villa Rd to Kearny Mesa Rd	Asphalt sidewalk section (EB side)		1	1	40	45	2	6	2	2	2	1
Kearny Villa Rd to I-15 SB Ramps I-15 SB Ramps to I-15 NB Ramps			1 1	1	40 45	45 45	2	6 8	2 2	2 2	2	1 1
Flanders Dr (EW) Mira Mesa Blvd to Camino Santa Fe	No lighting meets thresholds along Flanders	Increased HD both si	1	1	40	40	15	15	2	2	1	1
Camino Santa Fe to Keoki St Keoki St to Parkdale Ave		adjusted HD for buff	1	1	30 25	30 25	<mark>15</mark> 8	<mark>15</mark> 8	2	2	1	1
Parkdale Ave to Camino Ruiz Camino Ruiz to San Ramon Dr			1 1 1	1 1 1	30 25	30 25	8	8	2 2 2	2 2 2	1 1	1 1 1
San Ramon Dr to Westonhill Dr Westonhill Dr to Greenford Dr			1 1	1 1	25 25	25 25	8 8	8 8	2 2	2 2	1 1	1 1
Camino Santa Fe (NS) Sorrento Valley Blvd/Calle Cristobal to	Section of lighting		1	1	45	50	10	10	2	2	1	1
Top Gun St Top Gun St to Mira Mesa Blvd Mira Mesa Blvd to Flanders Dr	missing		1	1	45 50	50 50	10 10	10 15	2	2	1	1
Flanders Dr to Miratech Dr Miratech Dr to Summers Ridge Rd			1 1 1	1 1 1	50 50 50	50 50 50	10 10 10	10 10 10	2 2	2	1 1	1 1 1
Summers Ridge Rd to Unnamed Road			1	1	50	50	10	10	2	2	1	1
Unnamed Road to Trade St Trade St to Carroll Rd			1	1	50 40	50 40	11 11	11 11	2	2	1	1
Carroll Rd to Miramar Rd Parkdale Ave (NS) Mira Mesa Blvd to Flanders Dr			1	1	40 25	40	11 8	11 8	2	2	1	1
Flanders Dr to Gold Coast Dr Montongo St (NS)			1	1	25	25	8	8	2	2	1	1
New Salem St to Goleta Rd	HD increase SB for two way cycle		1	1	30	30	8	8	2	2	1	1
Goleta Rd to Mira Mesa Blvd Camino Ruiz (NS) Calle Cristobal to Aquarious Dr			1	1	30 40	30	8	8	2	2	1	1
Calle Cristobal to Aquarious Dr Aquarious Dr to Teresa Dr/Capricorn Wy			1	1	40	40	9	18	2	2	1	1
Teresa Dr/Capricorn Wy to Westmore Rd		SB CP 0 to 2	1	1	40	40	9	8	2	2	1	1
Westmore Rd to New Salem St New Salem St to Mira Mesa Blvd			1 1	1 1	40 40	40 40	15 15	9 15	2	2 2	1 1	1 1
Mira Mesa Blvd to Driveway Driveway to Reagan/Marauder Wy			1	1	40 40	40 40	15 15	9 9	2 2	2 2	1	1 1
Reagan Rd/Marauder Wy to Flanders Dr Flanders Dr to Gold Coast Dr			1	1	40 40	40 40	10 10	10 10	2	2	1	1
Gold Coast Dr to Jade Coast Dr			1	1	40	40	10	10	2	2	1	0
Jade Coast Dr to Carroll Canyon Rd	Asphalt sidewalk (both sides)	CP 0 to 2	1	1	40	50	27	26	2	2	1	1
Carroll Canyon Rd to Miralani Dr	Asphalt sidewalk	NB CP 0 to 2	1	1	40	50	13	13	2	2	1	1
Miralani Dr to Activity Rd	section (SB side) Missing sidewalk section (NB side)		1	1	40	50	13	13	2	2	1	1
Activity Rd to Miramar Rd Westmore Rd (EW)			1	1	40	50	13	13	2	2	1	1
Camino Ruiz to Westonhill Dr Reagan Rd (NS,EW) Mire Marco Divid to Coming Divid			1	1	25	25	8	8	2	2	1	1
Mira Mesa Blvd to Camino Ruiz Marauder Wy (EW,NS) Camino Ruiz to Mira Mesa Blvd			1	1	30 30	30	15 8	8	2	2	1	1
Gold Coast Dr (EW) Parkdale Ave to Camino Ruiz			1	1	25	25	7	7	2	2	1	1
Camino Ruiz to San Ramon Dr San Ramon Dr to Westonhill Dr			1	1	25 25	25 25	8 8	8 8	2	2	1 1	1 1
Westonhill Dr to Thanksgiving Ln Thanksgiving Ln to Black Mountain Rd			1	1	25 25	25 25	8	8	2	2	1	1
Black Mountain Rd to Maya Linda Rd			1	1	25	30	8	8	2	2	1	1
Westonhill Dr (NS) Menkar Rd to Aquarious Dr			1	1	25	25	8	9	2	2	1	1
Aquarious Dr to Arcturus Wy Arcturus Wy to Capricorn Wy			1	1	25 25	25 25	8	9 9	2	2	1	1
Capricorn Wy to Libra Dr Libra Dr to Westmore Rd Westmore Rd to Mira Mesa Blvd			1 1 1	1 1 1	25 25 25	25 25 25	8 8 8	9 9 9	2 2 2	2 2 2	1 1 1	1 1 1
Mira Mesa Blvd to Flanders Dr Flanders Dr to Gold Coast Dr		increased HD westbo increased HD westbo	1 1 1	1 1 1	25 25 25	25 25 25	9 9	9 9 9	2 2 2 2	2 2 2 2	1 1 1	1 1 1
Gold Coast Dr to Jade Coast Dr Capricorn Wy (EW)		increased HD westbo	1	1	25	25	9	9	2	2	1	1
Camino Ruiz to Westonhill Dr Westonhill Dr to Bootes St	speed survey unavailable, assumed 25		1	1	25 25	25 25	8	8	2	2	1	1
Bootes St to Black Mountain Rd	speed survey unavailable, assumed 25		1	1	25	25	8	8	2	2	1	1
Black Mountain Rd to Westview Pkwy	speed survey unavailable, assumed 25		1	1	25	25	26	26	2	2	1	1
Black Mountain Rd (NS) North of Northern Community Limit to Mercy Rd			1	1	45	45	11	11	2	2	1	1
Mercy Rd to Westview Pkwy Westview Pkwy to Capricorn Wy			1	1	50 50	50 50	11 11	11 11	2	2	1	1 1
Capricorn Wy to Galvin Ave Galvin Ave to Gemini Ave			1 1	1 1	50 35	50 35	11 12	11 13	2	2 2	1 1	1 1
Gemini Ave to Mira Mesa Blvd Mira Mesa Blvd to Village Green/The Hille Deirawaya			1	1	35 40	35 40	<u>12</u> 15	13 15	2	2	1	1
Hills Driveways Village Green/The Hills Driveways to Hillery Dr			1	1	40	40	15	15	2	2	1	1
Hillery Dr Hillery Dr to Miramar College Miramar College to Gold Coast Dr			1	1	40 40	40 40	8	13 13	2	2	1	1
Gold Coast Dr to Carroll Canyon Rd	Asphalt sidewalk section (SB side)		1	1	40 40 40	40 40 40	8	13	2	2	1	1
Maya Linda Rd to Black Mountain	Section (SB SIDE)											
Maya Linda Rd to Black Mountain Rd/Carroll Centre Rd Black Mountain Rd/Kearny Villa Rd to			1	1	40	40	16	16	2	2	1	1
Activity Rd Activity Rd to Miramar Rd		SB CP 0 to 2	1	1	30 30	30 30	15 15	15 15	2	2	2	2 2
Kearny Villa Rd (NS) Black Mountain Rd/Carroll Centre Rd to Miramar Rd		HD increased	1	1	40	40	17	17	2	2	1	1
Hillery Dr (EW) Greenford Dr to Rickert Rd Rickert Rd to Black Mountain Rd			1	1	30	30	8	8	2	2	1	1
Rickert Rd to Black Mountain Rd Black Mountain Rd to Westview Pkwy			1	1	30 35	30 35	8	8 15	2	2	1	1
Activity Rd (EW)												

Camino Ruiz to Black Mountain Rd	HD increased for both	1	1	35	35	9	9	2	2	1	1
Mercy Rd (EW)											
Black Mountain Rd to Kika Ct		1	1	45	50	6	10	2	2	1	1
Kika Ct to Alemania Rd		1	1	45	50	6	10	2	2	1	1
I-15 SB Ramps to I-15 NB Ramps		1	1	45	50	2	2	2	2	1	1
Westview Pkwy (NS)											
Black Mountain Rd to Campus Point Dr N		1	1	45	45	9	9	2	2	1	1
Campus Point Dr N to Campus Point Dr S	5	1	1	45	45	9	9	2	2	1	1
Campus Point Dr S to Capricorn Wy		1	1	45	45	9	9	2	2	1	1
Capricorn Wy to Mira Lee Wy		1	1	40	40	9	9	2	2	1	1
Mira Lee Wy to Galvin Ave		1	1	40	40	9	9	2	2	1	1
Galvin Ave to Mira Mesa Blvd		1	1	40	40	8	16	2	2	1	1
Mira Mesa Blvd to Market Center Driveway		1	1	40	40	6	21	2	2	2	2
Market Center Blvd to Hillery Dr		1	1	40	40	6	21	2	2	2	2
Carroll Canyon Rd (EW)											
Black Mountain Rd to Maya Linda Rd		1	1	35	35	9	9	2	2	1	1
Maya Linda Rd to I-15 SB Ramps		1	1	35	35	9	9	2	2	1	1
I-15 SB Ramps to I-15 NB Ramps		1	1	35	35	9	9	2	2	1	1
Carroll Road to Camino Santa Fe		1	1	40	40	2	2	2	2	1	1
Camino Santa Fe to Camino Ruiz		1	1	40	40	6	6	2	2	1	1
Camino Ruiz to Black Mountain Rd		1	1	40	40	6	6	2	2	1	1

Intersection Intersection		ection							
ID	NB/SB	EB/WB	Intersection Leg	Physical	Operational	ADA Curb Ramps	Traffic Control	SCORE	GRADE
1	Vista Sorrento Pkwy	Lusk Blvd	North	-	-	-	2	2	Restricted
	· · · ·		East	1	1	2	2	6	Medium
			South	1	1	2	2	6	Medium
			West						
2	Vista Sorrento Pkwy	Directors Pl	North	2	1	-	2	5	Medium
	· · · ·		East	1	1	2	2	6	Medium
			South	-	-	-	2	2	Restricted
			West						
3	Vista Sorrento Pkwy	Mira Sorrento Pl	North	2	1	2	2	7	High
			East	1	1	2	2	6	Medium
			South	-	-	-	2	2	Restricted
			West	-	-	-	2	2	Restricted
4	Vista Sorrento Pkwy	Mira Mesa Blvd	North	1	1	2	2	6	Medium
			East	-	-	-	2	2	Restricted
			South	-	-	-	2	2	Restricted
			West	-	-	-	2	2	Restricted
5	I-805 NB Ramps	Carroll Canyon Rd	North	-	-	-	2	2	Restricted
			East	-	-	-	2	2	Restricted
			South	1	1	2	2	6	Medium
			West	-	-	-	2	2	Restricted
6	Juniper Park Ln	Sorrento Valley Blvd	North	1	1	2	2	6	Medium
			East	1	1	2	2	6	Medium
			South	1	1	2	2	6	Medium
			West	1	1	2	2	6	Medium
7	Sunny Mesa Rd	Sorrento Valley Blvd	North	1	1	2	2	6	Medium
			East	1	1	2	2	6	Medium
			South	1	1	2	2	6	Medium
			West	1	1	2	2	6	Medium
8	Camino Santa Fe	Sorrento Valley Blvd	North						
			East	1	1	2	2	6	Medium
			South	2	1	2	2	7	High
			West	-	-	-	2	2	Restricted
9	Camino Santa Fe	Top Gun St	North	1	1	2	2	6	Medium
			East						
			South	1	1	2	2	6	Medium
			West	1	1	2	2	6	Medium
10	Camino Santa Fe	Flanders Dr	North	1	1	2	2	6	Medium
			East	2	1	2	2	7	High
ĺ			South	1	1	2	2	6	Medium
			West	2	1	2	2	7	High
11	Youngstown Wy	Carroll Canyon Rd	North	1	1	2	2	6	Medium
ĺ			East	-	-	-	2	2	Restricted
1			South						
			West	1	1	2	2	6	Medium
12	Nancy Ridge Dr	Carroll Canyon Rd	North						
		, i i i i i i i i i i i i i i i i i i i	East	1	1	2	2	6	Medium
			South	-	-	-	0	0	Restricted
			West	-	-	-	2	2	Restricted

Intersection	Int	ersection							
ID	NB/SB	EB/WB	Intersection Leg	Physical	Operational	ADA Curb Ramps	Traffic Control	SCORE	GRADE
13	Office Driveways	Lusk Blvd	North	1	1	2	2	6	Medium
	•		East	-	-	-	2	2	Restricted
			South	1	1	2	2	6	Medium
			West	1	1	2	2	6	Medium
14	W Wateridge Cir	Lusk Blvd	North	1	1	2	2	6	Medium
			East	1	1	2	2	6	Medium
			South	1	1	2	2	6	Medium
			West	1	1	2	2	6	Medium
15	Telesis Ct	Lusk Blvd	North	1	1	2	2	6	Medium
			East	1	1	2	2	6	Medium
			South	1	1	2	2	6	Medium
			West	1	1	2	2	6	Medium
16	E Wateridge Cir	Lusk Blvd	North						
			East	1	1	2	2	6	Medium
			South	1	1	2	2	6	Medium
			West	1	1	2	2	6	Medium
17	Pacific Center Blvd	Lusk Blvd	North	1	1	2	2	6	Medium
		2001 0110	East	-	-	-	2	2	Restricted
			South	1	1	2	2	6	Medium
			West	1	1	2	2	6	Medium
18	Lusk Blvd	Barnes Canyon Rd	North	1	1	2	2	6	Medium
10	Edsk blvd	barries canyon na	East	1	1	2	2	6	Medium
			South	1	1	2	2	6	Medium
			West	1	1	2	2	6	Medium
19	Lusk Blvd	Morehouse Dr	North	1	1	2	2	6	Medium
15	Lusk bivu	Worenouse Di	East	-			٤	0	Wiedidiii
			South	1	1	2	2	6	Medium
			West	1	1	2	2	6	Medium
20	Lusk Blvd	Mira Mesa Blvd	North	1	1	2	2	6	Medium
20	Lusk bivu	Ivilla iviesa bivu	East	1	1	2	2	6	Medium
			South	1	1	2	2	6	Medium
			West	1	1	2	2	6	Medium
21	Coronton Dd	Mira Sorrento Pl	North	-	-	-	2	2	
21	Scranton Rd			-	-	-	2	2	Restricted
			East South	1	1	2	2	6	Medium
			West	1	1	2	2	6	Medium
22	Scranton Rd	Morehouse Dr	North	1	1	2	2	6	
22	Scranton Ru	Morenouse Dr		1	1	2	2	6	Medium
			East	1	1	2	2	6	Medium
			South	1	1	2	2	6	Medium
22	Courses and	Mire Massa Dhud	West		1	2	2	6	Medium
23	Scranton Rd	Mira Mesa Blvd	North	1	1	2			Medium
			East	1			2	6	Medium
			South	1	1	2	2	6	Medium
	<u> </u>		West	-	-	-	2	2	Restricted
24	Scranton Rd	Sorrento South Dwy/Oberlin Dr	North	-	-	-	2	2	Restricted
			East	1	1	2	2	6	Medium
			South	1	1	2	2	6	Medium
			West	1	1	2	2	6	Medium
Intersection	Inters	ection							00105
--------------	----------------------------	----------------------	------------------	----------	-------------	----------------	-----------------	-------	------------
ID	NB/SB	EB/WB	Intersection Leg	Physical	Operational	ADA Curb Ramps	Traffic Control	SCORE	GRADE
25	Scranton Rd	Carroll Canyon Rd	North	1	1	2	2	6	Medium
			East	-	-	-	2	2	Restricted
			South						
			West	1	1	2	2	6	Medium
26	Pacific Heights Blvd	Barnes Canyon Rd	North	1	1	2	2	6	Medium
			East	1	1	2	2	6	Medium
			South	1	1	2	2	6	Medium
			West	1	1	2	2	6	Medium
27	Wireless Wy	Pacific Center Blvd	North	1	1	2	2	6	Medium
			East	1	1	2	2	6	Medium
			South	1	1	2	2	6	Medium
			West	-	-	-	2	2	Restricted
28	Pacific Heights Blvd	Pacific Center Blvd	North	1	1	2	2	6	Medium
20	i dente ricigite bita		East	1	1	2	2	6	Medium
			South	1	1	2	2	6	Medium
			West	-	-	-	2	2	Restricted
29	Pacific Mesa Blvd	Pacific Center Blvd	North	1	1	2	2	6	Medium
25	r delle mesa biva	ruenie center biva	East	1	1	2	2	6	Medium
			South	1	1	2	2	6	Medium
			West	1	1	2	2	6	Medium
30	Pacific Mesa Blvd	Pacific Heights Blvd	North	1	1	2	2	6	Medium
50	Pacific Iviesa Bivu	Pacific Heights Bivu	East	-	-	-	2	2	Restricted
			South	1	1	2	2	6	Medium
				1	1	2	2	6	
21	De sifie Uninkte Dhud	Mine Marea Dhud	West	2	1	2	2	7	Medium
31	Pacific Heights Blvd	Mira Mesa Blvd	North	2	1	2	2	7	High
			East	2	1	2	2	7	High
			South			2		7	High
22			West	2	1		2		High
32	Pacific Heights Blvd	Cornerstone Ct	North	1	1	2	2	6	Medium
			East	1	1	2	2	6	Medium
			South	1	1	2	2	6	Medium
			West	1	1	2	2	6	Medium
33	Pacific Heights Blvd	Carroll Canyon Rd	North	1	1	2	2	6	Medium
			East	-	-	-	2	2	Restricted
			South			-	-		
			West	1	1	2	2	6	Medium
34	Lopez Point Dr	Calle Cristobal	North	1	1	2	2	6	Medium
			East	1	1	2	2	6	Medium
			South	1	1	2	2	6	Medium
			West	1	1	2	2	6	Medium
35	Camino Propico	Calle Cristobal	North	1	1	2	2	6	Medium
			East	-	-	-	2	2	Restricted
			South	1	1	2	2	6	Medium
			West	1	1	2	2	6	Medium
36	Lopez Ridge Park Driveways	Calle Cristobal	North	1	1	2	2	6	Medium
			East	1	1	2	2	6	Medium
			South	1	1	2	2	6	Medium
			West	1	1	2	2	6	Medium

Intersection	Intersec	tion							
ID	NB/SB	EB/WB	Intersection Leg	Physical	Operational	ADA Curb Ramps	Traffic Control	SCORE	GRADE
37	Camino Miranda	Calle Cristobal	North	1	1	2	2	6	Medium
			East	1	1	2	2	6	Medium
			South	1	1	2	2	6	Medium
			West	1	1	2	2	6	Medium
38	Windy Ridge Wy	Calle Cristobal	North	1	1	2	2	6	Medium
			East	1	1	2	2	6	Medium
			South	1	1	2	2	6	Medium
			West	1	1	2	2	6	Medium
39	Prairie Wood Dr	Calle Cristobal	North	1	1	2	2	6	Medium
			East	1	1	2	2	6	Medium
			South	1	1	2	2	6	Medium
			West	1	1	2	2	6	Medium
40	Avenida Del Gato	Calle Cristobal	North	1	1	2	2	6	Medium
			East	1	1	2	2	6	Medium
			South	1	1	2	2	6	Medium
			West	1	1	2	2	6	Medium
41	Camino Ruiz	Calle Cristobal	North	1	1	2	2	6	Medium
			East	1	1	2	2	6	Medium
			South	-	-	-	2	2	Restricted
			West	1	1	2	2	6	Medium
42	Sequence Dr/ Huennekens St	Mira Mesa Blvd	North	1	1	2	2	6	Medium
	· · · · · · · · · · · · · · · · · · ·		East	1	1	2	2	6	Medium
			South	1	1	2	2	6	Medium
			West	-	-	-	2	2	Restricted
43	Genetic Center/Steadman St	Mira Mesa Blvd	North	1	1	2	2	6	Medium
			East	1	1	2	2	6	Medium
			South	1	1	2	2	6	Medium
			West	1	1	2	2	6	Medium
44	Flanders Dr	Mira Mesa Blvd	North	2	1	2	2	7	High
			East	1	1	2	2	6	Medium
			South	2	1	2	2	7	High
			West	1	1	2	2	6	Medium
45	Viper Wy	Mira Mesa Blvd	North	1	1	2	2	6	Medium
			East	1	1	2	2	6	Medium
			South	1	1	2	2	6	Medium
			West	1	1	2	2	6	Medium
46	Camino Santa Fe	Mira Mesa Blvd	North	2	1	2	2	7	High
			East	2	1	2	2	7	High
			South	2	1	2	2	7	High
			West	2	1	2	2	7	High
47	Schilling Ave	Mira Mesa Blvd	North	1	1	2	2	6	Medium
			East	1	1	2	2	6	Medium
			South	1	1	2	2	6	Medium
			West	1	1	2	2	6	Medium
48	Aderman Ave	Mira Mesa Blvd	North	1	1	2	2	6	Medium
			East	1	1	2	2	6	Medium
			South	1	1	2	2	6	Medium
			West	1	1	2	2	6	Medium

Intersection	Intersec	tion							CRADE
ID	NB/SB	EB/WB	Intersection Leg	Physical	Operational	ADA Curb Ramps	Traffic Control	SCORE	GRADE
49	Parkdale Ave	Mira Mesa Blvd	North	2	1	2	2	7	High
			East	1	1	2	2	6	Medium
			South	2	1	2	2	7	High
			West	1	1	2	2	6	Medium
50	Reagan Rd	Mira Mesa Blvd	North	1	2	2	2	7	High
			East	-	-	-	2	2	Restricted
			South	1	1	2	2	6	Medium
			West	1	1	2	2	6	Medium
51	Mira Mesa Mall Driveways	Mira Mesa Blvd	North	1	1	2	2	6	Medium
			East	1	1	2	2	6	Medium
			South	1	1	2	2	6	Medium
			West	-	_	-	2	2	Restricted
52	Camino Ruiz	Mira Mesa Blvd	North	1	1	2	2	6	Medium
52	Culture Rulz	Wind West Bred	East	1	1	2	2	6	Medium
			South	1	1	2	2	6	Medium
			West	1	1	2	2	6	Medium
53	New Salem St/Marauder Wy	Mira Mesa Blvd	North	2	1	2	2	7	High
55	New Salem Sty Maradder Wy	Will a Wiesa bivu	East	1	1	2	2	6	Medium
			South	1	1	2	2	6	Medium
	-		West	1	1	2	2	6	Medium
54	Westonhill Dr	Mira Mesa Blvd	North	2	1	2	2	7	High
54	westonnin Dr	IVIITA IVIESA BIVU	East	-	-	-	2	2	Restricted
				2		2	2	7	
			South	1	1	2	2	6	High
55	Case of a set Da	Mine Maree Dhud	West			2	2	6	Medium Medium
55	Greenford Dr	Mira Mesa Blvd	North	1	1	2	2	6	
			East		1	2	2		Medium
			South	1				6	Medium
50			West	1	1	2	2	6	Medium
56	Westmore Rd/Marbury Ave	Mira Mesa Blvd	North	2	1	2	2	7	High
			East	1	1	2	2	6	Medium
			South	2	1	2	2	7	High
			West	1	1	2	2	6	Medium
57	Black Mountain Rd	Mira Mesa Blvd	North	1	1	2	2	6	Medium
			East	1	1	2	2	6	Medium
			South	1	1	2	2	6	Medium
			West	1	1	2	2	6	Medium
58	Westview Pkwy	Mira Mesa Blvd	North	1	1	2	2	6	Medium
			East	-	-	-	2	2	Restricted
			South	1	1	2	2	6	Medium
			West	1	1	2	2	6	Medium
59	I-15 SB Ramps	Mira Mesa Blvd	North	1	2	2	2	7	High
			East	-	-	-	2	2	Restricted
			South						
			West	-	-	-	2	2	Restricted
60	I-15 NB Ramps	Mira Mesa Blvd	North	1	1	2	2	6	Medium
			East	-	-	-	2	2	Restricted
			South	1	1	2	2	6	Medium
			West	-	-	-	2	2	Restricted

Intersection	Intersection								
ID	NB/SB	EB/WB	Intersection Leg	Physical	Operational	ADA Curb Ramps	Traffic Control	SCORE	GRADE
61	Westview Pkwy	Campus Point Dr N	North	-	-	-	2	2	Restricted
	,		East						
			South	1	1	2	2	6	Medium
			West	1	1	2	2	6	Medium
62	Westview Pkwy	Campus Point Dr S	North	-	-	-	2	2	Restricted
-			East						
			South	1	1	2	2	6	Medium
			West	1	1	2	2	6	Medium
63	Westview Pkwy	Capricorn Wy	North	1	1	2	2	6	Medium
		, ,	East	1	1	2	2	6	Medium
			South	1	1	2	2	6	Medium
			West	2	1	2	2	7	High
64	Westview Pkwy	Mira Lee Wy	North	1	1	2	2	6	Medium
	/		East	1	1	2	2	6	Medium
			South	1	2	2	2	7	High
			West	1	1	2	2	6	Medium
65	Westview Pkwy	Galvin Ave	North	1	1	2	2	6	Medium
	· · ·		East						
			South	1	2	2	2	7	High
			West	1	2	2	2	7	High
66	Westview Pkwy	Market Center Driveway	North	1	1	2	2	6	Medium
	,	· · ·	East	1	1	2	2	6	Medium
			South	1	1	2	2	6	Medium
			West	1	1	2	2	6	Medium
67	Westview Pkwy	Hillery Dr	North	1	1	2	2	6	Medium
	,	,	East	1	1	2	2	6	Medium
			South	1	1	2	2	6	Medium
			West	1	1	2	2	6	Medium
68	Maya Linda Rd	Carroll Canyon Rd	North	1	1	2	2	6	Medium
	•		East	1	1	2	2	6	Medium
			South	1	1	2	2	6	Medium
			West	1	1	2	2	6	Medium
69	I-15 SB Ramps	Carroll Canyon Rd	North	1	1	2	2	6	Medium
	•	,	East	-	-	-	2	2	Restricted
			South	1	1	2	2	6	Medium
			West	1	1	2	2	6	Medium
70	I-15 NB Ramps	Carroll Canyon Rd	North	1	1	2	2	6	Medium
			East	1	1	2	2	6	Medium
			South	1	1	2	2	6	Medium
		1	West	-	-	-	2	2	Restricted
71	Camino Santa Fe	Miramar Rd	North	1	1	2	2	6	Medium
			East	1	1	2	2	6	Medium
		1	South	1	1	2	2	6	Medium
			West	-	-	-	2	2	Restricted
72	Commerce Ave	Miramar Rd	North	1	1	2	2	6	Medium
			East	1	1	2	2	6	Medium
			South	1	1	2	2	6	Medium
			West	1	1	2	2	6	Medium

Intersection	Interse	ction							
ID	NB/SB	EB/WB	Intersection Leg	Physical	Operational	ADA Curb Ramps	Traffic Control	SCORE	GRADE
73	Production Ave	Miramar Rd	North	1	1	2	2	6	Medium
,5	Troduction Ave	initian ita	East	1	1	2	2	6	Medium
			South	-	-	2	2	0	Weddun
			West	1	1	2	2	6	Medium
74	Distribution Ave	Miramar Rd	North	1	1	2	2	6	Medium
/4	Distribution Ave		East	-	-	-	2	2	Restricted
			South				2	2	Restricted
			West	1	1	2	2	6	Medium
75	Miramar Wy	Miramar Rd	North	1	1	2	2	6	Medium
75			East	1	1	2	2	6	Medium
			South	1	1	2	2	6	Medium
			West	1	1	2	2	6	Medium
70	Coursell Del	Mine we we Del		1	1	2	2	6	Medium
76	Carroll Rd	Miramar Rd	North East	-		-	2	2	
				-	-	-	2	2	Restricted
			South	4	4	2	2	C.	N 4 a divura
77	Ale susitifie Ct	Mina an Dal	West	1	1	2		6	Medium
77	Alesmith Ct	Miramar Rd	North	1	1	2	2	6	Medium
			East	1	1	2	2	6	Medium
			South						
			West	1	1	2	2	6	Medium
78	Dowdy Dr	Miramar Rd	North	1	1	2	2	6	Medium
			East	-	-	-	2	2	Restricted
			South			-	-		
			West	1	1	2	2	6	Medium
79	Cabot Dr	Miramar Rd	North	1	1	2	2	6	Medium
			East	1	1	2	2	6	Medium
			South						
			West	1	1	2	2	6	Medium
80	Camino Ruiz	Miramar Rd	North	2	1	2	2	7	High
			East	2	1	2	2	7	High
			South						
			West	-	-	-	2	2	Restricted
81	Clayton Dr/Mitscher Wy	Miramar Rd	North	1	1	2	2	6	Medium
			East	1	1	2	2	6	Medium
			South	1	1	2	2	6	Medium
			West	-	-	-	2	2	Restricted
82	Black Mountain Rd	Miramar Rd	North	1	1	2	2	6	Medium
			East	1	1	2	2	6	Medium
			South						
			West	1	1	2	2	6	Medium
83	Kearny Villa Rd	Miramar Rd	North	1	1	2	2	6	Medium
			East	1	1	2	2	6	Medium
			South	1	1	2	2	6	Medium
			West	-	-	-	2	2	Restricted
84	Kearny Mesa Rd	Miramar Rd	North	1	1	2	2	6	Medium
	·		East	1	1	2	2	6	Medium
			South	1	1	2	2	6	Medium
			West	1	1	2	2	6	Medium

Intersection	Intersection		Internetion 1						CRAPE
ID	NB/SB	EB/WB	Intersection Leg	Physical	Operational	ADA Curb Ramps	Traffic Control	SCORE	GRADE
85	I-15 SB Ramps	Miramar Rd	North	1	1	2	2	6	Medium
			East	-	-	-	2	2	Restricted
			South						
			West	-	-	-	2	2	Restricted
86	Rehco Rd	Carroll Rd	North	1	1	2	2	6	Medium
00	Herioo Ha	carron na	East	1	1	2	2	6	Medium
			South	1	1	2	2	6	Medium
			West	1	1	2	2	6	Medium
87	Camino Santa Fe	Carroll Rd	North	2	1	2	2	7	High
0,	canno bandi re	Carron Ha	East	1	1	2	2	6	Medium
			South	2	1	2	2	7	High
			West	2	1	2	2	7	High
88	Carroll Rd	Kenamar Dr	North	1	1	2	2	6	Medium
			East	1	1	2	2	6	Medium
			South	-	-	-	2	2	Restricted
			West	1	1	2	2	6	Medium
89	Black Mountain Rd	Mercy Rd	North	1	1	2	2	6	Medium
00	Shack meditali na	increy na	East	1	1	2	2	6	Medium
			South	1	1	2	2	6	Medium
			West	1	1	2	2	6	Medium
90	Black Mountain Rd	Westview Pkwy	North	1	1	2	2	6	Medium
50	Black Wouldan Ita	westweithkwy	East	1	1	2	2	6	Medium
			South	-	-	-	2	2	Restricted
			West					۷.	Restricted
91	Black Mountain Rd	Capricorn Wy	North	1	1	2	2	6	Medium
51	Black Wouldan Ita	capitcolli wy	East	2	1	2	2	7	High
			South	1	1	2	2	6	Medium
			West	2	1	2	2	7	High
92	Black Mountain Rd	Galvin Ave	North	2	2	2	2	8	High
-			East	1	1	2	2	6	Medium
			South	-	-	-	2	2	Restricted
			West	1	1	2	2	6	Medium
93	Black Mountain Rd	Gemini Ave	North	1	1	2	2	6	Medium
			East	1	1	2	2	6	Medium
			South	1	1	2	2	6	Medium
			West	1	1	2	2	6	Medium
94	Black Mountain Rd	Hillery Dr	North	1	1	2	2	6	Medium
		,	East	1	1	2	2	6	Medium
			South	1	1	2	2	6	Medium
			West	1	1	2	2	6	Medium
95	Black Mountain Rd	Miramar College	North	1	1	2	2	6	Medium
55		initiation concept	East	1	1	2	2	6	Medium
			South	1	1	2	2	6	Medium
			West	•	-	-	2	U U	Medialiti
96	Black Mountain Rd	Gold Coast Dr	North	1	1	2	2	6	Medium
50			East	1	1	2	2	6	Medium
			South	1	1	2	2	6	Medium
			West	1	1	2	2	6	Medium

IntersectionIntersection LegPhysicalOperational97Black Mountain RdCarroll Canyon RdNorth21				
97 Black Mountain Rd Carroll Canyon Rd North 2 1 Image: Constraint of the second s	ADA Curb Ramps	Traffic Control	SCORE	GRADE
East 2 1 South - - - 98 Black Mountain Rd Maya Linda Rd North 2 1 98 Black Mountain Rd Maya Linda Rd North 2 1 98 Black Mountain Rd Maya Linda Rd North 2 1 99 Black Mountain Rd/Kearny Villa RdBlack Mountain Rd/Carroll Centre Rc North 2 1 99 Black Mountain Rd /Kearny Villa RdBlack Mountain Rd/Carroll Centre Rc North 2 1 100 Black Mountain Rd Activity Rd North 2 1 100 Black Mountain Rd Activity Rd North 2 2 100 Black Mountain Rd Activity Rd North 2 2 100 Camino Ruiz Teresa Dr/Capricorn Wy North 1 1 101 Camino Ruiz Teresa Dr/Capricorn Wy North 1 1 102 Camino Ruiz Westmore Rd North 1 1	2	2	7	High
South98Black Mountain RdMaya Linda RdNorth2198Black Mountain RdMaya Linda RdNorth2198Black Mountain RdMaya Linda RdNorth2199Black Mountain Rd/Kearny Villa RdBlack Mountain Rd/Carroll Centre RdNorth2199Black Mountain Rd/Kearny Villa RdBlack Mountain Rd/Carroll Centre RdNorth2199Black Mountain Rd/Kearny Villa RdBlack Mountain Rd/Carroll Centre RdNorth21100Black Mountain RdActivity RdNorth21100Black Mountain RdActivity RdNorth22100Black Mountain RdActivity RdNorth22101Camino RuizTeresa Dr/Capricorn WyNorth11102Camino RuizWestmore RdNorth11102Camino RuizWestmore RdNorth10103Camino RuizNew Salem StNorth11	2	2	7	High
West2198Black Mountain RdMaya Linda RdNorth2198Black Mountain RdMaya Linda RdNorth2199Black Mountain Rd/Kearny Villa RdBlack Mountain Rd/Carroll Centre RdNorth2199Black Mountain Rd/Kearny Villa RdBlack Mountain Rd/Carroll Centre RdNorth2199Black Mountain Rd/Kearny Villa RdBlack Mountain Rd/Carroll Centre RdNorth2199Black Mountain RdActivity RdNorth21100Black Mountain RdActivity RdNorth22100Black Mountain RdActivity RdNorth22101Camino RuizTeresa Dr/Capricorn WyNorth11102Camino RuizWestmore RdNorth11102Camino RuizWestmore RdNorth10103Camino RuizNew Salem StNorth11	-	2	2	Restricted
98Black Mountain RdMaya Linda RdNorth21Image: Constraint of the system of the	2	2	7	High
Label And ConstructionEast21Image: Construction of the constructi	2	2	7	High
Image: second	2	2	7	High
Image: space of the system o	2	2	7	High
99Black Mountain Rd/Kearny Villa Rd Black Mountain Rd/Carroll Centre RNorth21Last21Last21Last21South21Last21West21LastMest211Last21Mest21Last21Mest21LastMorth2211Last1South221Last2South221Last1Mest221Last1South111Last1South111Last1Mest111LastMest1111LastMestSouth111LastMestSouth111LastMestSouth101LastMestSouth101LastMestSouth101LastMestSouth101LastMestSouth101LastMestSouth11LastMestSouth11LastMestSouth11LastMestNorth11LastMest <t< td=""><td>2</td><td>2</td><td>7</td><td>High</td></t<>	2	2	7	High
East21Image: Constraint of the systemSouth21Image: Constraint of the systemSouth21Image: Constraint of the systemSouth21Image: Constraint of the systemSouth22Image: Constraint of the systemSouth22Image: Constraint of the systemSouth22Image: Constraint of the systemSouth11Image: Constraint of the systemSouth10Image: Constraint of the systemSouth11Image: Constraint of the systemSouth10Image: Constraint of the systemSouth11Image: Constraint of the systemSouth11Image: Constraint of the systemSouth11Image: Constraint of the systemSouth11	2	2	7	High
Image: sector of the sector	2	2	7	High
Image: space s	2	2	7	High
100Black Mountain RdActivity RdNorth2211East2221111111Camino RuizTeresa Dr/Capricorn WyNorth111Camino RuizTeresa Dr/Capricorn WyNorth1111111111South11111North111102Camino RuizWestmore RdNorth11103Camino RuizNew Salem StNorth11	2	2	7	High
East22Image: Constraint of the systemImage: Co	2	2	8	High
Image: second	2	2	8	High
Image: system of the system	2	2	8	High
101Camino RuizTeresa Dr/Capricorn WyNorth111East111South111South11102Camino RuizWestmore RdNorth1102Camino RuizWestmore RdNorth1103Camino RuizNew Salem StNorth1	2	2	8	High
East11Image: Section of the s	2	2	6	Medium
Image: system of the system	2	2	6	Medium
Image: constraint of the systemImage: constraint of the systemImage: constraint of the systemImage: constraint of the system102Camino RuizWestmore RdNorth11103Camino RuizNew Salem StNorth11	2	2	6	Medium
102 Camino Ruiz Westmore Rd North 1 1 L East 2 1 L South 1 0 L New Salem St North 1 1	2	2	6	Medium
East 2 1 Image: South state South state 1 0 Image: South state West 2 1 103 Camino Ruiz New Salem St North 1 1	2	2	6	Medium
South 1 0 Image: South state West 2 1 103 Camino Ruiz New Salem St North 1 1	2	2	7	High
West 2 1 103 Camino Ruiz New Salem St North 1 1	2	2	5	Medium
103 Camino Ruiz New Salem St North 1 1	2	2	7	High
	2	2	6	Medium
East 2 1	2	2	7	High
South 1 1	2	2	6	Medium
West 2 1	2	2	7	High
104 Camino Ruiz Driveway North	-	2	2	Restricted
East East				
South 1 1	2	2	6	Medium
West 1 1	2	2	6	Medium
105 Camino Ruiz Reagan Rd/Marauder Wy North 1 1	2	2	6	Medium
East 1 1	2	2	6	Medium
South 1 1	2	2	6	Medium
West 1 1	2	2	6	Medium
106 Camino Ruiz Flanders Dr North 1 1	2	2	6	Medium
Est 2 1	2	2	7	High
South 1 0	2	2	5	Medium
West 2 1	2	2	7	High
107 Camino Ruiz Gold Coast Dr North 1 1	2	2	6	Medium
East 1 1	2	2	6	Medium
South 1 0	2	2	5	Medium
West 2 1				
108 Camino Ruiz Jade Coast Dr North 1 1	2		7	High
East 2 1	2	2	7	High
South	2	2 2	6	Medium
West 2 1		2		-

Intersection	Inte	rsection							GRADE
ID	NB/SB	EB/WB	Intersection Leg	Physical	Operational	ADA Curb Ramps	Traffic Control	SCORE	
109	Camino Ruiz	Carroll Canyon Rd	North	2	1	2	2	7	High
			East	2	1	2	2	7	High
			South	2	1	2	2	7	High
			West	2	1	2	2	7	High
110	Camino Ruiz	Miralani Dr	North	-	-	-	2	2	Restricted
110			East	1	1	2	2	6	Medium
			South	1	0	2	2	5	Medium
			West	1	1	2	2	6	Medium
111	Camino Ruiz	Activity Rd	North	1	1	2	2	6	Medium
		, totally hu	East	1	1	2	2	6	Medium
			South	-	-	-	2	2	Restricted
			West	1	1	2	2	6	Medium
112	Mercy Rd	Kika Ct	North	1	1	2	2	6	Medium
112	Werey Ru	Kika Ct	East	1	1	2	2	6	Medium
			South	-	-	-	2	2	Restricted
			West				۷.	2	Nestricted
113	Alamenia Rd	Mercy Rd	North	1	1	2	2	6	Medium
115	Alamenia Ku	Wercy Ru	East	-	-	-	2	2	Restricted
				1	1	2	2	6	Medium
			South West	1	1	2	2	6	Medium
114		Marray Del			1	2	2		
114	I-15 SB Ramps	Mercy Rd	North	1		-	2	6	Medium
			East		-				Restricted
			South	1	1	2	2	6	Medium
			West	-	-	-	2	2	Restricted
115	I-15 NB Ramps	Mercy Rd	North	1	1	2	2	6	Medium
			East	1	1	2	2	6	Medium
			South	1	1	2	2	6	Medium
			West	-	-	-	2	2	Restricted
116	Camino Santa Fe	Miratech Dr	North	1	1	2	2	6	Medium
			East	1	1	2	2	6	Medium
			South	-	-	-	2	2	Restricted
			West	1	1	2	2	6	Medium
117	Camino Santa Fe	Summers Ridge Rd	North	1	1	2	2	6	Medium
			East						
			South	-	-	-	2	2	Restricted
			West	1	1	2	2	6	Medium
118	Camino Santa Fe	Unnamed Road	North	1	1	2	2	6	Medium
			East	1	1	2	2	6	Medium
			South	1	1	2	2	6	Medium
			West	1	1	2	2	6	Medium
119	Camino Santa Fe	Trade St	North	1	1	2	2	6	Medium
			East	1	1	2	2	6	Medium
			South	1	1	2	2	6	Medium
			West	1	1	2	2	6	Medium
120	Montongo St	New Salem St	North	1	1	2	1	5	Medium
1	-		East	2	1	2	1	6	Medium
			South	1	1	2	1	5	Medium
		1	West	2	1	2	1	6	Medium

Intersection	Inters	ection	Internet in the	Dia 1	0		Traffic C is 1		69495
ID	NB/SB	EB/WB	Intersection Leg	Physical	Operational	ADA Curb Ramps	Traffic Control	SCORE	GRADE
122	Dabney Dr	Flanders Dr	North	1	1	2	1	5	Medium
			East	2	1	2	1	6	Medium
			South						
			West	2	1	2	1	6	Medium
123	Parkdale Ave	Flanders Dr	North	2	1	2	1	6	Medium
			East	2	1	2	1	6	Medium
			South	2	1	2	1	6	Medium
			West	2	1	2	1	6	Medium
124	Parkdale Ave	Gold Coast Dr	North	2	1	2	1	6	Medium
			East	2	1	2	1	6	Medium
			South	2	1	2	1	6	Medium
			West	2	1	2	1	6	Medium
125	Empress Ave	Gold Coast Dr	North	1	1	2	1	5	Medium
			East	2	1	2	0	5	Medium
			South	1	1	2	1	5	Medium
			West	2	1	2	0	5	Medium
126	Baroness Ave	Gold Coast Dr	North						
			East	2	1	2	0	5	Medium
			South	1	1	2	1	5	Medium
			West	2	1	2	0	5	Medium
127	San Ramon Dr	Gold Coast Dr	North	2	1	2	1	6	Medium
			East	2	1	2	1	6	Medium
			South	2	1	2	1	6	Medium
			West	2	1	2	1	6	Medium
128	Thanksgiving Ln	Gold Coast Dr	North	_			-	-	
			East	2	1	2	1	6	Medium
			South	1	1	2	1	5	Medium
			West	2	1	2	1	6	Medium
129	San Ramon Dr	Flanders Dr	North	2	1	2	1	6	Medium
-			East	2	1	2	1	6	Medium
			South	2	1	2	1	6	Medium
			West	2	1	2	1	6	Medium
130	Ivory Coast Drive	Reagan Road	North			_	-	-	
			East	1	1	2	0	4	Medium
			South	1	1	2	1	5	Medium
			West	1	1	2	0	4	Medium
131	Rickert Rd	Hillery Dr	North	1	1	2	1	5	Medium
101	noner e na	inicity bi	East	2	1	2	0	5	Medium
			South	-	-	_	-		
			West	2	1	2	0	5	Medium
132	Montongo St	Acama St	North	-	-	-	,		Wiedidini
152	Wontongo St	Acumu St	East	1	1	2	1	5	Medium
			South	1	1	2	1	5	Medium
			West	1	1	2	1	5	Medium
133	Camino Ruiz	Aquarius Dr	North	1	1	2	1	5	Medium
100	Cumino Ruiz		East	2	1	2	1	6	Medium
			South	1	0	2	1	4	Medium
			West	2	1	2	1	6	Medium
134	Westonhill Dr	Arcturus Wy	North	2	1	2	1	6	Medium
104	westorillin Di	Arcturus wy		1	1	2	1	5	Medium
			East South	2	1	2	1	6	Medium
			West	۷	1	2	I	0	weaturn

Appendix G – Analysis Output for Peak Hour Arterial Level of Service

Arterial Level of Service: EB Barnes Canyon Rd

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
Lusk Blvd	III	30	81.6	27.6	109.2	0.68	22.4	С
Pacific Heights Blvd	III	30	22.8	29.0	51.8	0.18	12.5	E
Total	III		104.4	56.6	161.0	0.86	19.2	С

Arterial Level of Service: WB Barnes Canyon Rd

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
Lusk Blvd		30	22.8	117.5	140.3	0.18	4.6	F
Total			22.8	117.5	140.3	0.18	4.6	F

Arterial Level of Service: NB Black Mountain Rd

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
	II	30	28.2	21.7	49.9	0.22	16.0	E
Kearny Villa Rd	II	30	17.1	41.0	58.1	0.13	7.9	F
Maya Linda Rd	II	40	20.8	19.4	40.2	0.18	16.2	E
Carroll Canyon Rd	II	40	14.5	69.4	83.9	0.13	5.4	F
Gold Coast Dr	II	40	20.0	12.8	32.8	0.17	19.1	D
Miramar College Drwy	II	40	29.0	16.3	45.3	0.28	22.6	С
Hillery Dr	II	40	25.9	18.2	44.1	0.24	19.2	D
Mira Mesa Blvd	II	40	29.9	72.2	102.1	0.29	10.3	F
Gemini Ave	II	35	18.8	6.1	24.9	0.15	21.7	D
Galvin Ave	II	35	10.5	6.8	17.3	0.08	17.5	D
Capricorn Wy	II	50	26.1	6.1	32.2	0.26	29.2	В
Westview Pkwy	II	50	45.0	22.2	67.2	0.62	33.5	В
Mercy Rd	II	50	28.7	54.8	83.5	0.30	13.0	E
Total			314.5	367.0	681.5	3.06	16.2	E

Arterial Level of Service: SB Black Mountain Rd

	Arterial	Flow	Running	Signal	Travel	Dist	Arterial	Arterial
Cross Street	Class	Speed	Time	Delay	Time (s)	(mi)	Speed	LOS
Mercy Rd	II	50	26.4	99.1	125.5	0.28	8.0	F
	II	50	28.7	14.0	42.7	0.30	25.5	С
Capricorn Wy	II	50	45.0	34.8	79.8	0.62	28.2	В
Achilles Wy	II	50	26.1	7.3	33.4	0.26	28.1	В
Gemini Ave	II	35	10.5	11.6	22.1	0.08	13.7	E
Mira Mesa Blvd	II	35	18.8	90.1	108.9	0.15	5.0	F
Hillery Dr	II	40	29.9	42.5	72.4	0.29	14.6	E
Miramar College Drwy	II	40	25.9	0.5	26.4	0.24	32.1	В
Gold Coast Dr	II	40	29.0	21.8	50.8	0.28	20.1	D
	II	40	20.0	61.5	81.5	0.17	7.7	F
	II	40	14.5	16.0	30.5	0.13	14.8	E
Black Mountain Rd	II	40	20.8	38.6	59.4	0.18	10.9	F
Activity Rd	II	30	17.1	44.9	62.0	0.13	7.4	F
Miramar Rd	II	30	28.2	63.5	91.7	0.22	8.7	F
Total			340.9	546.2	887.1	3.34	13.6	E

Arterial Level of Service: NB Camino Ruiz

	Arterial	Flow	Running	Signal	Travel	Dist	Arterial	Arterial
Cross Street	Class	Speed	Time	Delay	Time (s)	(mi)	Speed	LOS
Activity Rd	II	40	19.6	23.0	42.6	0.17	14.4	Е
Carroll Canyon Rd	II	40	36.6	63.5	100.1	0.37	13.3	E
Gold Coast Dr	II	40	53.4	10.4	63.8	0.59	33.5	В
Mira Mesa Blvd	II	40	47.9	64.1	112.0	0.53	17.1	D
Capricorn Wy	II	40	76.5	18.7	95.2	0.85	32.1	В
	II	40	13.1	6.4	19.5	0.11	21.0	D
Total	II		247.1	186.1	433.2	2.63	21.8	D

Arterial Level of Service: SB Camino Ruiz

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
Calle Cristobal		25	17.1	8.5	25.6	0.08	10.9	F
Teresa Dr	II	40	36.7	15.6	52.3	0.38	26.3	С
Mira Mesa Blvd	II	40	76.5	33.8	110.3	0.85	27.7	С
Gold Coast Dr	II	40	47.9	30.9	78.8	0.53	24.3	С
Carroll Canyon Rd	II	44	48.6	74.2	122.8	0.59	17.4	D
	II	50	33.6	18.7	52.3	0.37	25.4	С
Miramar Rd	II	50	17.0	57.3	74.3	0.17	8.2	F
Total	II		277.4	239.0	516.4	2.98	20.7	D

Arterial Level of Service: NB Camino Santa Fe

			- ·	0. 1	- ·	5. (
	Arterial	Flow	Running	Signal	Travel	Dist	Arterial	Arterial
Cross Street	Class	Speed	Time	Delay	Time (s)	(mi)	Speed	LOS
Miramar Rd		30	10.9	39.4	50.3	0.08	5.6	F
Carroll Rd	I	40	61.8	27.1	88.9	0.69	27.8	С
Trade St	I	40	25.5	33.9	59.4	0.23	14.0	E
	I	50	35.2	19.4	54.6	0.41	27.0	С
Miratech Dr	I	50	28.9	15.4	44.3	0.30	24.7	С
Flanders Dr	I	50	38.4	26.8	65.2	0.47	25.9	С
Mira Mesa Blvd	I	50	17.6	59.2	76.8	0.18	8.3	F
Top Gun St	I	45	23.8	10.1	33.9	0.23	24.3	С
Calle Cristobal	I	45	57.8	34.0	91.8	0.72	28.4	В
Total			299.9	265.3	565.2	3.31	21.1	D

Arterial Level of Service: SB Camino Santa Fe

	Arterial	Flow	Running	Signal	Travel	Dist	Arterial	Arterial
Cross Street	Class	Speed	Time	Delay	Time (s)	(mi)	Speed	LOS
Top Gun St	I	50	52.1	11.6	63.7	0.72	40.9	В
Mira Mesa Blvd	I	50	22.9	85.0	107.9	0.23	7.6	F
Flanders Dr	I	50	17.6	74.1	91.7	0.18	6.9	F
Miratech Dr	I	50	38.4	27.5	65.9	0.47	25.6	D
Summers Ridge Rd	I	50	28.9	26.4	55.3	0.30	19.8	E
	I	50	35.2	28.6	63.8	0.41	23.1	D
Carroll Rd	I	40	25.5	66.9	92.4	0.23	9.0	F
Miramar Rd	I	40	61.8	84.9	146.7	0.69	16.9	E
Total			282.4	405.0	687.4	3.23	16.9	E

Arterial Level of Service: EB Mira Mesa Blvd

	Arterial	Flow	Running	Signal	Travel	Dist	Arterial	Arterial
Cross Street	Class	Speed	Time	Delay	Time (s)	(mi)	Speed	LOS
I-805 NB Off-ramp		45	25.3	43.4	68.7	0.24	12.8	F
Scranton Rd		45	24.4	28.3	52.7	0.22	15.3	E
Oberline Dr	11	50	41.9	71.7	113.6	0.58	18.4	D
Pacific Heights Blvd	II	50	30.9	37.6	68.5	0.34	17.8	D
	II	50	33.0	3.8	36.8	0.38	37.5	А
	II	50	23.2	20.4	43.6	0.23	19.2	D
	II	50	23.6	54.5	78.1	0.24	10.9	F
	II	50	17.1	30.0	47.1	0.17	13.1	E
Camino Santa Fe	II	50	17.5	60.3	77.8	0.18	8.1	F E F
	II	50	27.4	1.2	28.6	0.27	34.5	В
	II	50	26.6	2.6	29.2	0.27	32.8	В
Parkdale Ave	II	50	33.9	20.3	54.2	0.39	26.2	С
Reagan Rd	II	45	37.3	6.8	44.1	0.40	32.4	В
	II	45	15.0	1.9	16.9	0.14	29.4	В
Camino Ruiz	II	45	18.4	55.6	74.0	0.17	8.2	F
Reagan Rd	II	40	31.7	11.2	42.9	0.31	26.0	С
Westonhill Dr	II	40	19.6	20.7	40.3	0.17	15.2	E
Greenford Dr	II	40	20.2	6.4	26.6	0.18	23.7	С
Marbury Ave	II	40	27.1	5.8	32.9	0.25	26.9	С
Black Mountain Rd	II	40	31.8	98.3	130.1	0.31	8.6	F
Westview Pkwy	II	35	29.6	135.5	165.1	0.25	5.4	F
	II	35	21.9	0.2	22.1	0.18	28.6	В
I-15 NB Off-ramp	II	35	22.2	40.0	62.2	0.18	10.3	F
Total			599.6	756.5	1356.1	6.04	16.0	E

Arterial Level of Service: WB Mira Mesa Blvd

	Arterial	Flow	Running	Signal	Travel	Dist	Arterial	Arterial
Cross Street	Class	Speed	Time	Delay	Time (s)	(mi)	Speed	LOS
	II	35	22.6	25.3	47.9	0.18	13.6	E
I-15 SB Off-ramp		35	22.2	40.5	62.7	0.18	10.2	F
Westview Pkwy	II	35	21.9	22.4	44.3	0.18	14.3	E
Black Mountain Rd	II	35	29.6	74.2	103.8	0.25	8.6	F
Westmore Rd	II	40	31.8	5.0	36.8	0.31	30.5	В
Greenford Dr	II	40	27.1	43.5	70.6	0.25	12.6	F
Westonhill Dr	II	40	20.2	167.6	187.8	0.18	3.4	F
New Salem St	II	40	19.6	351.8	371.4	0.17	1.7	F
Camino Ruiz	II	40	31.7	49.1	80.8	0.31	13.8	E
Driveway	I	45	18.4	4.1	22.5	0.17	27.1	С
Reagan Rd	II	45	15.0	6.2	21.2	0.14	23.4	С
Parkdale Ave	II	45	37.3	141.2	178.5	0.40	8.0	F
Aderman Ave	II	50	33.9	49.2	83.1	0.39	17.1	D
Schilling Ave	II	50	26.6	37.5	64.1	0.27	14.9	E
Camino Santa Fe	II	50	27.4	100.9	128.3	0.27	7.7	F
Viper Wy	II	50	17.5	15.1	32.6	0.18	19.3	D
Flanders Dr	II	50	17.1	102.4	119.5	0.17	5.2	F
Genetic Center Dr	II	50	23.6	120.5	144.1	0.24	5.9	F
Sequence Dr	II	50	23.2	209.2	232.4	0.23	3.6	F
Pacific Heights Blvd	II	50	33.0	8.9	41.9	0.38	33.0	В
Lusk Blvd	II	50	30.9	38.1	69.0	0.34	17.7	D
Scranton Rd	II	50	41.9	41.4	83.3	0.58	25.2	С
	II	40	25.7	35.1	60.8	0.22	13.2	<u>Е</u> Е
Total			598.2	1689.2	2287.4	5.98	9.4	F

Arterial Level of Service: EB Miramar Rd

	Arterial	Flow	Running	Signal	Travel	Dist	Arterial	Arterial
Cross Street	Class	Speed	Time	Delay	Time (s)	(mi)	Speed	LOS
Camino Santa Fe		50	32.2	6.2	38.4	0.35	33.2	С
	I	50	25.0	24.2	49.2	0.25	18.3	E
Production Ave	I	50	21.2	1.2	22.4	0.21	34.1	В
Distribution Ave	I	50	14.1	0.4	14.5	0.14	35.1	В
Miramar Wy	I	50	16.6	3.5	20.1	0.17	29.7	С
	I	50	25.6	10.2	35.8	0.26	25.7	D
Empire St	I	50	38.6	1.9	40.5	0.49	43.9	A
	I	50	26.0	4.1	30.1	0.26	31.1	С
	I	50	18.4	3.1	21.5	0.18	30.9	С
Camino Ruiz	I	50	43.9	3.1	47.0	0.61	46.7	А
Mitscher Wy	I	40	18.0	47.6	65.6	0.16	8.6	F
Black Mountain Rd	I	40	42.0	2.0	44.0	0.44	36.1	В
Kearny Villa Rd	I	40	23.5	40.1	63.6	0.20	11.6	F
		40	18.0	1.7	19.7	0.16	28.6	С
Total			363.1	149.3	512.4	3.89	27.3	С

Arterial Level of Service: WB Miramar Rd

	Arterial	Flow	Running	Signal	Travel	Dist	Arterial	Arterial
Cross Street	Class	Speed	Time	Delay	Time (s)	(mi)	Speed	LOS
Kearny Villa Rd		45	16.3	80.5	96.8	0.16	5.8	F
Black Mountain Rd	I	45	21.3	7.6	28.9	0.20	25.5	D
Clayton Dr	1	45	40.2	135.6	175.8	0.44	9.0	F
Camino Ruiz	I	45	16.2	17.2	33.4	0.16	16.8	E
Cabot Dr	1	50	43.9	8.1	52.0	0.61	42.2	A
Dowdy Dr	I	50	18.4	1.2	19.6	0.18	33.9	С
Empire St	1	50	26.0	0.7	26.7	0.26	35.1	В
Carroll Rd	I	50	38.6	0.8	39.4	0.49	45.2	А
	1	50	25.6	3.6	29.2	0.26	31.5	С
Distribution Ave	I	50	16.6	0.7	17.3	0.17	34.5	В
Production Ave	l I	50	14.1	2.6	16.7	0.14	30.5	С
Commerce Ave	I	50	21.2	4.6	25.8	0.21	29.6	С
Camino Santa Fe	1	50	25.0	66.2	91.2	0.25	9.9	F
Total	I		323.4	329.4	652.8	3.53	19.5	E

Arterial Level of Service: NB Scranton Rd

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
Mira Mesa Blvd		30	26.0	83.3	109.3	0.21	6.8	F
Mira Sorrento Pl	III	30	22.2	57.0	79.2	0.17	7.5	F
Total	III		48.2	140.3	188.5	0.37	7.1	F

Arterial Level of Service: SB Scranton Rd

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
Mira Sorrento Pl	III	33	73.8	72.7	146.5	0.68	16.7	D
Mira Mesa Blvd		30	22.2	126.0	148.2	0.17	4.0	F
Carroll Canyon Rd	III	30	26.0	20.1	46.1	0.21	16.0	D
Total	III		122.0	218.8	340.8	1.05	11.1	E

Arterial Level of Service: SB Westview Pkwy

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
Capricorn Wy		45	63.1	12.2	75.3	0.79	37.7	А
	II	40	18.8	31.3	50.1	0.16	11.7	F
Galvin Ave	II	40	16.7	22.0	38.7	0.15	13.5	E
Mira Mesa Blvd	I	40	23.9	125.7	149.6	0.21	5.0	F
Total	II		122.5	191.2	313.7	1.30	15.0	E

Arterial Level of Service: WB Westview Pkwy

Cross Street Mira Mesa Blvd	Arterial Class II	Flow Speed 40 40	Running Time 26.8 23.9	Signal Delay 68.6 6.4	Travel Time (s) 95.4 30.3	Dist (mi) 0.24 0.21	Arterial Speed 9.2 24.7	Arterial LOS F
Mira Lee Way Dauntless St		40 40 40	16.7 18.8	21.2 9.7	30.3 37.9 28.5	0.21 0.15 0.16	13.8 20.6	E
Black Mountain Rd	II	45	63.1	29.4	92.5	0.79	30.7	В
Total	II		149.3	135.3	284.6	1.55	19.6	D

Arterial Level of Service: EB Barnes Canyon Rd

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
Lusk Blvd	III	30	81.6	83.5	165.1	0.68	14.8	D
Pacific Heights Blvd	III	30	22.8	48.0	70.8	0.18	9.1	F
Total	III		104.4	131.5	235.9	0.86	13.1	E

Arterial Level of Service: WB Barnes Canyon Rd

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
Lusk Blvd		30	22.8	56.0	78.8	0.18	8.2	F
Total			22.8	56.0	78.8	0.18	8.2	F

Arterial Level of Service: NB Black Mountain Rd

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
	11	30	28.2	63.7	91.9	0.22	8.7	F
Kearny Villa Rd		30	17.1	53.4	70.5	0.13	6.5	F
Maya Linda Rd	11	40	20.8	42.7	63.5	0.18	10.2	F
Carroll Canyon Rd		40	14.5	125.2	139.7	0.13	3.2	F
Gold Coast Dr	11	40	20.0	23.6	43.6	0.17	14.4	E
Miramar College Drwy		40	29.0	7.3	36.3	0.28	28.2	В
Hillery Dr	II	40	25.9	40.5	66.4	0.24	12.7	F
Mira Mesa Blvd		40	29.9	54.1	84.0	0.29	12.6	F
Gemini Ave	11	35	18.8	34.0	52.8	0.15	10.3	F
Galvin Ave		35	10.5	4.0	14.5	0.08	20.9	D
Capricorn Wy	II	50	26.1	43.9	70.0	0.26	13.4	E
Westview Pkwy	11	50	45.0	18.8	63.8	0.62	35.3	А
Mercy Rd	II	50	28.7	74.5	103.2	0.30	10.5	F
Total			314.5	585.7	900.2	3.06	12.3	F

Arterial Level of Service: SB Black Mountain Rd

	Arterial	Flow	Running	Signal	Travel	Dist	Arterial	Arterial
Cross Street	Class	Speed	Time	Delay	Time (s)	(mi)	Speed	LOS
Mercy Rd	II	50	26.4	31.9	58.3	0.28	17.2	D
	II	50	28.7	1.9	30.6	0.30	35.6	А
Capricorn Wy	II	50	45.0	51.2	96.2	0.62	23.4	С
Achilles Wy	II	50	26.1	3.0	29.1	0.26	32.3	В
Gemini Ave	II	35	10.5	32.9	43.4	0.08	7.0	F
Mira Mesa Blvd	II	35	18.8	68.5	87.3	0.15	6.2	F
Hillery Dr	II	40	29.9	98.9	128.8	0.29	8.2	F
Miramar College Drwy	II	40	25.9	0.1	26.0	0.24	32.5	В
Gold Coast Dr	II	40	29.0	46.6	75.6	0.28	13.5	E
	II	40	20.0	40.2	60.2	0.17	10.4	F
	II	40	14.5	249.6	264.1	0.13	1.7	F
Black Mountain Rd	II	40	20.8	2.1	22.9	0.18	28.4	В
Activity Rd	II	30	17.1	78.2	95.3	0.13	4.8	F
Miramar Rd	II	30	28.2	63.1	91.3	0.22	8.8	F
Total	11		340.9	768.2	1109.1	3.34	10.9	F

Arterial Level of Service: NB Camino Ruiz

	Arterial	Flow	Running	Signal	Travel	Dist	Arterial	Arterial
Cross Street	Class	Speed	Time	Delay	Time (s)	(mi)	Speed	LOS
Activity Rd	II	40	19.6	106.9	126.5	0.17	4.8	F
Carroll Canyon Rd	II	40	36.6	61.6	98.2	0.37	13.5	E
Gold Coast Dr	II	40	53.4	28.7	82.1	0.59	26.1	С
Mira Mesa Blvd	II	40	47.9	47.0	94.9	0.53	20.2	D
Capricorn Wy	II	40	76.5	24.0	100.5	0.85	30.4	В
	II	40	13.1	29.4	42.5	0.11	9.6	F
Total	II		247.1	297.6	544.7	2.63	17.4	D

Arterial Level of Service: SB Camino Ruiz

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
Calle Cristobal		25	17.1	16.2	33.3	0.08	8.4	F
Teresa Dr	II	40	36.7	14.3	51.0	0.38	27.0	С
Mira Mesa Blvd	II	40	76.5	34.4	110.9	0.85	27.6	С
Gold Coast Dr	II	40	47.9	13.8	61.7	0.53	31.0	В
Carroll Canyon Rd	II	44	48.6	55.3	103.9	0.59	20.6	D
	II	50	33.6	22.9	56.5	0.37	23.5	С
Miramar Rd	II	50	17.0	80.9	97.9	0.17	6.3	F
Total	II		277.4	237.8	515.2	2.98	20.8	D

Arterial Level of Service: NB Camino Santa Fe

	Arterial	Flow	Running	Signal	Travel	Dist	Arterial	Arterial
Cross Street	Class	Speed	Time	Delay	Time (s)	(mi)	Speed	LOS
Miramar Rd		30	10.9	69.8	80.7	0.08	3.5	F
Carroll Rd		40	61.8	26.1	87.9	0.69	28.1	В
Trade St		40	25.5	203.5	229.0	0.23	3.6	F
		50	35.2	26.9	62.1	0.41	23.7	С
Miratech Dr		50	28.9	34.8	63.7	0.30	17.2	D
Flanders Dr	I	50	38.4	58.1	96.5	0.47	17.5	D
Mira Mesa Blvd	II	50	17.6	38.5	56.1	0.18	11.3	F
Top Gun St	I	45	23.8	136.6	160.4	0.23	5.1	F
Calle Cristobal	I	45	57.8	90.7	148.5	0.72	17.5	D
Total			299.9	685.0	984.9	3.31	12.1	F

Arterial Level of Service: SB Camino Santa Fe

	Arterial	Flow	Running	Signal	Travel	Dist	Arterial	Arterial
Cross Street	Class	Speed	Time	Delay	Time (s)	(mi)	Speed	LOS
Top Gun St	I	50	52.1	69.7	121.8	0.72	21.4	D
Mira Mesa Blvd	I	50	22.9	33.3	56.2	0.23	14.7	F
Flanders Dr	1	50	17.6	97.4	115.0	0.18	5.5	F
Miratech Dr	I	50	38.4	19.5	57.9	0.47	29.1	С
Summers Ridge Rd	I	50	28.9	14.9	43.8	0.30	25.0	D
	I	50	35.2	46.6	81.8	0.41	18.0	E
Carroll Rd	I	40	25.5	24.8	50.3	0.23	16.6	E
Miramar Rd	l	40	61.8	101.1	162.9	0.69	15.2	F
Total			282.4	407.3	689.7	3.23	16.9	E

Arterial Level of Service: EB Mira Mesa Blvd

Cross Street	Arterial Class	Flow	Running	Signal	Travel	Dist	Arterial	Arterial
		Speed	Time	Delay	Time (s)	(mi)	Speed	LOS
I-805 NB Off-ramp		45	25.3	13.5	38.8	0.24	22.6	C
Scranton Rd		45	24.4	54.7	79.1	0.22	10.2	F
Oberline Dr	II	50	41.9	78.3	120.2	0.58	17.4	D
Pacific Heights Blvd		50	30.9	246.0	276.9	0.34	4.4	F
	II	50	33.0	109.0	142.0	0.38	9.7	F
	II	50	23.2	105.5	128.7	0.23	6.5	
	I	50	23.6	19.6	43.2	0.24	19.7	D
		50	17.1	199.9	217.0	0.17	2.8	F
Camino Santa Fe		50	17.5	149.3	166.8	0.18	3.8	F
		50	27.4	14.7	42.1	0.27	23.4	С
		50	26.6	17.3	43.9	0.27	21.8	D
Parkdale Ave		50	33.9	74.0	107.9	0.39	13.1	
Reagan Rd		45	37.3	4.3	41.6	0.40	34.4	E B E F
		45	15.0	19.2	34.2	0.14	14.5	E
Camino Ruiz	II	45	18.4	49.1	67.5	0.17	9.0	F
Reagan Rd		40	31.7	12.3	44.0	0.31	25.4	С
Westonhill Dr		40	19.6	80.0	99.6	0.17	6.2	F
Greenford Dr		40	20.2	10.1	30.3	0.18	20.8	D
Marbury Ave		40	27.1	0.6	27.7	0.25	32.0	B
Black Mountain Rd		40	31.8	152.4	184.2	0.31	6.1	F
Westview Pkwy		35	29.6	135.5	165.1	0.25	5.4	F
,		35	21.9	3.3	25.2	0.18	25.1	С
I-15 NB Off-ramp	II	35	22.2	70.0	92.2	0.18	6.9	F
Total	II		599.6	1618.6	2218.2	6.04	9.8	F

Arterial Level of Service: WB Mira Mesa Blvd

	Arterial	Flow	Running	Signal	Travel	Dist	Arterial	Arterial
Cross Street	Class	Speed	Time	Delay	Time (s)	(mi)	Speed	LOS
		35	22.6	39.0	61.6	0.18	10.6	F
I-15 SB Off-ramp	II	35	22.2	34.6	56.8	0.18	11.3	F
Westview Pkwy	II	35	21.9	31.9	53.8	0.18	11.7	F
Black Mountain Rd	II	35	29.6	22.2	51.8	0.25	17.3	D
Westmore Rd	II	40	31.8	4.3	36.1	0.31	31.1	В
Greenford Dr	II	40	27.1	26.6	53.7	0.25	16.5	E
Westonhill Dr	II	40	20.2	12.9	33.1	0.18	19.1	D
New Salem St	ll	40	19.6	34.1	53.7	0.17	11.4	
Camino Ruiz	II	40	31.7	12.3	44.0	0.31	25.4	С
Driveway	II	45	18.4	42.9	61.3	0.17	9.9	F
Reagan Rd	II	45	15.0	23.6	38.6	0.14	12.9	F
Parkdale Ave	II	45	37.3	3.1	40.4	0.40	35.4	А
Aderman Ave	II	50	33.9	8.2	42.1	0.39	33.7	В
Schilling Ave	II	50	26.6	14.0	40.6	0.27	23.6	С
Camino Santa Fe	II	50	27.4	8.1	35.5	0.27	27.8	С
Viper Wy	II	50	17.5	34.7	52.2	0.18	12.1	F
Flanders Dr	II	50	17.1	14.7	31.8	0.17	19.4	D
Genetic Center Dr	II	50	23.6	41.4	65.0	0.24	13.1	E E E
Sequence Dr	II	50	23.2	40.3	63.5	0.23	13.2	E
Pacific Heights Blvd	II	50	33.0	63.4	96.4	0.38	14.3	E
Lusk Blvd	II	50	30.9	55.5	86.4	0.34	14.1	E
Scranton Rd	II	50	41.9	35.8	77.7	0.58	27.0	С
		40	25.7	19.8	45.5	0.22	17.7	D
Total	II		598.2	623.4	1221.6	5.98	17.6	D

Arterial Level of Service: EB Miramar Rd

	Arterial	Flow	Running	Signal	Travel	Dist	Arterial	Arterial
Cross Street	Class	Speed	Time	Delay	Time (s)	(mi)	Speed	LOS
Camino Santa Fe	I	50	32.2	10.3	42.5	0.35	30.0	С
	I	50	25.0	8.8	33.8	0.25	26.6	D
Production Ave	I	50	21.2	1.1	22.3	0.21	34.3	В
Distribution Ave	I	50	14.1	2.5	16.6	0.14	30.7	С
Miramar Wy	I	50	16.6	38.9	55.5	0.17	10.7	F
	I	50	25.6	6.0	31.6	0.26	29.1	С
Empire St	I	50	38.6	1.3	39.9	0.49	44.6	A
	I	50	26.0	6.0	32.0	0.26	29.3	С
	I	50	18.4	9.4	27.8	0.18	23.9	D
Camino Ruiz	I	50	43.9	8.7	52.6	0.61	41.7	В
Mitscher Wy	I	40	18.0	140.6	158.6	0.16	3.5	F
Black Mountain Rd	I	40	42.0	11.7	53.7	0.44	29.6	С
Kearny Villa Rd	I	40	23.5	143.9	167.4	0.20	4.4	F
	l	40	18.0	1.0	19.0	0.16	29.7	С
Total	1		363.1	390.2	753.3	3.89	18.6	E

Arterial Level of Service: WB Miramar Rd

	Arterial	Flow	Running	Signal	Travel	Dist	Arterial	Arterial
Cross Street	Class	Speed	Time	Delay	Time (s)	(mi)	Speed	LOS
Kearny Villa Rd	I	45	16.3	49.9	66.2	0.16	8.5	F
Black Mountain Rd	I	45	21.3	40.7	62.0	0.20	11.9	F
Clayton Dr	I	45	40.2	55.0	95.2	0.44	16.7	E
Camino Ruiz	I	45	16.2	6.6	22.8	0.16	24.7	D
Cabot Dr	I	50	43.9	6.3	50.2	0.61	43.7	A
Dowdy Dr	I	50	18.4	1.1	19.5	0.18	34.1	В
Empire St	I	50	26.0	0.3	26.3	0.26	35.6	В
Carroll Rd	I	50	38.6	5.6	44.2	0.49	40.3	В
	I	50	25.6	2.7	28.3	0.26	32.5	С
Distribution Ave	I	50	16.6	1.0	17.6	0.17	33.9	С
Production Ave	I	50	14.1	5.0	19.1	0.14	26.7	D
Commerce Ave	I	50	21.2	2.3	23.5	0.21	32.5	С
Camino Santa Fe	I	50	25.0	49.4	74.4	0.25	12.1	F
Total			323.4	225.9	549.3	3.53	23.2	D

Arterial Level of Service: NB Scranton Rd

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
Mira Mesa Blvd	III	32	26.0	55.4	81.4	0.21	9.1	F
Mira Sorrento Pl	III	30	22.2	1.9	24.1	0.17	24.8	В
Total	III		48.2	57.3	105.5	0.37	12.7	E

Arterial Level of Service: SB Scranton Rd

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
Mira Sorrento Pl	III	33	73.8	258.2	332.0	0.68	7.4	F
Mira Mesa Blvd	III	32	22.2	79.3	101.5	0.17	5.9	F
Carroll Canyon Rd	III	30	26.0	48.7	74.7	0.21	9.9	F
Total	III		122.0	386.2	508.2	1.05	7.4	F

Arterial Level of Service: SB Westview Pkwy

	Arterial	Flow	Running	Signal	Travel	Dist	Arterial	Arterial
Cross Street	Class	Speed	Time	Delay	Time (s)	(mi)	Speed	LOS
Capricorn Wy	II	45	63.1	6.7	69.8	0.79	40.7	A
		40	18.8	20.2	39.0	0.16	15.1	E
Galvin Ave	II	40	16.7	9.3	26.0	0.15	20.1	D
Mira Mesa Blvd	II	40	23.9	86.3	110.2	0.21	6.8	F
Total	II		122.5	122.5	245.0	1.30	19.2	D

Arterial Level of Service: WB Westview Pkwy

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
Mira Mesa Blvd	II	40	26.8	240.4	267.2	0.24	3.3	F
	II	40	23.9	3.6	27.5	0.21	27.2	С
Mira Lee Way	II	40	16.7	15.7	32.4	0.15	16.1	E
Dauntless St	II	40	18.8	5.1	23.9	0.16	24.6	С
Black Mountain Rd	II	45	63.1	63.4	126.5	0.79	22.4	С
Total	II		149.3	328.2	477.5	1.55	11.7	F

Appendix H – Analysis Output for Peak Hour Intersection Level of Service

	۶	-	*	•	+	*	1	Ť	1	1	Ŧ	~
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	≜ †⊅		٦	≜ ⊅		٦	4î þ		ሻ	- € †	1
Traffic Volume (veh/h)	120	450	730	300	1490	390	200	100	150	370	830	310
Future Volume (veh/h)	120	450	730	300	1490	390	200	100	150	370	830	310
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.98	1.00		0.98	1.00		0.98	1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1841	1841	1841	1841	1841	1841	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	148	556	901	341	1693	443	169	191	169	420	943	352
Peak Hour Factor	0.81	0.81	0.81	0.88	0.88	0.88	0.89	0.89	0.89	0.88	0.88	0.88
Percent Heavy Veh, %	4	4	4	4	4	4	2	2	2	2	2	2
Cap, veh/h	117	702	612	259	1331	331	217	229	189	359	754	416
Arrive On Green	0.07	0.40	0.40	0.15	0.48	0.48	0.12	0.12	0.12	0.20	0.20	0.20
Sat Flow, veh/h	1753	1749	1523	1753	2760	687	1781	1877	1552	1781	3741	1538
Grp Volume(v), veh/h	148	556	901	341	1041	1095	169	190	170	420	943	352
Grp Sat Flow(s),veh/h/ln	1753	1749	1523	1753	1749	1698	1781	1870	1559	1781	1870	1538
Q Serve(g_s), s	11.6	48.4	69.7	25.6	83.7	83.7	16.0	17.3	18.6	35.0	35.0	35.0
Cycle Q Clear(g_c), s	11.6	48.4	69.7	25.6	83.7	83.7	16.0	17.3	18.6	35.0	35.0	35.0
Prop In Lane	1.00		1.00	1.00		0.40	1.00		1.00	1.00	/	1.00
Lane Grp Cap(c), veh/h	117	702	612	259	843	819	217	228	190	359	754	416
V/C Ratio(X)	1.26	0.79	1.47	1.32	1.23	1.34	0.78	0.83	0.89	1.17	1.25	0.85
Avail Cap(c_a), veh/h	117	702	612	259	843	819	236	248	207	359	754	416
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	81.0	45.6	51.9	74.0	44.9	44.9	73.9	74.5	75.1	69.3	69.3	60.2
Incr Delay (d2), s/veh	169.9	5.7	221.8	168.1	115.6	160.5	12.3	18.1	31.8	102.1	123.5	14.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/In	10.7	21.7	63.5	23.5	61.9	70.3	7.9	9.3	9.0	25.7	29.2	16.0
Unsig. Movement Delay, s/veh		51.3	273.8	242.1	160.6	205.4	86.2	92.6	106.9	171.4	192.8	74.4
LnGrp Delay(d),s/veh	250.9	51.5 D		242.1 F		205.4 F	00.2 F	92.0 F			192.0 F	
LnGrp LOS	F		F	Г	F	F	Г		F	F		<u> </u>
Approach Vol, veh/h		1605			2477			529			1715	
Approach Delay, s/veh		194.6			191.6			95.1			163.3	
Approach LOS		F			F			F			F	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	30.0	75.4		41.0	16.0	89.4		27.2				
Change Period (Y+Rc), s	4.4	* 5.7		6.0	4.4	5.7		6.0				
Max Green Setting (Gmax), s	25.6	* 70		35.0	11.6	83.3		23.0				
Max Q Clear Time (g_c+l1), s	27.6	71.7		37.0	13.6	85.7		20.6				
Green Ext Time (p_c), s	0.0	0.0		0.0	0.0	0.0		0.2				
Intersection Summary												
HCM 6th Ctrl Delay												
HCM 6th LOS			F									
HCM 6th Ctrl Delay			176.6 F									

Notes

User approved volume balancing among the lanes for turning movement. * HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

≏ ۴ Movement EBU WBT NBL EBT EBR WBL NBR Lane Configurations 14 **†**† 7 ኘኘ ኘዎ ۲ Ð Traffic Volume (veh/h) 0 660 810 1080 50 50 820 Future Volume (veh/h) 0 50 660 810 1080 820 50 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 1841 1841 1841 1841 1870 1870 Adj Flow Rate, veh/h 53 695 853 1137 882 54 0.93 Peak Hour Factor 0.95 0.95 0.95 0.95 0.93 Percent Heavy Veh, % 4 4 4 4 2 2 925 411 924 2057 992 872 Cap, veh/h Arrive On Green 0.26 0.26 0.27 0.59 0.28 0.28 Sat Flow, veh/h 3589 1554 3401 3589 3563 1585 Grp Volume(v), veh/h 53 695 853 1137 882 54 Grp Sat Flow(s),veh/h/ln 1554 1700 1749 1781 1585 1749 Q Serve(g s), s 0.9 20.4 18.8 15.3 18.3 1.2 Cycle Q Clear(g_c), s 18.8 1.2 0.9 20.4 15.3 18.3 Prop In Lane 1.00 1.00 1.00 1.00 Lane Grp Cap(c), veh/h 925 411 924 2057 992 872 V/C Ratio(X) 0.06 1.69 0.92 0.55 0.89 0.06 Avail Cap(c_a), veh/h 925 411 939 2057 1109 924 HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 Upstream Filter(I) 1.00 1.00 1.00 1.00 1.00 1.00 Uniform Delay (d), s/veh 21.2 28.4 27.3 9.7 26.7 8.1 Incr Delay (d2), s/veh 0.0 321.1 13.9 0.5 8.2 0.0 Initial Q Delay(d3),s/veh 0.0 0.0 0.0 0.0 0.0 0.0 %ile BackOfQ(50%),veh/In 43.5 0.3 8.6 4.6 8.1 0.3 Unsig. Movement Delay, s/veh 41.2 8.1 LnGrp Delay(d),s/veh 21.2 349.5 10.2 34.9 LnGrp LOS С F D В С А 748 1990 Approach Vol, veh/h 936 Approach Delay, s/veh 326.2 23.5 33.4 Approach LOS F С С Timer - Assigned Phs 2 6 8 Phs Duration (G+Y+Rc), 284.9 26.7 51.6 25.5 Change Period (Y+Rc), s 4.0 6.3 * 6.3 4.0 Max Green Setting (Gma2),.3 20.4 * 37 24.0 Max Q Clear Time (g_c+20,8s 22.4 17.3 20.3 Green Ext Time (p_c), s 0.1 0.0 11.6 1.2 Intersection Summary HCM 6th Ctrl Delay 87.6 HCM 6th LOS F

Notes

User approved volume balancing among the lanes for turning movement.

User approved ignoring U-Turning movement.

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Movement EBL EBT EBR WBL WBT WBR NBL NBT NBR SBL SBT SBR Lane Configurations Image: Configuration of the state of t	
Traffic Volume (veh/h) 50 0 160 10 0 820 10 10 0 10 60 Future Volume (veh/h) 50 0 160 10 0 820 10 10 0 10 60 Initial Q (Qb), veh 0	
Traffic Volume (veh/h) 50 0 160 10 0 820 10 10 0 10 60 Future Volume (veh/h) 50 0 160 10 0 0 820 10 10 0 10 60 Initial Q (Qb), veh 0	
Initial Q (Qb), veh 0	
Ped-Bike Adj(A_pbT) 0.98 0.98 0.99 1.00 1.00 0.98 1.00 0.96	
Parking Bus, Adj 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	
Work Zone On Approach No No No No	
Adj Sat Flow, veh/h/ln 1826 1826 1826 1870 1870 1870 1811 1811 1811 1870 1870	
Adj Flow Rate, veh/h 53 0 168 13 0 0 837 10 10 0 11 65	
Peak Hour Factor 0.95 0.95 0.95 0.75 0.75 0.75 0.98 0.98 0.98 0.92 0.92 0.92	
Percent Heavy Veh, % 5 5 5 2 2 2 6 6 6 2 2 2	
Cap, veh/h 376 0 1179 312 0 0 1101 1081 900 5 238 203	
Arrive On Green 0.11 0.00 0.11 0.11 0.00 0.00 0.33 0.60 0.60 0.00 0.13 0.13	
Sat Flow, veh/h 1490 0 2679 881 0 0 3346 1811 1509 1781 1777 1514	
Grp Volume(v), veh/h 53 0 168 13 0 0 837 10 10 0 11 65	
Grp Sat Flow(s), veh/h/ln1490 0 1339 881 0 0 1673 1811 1509 1781 1777 1514	
Q Serve(g_s), s 0.0 0.0 1.2 0.3 0.0 0.0 7.4 0.1 0.1 0.0 0.2 1.3	
Cycle Q Clear(g_c), s 0.9 0.0 1.2 1.3 0.0 0.0 7.4 0.1 0.1 0.0 0.2 1.3	
Prop In Lane 1.00 1.00 1.00 0.00 1.00 1.00 1.00 1.0	
Lane Grp Cap(c), veh/h 376 0 1179 312 0 0 1101 1081 900 5 238 203	
V/C Ratio(X) 0.14 0.00 0.14 0.04 0.00 0.00 0.76 0.01 0.01 0.00 0.05 0.32	
Avail Cap(c_a), veh/h 398 0 1222 1176 0 0 2095 2527 2105 217 1582 1348	
HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	
Upstream Filter(I) 1.00 0.00 1.00 1.00 0.00 0.00 1.00 1.0	
Uniform Delay (d), s/veh 13.6 0.0 5.6 14.2 0.0 0.0 9.9 2.7 2.7 0.0 12.4 12.9	
Incr Delay (d2), s/veh 0.2 0.0 0.1 0.0 0.0 0.0 0.0 0.4 0.0 0.0 0.0 0.0 0.3	
Initial Q Delay(d2), s/veh 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	
%ile BackOfQ(50%),veh/lr0.3 0.0 0.2 0.1 0.0 0.0 1.6 0.0 0.0 0.0 0.0 0.0 0.1 0.4	
Unsig. Movement Delay, s/veh	
LnGrp Delay(d),s/veh 13.8 0.0 5.7 14.2 0.0 0.0 10.3 2.7 2.7 0.0 12.4 13.2	
Approach Delay, s/veh 7.6 14.2 10.1 13.1	
Approach LOS A B B B	
Timer - Assigned Phs 1 2 4 5 6 8	
Phs Duration (G+Y+Rc), s0.0 24.5 8.4 15.2 9.3 8.4	
Change Period (Y+Rc), s 4.4 4.9 4.9 4.4 4.9 4.9	
Max Green Setting (Gmax), 6 45.9 4.0 20.6 29.3 27.0	
Max Q Clear Time (g_c+I10,0s 2.1 3.2 9.4 3.3 3.3	
Green Ext Time (p_c), s 0.0 0.1 0.1 1.5 0.3 0.0	
Intersection Summary	
HCM 6th Ctrl Delay 9.9	
HCM 6th LOS A	

	٠	-	7	*	+	*	1	t	1	1	ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	A	† †	1	à	^	1		4			र्स	1	
Traffic Volume (veh/h)	10	1240	0	50	700	90	0	0	20	100	0	10	
Future Volume (veh/h)	10	1240	0	50	700	90	0	0	20	100	0	10	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	•	1.00	1.00		1.00	1.00	•	1.00	1.00	•	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No			No			No			No		
Adj Sat Flow, veh/h/ln	1575	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	11	1348	0	62	875	112	0	0	53	111	0	11	
Peak Hour Factor	0.92	0.92	0.92	0.80	0.80	0.80	0.38	0.38	0.38	0.90	0.90	0.90	
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2	
Cap, veh/h	17	1944	867	81	2066	922	0	0	226	293	0	226	
Arrive On Green	0.01	0.55	0.00	0.05	0.58	0.58	0.00	0.00	0.14	0.14	0.00	0.14	
Sat Flow, veh/h	1500	3554	1585	1781	3554	1585	0	0	1585	1070	0	1585	
Grp Volume(v), veh/h	11	1348	0	62	875	112	0	0	53	111	0	11	
Grp Sat Flow(s), veh/h/li		1777	1585	1781	1777	1585	0	0	1585	1070	0	1585	
Q Serve(g_s), s	0.4	14.2	0.0	1.8	7.0	1.6	0.0	0.0	1.5	4.1	0.0	0.3	
Cycle Q Clear(g_c), s	0.4	14.2	0.0	1.8	7.0	1.6	0.0	0.0	1.5	5.6	0.0	0.3	
Prop In Lane	1.00		1.00	1.00	1.0	1.00	0.00	0.0	1.00	1.00	0.0	1.00	
Lane Grp Cap(c), veh/h		1944	867	81	2066	922	0.00	0	226	293	0	226	
V/C Ratio(X)	0.65	0.69	0.00	0.76	0.42	0.12	0.00	0.00	0.23	0.38	0.00	0.05	
Avail Cap(c_a), veh/h	117	2208	985	191	2346	1047	0.00	0.00	895	863	0.00	895	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00	0.00	1.00	
Uniform Delay (d), s/vel		8.5	0.0	24.2	6.0	4.8	0.0	0.0	19.5	22.0	0.0	19.0	
Incr Delay (d2), s/veh	14.4	1.2	0.0	5.4	0.1	0.1	0.0	0.0	0.2	0.3	0.0	0.0	
Initial Q Delay(d3),s/vel		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh		3.5	0.0	0.8	1.3	0.3	0.0	0.0	0.5	1.2	0.0	0.1	
Unsig. Movement Delay													
LnGrp Delay(d),s/veh	39.7	9.7	0.0	29.6	6.1	4.9	0.0	0.0	19.7	22.3	0.0	19.0	
LnGrp LOS	D	A	A	С	A	A	A	A	В	С	A	В	
Approach Vol, veh/h		1359		-	1049			53			122		
Approach Delay, s/veh		9.9			7.4			19.7			22.0		
Approach LOS		A			Α			В			C		
Timer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Rc)), s6.3	33.7		11.3	4.6	35.5		11.3					
Change Period (Y+Rc),		5.6		4.0	4.0	* 5.6		4.0					
Max Green Setting (Gm		31.9		29.0	4.0	* 34		29.0					
Max Q Clear Time (g_c		16.2		7.6	2.4	9.0		3.5					
Green Ext Time (p_c), s		11.9		0.4	0.0	5.7		0.2					
Intersection Summary													
HCM 6th Ctrl Delay			9.7										
HCM 6th LOS			А										
Notes													

User approved ignoring U-Turning movement. * HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

	٠	+	1	1	Ļ	•	1	t	1	4	ţ	4	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		*††	1	አ ካ	^					1	4	1	
Traffic Volume (veh/h)	0	640	600	780	690	0	0	0	0	530	10	360	
Future Volume (veh/h)	0	640	600	780	690	0	0	0	0	530	10	360	
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0	
Ped-Bike Adj(A_pbT)	1.00		0.98	1.00		1.00				1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00	
Work Zone On Approac		No			No						No		
Adj Sat Flow, veh/h/ln	0	1870	1870	1870	1870	0				1870	1870	1870	
Adj Flow Rate, veh/h	0	711	667	821	726	0				710	0	268	
Peak Hour Factor	0.90	0.90	0.90	0.95	0.95	0.95				0.91	0.91	0.91	
Percent Heavy Veh, %	0	2	2	2	2	0				2	2	2	
Cap, veh/h	0	1243	1031	886	2280	0				791	0	352	
Arrive On Green	0.00	0.33	0.33	0.26	0.64	0.00				0.22	0.00	0.22	
Sat Flow, veh/h	0	3741	3103	3456	3647	0				3563	0	1585	
Grp Volume(v), veh/h	0	711	667	821	726	0				710	0	268	
Grp Sat Flow(s),veh/h/In		1870	1552	1728	1777	0				1781	0	1585	
Q Serve(g_s), s	0.0	13.9	16.2	20.6	8.2	0.0				17.2	0.0	14.1	
Cycle Q Clear(g_c), s	0.0	13.9	16.2	20.6	8.2	0.0				17.2	0.0	14.1	
Prop In Lane	0.00		1.00	1.00		0.00				1.00		1.00	
Lane Grp Cap(c), veh/h		1243	1031	886	2280	0				791	0	352	
V/C Ratio(X)	0.00	0.57	0.65	0.93	0.32	0.00				0.90	0.00	0.76	
Avail Cap(c_a), veh/h	0	1243	1031	906	2280	0				838	0	373	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00	
Upstream Filter(I)	0.00	1.00	1.00	1.00	1.00	0.00				1.00	0.00	1.00	
Uniform Delay (d), s/veh		24.4	25.2	32.2	7.2	0.0				33.6	0.0	32.3	
Incr Delay (d2), s/veh	0.0	0.4	1.1	14.7	0.4	0.0				11.5	0.0	7.4	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0	
%ile BackOfQ(50%),veh		5.7	5.6	9.6	2.4	0.0				8.5	0.0	6.0	
Unsig. Movement Delay			00.0	10.0	7 -	• •				45.0	0.0	00 7	
LnGrp Delay(d),s/veh	0.0	24.9	26.3	46.9	7.5	0.0				45.0	0.0	39.7	
LnGrp LOS	A	C	С	D	A	A				D	A	D	
Approach Vol, veh/h		1378			1547						978		
Approach Delay, s/veh		25.6			28.4						43.6		
Approach LOS		С			С						D		
Timer - Assigned Phs	1	2		4		6							
Phs Duration (G+Y+Rc)		36.5		24.8		64.0							
Change Period (Y+Rc),		7.0		5.1		7.0							
Max Green Setting (Gm		29.0		20.9		57.0							
Max Q Clear Time (g_c+		18.2		19.2		10.2							
Green Ext Time (p_c), s	0.2	3.7		0.5		3.0							
Intersection Summary													
HCM 6th Ctrl Delay			31.2										
HCM 6th LOS			С										
•• •													

Notes

User approved volume balancing among the lanes for turning movement. * HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

6: I-15 NB Off-ramp/I-15 NB On-ramp & Mercy Rd/Scripps Poway Pkwy timing Plan: AM Peak

ナーショート・ イントナイ

	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ኘኘ	_ ↑ ↑		٦	† ††	1	1	4	77				
Traffic Volume (veh/h)	10	1520	0	0	1500	740	10	10	1610	0	0	0	
Future Volume (veh/h)	10	1520	0	0	1500	740	10	10	1610	0	0	0	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0				
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1.00		1.00	1.00		1.00	1.00		1.00				
Parking Bus, Adj 1	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00				
Work Zone On Approach		No			No			No					
	870	1870	0	1870	1870	1870	1870	1870	1870				
Adj Flow Rate, veh/h	11	1617	0	0	1596	787	11	11	1851				
Peak Hour Factor (0.94	0.94	0.94	0.94	0.94	0.94	0.87	0.87	0.87				
Percent Heavy Veh, %	2	2	0	2	2	2	2	2	2				
Cap, veh/h	44	1903	0	35	2820	875	559	587	1058				
Arrive On Green (0.01	0.54	0.00	0.00	0.55	0.55	0.31	0.31	0.31				
Sat Flow, veh/h 3	456	3647	0	1781	5106	1583	1781	1870	3170				
Grp Volume(v), veh/h	11	1617	0	0	1596	787	11	11	1851				
Grp Sat Flow(s),veh/h/In1	728	1777	0	1781	1702	1583	1781	1870	1585				
Q Serve(g_s), s	0.4	50.7	0.0	0.0	26.6	57.8	0.6	0.5	41.0				
Cycle Q Clear(g_c), s	0.4	50.7	0.0	0.0	26.6	57.8	0.6	0.5	41.0				
Prop In Lane	1.00		0.00	1.00		1.00	1.00		1.00				
Lane Grp Cap(c), veh/h	44	1903	0	35	2820	875	559	587	1058				
V/C Ratio(X) (0.25	0.85	0.00	0.00	0.57	0.90	0.02	0.02	1.75				
Avail Cap(c_a), veh/h	132	1903	0	659	4427	1373	559	587	1058				
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00				
Upstream Filter(I) 1	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00				
Uniform Delay (d), s/veh 6	63.9	25.9	0.0	0.0	19.0	26.0	30.9	30.9	43.5				
Incr Delay (d2), s/veh	1.1	5.0	0.0	0.0	0.1	3.7	0.0	0.0	341.4				
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
%ile BackOfQ(50%),veh/li	n0.2	21.0	0.0	0.0	9.7	20.4	0.2	0.2	65.9				
Unsig. Movement Delay, s	s/veh												
LnGrp Delay(d),s/veh 6	65.0	30.8	0.0	0.0	19.1	29.7	30.9	30.9	384.9				
LnGrp LOS	Е	С	Α	А	В	С	С	С	F				
Approach Vol, veh/h		1628			2383			1873					
Approach Delay, s/veh		31.1			22.6			380.8					
Approach LOS		С			С			F					
Timor Assigned Phe	1	2			5	6		8					
Timer - Assigned Phs	0.6												
Phs Duration (G+Y+Rc), s		75.9 * 6			6.3 * 4.7	78.1 6.0		46.1 5.1					
Change Period (Y+Rc), s						6.0 113.2							
Max Green Setting (Gma Max Q Clear Time (g c+l		* 70						41.0 43.0					
(0-		52.7			2.4	59.8							
Green Ext Time (p_c), s	0.0	7.5			0.0	12.4		0.0					
Intersection Summary													
HCM 6th Ctrl Delay			139.0										
HCM 6th LOS			F										
Notoo													

Notes

User approved volume balancing among the lanes for turning movement.

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

0.7

Intersection

Int Delay, s/veh

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations				WDL		*		**	NDR		††‡	OBIX	
•	0	0		0	0	50	0		20	40		40	
Traffic Vol, veh/h	0	0	20	0	0	50	0	1130	30	10	2770	10	
Future Vol, veh/h	0	0	20	0	0	50	0	1130	30	10	2770	10	
Conflicting Peds, #/hr	0	0	0	0	0	0	2	0	3	3	0	2	
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free	
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None	
Storage Length	-	-	0	-	-	0	-	-	-	210	-	-	
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	75	75	75	67	67	67	92	92	92	97	97	97	
Heavy Vehicles, %	2	2	2	2	2	2	3	3	3	3	3	3	
Mvmt Flow	0	0	27	0	0	75	0	1228	33	10	2856	10	

Major/Minor	Minor2		Ν	1inor1		Ν	lajor1			Major2			
Conflicting Flow All	-	-	1435	-	-	634	-	0	0	1264	0	0	
Stage 1	-	-	-	-	-	-	-	-	-	-	-	-	
Stage 2	-	-	-	-	-	-	-	-	-	-	-	-	
Critical Hdwy	-	-	7.14	-	-	7.14	-	-	-	5.36	-	-	
Critical Hdwy Stg 1	-	-	-	-	-	-	-	-	-	-	-	-	
Critical Hdwy Stg 2	-	-	-	-	-	-	-	-	-	-	-	-	
Follow-up Hdwy	-	-	3.92	-	-	3.92	-	-	-	3.13	-	-	
Pot Cap-1 Maneuver	0	0	105	0	0	362	0	-	-	289	-	-	
Stage 1	0	0	-	0	0	-	0	-	-	-	-	-	
Stage 2	0	0	-	0	0	-	0	-	-	-	-	-	
Platoon blocked, %								-	-		-	-	
Mov Cap-1 Maneuver	· -	-	105	-	-	361	-	-	-	288	-	-	
Mov Cap-2 Maneuver	-	-	-	-	-	-	-	-	-	-	-	-	
Stage 1	-	-	-	-	-	-	-	-	-	-	-	-	
Stage 2	-	-	-	-	-	-	-	-	-	-	-	-	
Approach	EB			WB			NB			SB			

Approach	EB	WB	NB	SB	
HCM Control Delay, s	50.6	17.6	0	0.1	
HCM LOS	F	С			

Minor Lane/Major Mvmt	NBT	NBR E	EBLn1V	VBLn1	SBL	SBT	SBR
Capacity (veh/h)	-	-	105	361	288	-	-
HCM Lane V/C Ratio	-	-	0.254	0.207	0.036	-	-
HCM Control Delay (s)	-	-	50.6	17.6	18	-	-
HCM Lane LOS	-	-	F	С	С	-	-
HCM 95th %tile Q(veh)	-	-	0.9	0.8	0.1	-	-

8: I-805 NB Ramps/Mira Sorrento PI & Vista Sorrento Pkwy

timing Plan: AM Peak

	٠	-	7	4	←	•	1	Ť	1	1	Ļ	~
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	††	1	1	^	1	ሻሻ	1	1	7	ţ,	7
Traffic Volume (veh/h)	960	1650	170	30	250	110	560	110	170	320	170	110
Future Volume (veh/h)	960	1650	170	30	250	110	560	110	170	320	170	110
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.98	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	1055	1813	187	41	338	149	615	121	187	386	205	133
Peak Hour Factor	0.91	0.91	0.91	0.74	0.74	0.74	0.91	0.91	0.91	0.83	0.83	0.83
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	745	1487	979	199	397	177	689	260	216	341	231	192
Arrive On Green	0.42	0.42	0.42	0.11	0.11	0.11	0.20	0.14	0.14	0.19	0.12	0.12
Sat Flow, veh/h	1781	3554	1585	1781	3554	1585	3456	1870	1553	1781	1870	1552
Grp Volume(v), veh/h	1055	1813	187	41	338	149	615	121	187	386	205	133
Grp Sat Flow(s),veh/h/ln	1781	1777	1585	1781	1777	1585	1728	1870	1553	1781	1870	1552
Q Serve(g_s), s	61.9	61.9	0.0	3.1	13.8	13.6	25.6	8.8	17.4	28.3	16.0	12.2
Cycle Q Clear(g_c), s	61.9	61.9	0.0	3.1	13.8	13.6	25.6	8.8	17.4	28.3	16.0	12.2
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	745	1487	979	199	397	177	689	260	216	341	231	192
V/C Ratio(X)	1.42	1.22	0.19	0.21	0.85	0.84	0.89	0.47	0.87	1.13	0.89	0.69
Avail Cap(c_a), veh/h	745	1487	979	409	817	364	787	444	369	341	375	312
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	43.0	43.0	12.3	59.8	64.5	64.4	57.7	58.7	62.4	59.8	63.8	62.2
Incr Delay (d2), s/veh	194.9	105.1	0.0	0.2	2.0	4.1	10.7	0.5	4.7	89.8	8.7	1.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/In	67.0	48.3	2.7	1.4	6.3	5.7	11.9	4.1	7.0	20.9	8.0	4.8
Unsig. Movement Delay, s/veh	ı											
LnGrp Delay(d),s/veh	238.0	148.1	12.3	60.0	66.6	68.6	68.4	59.1	67.1	149.6	72.5	63.9
LnGrp LOS	F	F	В	Е	Е	Е	Е	Е	Е	F	Е	Е
Approach Vol, veh/h		3055			528			923			724	
Approach Delay, s/veh		170.8			66.6			66.9			112.0	
Approach LOS		F			Е			Е			F	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	35.3	24.1		21.6	33.0	26.3		67.0				
Change Period (Y+Rc), s	5.8	* 5.8		5.1	* 4.7	5.8		5.1				
Max Green Setting (Gmax), s	33.7	* 30		34.0	* 28	35.1		61.9				
Max Q Clear Time (g_c+I1), s		18.0		15.8	30.3	19.4		63.9				
Green Ext Time (p_c), s	0.3	0.3		0.7	0.0	0.2		0.0				
Intersection Summary												
HCM 6th Ctrl Delay			133.8									
HCM 6th LOS			F									

Notes

User approved volume balancing among the lanes for turning movement.

User approved ignoring U-Turning movement.

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

	۶	-	7	1	•	*	1	t	1	4	ŧ	~
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ኘኘ	^	1	1	朴朴		ኘኘ	ţ,		ኘኘ	ţ,	11
Traffic Volume (veh/h)	1240	1470	1070	50	750	110	130	130	20	50	110	280
Future Volume (veh/h)	1240	1470	1070	50	750	110	130	130	20	50	110	280
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.99	1.00		0.99	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approac	ch	No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	2116	1870	1870	2116	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	1292	1531	1115	51	765	112	160	160	25	54	136	293
Peak Hour Factor	0.96	0.96	0.96	0.98	0.98	0.98	0.81	0.81	0.81	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	1630	2502	985	65	902	131	476	217	34	317	166	1772
Arrive On Green	0.47	0.62	0.62	0.01	0.06	0.06	0.14	0.14	0.14	0.09	0.09	0.09
Sat Flow, veh/h	3456	4021	1583	1781	5089	739	3456	1576	246	3563	1870	3117
Grp Volume(v), veh/h	1292	1531	1115	51	578	299	160	0	185	54	136	293
Grp Sat Flow(s),veh/h/l	n1728	2011	1583	1781	1926	1976	1728	0	1823	1781	1870	1558
Q Serve(g_s), s	56.8	41.8	112.0	5.1	26.7	27.0	7.5	0.0	17.5	2.5	12.9	0.0
Cycle Q Clear(g_c), s	56.8	41.8	112.0	5.1	26.7	27.0	7.5	0.0	17.5	2.5	12.9	0.0
Prop In Lane	1.00		1.00	1.00		0.37	1.00		0.14	1.00		1.00
Lane Grp Cap(c), veh/h	n 1630	2502	985	65	683	350	476	0	251	317	166	1772
V/C Ratio(X)	0.79	0.61	1.13	0.78	0.85	0.86	0.34	0.00	0.74	0.17	0.82	0.17
Avail Cap(c_a), veh/h	1630	2502	985	65	683	350	749	0	395	370	194	1819
HCM Platoon Ratio	1.00	1.00	1.00	0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.16	0.16	0.16	0.63	0.63	0.63	1.00	0.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/ve	h 40.1	20.7	34.0	88.2	82.3	82.4	70.1	0.0	74.5	75.9	80.6	19.2
Incr Delay (d2), s/veh	0.5	0.2	61.9	28.9	8.2	15.4	1.1	0.0	10.4	0.4	22.6	0.1
Initial Q Delay(d3),s/vel		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),vel	h/12∩3.7	19.0	56.9	2.9	14.7	15.9	3.4	0.0	9.0	1.2	7.3	3.1
Unsig. Movement Delay	y, s/veh											
LnGrp Delay(d),s/veh	40.6	20.9	95.9	117.1	90.5	97.9	71.2	0.0	84.9	76.2	103.1	19.2
LnGrp LOS	D	С	F	F	F	F	Ε	Α	F	E	F	В
Approach Vol, veh/h		3938			928			345			483	
Approach Delay, s/veh		48.6			94.3			78.5			49.2	
Approach LOS		D			F			E			D	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), \$ 1.0	118.0		21.3	90.9	38.1		29.7				
Change Period (Y+Rc),		6.0		5.3	6.0	* 6.2		4.9				
Max Green Setting (Gn		95.1		18.7	69.6	* 32		39.0				
Max Q Clear Time (g_c		114.0		14.9	58.8	29.0		19.5				
Green Ext Time (p_c),		0.0		1.1	4.1	1.5		3.4				
Intersection Summary												
HCM 6th Ctrl Delay			57.9									
HCM 6th LOS			Е									

Notes

User approved volume balancing among the lanes for turning movement.

User approved ignoring U-Turning movement.

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

	٠	→	7	4	+	•	1	t	1	1	ŧ	4	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	A	≜ î⊧		<u>ሕ</u> ካ	≜ †₽		٦	↑	1	ልካ	1	1	
Traffic Volume (veh/h)	470	1340	280	610	570	600	50	320	160	90	210	100	
Future Volume (veh/h)	470	1340	280	610	570	600	50	320	160	90	210	100	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.98	1.00		0.99	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approa		No			No			No			No		
Adj Sat Flow, veh/h/ln	1870	2116	1870	1870	2116	1870	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	500	1426	298	656	613	645	79	508	254	110	256	122	
Peak Hour Factor	0.94	0.94	0.94	0.93	0.93	0.93	0.63	0.63	0.63	0.82	0.82	0.82	
Percent Heavy Veh, %		2	2	2	2	2	2	2	2	2	2	2	
Cap, veh/h	304	1390	284	877	1023	909	233	479	399	123	287	242	
Arrive On Green	0.34	0.84	0.84	0.42	0.85	0.85	0.13	0.26	0.26	0.04	0.15	0.15	
Sat Flow, veh/h	1781	3323	680	3456	2011	1787	1781	1870	1559	3456	1870	1576	
Grp Volume(v), veh/h	500	851	873	656	613	645	79	508	254	110	256	122	
Grp Sat Flow(s), veh/h/l		2011	1992	1728	2011	1787	1781	1870	1559	1728	1870	1576	
Q Serve(g_s), s	30.7	75.3	75.3	28.8	16.8	24.6	7.3	46.1	26.1	5.7	24.2	10.6	
Cycle Q Clear(g_c), s	30.7	75.3	75.3	28.8	16.8	24.6	7.3	46.1	26.1	5.7	24.2	10.6	
Prop In Lane	1.00	10.0	0.34	1.00	10.0	1.00	1.00	40.1	1.00	1.00	27.2	1.00	
Lane Grp Cap(c), veh/ł		841	833	877	1023	909	233	479	399	123	287	242	
V/C Ratio(X)	1.65	1.01	1.05	0.75	0.60	0.71	0.34	1.06	0.64	0.90	0.89	0.50	
Avail Cap(c_a), veh/h	304	841	833	877	1023	909	233	479	399	123	434	366	
HCM Platoon Ratio	2.00	2.00	2.00	1.67	1.67	1.67	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	0.72	0.72	0.72	0.83	0.83	0.83	1.00	1.00	1.00	0.65	0.65	0.65	
Uniform Delay (d), s/ve		14.7	14.7	47.0	7.9	8.5	71.1	66.9	59.5	86.5	74.7	47.6	
Incr Delay (d2), s/veh		29.2	40.0	2.7	2.2	3.9	0.3	58.1	2.6	36.9	7.2	0.4	
• • •		29.2	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	
Initial Q Delay(d3),s/ve %ile BackOfQ(50%),ve		13.6	16.0	11.1	4.9	5.6	3.3	29.5	10.6	3.2	12.0	4.2	
. ,			10.0	11.1	4.9	5.0	3.3	29.0	10.0	J.Z	12.0	4.2	
Unsig. Movement Dela			54.7	49.7	10.1	12.4	71.4	125.0	62.1	123.3	81.9	48.0	
LnGrp Delay(d),s/veh LnGrp LOS	360.4 F	43.9 F	54.7 F	49.7 D	10.1 B	12.4 B	/1.4 E	125.0 F	62.1 E	123.3 F	61.9 F	48.0 D	
	Г		Г	U		В			E	Г		U	
Approach Vol, veh/h		2224			1914			841			488		
Approach Delay, s/veh		119.3 F			24.4			101.0			82.8 F		
Approach LOS		F			С			F			F		
Timer - Assigned Phs	1	2	3	4	5	6	7	8					
Phs Duration (G+Y+Rc	c), 5 1.9	81.0	28.0	33.8	35.1	97.8	10.8	51.0					
Change Period (Y+Rc)		* 5.7	4.4	6.2	4.4	6.2	4.4	4.9					
Max Green Setting (Gr		* 75	9.4	41.8	30.7	76.9	6.4	46.1					
Max Q Clear Time (g_c		77.3	9.3	26.2	32.7	26.6	7.7	48.1					
Green Ext Time (p_c),		0.0	0.0	0.4	0.0	2.6	0.0	0.0					
Intersection Summary													
HCM 6th Ctrl Delay			80.0										
HCM 6th LOS			60.0 F										
			Г										
Notes													

Notes

User approved ignoring U-Turning movement. * HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

	٠	-	7	*	+	*	1	t	1	1	ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	à	^	1	à	^	1	A	†	1	ኘካ	†	1	
Traffic Volume (veh/h)	300	1370	420	1170	1230	1830	40	150	340	210	110	50	
Future Volume (veh/h)	300	1370	420	1170	1230	1830	40	150	340	210	110	50	
Initial Q (Qb), veh	000	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	U	0.99	1.00	U	1.00	1.00	U	0.95	1.00	U	0.95	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approa		No	1.00	1.00	No	1.00	1.00	No	1.00	1.00	No	1.00	
Adj Sat Flow, veh/h/ln	1870	2116	1870	1841	2083	1841	1870	1870	1870	1870	1870	1870	
			452	1272			45	170	386	266	139	63	
Adj Flow Rate, veh/h	323	1473			1337	0							
Peak Hour Factor	0.93	0.93	0.93	0.92	0.92	0.92	0.88	0.88	0.88	0.79	0.79	0.79	
Percent Heavy Veh, %		2	2	4	4	4	2	2	2	2	2	2	
Cap, veh/h	257	1296	507	672	2221	0.00	83	256	207	165	254	205	
Arrive On Green	0.29	0.64	0.64	0.64	0.94	0.00	0.05	0.14	0.14	0.05	0.14	0.14	
Sat Flow, veh/h	1781	4021	1573	1753	3958	1560	1781	1870	1512	3456	1870	1511	
Grp Volume(v), veh/h	323	1473	452	1272	1337	0	45	170	386	266	139	63	
Grp Sat Flow(s),veh/h/	In1781	2011	1573	1753	1979	1560	1781	1870	1512	1728	1870	1511	
Q Serve(g_s), s	25.9	58.0	43.3	68.9	8.8	0.0	4.4	15.5	12.2	8.6	12.5	6.8	
Cycle Q Clear(g_c), s	25.9	58.0	43.3	68.9	8.8	0.0	4.4	15.5	12.2	8.6	12.5	6.8	
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Lane Grp Cap(c), veh/l	n 257	1296	507	672	2221		83	256	207	165	254	205	
V/C Ratio(X)	1.26	1.14	0.89	1.89	0.60		0.54	0.66	1.86	1.61	0.55	0.31	
Avail Cap(c_a), veh/h	257	1296	507	672	2221		83	353	286	165	395	319	
HCM Platoon Ratio	2.00	2.00	2.00	1.67	1.67	1.67	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	0.13	0.13	0.13	0.09	0.09	0.00	1.00	1.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/ve		32.0	29.4	32.4	2.8	0.0	84.0	73.7	18.9	85.7	72.6	70.2	
Incr Delay (d2), s/veh		63.0	3.6	402.9	0.1	0.0	4.2	1.1	406.7	301.2	0.7	0.3	
Initial Q Delay(d3),s/ve		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),ve		30.0	12.3	97.0	1.9	0.0	2.1	7.5	27.7	10.8	6.1	2.6	
Unsig. Movement Dela			12.0	57.0	1.5	0.0	2.1	7.5	21.1	10.0	0.1	2.0	
LnGrp Delay(d),s/veh		95.0	32.9	435.3	2.9	0.0	88.1	74.8	425.6	386.9	73.3	70.5	
LnGrp LOS	104.4 F	95.0 F	32.9 C	435.5 F	2.9 A	0.0	00.1 F	74.0 E	425.0 F	500.9 F	73.3 E	70.5 E	
	Г		U	Г		٨	Г		Г	Г		E	
Approach Vol, veh/h		2248			2609	А		601			468		
Approach Delay, s/veh		95.4			213.7			301.1			251.2		
Approach LOS		F			F			F			F		
Timer - Assigned Phs	1	2	3	4	5	6	7	8					
Phs Duration (G+Y+Ro	c). 7 3 3	63.7	13.6	29.3	30.3	106.7	13.0	30.0					
Change Period (Y+Rc)		5.7	5.3	* 4.9	4.4	5.7	4.4	5.3					
Max Green Setting (Gr		58.0	5.0	* 38	16.6	101.0	8.6	34.0					
Max Q Clear Time (g_c		60.0	6.4	14.5	27.9	101.0	10.6	17.5					
Green Ext Time (p_c),		0.0	0.4	0.3	0.0	3.3	0.0	0.5					
	3 0.0	0.0	0.0	0.0	0.0	5.5	0.0	0.0					
Intersection Summary			400 7										
HCM 6th Ctrl Delay			180.7										
HCM 6th LOS			F										
Notes													

Notes User approved ignoring U-Turning movement.

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Unsignalized Delay for [WBR] is excluded from calculations of the approach delay and intersection delay.
	٠	-	7	1	-	*	1	t	1	4	ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	7	† †	1	A	^	1	٦	र्भ	1	٦	1	1	
Traffic Volume (veh/h)	400	780	990	80	3190	30	200	10	10	10	20	290	
Future Volume (veh/h)	400	780	990	80	3190	30	200	10	10	10	20	290	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.98	1.00		0.98	1.00		0.99	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No			No			No			No		
Adj Sat Flow, veh/h/ln	1841	2083	1841	1841	2083	1841	1870	1870	1796	1870	1870	1870	
Adj Flow Rate, veh/h	435	848	1076	86	3430	32	259	0	12	12	24	354	
Peak Hour Factor	0.92	0.92	0.92	0.93	0.93	0.93	0.80	0.80	0.80	0.82	0.82	0.82	
Percent Heavy Veh, %	4	4	4	4	4	4	2	2	2	2	2	2	
Cap, veh/h	454	2857	1111	93	2012	781	310	0	130	49	52	454	
Arrive On Green	0.43	1.00	1.00	0.04	0.34	0.34	0.09	0.00	0.09	0.03	0.03	0.03	
Sat Flow, veh/h	1753	3958	1539	1753	3958	1536	3563	0	1494	1781	1870	1568	
Grp Volume(v), veh/h	435	848	1076	86	3430	32	259	0	12	12	24	354	_
Grp Sat Flow(s), veh/h/lr		1979	1539	1753	1979	1536	1781	0	1494	1781	1870	1568	
Q Serve(g_s), s	43.3	0.0	0.0	8.8	91.5	2.5	12.9	0.0	1.3	1.2	2.3	0.0	
Cycle Q Clear(g_c), s	43.3	0.0	0.0	8.8	91.5	2.5	12.9	0.0	1.3	1.2	2.3	0.0	
Prop In Lane	1.00	0.0	1.00	1.00	••	1.00	1.00	•.•	1.00	1.00		1.00	
Lane Grp Cap(c), veh/h		2857	1111	93	2012	781	310	0	130	49	52	454	
V/C Ratio(X)	0.96	0.30	0.97	0.93	1.70	0.04	0.84	0.00	0.09	0.24	0.46	0.78	
Avail Cap(c_a), veh/h	454	2857	1111	93	2012	781	752	0	315	49	52	454	
HCM Platoon Ratio	1.67	1.67	1.67	0.67	0.67	0.67	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	0.09	0.09	0.09	0.09	0.09	0.09	1.00	0.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/veł		0.0	0.0	86.5	59.3	30.0	80.9	0.0	75.6	85.6	86.2	58.9	
Incr Delay (d2), s/veh	6.1	0.0	3.5	14.0		0.0	2.3	0.0	0.1	0.9	2.4	7.7	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh		0.0	1.1	4.4		0.9	6.1	0.0	0.5	0.6	1.2	15.9	
Unsig. Movement Delay													
LnGrp Delay(d),s/veh	56.2	0.0	3.5	100.4	376.8	30.0	83.2	0.0	75.8	86.6	88.5	66.6	
LnGrp LOS	E	A	A	F	F	С	F	A	E	F	F	E	
Approach Vol, veh/h		2359			3548			271			390		
Approach Delay, s/veh		12.0			367.0			82.9			68.6		
Approach LOS		В			F			F			E		
Timer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Rc)	\$3.9	135.7		9.9	52.4	97.2		20.5					_
Change Period (Y+Rc),		5.7		4.9	5.7	* 5.7		4.9					
Max Green Setting (Gm				5.0	25.6	* 92		38.0					
Max Q Clear Time (g c		2.0		4.3	45.3	93.5		14.9					
Green Ext Time (p_c), s		2.5		0.0	0.0	0.0		0.2					
а <i>— У</i>													
Intersection Summary			040.0										
HCM 6th Ctrl Delay			210.0										
HCM 6th LOS			F										

User approved volume balancing among the lanes for turning movement.

User approved ignoring U-Turning movement.

	٠	-	7	4	•	•	1	t	1	4	ŧ	~
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	A	††	1	A	^	1	٦	†	1	٦	†	1
Traffic Volume (veh/h)	460	410	140	440	2140	510	40	90	50	100	270	340
Future Volume (veh/h)	460	410	140	440	2140	510	40	90	50	100	270	340
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	-	0.99	1.00	-	0.96	1.00	-	0.98	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
	1841	2083	1841	1841	2083	1841	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	495	441	151	454	2206	526	49	111	62	114	307	386
Peak Hour Factor	0.93	0.93	0.93	0.97	0.97	0.97	0.81	0.81	0.81	0.88	0.88	0.88
Percent Heavy Veh, %	4	4	4	4	4	4	2	2	2	2	2	2
Cap, veh/h	428	1618	632	468	1680	633	63	173	144	216	340	284
Arrive On Green	0.08	0.13	0.13	0.35	0.56	0.56	0.04	0.09	0.09	0.12	0.18	0.18
	1753	3958	1546	1753	3958	1491	1781	1870	1549	1781	1870	1567
Grp Volume(v), veh/h	495	441	151	454	2206	526	49	111	62	114	307	386
Grp Sat Flow(s), veh/h/ln		1979	1546	1753	1979	1491	1781	1870	1549	1781	1870	1567
	43.9	18.0	1540	45.9	76.4	52.1	4.9	10.3	4.4	10.8	28.9	20.6
Q Serve(g_s), s		18.0	15.7	45.9	76.4	52.1	4.9	10.3	4.4	10.8	28.9	20.0
Cycle Q Clear(g_c), s	43.9 1.00	10.0	15.7	45.9	/0.4		4.9	10.5	4.4	1.00	20.9	20.6
Prop In Lane	428	1618	632	468	1680	1.00 633	63	173	144	216	340	284
Lane Grp Cap(c), veh/h		0.27					0.78	0.64	0.43			204 1.36
V/C Ratio(X)	1.16		0.24	0.97	1.31	0.83				0.53	0.90	
Avail Cap(c_a), veh/h	428	1618	632	623	1680	633	76	395	327	216	415	347
HCM Platoon Ratio	0.33	0.33	0.33	1.33	1.33	1.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.96	0.96	0.96	0.09	0.09	0.09	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh		53.8	52.8	57.4	39.2	33.9	86.2	78.8	32.5	74.3	72.1	29.2
J (),	93.5	0.4	0.9	4.3	141.4	1.2	27.9	1.5	0.8	1.2	18.3	181.9
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/		9.7	6.7	19.4	65.2	18.0	2.8	5.1	2.7	5.1	15.7	22.3
Unsig. Movement Delay,			F0 7	C 4 7	100.0	<u>م</u> ج	444.0	00.0	22.2	75 5	00.4	044.4
LnGrp Delay(d),s/veh 1		54.2	53.7	61.7	180.6	35.1	114.0	80.2	33.3	75.5		211.1
LnGrp LOS	F	D	D	E	F	D	F	F	С	E	F	F
Approach Vol, veh/h		1087			3186			222			807	
Approach Delay, s/veh		109.7			139.6			74.6			146.1	
Approach LOS		F			F			E			F	
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc),	524	79.3	10.7	37.6	49.6	82.1	26.7	21.6				
Change Period (Y+Rc),		5.7	4.4	4.9	5.7	* 5.7	4.9	* 4.9				
Max Green Setting (Gma		49.0	7.7	39.9	36.6	* 76	9.6	* 38				
Max Q Clear Time (g c+		20.0	6.9	30.9	45.9	78.4	12.8	12.3				
Green Ext Time (p_c), s		0.9	0.9	0.7	45.9	0.0	0.0	0.2				
	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.2				
Intersection Summary			104 7									
HCM 6th Ctrl Delay			131.7									
HCM 6th LOS			F									
Notes												

	۶	→	7	4	•	*	1	Ť	1	4	ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	A	† †	1	A	^	1	٦	र्स	1	٦	↑	1	
Traffic Volume (veh/h)	110	210	400	110	1760	240	520	200	60	40	90	110	
Future Volume (veh/h)	110	210	400	110	1760	240	520	200	60	40	90	110	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.97	1.00		0.98	1.00		0.99	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac	ch	No			No			No			No		
Adj Sat Flow, veh/h/ln	1841	2083	1841	1841	2083	1841	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	118	226	430	118	1892	258	424	499	71	56	127	155	
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.85	0.85	0.85	0.71	0.71	0.71	
Percent Heavy Veh, %	4	4	4	4	4	4	2	2	2	2	2	2	
Cap, veh/h	273	1337	523	376	1563	600	393	413	343	204	214	181	
Arrive On Green	0.26	0.56	0.56	0.29	0.53	0.53	0.22	0.22	0.22	0.11	0.11	0.11	
Sat Flow, veh/h	1753	3958	1547	1753	3958	1519	1781	1870	1557	1781	1870	1577	
Grp Volume(v), veh/h	118	226	430	118	1892	258	424	499	71	56	127	155	
Grp Sat Flow(s), veh/h/li		1979	1547	1753	1979	1519	1781	1870	1557	1781	1870	1577	
Q Serve(g_s), s	10.1	5.0	40.7	9.5	71.1	18.7	39.7	39.7	6.7	5.2	11.6	17.4	
Cycle Q Clear(g_c), s	10.1	5.0	40.7	9.5	71.1	18.7	39.7	39.7	6.7	5.2	11.6	17.4	
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Lane Grp Cap(c), veh/h		1337	523	376	1563	600	393	413	343	204	214	181	
V/C Ratio(X)	0.43	0.17	0.82	0.31	1.21	0.43	1.08	1.21	0.21	0.27	0.59	0.86	
Avail Cap(c_a), veh/h	273	1337	523	376	1563	600	393	413	343	376	395	333	
HCM Platoon Ratio	1.67	1.67	1.67	1.33	1.33	1.33	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	0.95	0.95	0.95	0.35	0.35	0.35	1.00	1.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/vel		27.1	34.8	53.9	42.7	30.3	70.1	70.2	57.3	72.9	75.7	78.3	
Incr Delay (d2), s/veh	0.4	0.3	13.0	0.1	96.9	0.8	68.3	115.0	0.1	0.3	1.0	4.5	
Initial Q Delay(d3),s/vel		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),vel		2.3	14.3	4.1	51.8	6.4	25.4	32.0	2.7	2.4	5.7	7.3	
Unsig. Movement Delay													
LnGrp Delay(d),s/veh	60.4	27.3	47.9	54.0	139.6	31.1	138.4	185.1	57.4	73.1	76.7	82.8	
LnGrp LOS	E	С	D	D	F	С	F	F	E	E	E	F	
Approach Vol, veh/h		774			2268			994			338		
Approach Delay, s/veh		43.8			122.8			156.1			78.9		
Approach LOS		D			F			F			E		
Timer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Rc)), \$ 3.0	66.5		25.5	32.4	77.1		45.0					
Change Period (Y+Rc),		5.7		4.9	4.4	6.0		5.3					
Max Green Setting (Gm		60.8		38.0	10.6	71.1		39.7					
Max Q Clear Time (g_c		42.7		19.4	12.1	73.1		41.7					
Green Ext Time (p_c), s		0.6		0.3	0.0	0.0		0.0					
Intersection Summary													
HCM 6th Ctrl Delay			113.0										
HCM 6th LOS			F										
Notes													
liser approved volume	holonoi		na tha	lonoo f	or turnin	a 120 01/4	mont						

User approved volume balancing among the lanes for turning movement. User approved ignoring U-Turning movement.

	٨	→	7	1	+	*	1	Ť	1	4	ŧ	4	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	5	**	1	24	^	1	ኘኘ	1	1	5	ţ,		
Traffic Volume (veh/h)	40	170	100	350	1820	670	150	400	240	60	190	20	
Future Volume (veh/h)	40	170	100	350	1820	670	150	400	240	60	190	20	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.97	1.00		0.99	1.00		0.98	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach		No			No			No			No		
	1841	2083	1841	1841	2083	1841	1870	1870	1796	1870	1870	1870	
Adj Flow Rate, veh/h	41	173	102	368	1916	705	188	500	300	107	339	36	
Peak Hour Factor	0.98	0.98	0.98	0.95	0.95	0.95	0.80	0.80	0.80	0.56	0.56	0.56	
Percent Heavy Veh, %	4	4	4	4	4	4	2	2	2	2	2	2	
Cap, veh/h	90	1381	528	380	2001	761	441	518	419	125	359	38	
Arrive On Green	0.02	0.12	0.12	0.43	1.00	1.00	0.13	0.28	0.28	0.07	0.22	0.22	
	1753	3958	1514	1753	3958	1506	3456	1870	1512	1781	1658	176	
	41	173	102	368	1916	705	188	500	300	107		375	
Grp Volume(v), veh/h			1514	368 1753	1916	1506	1728	500 1870	1512	1781	0 0	375 1834	
Grp Sat Flow(s),veh/h/ln		1979											
Q Serve(g_s), s	4.2	7.1	8.2	36.9	0.0	0.0	9.0	47.5	32.2	10.7	0.0	36.3	
Cycle Q Clear(g_c), s	4.2	7.1	8.2	36.9	0.0	0.0	9.0	47.5	32.2	10.7	0.0	36.3	
Prop In Lane	1.00	1001	1.00	1.00	0004	1.00	1.00	= 1 0	1.00	1.00	•	0.10	
Lane Grp Cap(c), veh/h	90	1381	528	380	2001	761	441	518	419	125	0	397	
V/C Ratio(X)	0.46	0.13	0.19	0.97	0.96	0.93	0.43	0.97	0.72	0.86	0.00	0.94	
Avail Cap(c_a), veh/h	90	1381	528	517	2001	761	441	531	429	125	0	518	
HCM Platoon Ratio	0.33	0.33	0.33	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	0.99	0.99	0.99	0.09	0.09	0.09	1.00	1.00	1.00	1.00	0.00	1.00	
Uniform Delay (d), s/veh		55.0	31.4	50.4	0.0	0.0	72.4	64.2	58.7	82.8	0.0	69.5	
Incr Delay (d2), s/veh	1.3	0.2	0.8	4.6	1.7	2.5	0.2	29.8	4.7	39.8	0.0	20.8	
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh	/In1.9	3.6	3.4	13.6	0.5	0.5	4.1	27.0	13.0	6.3	0.0	19.4	
Unsig. Movement Delay,	, s/veh												
LnGrp Delay(d),s/veh	87.3	55.2	32.2	55.0	1.7	2.5	72.7	94.0	63.4	122.6	0.0	90.3	
LnGrp LOS	F	Е	С	Е	А	А	Е	F	Е	F	А	F	
Approach Vol, veh/h		316			2989			988			482		
Approach Delay, s/veh		51.9			8.4			80.7			97.5		
Approach LOS		D			A			F			67.0 F		
	4		0	4		^	-						
Timer - Assigned Phs	1	2	3	4	5	6	7	8					
Phs Duration (G+Y+Rc),		68.9	27.9	43.8	15.3	97.0	17.0	54.7					
Change Period (Y+Rc), s		6.0	4.9	* 4.9	6.0	* 6	4.4	4.9					
Max Green Setting (Gma		43.5	12.9	* 51	5.6	* 91	12.6	51.1					
Max Q Clear Time (g_c+		10.2	11.0	38.3	6.2	2.0	12.7	49.5					
Green Ext Time (p_c), s	0.1	0.4	0.0	0.7	0.0	6.6	0.0	0.3					
Intersection Summary													
HCM 6th Ctrl Delay			35.2										
HCM 6th LOS			D										
Notes			5										

	٠	-	¥	1	←	•	1	Ť	1	4	ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	A	^	1	٦	^	1	à	^	1	ሕካ	† †	1	
Traffic Volume (veh/h)	40	300	120	460	2710	230	110	90	50	80	250	130	
Future Volume (veh/h)	40	300	120	460	2710	230	110	90	50	80	250	130	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	Ū	0.99	1.00	Ū	0.98	1.00	v	0.99	1.00	v	0.99	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No	1.00	1.00	No	1.00	1.00	No	1.00	1.00	No	1.00	
Adj Sat Flow, veh/h/ln	1841	2083	1841	1811	2049	1811	1575	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	43	326	130	479	2823	240	112	92	51	87	272	141	
Peak Hour Factor	0.92	0.92	0.92	0.96	0.96	0.96	0.98	0.98	0.98	0.92	0.92	0.92	
Percent Heavy Veh, %	4	4	4	6	6	6	2	2	2	2	2	2	
Cap, veh/h	193	776	303	860	2276	879	97	548	1032	123	406	179	
Arrive On Green	0.04	0.06	0.06	0.66	0.78	0.78	97 0.06	0.15	0.15	0.04	0.11	0.11	
	1753	3958	1543	1725	3894	1505	1500	3554	1570	3456	3554	1564	
Sat Flow, veh/h													
Grp Volume(v), veh/h	43	326	130	479	2823	240	112	92	51	87	272	141	
Grp Sat Flow(s),veh/h/lr		1979	1543	1725	1947	1505	1500	1777	1570	1728	1777	1564	
Q Serve(g_s), s	4.3	14.3	14.6	26.7	105.2	6.3	11.6	4.0	0.4	4.5	13.2	15.8	
Cycle Q Clear(g_c), s	4.3	14.3	14.6	26.7	105.2	6.3	11.6	4.0	0.4	4.5	13.2	15.8	
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Lane Grp Cap(c), veh/h		776	303	860	2276	879	97	548	1032	123	406	179	
V/C Ratio(X)	0.22	0.42	0.43	0.56	1.24	0.27	1.16	0.17	0.05	0.71	0.67	0.79	
Avail Cap(c_a), veh/h	193	871	340	860	2276	879	97	833	1158	131	730	322	
HCM Platoon Ratio	0.33	0.33	0.33	1.33	1.33	1.33	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	0.82	0.82	0.82	0.09	0.09	0.09	1.00	1.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/veh	n 79.2	74.3	74.5	19.7	20.0	5.6	84.2	66.1	5.2	85.9	76.5	77.6	
Incr Delay (d2), s/veh	0.2	0.1	0.3	0.0	108.6	0.1	140.5	0.1	0.0	12.5	0.7	2.9	
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh	/ln2.0	7.6	6.1	9.0	65.5	2.3	8.2	1.8	0.4	2.2	6.0	6.4	
Unsig. Movement Delay	, s/veh												
LnGrp Delay(d),s/veh	79.4	74.4	74.8	19.7	128.6	5.6	224.7	66.1	5.2	98.4	77.2	80.5	
LnGrp LOS	E	Е	E	В	F	A	F	E	A	F	Е	F	
Approach Vol, veh/h		499			3542			255			500		
Approach Delay, s/veh		75.0			105.6			123.6			81.8		
Approach LOS		70.0 E			F			120.0			61.6 F		
Timer - Assigned Phs	1	2	3	4	5	6	7	8					
Phs Duration (G+Y+Rc)	, 9 4.1	41.3	17.6	27.0	24.2	111.2	10.8	33.8					
Change Period (Y+Rc),		6.0	6.0	* 6.4	4.4	6.0	4.4	6.0					
Max Green Setting (Gm	a ⊼ 0,.6	39.6	11.6	* 37	5.0	105.2	6.8	42.2					
Max Q Clear Time (g_c⊣		16.6	13.6	17.8	6.3	107.2	6.5	6.0					
Green Ext Time (p_c), s		0.6	0.0	0.5	0.0	0.0	0.0	0.2					
Intersection Summary													
HCM 6th Ctrl Delay			100.9										
HCM 6th LOS			F										
Notes													

	۶	-	7	1	+	*	1	t	1	4	ŧ	1	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ä	^	1	à	^	1		र्भ	1	٦	†	1	
Traffic Volume (veh/h)	30	390	20	20	2990	20	70	10	50	60	20	150	
Future Volume (veh/h)	30	390	20	20	2990	20	70	10	50	60	20	150	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.97	0.98		0.98	0.98		0.98	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac	ch	No			No			No			No		
Adj Sat Flow, veh/h/ln	1811	2049	1811	1811	2049	1739	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	33	424	22	21	3082	21	86	12	62	67	22	169	
Peak Hour Factor	0.92	0.92	0.92	0.97	0.97	0.97	0.81	0.81	0.81	0.89	0.89	0.89	
Percent Heavy Veh, %	6	6	6	6	6	6	2	2	2	2	2	2	
Cap, veh/h	38	2845	1113	26	2818	1035	209	27	261	156	316	261	
Arrive On Green	0.04	1.00	1.00	0.03	1.00	1.00	0.17	0.17	0.17	0.17	0.17	0.17	
Sat Flow, veh/h	1725	3894	1523	1725	3894	1430	1013	159	1546	1303	1870	1546	
Grp Volume(v), veh/h	33	424	22	21	3082	21	98	0	62	67	22	169	
Grp Sat Flow(s),veh/h/l		1947	1523	1725	1947	1430	1172	0	1546	1303	1870	1546	
Q Serve(g_s), s	3.4	0.0	0.0	2.2	0.0	0.0	12.7	0.0	6.2	8.9	1.8	18.4	
Cycle Q Clear(g_c), s	3.4	0.0	0.0	2.2	0.0	0.0	14.5	0.0	6.2	23.4	1.8	18.4	
Prop In Lane	1.00		1.00	1.00		1.00	0.88		1.00	1.00		1.00	
Lane Grp Cap(c), veh/h		2845	1113	26	2818	1035	236	0	261	156	316	261	
V/C Ratio(X)	0.86	0.15	0.02	0.81	1.09	0.02	0.42	0.00	0.24	0.43	0.07	0.65	
Avail Cap(c_a), veh/h	38	2845	1113	63	2818	1035	267	0	301	189	364	301	
HCM Platoon Ratio	2.00	2.00	2.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	0.74	0.74	0.74	0.09	0.09	0.09	1.00	0.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/ve		0.0	0.0	87.0	0.0	0.0	68.7	0.0	64.7	78.8	62.9	69.8	
Incr Delay (d2), s/veh	73.6	0.1	0.0	2.0	42.9	0.0	0.4	0.0	0.2	0.7	0.0	2.4	
Initial Q Delay(d3),s/vel	h 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),vel		0.0	0.0	1.0	16.8	0.0	4.2	0.0	2.5	3.0	0.9	7.5	
Unsig. Movement Delay													
LnGrp Delay(d),s/veh		0.1	0.0	89.1	42.9	0.0	69.1	0.0	64.9	79.5	62.9	72.2	
LnGrp LOS	F	А	А	F	F	А	Е	А	Е	Е	Е	Е	
Approach Vol, veh/h		479			3124			160			258		
Approach Delay, s/veh		11.0			42.9			67.5			73.3		
Approach LOS		В			D			E			E		
Timer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Rc) s7 1			35.3		136.3		35.3					
Change Period (Y+Rc),		6.0		4.9	4.4	6.0		4.9					
Max Green Setting (Gr				35.0		125.7		35.0					
Max Q Clear Time (g_c		2.0		25.4	5.4	2.0		16.5					
Green Ext Time (p_c),		4.8		0.3		117.9		0.4					
, <i>, ,</i>	0.0	1.0		0.0	5.0			0.7					
Intersection Summary													
HCM 6th Ctrl Delay			42.0										
HCM 6th LOS			D										
N 1 /													

User approved ignoring U-Turning movement.

	۶	→	¥	4	+	•	1	t	1	4	ţ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	A	† †	1	à	^	1		4		٦	†	1	
Traffic Volume (veh/h)	20	500	10	20	3000	40	20	10	40	150	20	40	
Future Volume (veh/h)	20	500	10	20	3000	40	20	10	40	150	20	40	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	Ū	1.00	1.00	Ū	0.97	1.00	Ŭ	1.00	1.00	Ū	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No	1.00	1.00	No	1.00	1.00	No	1.00	1.00	No	1.00	
Adj Sat Flow, veh/h/ln	1811	2049	1739	1811	2049	1739	1870	1870	1870	1870	1870	1796	
Adj Flow Rate, veh/h	22	543	11	20	3030	40	27	13	53	195	26	52	
Peak Hour Factor	0.92	0.92	0.92	0.99	0.99	0.99	0.75	0.75	0.75	0.77	0.77	0.77	
Percent Heavy Veh, %	6	6	6	6	6	6	2	2	2	2	2	2	
Cap, veh/h	27	2665	1006	82	2822	1041	90	51	153	250	323	262	
Arrive On Green	0.03	1.00	1.00	0.09	1.00	1.00	0.17	0.17	0.17	0.17	0.17	0.17	
Sat Flow, veh/h	1725	3894	1470	1725	3894	1436	374	294	885	1334	1870	1519	
Grp Volume(v), veh/h	22	543	11	20	3030	40	93	0	0	195	26	52	
Grp Sat Flow(s),veh/h/l		1947	1470	1725	1947	1436	1553	0	0	1334	1870	1519	
Q Serve(g_s), s	2.3	0.0	0.0	1.9	0.0	0.0	4.2	0.0	0.0	19.6	2.1	5.3	
Cycle Q Clear(g_c), s	2.3	0.0	0.0	1.9	0.0	0.0	9.1	0.0	0.0	28.7	2.1	5.3	
Prop In Lane	1.00		1.00	1.00		1.00	0.29		0.57	1.00		1.00	
Lane Grp Cap(c), veh/r		2665	1006	82	2822	1041	294	0	0	250	323	262	
V/C Ratio(X)	0.80	0.20	0.01	0.25	1.07	0.04	0.32	0.00	0.00	0.78	0.08	0.20	
Avail Cap(c_a), veh/h	38	2665	1006	82	2822	1041	327	0	0	279	364	295	
HCM Platoon Ratio	2.00	2.00	2.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	0.99	0.99	0.99	0.09	0.09	0.09	1.00	0.00	0.00	1.00	1.00	1.00	
Uniform Delay (d), s/ve	h 86.9	0.0	0.0	78.5	0.0	0.0	65.3	0.0	0.0	74.5	62.5	63.8	
Incr Delay (d2), s/veh	39.8	0.2	0.0	0.1	34.0	0.0	0.2	0.0	0.0	10.2	0.0	0.1	
Initial Q Delay(d3),s/vel	h 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),vel		0.1	0.0	0.8	13.3	0.0	3.8	0.0	0.0	9.7	1.0	2.1	
Unsig. Movement Dela													
LnGrp Delay(d),s/veh		0.2	0.0	78.6	34.0	0.0	65.5	0.0	0.0	84.7	62.5	63.9	
LnGrp LOS	F	A	A	E	F	A	E	A	A	F	E	E	
Approach Vol, veh/h	•	576	7.		3090			93		•	273		
Approach Delay, s/veh		5.0			33.8			65.5			78.6		
Approach LOS		3.0 A			55.0 C			05.5 E			70.0 F		
		А						E			E		
Timer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Rc), \$ 4.8	129.2		36.0	7.3	136.8		36.0					
Change Period (Y+Rc)		* 6		4.9	4.4	6.3		4.9					
Max Green Setting (Gn				35.0		125.4		35.0					
Max Q Clear Time (g_c		2.0		30.7	4.3	2.0		11.1					
Green Ext Time (p_c),		4.7		0.2		107.2		0.3					
Intersection Summary													
HCM 6th Ctrl Delay			33.5										
HCM 6th LOS			С										
Notes													

	٠	→	¥	4	+	•	1	t	1	4	ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	1	≜ î≽		A	≜ †₽		5	1	1	5	↑	1	
Traffic Volume (veh/h)	100	460	150	30	2340	20	290	30	50	30	100	370	
Future Volume (veh/h)	100	460	150	30	2340	20	290	30	50	30	100	370	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	-	0.97	1.00	-	0.97	1.00	-	0.97	1.00	-	0.98	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Nork Zone On Approac		No			No			No			No		
Adj Sat Flow, veh/h/ln	1811	2049	1811	1811	2049	1811	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	109	500	163	32	2463	21	354	37	61	32	106	394	
Peak Hour Factor	0.92	0.92	0.92	0.95	0.95	0.95	0.82	0.82	0.82	0.94	0.94	0.94	
Percent Heavy Veh, %	6	6	6	6	6	6	2	2	2	2	2	2	
Cap, veh/h	92	1492	483	95	2098	18	283	133	109	415	271	226	
Arrive On Green	0.11	1.00	1.00	0.07	0.71	0.71	0.16	0.07	0.07	0.23	0.15	0.15	
Sat Flow, veh/h	1725	2870	929	1725	3956	34	1781	1870	1531	1781	1870	1559	
Grp Volume(v), veh/h	109	338	325	32	1210	1274	354	37	61	32	106	394	
Grp Sat Flow(s), veh/h/li		1947	1853	1725	1947	2042	1781	1870	1531	1781	1870	1559	
Q Serve(g_s), s	9.6	0.0	0.0	3.2	95.5	95.5	28.6	3.4	6.9	2.5	9.2	22.9	
Cycle Q Clear(g_c), s	9.6	0.0	0.0	3.2	95.5	95.5	28.6	3.4	6.9	2.5	9.2	22.9	
Prop In Lane	1.00	0.0	0.50	1.00	30.0	0.02	1.00	5.4	1.00	1.00	J.Z	1.00	
_ane Grp Cap(c), veh/h		1012	963	95	1033	1083	283	133	109	415	271	226	
//C Ratio(X)	1.18	0.33	0.34	0.34	1.17	1.18	1.25	0.28	0.56	0.08	0.39	1.74	
Avail Cap(c_a), veh/h	92	1012	963	95	1033	1083	283	507	415	415	301	251	
ICM Platoon Ratio	2.00	2.00	2.00	1.33	1.33	1.33	1.00	1.00	1.00	1.00	1.00	1.00	
Jpstream Filter(I)	0.93	0.93	0.93	0.55	0.55	0.55	1.00	1.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/vel		0.95	0.95	80.3	26.5	26.5	75.7	79.2	80.9	53.9	69.7	59.2	
ncr Delay (d2), s/veh		0.0	0.0	0.3	83.4	84.9	138.7	0.4	1.7	0.0	0.3	351.4	
nitial Q Delay(d3),s/ver		0.0	0.9	0.4	0.0	04.9	0.0	0.4	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),vef		0.0	0.0	1.4	59.0	62.3	24.1	1.7	2.8	1.2	4.5	31.3	
Jnsig. Movement Delay			0.2	1.4	59.0	02.5	24.1	1.7	2.0	۲.۷	4.0	51.5	
_nGrp Delay(d),s/veh		0.8	0.9	80.8	109.9	111.4	214.4	79.7	82.6	53.9	70.1	410.6	
LIGIP Delay(0), s/veri	220.9 F	0.0 A	0.9 A	00.0 F	109.9 F	F	214.4 F	79.7 E	02.0 F	55.9 D	70.1 E	410.0 F	
Approach Vol, veh/h	1	772	~	Ľ	2516	<u> </u>	1	452	1	U	532	1	
Approach Vol, ven/n Approach Delay, s/veh		33.1			110.3			452 185.5			321.3		
Approach LOS		55.T C			110.3 F			165.5 F			521.5 F		
Approach LOS		U			Г			Г			Г		
Timer - Assigned Phs	1	2	3	4	5	6	7	8					
Phs Duration (G+Y+Rc)), \$ 6.4	99.6	33.0	31.0	14.0	102.0	46.3	17.7					
Change Period (Y+Rc),	s 6.5	* 6	4.4	4.9	4.4	6.5	4.4	4.9					
Max Green Setting (Gm	nax9,.\$	* 94	28.6	29.0	9.6	92.6	8.8	48.8					
/lax Q Clear Time (g_c		2.0	30.6	24.9	11.6	97.5	4.5	8.9					
Green Ext Time (p_c), s		5.1	0.0	0.6	0.0	0.0	0.0	0.2					
ntersection Summary													
HCM 6th Ctrl Delay			130.6										
HCM 6th LOS			F										
Notes													

	٠	-	7	*	+	•	1	Ť	1	4	Ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	A	≜ t}		à	^	1	٦	≜ †₽		٦	≜ †		
Traffic Volume (veh/h)	20	430	70	30	1840	10	140	20	20	20	50	60	
Future Volume (veh/h)	20	430	70	30	1840	10	140	20	20	20	50	60	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	Ū	0.98	1.00	v	0.98	1.00	v	0.98	1.00	Ū	0.97	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No	1.00	1.00	No	1.00	1.00	No	1.00	1.00	No	1.00	
	1811	2049	1811	1781	2016	1781	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	22	467	76	32	1937	11	192	27	27	23	58	70	
Peak Hour Factor	0.92	0.92	0.92	0.95	0.95	0.95	0.73	0.73	0.73	0.86	0.86	0.86	
Percent Heavy Veh, %	0.92	0.92	0.92	0.95	0.95	0.95	0.75	2	2	2	2	0.00	
Cap, veh/h	239	1742	282	285	2107	816	212	214	183	146	146	126	
Arrive On Green	0.28	1.00	1.00	0.34	1.00	1.00	0.12	0.12	0.12	0.08	0.08	0.08	
Sat Flow, veh/h	1725	3347	541	1697	3830	1485	1781	1800	1538	1781	1777	1544	
Grp Volume(v), veh/h	22	271	272	32	1937	11	192	27	27	23	58	70	
Grp Sat Flow(s),veh/h/lr		1947	1941	1697	1915	1485	1781	1777	1561	1781	1777	1544	
Q Serve(g_s), s	1.7	0.0	0.0	2.3	0.0	0.0	19.2	2.4	2.8	2.2	5.6	7.8	
Cycle Q Clear(g_c), s	1.7	0.0	0.0	2.3	0.0	0.0	19.2	2.4	2.8	2.2	5.6	7.8	
Prop In Lane	1.00		0.28	1.00		1.00	1.00		0.99	1.00		1.00	
Lane Grp Cap(c), veh/h		1013	1010	285	2107	816	212	211	185	146	146	126	
V/C Ratio(X)	0.09	0.27	0.27	0.11	0.92	0.01	0.91	0.13	0.15	0.16	0.40	0.55	
Avail Cap(c_a), veh/h	239	1013	1010	285	2107	816	229	228	200	336	336	292	
HCM Platoon Ratio	2.00	2.00	2.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	0.96	0.96	0.96	0.69	0.69	0.69	1.00	1.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/veh	n 56.6	0.0	0.0	50.4	0.0	0.0	78.3	71.0	71.1	76.9	78.4	79.5	
Incr Delay (d2), s/veh	0.1	0.6	0.6	0.0	5.8	0.0	34.9	0.3	0.5	0.8	2.7	5.7	
Initial Q Delay(d3),s/veh	n 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh	n/In0.7	0.2	0.2	1.0	1.7	0.0	10.9	1.1	1.2	1.0	2.7	3.4	
Unsig. Movement Delay	, s/veh												
LnGrp Delay(d),s/veh	56.7	0.6	0.6	50.5	5.8	0.0	113.3	71.3	71.6	77.6	81.1	85.1	
LnGrp LOS	E	А	А	D	А	А	F	E	E	E	F	F	
Approach Vol, veh/h		565			1980			246			151		
Approach Delay, s/veh		2.8			6.5			104.1			82.4		
Approach LOS		А			Α			F			F		
Timer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Rc)	, 3 4.7	99.4		19.6	29.4	104.7		26.3					
Change Period (Y+Rc),		5.7		4.9	4.4	5.7		4.9					
Max Green Setting (Gm		93.7		34.0	4.0	99.0		23.1					
Max Q Clear Time (g_c-		2.0		9.8	3.7	2.0		21.2					
Green Ext Time (p_c), s		5.4		1.1	0.0	61.0		0.2					
Intersection Summary													
HCM 6th Ctrl Delay			17.8										
HCM 6th LOS			В										
			_										

User approved ignoring U-Turning movement.

	٠	→	7	1	+	*	1	t	1	4	ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	24	^	1	<u>ሕ</u> ግ	^	1	7	1	1	7	ţ,		
Traffic Volume (veh/h)	160	280	20	20	1570	80	20	20	10	50	20	180	
Future Volume (veh/h)	160	280	20	20	1570	80	20	20	10	50	20	180	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.97	0.99		0.98	0.99		0.98	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac	ch	No			No			No			No		
Adj Sat Flow, veh/h/ln	1781	2016	1710	1781	2016	1710	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	174	304	22	21	1653	84	29	29	14	59	24	212	
Peak Hour Factor	0.92	0.92	0.92	0.95	0.95	0.95	0.70	0.70	0.70	0.85	0.85	0.85	
Percent Heavy Veh, %	8	8	8	8	8	8	2	2	2	2	2	2	
Cap, veh/h	311	2658	1002	118	2092	767	91	350	292	274	30	267	
Arrive On Green	0.37	1.00	1.00	0.07	1.00	1.00	0.19	0.19	0.19	0.19	0.19	0.19	
Sat Flow, veh/h	1697	3830	1444	3291	3830	1405	1136	1870	1560	1344	161	1425	
Grp Volume(v), veh/h	174	304	22	21	1653	84	29	29	14	59	0	236	
Grp Sat Flow(s), veh/h/l		1915	1444	1646	1915	1405	1136	1870	1560	1344	0	1586	
Q Serve(g_s), s	14.7	0.0	0.0	1.1	0.0	0.0	4.5	2.3	1.3	6.8	0.0	25.6	
Cycle Q Clear(g_c), s	14.7	0.0	0.0	1.1	0.0	0.0	30.1	2.3	1.3	9.1	0.0	25.6	
Prop In Lane	1.00	0.0	1.00	1.00	0.0	1.00	1.00	2.0	1.00	1.00	0.0	0.90	
Lane Grp Cap(c), veh/h		2658	1002	118	2092	767	91	350	292	274	0	297	
V/C Ratio(X)	0.56	0.11	0.02	0.18	0.79	0.11	0.32	0.08	0.05	0.22	0.00	0.80	
Avail Cap(c_a), veh/h	311	2658	1002	118	2092	767	106	375	313	292	0.00	318	
HCM Platoon Ratio	2.00	2.00	2.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	0.98	0.98	0.98	0.17	0.17	0.17	1.00	1.00	1.00	1.00	0.00	1.00	
Uniform Delay (d), s/vel		0.0	0.0	81.1	0.0	0.0	84.2	60.4	60.0	64.2	0.0	69.9	
Incr Delay (d2), s/veh	1.3	0.0	0.0	0.0	0.5	0.0	0.7	0.0	0.0	0.1	0.0	11.1	
Initial Q Delay(d3),s/vel		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),vel		0.0	0.0	0.5	0.0	0.0	1.4	1.1	0.5	2.4	0.0	11.4	
Unsig. Movement Delay			0.0	0.0	0.2	0.0	1.4		0.0	2 .7	0.0	11.4	
LnGrp Delay(d),s/veh	52.5	0.1	0.0	81.1	0.5	0.0	85.0	60.5	60.0	64.3	0.0	80.9	
LnGrp LOS	02.0 D	A	0.0 A	F	0.5 A	A	65.0 F	60.5 E	60.0 E	0 . .5	A	500.5 F	
Approach Vol, veh/h	<u> </u>	500	73		1758	73		72	<u> </u>	<u> </u>	295		
Approach Delay, s/veh		18.3			1.5			70.3			77.6		
Approach LOS		10.5 B			1.5 A			70.5 E			н.о Е		
	4			4		^					L		
Timer - Assigned Phs		2		4	5	6		8					
Phs Duration (G+Y+Rc)				38.6	37.4	104.0		38.6					
Change Period (Y+Rc),		5.7		4.9	4.4	5.7		4.9					
Max Green Setting (Gm				36.1	30.6	98.3		36.1					
Max Q Clear Time (g_c		2.0		27.6	16.7	2.0		32.1					
Green Ext Time (p_c), s	s 0.0	2.7		0.7	0.2	26.1		0.0					
Intersection Summary													
HCM 6th Ctrl Delay			15.1										
HCM 6th LOS			В										

User approved ignoring U-Turning movement.

	۶	-	7	4	+	•	1	t	1	4	Ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	<u>ሕ</u> ግ	≜ †}		<u>ሕ</u> ካ	^	1	à	† ††	1	ካካ	4		
Traffic Volume (veh/h)	20	380	10	420	1690	590	10	80	280	1030	120	20	
Future Volume (veh/h)	20	380	10	420	1690	590	10	80	280	1030	120	20	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	Ŭ	0.95	1.00	v	0.97	1.00	Ū	0.93	1.00	Ŭ	0.96	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No	1.00	1.00	No	1.00	1.00	No	1.00	1.00	No	1.00	
Adj Sat Flow, veh/h/ln	1781	2016	1781	1500	2016	1781	1841	1841	1841	1811	1811	1739	
Adj Flow Rate, veh/h	22	413	11	457	1837	641	11	87	304	1120	130	22	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	
Percent Heavy Veh, %	8	8	8	8	8	8	4	4	4	6	6	6	
Cap, veh/h	131	879	23	603	1568	599	16	959	278	829	643	109	
Arrive On Green	0.08	0.46	0.46	0.29	0.54	0.54	0.01	0.19	0.19	0.25	043	0.43	
								5025		3346		254	
Sat Flow, veh/h	3291	3806	101	2772	3830	1463	1753		1454		1499		
Grp Volume(v), veh/h	22	207	217	457	1837	641	11	87	304	1120	0	152	
Grp Sat Flow(s),veh/h/l		1915	1992	1386	1915	1463	1753	1675	1454	1673	0	1752	
Q Serve(g_s), s	1.1	13.4	13.5	27.0	73.7	35.8	1.1	2.6	22.7	44.6	0.0	9.8	
Cycle Q Clear(g_c), s	1.1	13.4	13.5	27.0	73.7	35.8	1.1	2.6	22.7	44.6	0.0	9.8	
Prop In Lane	1.00		0.05	1.00		1.00	1.00		1.00	1.00		0.14	
Lane Grp Cap(c), veh/h		443	460	603	1568	599	16	959	278	829	0	752	
V/C Ratio(X)	0.17	0.47	0.47	0.76	1.17	1.07	0.67	0.09	1.10	1.35	0.00	0.20	
Avail Cap(c_a), veh/h	131	443	460	603	1568	599	56	1061	307	829	0	752	
HCM Platoon Ratio	2.00	2.00	2.00	1.33	1.33	1.33	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	0.99	0.99	0.99	0.09	0.09	0.09	1.00	1.00	1.00	1.00	0.00	1.00	
Uniform Delay (d), s/ve	h 80.1	40.8	40.8	59.7	41.0	9.7	88.9	60.0	31.9	67.7	0.0	32.1	
Incr Delay (d2), s/veh	0.2	3.5	3.4	0.5	77.8	35.4	15.9	0.1	81.5	165.8	0.0	0.2	
Initial Q Delay(d3),s/vel	h 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),vel		5.9	6.2	9.1	48.5	14.6	0.6	1.1	14.3	38.0	0.0	4.2	
Unsig. Movement Delay		1											
LnGrp Delay(d),s/veh	80.3	44.3	44.2	60.1	118.8	45.0	104.8	60.0	113.4	233.5	0.0	32.3	
LnGrp LOS	F	D	D	E	F	F	F	E	F	F	A	С	
Approach Vol, veh/h		446			2935			402			1272	-	
Approach Delay, s/veh		46.0			93.6			101.6			209.5		
Approach LOS		40.0 D			95.0 F			101.0 F			209.5 F		
Timer - Assigned Phs	1	2	3	4	5	6	7	8					
Phs Duration (G+Y+Rc		47.4	6.1	83.0	11.5	79.4	49.0	40.1					
Change Period (Y+Rc),		5.8	4.4	5.7	4.4	5.7	4.4	* 5.7					
Max Green Setting (Gr		41.6	5.7	76.4	4.0	73.7	44.6	* 38					
Max Q Clear Time (g_c		15.5	3.1	11.8	3.1	75.7	46.6	24.7					
Green Ext Time (p_c),	s 0.6	4.9	0.0	1.4	0.0	0.0	0.0	2.3					
Intersection Summary													
HCM 6th Ctrl Delay			119.2										
HCM 6th LOS			F										
Notes													

notes

	۲	→	7	1	+	*	1	t	1	4	ţ	1	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	۲	^	1	٦	≜ î∌		7	Þ		1	1	1	
Traffic Volume (veh/h)	180	1040	100	10	3020	10	140	10	10	10	10	240	
Future Volume (veh/h)	180	1040	100	10	3020	10	140	10	10	10	10	240	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		0.89	1.00		0.89	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac	ch	No			No			No			No		
Adj Sat Flow, veh/h/ln	1500	2016	1781	1811	2049	1811	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	196	1130	109	11	3283	11	209	15	15	16	16	375	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.67	0.67	0.67	0.64	0.64	0.64	
Percent Heavy Veh, %	8	8	8	6	6	6	2	2	2	2	2	2	
Cap, veh/h	116	2207	859	47	2099	7	125	156	156	163	404	304	
Arrive On Green	0.08	0.58	0.58	0.04	0.70	0.70	0.07	0.19	0.19	0.09	0.22	0.22	
Sat Flow, veh/h	1429	3830	1491	1725	3980	13	1781	802	802	1781	1870	1410	
Grp Volume(v), veh/h	196	1130	109	11	1605	1689	209	0	30	16	16	375	
Grp Sat Flow(s), veh/h/l		1915	1491	1725	1947	2047	1781	0	1604	1781	1870	1410	
Q Serve(g_s), s	14.6	31.9	6.0	1.1	94.9	94.9	12.6	0.0	2.8	1.5	1.2	32.3	
Cycle Q Clear(g_c), s	14.6	31.9	6.0	1.1	94.9	94.9	12.6	0.0	2.8	1.5	1.2	32.3	
Prop In Lane	1.00	01.0	1.00	1.00	01.0	0.01	1.00	0.0	0.50	1.00		1.00	
Lane Grp Cap(c), veh/h		2207	859	47	1027	1080	125	0	312	163	404	304	
V/C Ratio(X)	1.69	0.51	0.13	0.23	1.56	1.56	1.68	0.00	0.10	0.10	0.04	1.23	
Avail Cap(c_a), veh/h	116	2207	859	55	1027	1080	125	0	407	163	405	306	
HCM Platoon Ratio	1.00	1.00	1.00	1.33	1.33	1.33	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	0.10	0.10	0.10	0.09	0.09	0.09	1.00	0.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/vel		22.9	17.4	84.9	26.9	26.9	83.7	0.0	59.5	74.9	55.8	48.7	
Incr Delay (d2), s/veh		0.1	0.0	0.1	253.7	254.5	336.6	0.0	0.0	0.1	0.0	129.5	
Initial Q Delay(d3),s/vel		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),vel		14.3	2.2	0.5	108.4	114.3	17.5	0.0	1.1	0.7	0.6	22.5	
Unsig. Movement Delay													
LnGrp Delay(d),s/veh		23.0	17.5	85.0	280.5	281.4	420.3	0.0	59.6	75.0	55.8	178.2	
LnGrp LOS	F	C	В	F	F	F	F	A	E	E	E	F	
Approach Vol, veh/h		1435			3305			239			407		
Approach Delay, s/veh		73.8			280.3			375.0			169.3		
Approach LOS		E			E00.0			F			F		
Timer - Assigned Phs	1	2	3	4	5	6	7	. 8					
Phs Duration (G+Y+Rc	1 10 2		17.0	43.8	19.0		20.9	39.9					
Change Period (Y+Rc),		* 5.3	4.4	43.0 4.9	4.4	5.3	20.9 4.4	39.9 4.9					
Max Green Setting (Gr		* 1E2	4.4	4.9 39.0	4.4	94.8	4.4 5.9	4.9 45.7					
Max Q Clear Time (g_c		33.9	12.0	39.0 34.3	14.6	94.0 96.9	5.9 3.5	45.7					
Green Ext Time (p c), s		20.1	0.0	0.5	0.0	96.9	3.5 0.0	4.0 0.1					
u = //	5 0.0	20.1	0.0	0.5	0.0	0.0	0.0	0.1					
Intersection Summary			004.4										
HCM 6th Ctrl Delay			221.1										
HCM 6th LOS			F										
Notos													

	٠	-	7	1	•	*	1	t	1	4	ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	à	≜ t}		A	≜ †₽		٦	4		٦	4	1	
Traffic Volume (veh/h)	20	1060	10	70	2410	50	70	100	130	340	140	40	
Future Volume (veh/h)	20	1060	10	70	2410	50	70	100	130	340	140	40	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	U	0.97	1.00	U	0.97	1.00	U	0.99	1.00	U	0.98	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No	1.00	1.00	No	1.00	1.00	No	1.00	1.00	No	1.00	
Adj Sat Flow, veh/h/ln	1811	2049	1811	1811	2049	1811	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	22	1152	11	76	2620	54	91	130	169	296	346	49	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.77	0.77	0.77	0.81	0.81	0.81	
Percent Heavy Veh, %	6	6	6	6	6	6	2	2	2	2	2	2	
Cap, veh/h	27	1692	16	163	1997	41	298	123	160	351	368	306	
Arrive On Green	0.03	0.86	0.86	0.19	1.00	1.00	0.17	0.17	0.17	0.20	0.20	0.20	
Sat Flow, veh/h	1725	3950	38	1725	3899	80	1781	736	956	1781	1870	1555	
	22	568	595	76	1303	1371	91	0	299	296	346	49	
Grp Volume(v), veh/h			2041				1781		1692	290 1781	1870	49 1555	
Grp Sat Flow(s),veh/h/l		1947		1725	1947	2032		0					
Q Serve(g_s), s	2.3	18.0	18.1	7.0	92.2	92.2	8.1	0.0	30.1	28.8	32.8	4.7	
Cycle Q Clear(g_c), s	2.3	18.0	18.1	7.0	92.2	92.2	8.1	0.0	30.1	28.8	32.8	4.7	
Prop In Lane	1.00	024	0.02	1.00	007	0.04	1.00	٥	0.57	1.00	200	1.00	
Lane Grp Cap(c), veh/h		834	874	163	997	1041	298	0	283	351	368	306	
V/C Ratio(X)	0.80	0.68	0.68	0.46	1.31	1.32	0.31	0.00	1.06	0.84	0.94	0.16	
Avail Cap(c_a), veh/h	41	834	874	163	997	1041	298	0	283	367	386	321	
HCM Platoon Ratio	2.00	2.00	2.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	0.87	0.87	0.87	0.09	0.09	0.09	1.00	0.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/ve		8.7	8.7	68.9	0.0	0.0	65.8	0.0	75.0	69.6	71.2	59.9	
Incr Delay (d2), s/veh	25.9	3.9	3.7	0.1	138.5	143.4	0.2	0.0	69.2	14.8	29.6	0.1	
Initial Q Delay(d3),s/vel		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),ve		4.8	5.0	3.0	38.4	41.5	3.8	0.0	18.7	14.8	18.9	1.9	
Unsig. Movement Delay			40.4	00.0	400 -	440.4	00.0	<u> </u>	444.0	04.4	400.0	00.0	
LnGrp Delay(d),s/veh		12.6	12.4	69.0	138.5	143.4	66.0	0.0	144.2	84.4	100.8	60.0	
LnGrp LOS	F	B	В	E	F	F	E	A	F	F	F	E	
Approach Vol, veh/h		1185			2750			390			691		
Approach Delay, s/veh		14.3			139.0			125.9			90.9		
Approach LOS		В			F			F			F		
Timer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Rc). 82.3	82.4		40.3	7.3	97.4		35.0					
Change Period (Y+Rc)		* 5.3		4.9	4.4	5.2		4.9					
Max Green Setting (Gr		* 77		37.1	4.3	89.1		30.1					
Max Q Clear Time (g c		20.1		34.8	4.3	94.2		32.1					
Green Ext Time (p_c),		10.5		0.6	0.0	0.0		0.0					
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				2.0	2.0	2.0							
Intersection Summary			101.0										
HCM 6th Ctrl Delay			101.9										
HCM 6th LOS			F										
Notes													

User approved volume balancing among the lanes for turning movement.

User approved ignoring U-Turning movement.

Movement    EBL    EBR    WBL    WBL    NBL    NBT    NBR    SBL    SBT    SBR      Lane Configurations    A    PL    A    PL    A    PL    A    PL    A    PL    A    PL    <		۶	-	7	-	+	*	1	t	1	4	Ļ	~	
Traffic Volume (veh/h)  20  1330  100  20  2250  20  240  30  50  10  20  30    Future Volume (veh/h)  20  1330  100  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0	Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Traffic Volume (veh/h)  20  1330  100  20  2250  20  240  30  50  10  20  30    Future Volume (veh/h)  20  1330  100  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0	Lane Configurations	3	<b>≜</b> ₽		3	<b>≜</b> ₽			é.	1		4		
Future Volume (veh/h)  20  1330  100  200  2250  220  240  30  50  10  20  30    Initial Q (Qb), veh  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0	-			100			20	240			10		30	
Initial Q(b), veh    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0														
Ped-Bike Adj(A_pbT)  1.00  0.98  1.00  0.98  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00	( )									0	0		0	
Parking Bus, Adj  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.0		1.00			1.00					0.98	1.00			
Work Žone On Ápproach    No    No    No    No    No      Adj Sat Flow, vehn/h    1811    2049    1811    1870    1870    1796    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1870    1	,		1.00			1.00			1.00		1.00	1.00	1.00	
Adj Sat Flow, veh/h/in  1811  2049  1811  1870  1796  1870  1870  1870    Adj Flow Rate, veh/h  22  144  109  22  2446  22  348  43  72  12  25  37    Perkek Hour Factor  0.9  0.9  0.9  0.80  0.81  0.81  0.81    Percent Heavy Veh, %  6  6  6  6  6  6  2.92  0.92  0.81  0.81  0.81    Arrive Cn Green  0.04  1.00  0.00  0.10  0.02  2.90  2.90  2.90  2.90  2.90  2.90  2.90  2.90  2.90  2.90  2.90  2.90  2.90  2.90  2.90  2.90  2.90  2.90  2.90  2.90  2.90  2.90  2.90  2.90  2.90  2.90  2.90  2.90  2.90  2.90  2.90  2.90  2.90  2.90  2.90  2.90  2.90  2.90  2.90  2.90  2.90  2.90  2.90  2.90  2.90  2.90  2.90  2.90	<b>.</b>	ch	No			No			No			No		
Adj Flow Rate, veh/h  22  1446  109  22  2446  22  348  43  72  12  25  37    Peak Hour Factor  0.92  0.92  0.92  0.99  0.69  0.69  0.69  0.81  0.81  0.81    Percent Heavy Veh,%  6  6  6  6  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2				1811	1811	2049	1811	1870		1796	1870	1870	1870	
Peak Hour Factor  0.92  0.92  0.92  0.92  0.92  0.69  0.69  0.69  0.69  0.81  0.81  0.81    Percent Heavy Veh, %  6  6  6  6  6  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2 <td></td>														
Percent Heavy Veh, %  6  6  6  6  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2													0.81	
Cap, veh/h  34  2209  166  38  2381  21  132  12  441  23  49  49    Arrive On Green  0.04  1.00  1.00  0.04  1.00  1.00  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.20  0.0  0.3  0.0  0.23  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0														
Arrive On Green  0.04  1.00  1.00  1.00  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.29  0.20  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0			2209		38	2381								
Sat Flow, veh/h  1725  3664  275  1725  3953  35  320  40  1496  0  165  165    Grp Volume(v), veh/h  12  765  790  22  1202  1266  391  0  72  74  0  0    Grp Sat Flow(s), veh/h/In1725  1947  1992  1725  1947  2042  360  0  1496  330  0  0    Q Serve(g, s), s  2.3  0.0  0.0  2.3  0.0  97.0  0.0  0.4  53.1  0.0  0.0  0.0    Cycle Q Clear(g, c), s  2.3  0.0  0.0  2.3  10.0  97.0  53.1  0.0  64.4  53.1  0.0  0.0    Cycle Q Clear(g, c), veh/h  41  117  1201  38  1172  1230  144  0  411  121  0  0    V/C Ratio(X)  0.64  0.65  0.66  0.57  1.03  1.03  2.72  0.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00<														
Grp Volume(v), veh/h  22  765  790  22  1202  1266  391  0  72  74  0  0    Grp Sat Flow(s), veh/h/In1725  1947  1992  1725  1947  2042  360  0  1496  330  0  0    Q Serve(g_s), s  2.3  0.0  0.2  3.0  97.0  63.1  0.0  6.4  5.1  0.0  0.6  4.53.1  0.0  0.0    Cycle Q Clear(g_c), s  2.3  0.0  0.14  1.00  0.02  0.89  1.00  0.16  0.50    Lane Grp Cap(c), veh/h  34  1174  121  38  1172  1230  144  0  441  121  0  0    V/C Ratio(X)  0.64  0.65  0.66  0.57  1.03  1.03  2.72  0.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00														
Grp Sat Flow(s),veh/h/ln1725  1947  1992  1725  1947  2042  360  0  1496  330  0  0    Q Serve(g_s), s  2.3  0.0  0.0  2.3  0.0  97.0  0.0  0.0  6.4  0.0  0.0  0.0    Cycle Q Clear(g_c), s  2.3  0.0  0.0  2.3  0.0  97.0  53.1  0.0  6.4  53.1  0.0  0.0    Prop In Lane  1.00  0.14  1.00  0.02  0.89  1.00  0.16  0.50    Lane Grp Cap(c), veh/h  34  1174  1201  65  1172  1230  144  0  441  121  0  0    V/C Ratio(X)  0.64  0.65  0.66  0.57  1.03  1.03  2.72  0.00  0.16  0.61  0.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  0.00  0.0  0.0  0.0  0.0  0.0 </td <td></td>														
Q Šerve(g_s), s  2.3  0.0  0.0  2.3  0.0  97.0  0.0  0.0  6.4  0.0  0.0  0.0    Cycle Q Clear(g_c), s  2.3  0.0  0.0  2.3  0.0  97.0  53.1  0.0  6.4  53.1  0.0  0.0    Prop In Lane  1.00  0.14  1.00  0.02  0.89  1.00  0.16  0.50    Lane Grp Cap(c), veh/h  34  1174  1201  138  1172  1230  144  0  441  121  0  0    V/C Ratio(X)  0.64  0.65  0.66  0.57  1.03  1.03  2.72  0.00  0.16  0.61  0.00  0.00    Avail Cap(c_a), evh/h  41  1174  1201  65  1172  1230  144  0  441  121  0  0    Upstream Filter(I)  0.61  0.61  0.67  0.57  1.00  1.00  1.00  1.00  1.00  1.00  0.00  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0 <td></td>														
Cycle Q Clear(g_c), s  2.3  0.0  0.0  2.3  0.0  97.0  53.1  0.0  6.4  53.1  0.0  0.0    Prop In Lane  1.00  0.14  1.00  0.02  0.89  1.00  0.16  0.50    Lane Grp Cap(c), veh/h  34  1174  1201  38  1172  1230  144  0  441  121  0  0    V/C Ratio(X)  0.64  0.65  0.66  0.57  1.03  1.02  1.22  0.00  0.16  0.61  0.00  0.00    Avail Cap(c_a), veh/h  41  1174  1201  65  1172  1230  144  0  441  121  0  0    HCM Platoon Ratio  2.00  2.00  2.00  2.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00														
Prop In Lane  1.00  0.14  1.00  0.02  0.89  1.00  0.16  0.50    Lane Grp Cap(c), veh/h  34  1174  1201  38  1172  1230  144  0  441  121  0  0    V/C Ratic(X)  0.64  0.65  0.66  0.57  1.03  1.03  2.72  0.00  0.16  0.61  0.00  0.00    Avail Cap(c_a), veh/h  41  1174  1201  65  1172  1230  144  0  441  121  0  0    HCM Platoon Ratio  2.00  2.00  2.00  2.00  1.00  1.00  1.00  1.00  1.00  1.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00 <td></td>														
Lane Grp Cap(c), veh/h  34  1174  120  38  1172  1230  144  0  441  121  0  0    V/C Ratio(X)  0.64  0.65  0.66  0.57  1.03  1.03  2.72  0.00  0.16  0.61  0.00  0.00    Avail Cap(c_a), veh/h  41  1174  1201  65  1172  1230  144  0  441  121  0  0    HCM Platoon Ratio  2.00  2.00  2.00  2.00  2.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00			0.0			0.0			0.0			0.0		
V/C Ratio(X)  0.64  0.65  0.66  0.57  1.03  1.03  2.72  0.00  0.16  0.61  0.00  0.00    Avail Cap(c_a), veh/h  41  1174  1201  65  1172  1230  144  0  441  121  0  0    HCM Platoon Ratio  2.00  2.00  2.00  2.00  2.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00			1174			1172			0			0		
Avail Cap(c a), veh/h  41  1174  1201  65  1172  1230  144  0  441  121  0  0    HCM Platoon Ratio  2.00  2.00  2.00  2.00  2.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.														
HCM Platoon Ratio  2.00  2.00  2.00  2.00  2.00  1.00  1.00  1.00  1.00  1.00  1.00    Upstream Filter(I)  0.61  0.61  0.61  0.57  0.57  0.57  1.00  0.00  1.00  1.00  0.00  0.00    Uniform Delay (d), s/veh 85.8  0.0  0.0  85.2  0.0  0.0  70.4  0.0  47.0  51.9  0.0  0.0    Incr Delay (d2), s/veh  7.6  1.7  1.7  2.8  26.6  27.3  791.1  0.0  0.1  6.6  0.0  0.0    Intrial Q Delay(d3), s/veh  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0 <td>( )</td> <td></td>	( )													
Upstream Filter(I)  0.61  0.61  0.61  0.57  0.57  1.00  0.00  1.00  0.00  0.00    Uniform Delay (d), s/veh 85.8  0.0  0.0  85.2  0.0  0.0  70.4  0.0  47.0  51.9  0.0  0.0    Incr Delay (d2), s/veh  7.6  1.7  1.7  2.8  26.6  27.3  791.1  0.0  0.1  6.6  0.0  0.0    Initial Q Delay(d3), s/veh  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0														
Uniform Delay (d), s/veh 85.8  0.0  0.0  85.2  0.0  0.0  70.4  0.0  47.0  51.9  0.0  0.0    Incr Delay (d2), s/veh  7.6  1.7  1.7  2.8  26.6  27.3  791.1  0.0  0.1  6.6  0.0  0.0    Initial Q Delay(d3), s/veh  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0														
Incr Delay (d2), s/veh  7.6  1.7  1.7  2.8  26.6  27.3  791.1  0.0  0.1  6.6  0.0  0.0    Initial Q Delay(d3),s/veh  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0	•													
Initial Q Delay(d3),s/veh 0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0														
%ile BackOfQ(50%),veh/In1.1  0.6  0.6  1.0  8.7  9.3  38.5  0.0  2.5  2.7  0.0  0.0    Unsig. Movement Delay, s/veh  1.7  1.7  88.0  26.6  27.3  861.5  0.0  47.1  58.4  0.0  0.0    LnGrp LOS  F  A  A  F  F  F  A  D  E  A    Approach Vol, veh/h  1577  2490  463  74    Approach Delay, s/veh  3.0  27.5  734.8  58.4    Approach LOS  A  C  F  E  E    Timer - Assigned Phs  1  2  4  5  6  8    Phs Duration (G+Y+Rc), s8.4  113.6  58.0  8.7  113.3  58.0  Change Period (Y+Rc), s 4.4  5.1  4.9  4.9    Max Green Setting (Gmax% 8  105.7  53.1  4.3  99.0  55.1  55.1  Green Ext Time (p_c), s 0.0  23.7  0.0  0.0  9.1  0.0    Intersection Summary  HCM 6th Ctrl Delay  90.8  90.8  9	• • • •													
Unsig. Movement Delay, s/veh    LnGrp Delay(d),s/veh  93.4  1.7  1.7  88.0  26.6  27.3  861.5  0.0  47.1  58.4  0.0  0.0    LnGrp LOS  F  A  F  F  F  A  D  E  A  A    Approach Vol, veh/h  1577  2490  463  74    Approach Delay, s/veh  3.0  27.5  734.8  58.4    Approach LOS  A  C  F  E    Timer - Assigned Phs  1  2  4  5  6  8    Phs Duration (G+Y+Rc), s8.4  113.6  58.0  8.7  113.3  58.0  58.1    Change Period (Y+Rc), s 4.4  5.1  4.9  5.1  *4.9  4.9  4.9    Max Green Setting (Gmax <b>6</b> , <b>8</b> 105.7  53.1  4.3*  11.1E2  53.1  55.1    Green Ext Time (p_c), s  0.0  23.7  0.0  0.0  9.1  0.0    Intersection Summary  HCM 6th Ctrl Delay  90.8  90.8  90.8  90.8														
LnGrp Delay(d),s/veh  93.4  1.7  1.7  88.0  26.6  27.3  861.5  0.0  47.1  58.4  0.0  0.0    LnGrp LOS  F  A  F  F  F  F  A  D  E  A  A    Approach Vol, veh/h  1577  2490  463  74    Approach Delay, s/veh  3.0  27.5  734.8  58.4    Approach LOS  A  C  F  E    Timer - Assigned Phs  1  2  4  5  6  8    Phs Duration (G+Y+Rc), s8.4  113.6  58.0  8.7  113.3  58.0  Change Period (Y+Rc), s 4.4  5.1  4.9  5.1  *4.9  4.9    Max Green Setting (Gmax\$, 8  105.7  53.1  4.3* 1.1E2  53.1  55.1  Green Ext Time (p_c), s 0.0  23.7  0.0  0.0  9.1  0.0    Intersection Summary  HCM 6th Ctrl Delay  90.8  90.8  90.8  90.8  90.8	. ,													
LnGrp LOS    F    A    A    F    F    F    A    D    E    A    A      Approach Vol, veh/h    1577    2490    463    74      Approach Delay, s/veh    3.0    27.5    734.8    58.4      Approach LOS    A    C    F    E      Timer - Assigned Phs    1    2    4    5    6    8      Phs Duration (G+Y+Rc), s8.4    113.6    58.0    8.7    113.3    58.0    58.1    14.9    5.1    *4.9    4.9    Max Green Setting (Gmax §.8    105.7    53.1    4.3* 1.1E2    53.1    55.1    Green Ext Time (g_c+I14).3    2.0    55.1    4.3    99.0    55.1    Green Ext Time (p_c), s    0.0    23.7    0.0    0.0    9.1    0.0      Intersection Summary    HCM 6th Ctrl Delay    90.8    90.8    90.8    90.8    90.8	· ·			1.7	88.0	26.6	27.3	861.5	0.0	47.1	58.4	0.0	0.0	
Approach Vol, veh/h  1577  2490  463  74    Approach Delay, s/veh  3.0  27.5  734.8  58.4    Approach LOS  A  C  F  E    Timer - Assigned Phs  1  2  4  5  6  8    Phs Duration (G+Y+Rc), s8.4  113.6  58.0  8.7  113.3  58.0    Change Period (Y+Rc), s 4.4  5.1  4.9  5.1  *4.9  4.9    Max Green Setting (Gmax\$,\$\$ 105.7  53.1  4.3* 1.1E2  53.1  55.1    Max Q Clear Time (g_c+114),\$\$ 2.0  55.1  4.3  99.0  55.1    Green Ext Time (p_c), \$ 0.0  23.7  0.0  0.0  9.1  0.0    Intersection Summary  90.8  90.8  90.8  90.8  90.8														
Approach Delay, s/veh  3.0  27.5  734.8  58.4    Approach LOS  A  C  F  E    Timer - Assigned Phs  1  2  4  5  6  8    Phs Duration (G+Y+Rc), s8.4  113.6  58.0  8.7  113.3  58.0    Change Period (Y+Rc), s 4.4  5.1  4.9  5.1  * 4.9  4.9    Max Green Setting (Gmax® 8  105.7  53.1  4.3*  1.1E2  53.1    Max Q Clear Time (g_c+I14), 3s  2.0  55.1  4.3  99.0  55.1    Green Ext Time (p_c), s  0.0  23.7  0.0  0.0  9.1  0.0    Intersection Summary  HCM 6th Ctrl Delay  90.8  90.8  90.8						2490								
Approach LOS  A  C  F  E    Timer - Assigned Phs  1  2  4  5  6  8    Phs Duration (G+Y+Rc), s8.4  113.6  58.0  8.7  113.3  58.0    Change Period (Y+Rc), s 4.4  5.1  4.9  5.1  *4.9  4.9    Max Green Setting (Gmax©.8  105.7  53.1  4.3*1.1E2  53.1    Max Q Clear Time (g_c+I14), 3s  2.0  55.1  4.3  99.0  55.1    Green Ext Time (p_c), s  0.0  23.7  0.0  0.0  9.1  0.0    Intersection Summary  HCM 6th Ctrl Delay  90.8  90.8  90.8  90.8														
Timer - Assigned Phs  1  2  4  5  6  8    Phs Duration (G+Y+Rc), s8.4  113.6  58.0  8.7  113.3  58.0    Change Period (Y+Rc), s 4.4  5.1  4.9  5.1  *4.9  4.9    Max Green Setting (Gmax) 8  105.7  53.1  4.3*  1.1E2  53.1    Max Q Clear Time (g_c+14), 3  2.0  55.1  4.3  99.0  55.1    Green Ext Time (p_c), s  0.0  23.7  0.0  0.0  9.1  0.0    Intersection Summary  HCM 6th Ctrl Delay  90.8  90.8  90.8  90.8														
Phs Duration (G+Y+Rc), s8.4  113.6  58.0  8.7  113.3  58.0    Change Period (Y+Rc), s  4.4  5.1  4.9  5.1  * 4.9    Max Green Setting (Gmax) 8  105.7  53.1  4.3*  1.1E2  53.1    Max Q Clear Time (g_c+I14), 3s  2.0  55.1  4.3  99.0  55.1    Green Ext Time (p_c), s  0.0  23.7  0.0  0.0  9.1  0.0    Intersection Summary  HCM 6th Ctrl Delay  90.8  90.8  90.8  90.8		1			4	5	6		8					
Change Period (Y+Rc), s 4.4  5.1  4.9  5.1  * 4.9  4.9    Max Green Setting (Gmax) 8  105.7  53.1  4.3* 1.1E2  53.1    Max Q Clear Time (g_c+114), 3s  2.0  55.1  4.3  99.0    Green Ext Time (p_c), s  0.0  23.7  0.0  0.0  9.1    Intersection Summary  HCM 6th Ctrl Delay  90.8  90.8	¥	) \$8.4												
Max Green Setting (Gmax\$, \$ 105.7  53.1  4.3* 1.1E2  53.1    Max Q Clear Time (g_c+114), \$ 2.0  55.1  4.3  99.0  55.1    Green Ext Time (p_c), \$ 0.0  23.7  0.0  0.0  9.1  0.0    Intersection Summary  90.8  90.8  90.8  90.8														
Max Q Clear Time (g_c+11),3s    2.0    55.1    4.3    99.0    55.1      Green Ext Time (p_c), s    0.0    23.7    0.0    0.0    9.1    0.0      Intersection Summary    90.8    90.8    90.8    90.8    90.8														
Green Ext Time (p_c), s    0.0    23.7    0.0    0.0    9.1    0.0      Intersection Summary    HCM 6th Ctrl Delay    90.8    90.8    90.8    90.8	<b>U</b> (													
HCM 6th Ctrl Delay 90.8														
HCM 6th Ctrl Delay 90.8	Intersection Summary													
				90.8										
HCM 6th LOS F	HCM 6th LOS			50.0 F										
Notes				·										

	٠	<b>→</b>	7	1	+	*	1	t	1	4	ţ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	24	<b>≜</b> ↑₽		24	<b>1</b>			ŧ	1		ŧ	1	
Traffic Volume (veh/h)	30	1120	10	30	1810	150	10	20	20	140	20	20	
Future Volume (veh/h)	30	1120	10	30	1810	150	10	20	20	140	20	20	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.97	1.00		0.98	1.00		0.99	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac	h	No			No			No			No		
Adj Sat Flow, veh/h/ln	1811	2049	1811	1525	2049	1811	1870	1870	1796	1870	1870	1796	
Adj Flow Rate, veh/h	33	1217	11	33	1967	163	11	23	23	147	21	21	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.87	0.87	0.87	0.95	0.95	0.95	
Percent Heavy Veh, %	6	6	6	6	6	6	2	2	2	2	2	2	
Cap, veh/h	92	2699	24	39	2374	193	26	43	314	38	0	319	
Arrive On Green	0.11	1.00	1.00	0.05	1.00	1.00	0.21	0.21	0.21	0.21	0.21	0.21	
Sat Flow, veh/h	1725	3953	36	1452	3637	296	0	206	1493	0	0	1513	
Grp Volume(v), veh/h	33	599	629	33	1038	1092	34	0	23	168	0	21	_
Grp Sat Flow(s), veh/h/lr		1947	2042	1452	1947	1986	206	0	1493	0	0	1513	
Q Serve(g_s), s	3.2	0.0	0.0	4.1	0.0	0.0	0.0	0.0	2.2	0.0	0.0	2.0	
Cycle Q Clear(g_c), s	3.2	0.0	0.0	4.1	0.0	0.0	37.9	0.0	2.2	37.9	0.0	2.0	
Prop In Lane	1.00	0.0	0.02	1.00	0.0	0.0	0.32	0.0	1.00	0.87	0.0	1.00	
Lane Grp Cap(c), veh/h		1329	1394	39	1271	1297	0.32 70	0	314	38	0	319	
V/C Ratio(X)	0.36	0.45	0.45	0.84	0.82	0.84	0.49	0.00	0.07	4.48	0.00	0.07	
Avail Cap(c_a), veh/h	98	1329	1394	90	1271	1297	0.49 70	0.00	314	4.40	0.00	319	
HCM Platoon Ratio	2.00	2.00	2.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	
	0.72	0.72	0.72	0.19	0.19	0.19	1.00	0.00	1.00	1.00	0.00	1.00	
Upstream Filter(I)							60.3		57.0	90.0		56.9	
Uniform Delay (d), s/vel		0.0	0.0	84.7	0.0 1.2	0.0		0.0			0.0		
Incr Delay (d2), s/veh	0.6	0.8	0.8	3.4		1.4	1.9	0.0		625.5	0.0	0.0	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh		0.3	0.3	1.5	0.4	0.5	1.3	0.0	0.9	18.7	0.0	0.8	
Unsig. Movement Delay			0.0	00.4	1.0	1 1	60.0	0.0	E7 0 4	715 5	0.0	FC 0	
LnGrp Delay(d),s/veh	78.2	0.8	0.8	88.1	1.2	1.4	62.2	0.0	57.01		0.0	56.9	
LnGrp LOS	E	A	A	F	A	A	E	A	E	F	A	E	_
Approach Vol, veh/h		1261			2163			57			189		
Approach Delay, s/veh		2.8			2.6			60.1			1531.2		
Approach LOS		А			А			E			F		
Timer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Rc)	, s9.3	127.9		42.8	14.6	122.6		42.8					
Change Period (Y+Rc),		5.0		4.9	5.0	* 5.1		4.9					
Max Green Setting (Gm	a <b>x1</b> ,.8	116.6		37.9	10.2*	1.2E2		37.9					
Max Q Clear Time (g_c		2.0		39.9	5.2	2.0		39.9					
Green Ext Time (p_c), s		26.0		0.0	0.0	92.7		0.0					
Intersection Summary													
HCM 6th Ctrl Delay			82.3										
HCM 6th LOS			02.5 F										
			'										
Notes													

	۶	<b>→</b>	7	1	+	•	1	t	1	4	ŧ	4	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	<u>ሕ</u> ካ	<b>^</b>	1	ሕካ	<b>^</b>	1	ሻሻ	<b>^</b>	1	ኘካ	<b>†</b> †	1	
Traffic Volume (veh/h)	100	990	240	440	1470	90	310	420	300	400	1220	210	
Future Volume (veh/h)	100	990	240	440	1470	90	310	420	300	400	1220	210	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	Ū	0.98	1.00	v	0.98	1.00	Ū	0.99	1.00	Ū	0.98	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approa		No	1.00	1.00	No	1.00	1.00	No	1.00	1.00	No	1.00	
Adj Sat Flow, veh/h/ln	1525	2049	1811	1575	2116	1870	1856	1856	1856	1856	1856	1856	
Adj Flow Rate, veh/h	1020	1076	261	478	1598	98	337	457	326	435	1326	228	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	
Percent Heavy Veh, %	6	6	6	2	2	2	3	3	3	3	3	3	
Cap, veh/h	116	1032	552	751	1958	1109	347	819	362	764	1273	557	
Arrive On Green	0.01	0.09	0.09	0.26	0.49	0.49	0.03	0.08	0.08	0.45	0.72	0.72	
Sat Flow, veh/h	2818	3894	1498	2910	4021	1554	3428	3526	1560	3428	3526	1541	
Grp Volume(v), veh/h	109	1076	261	478	1598	98	337	457	326	435	1326	228	
Grp Sat Flow(s),veh/h/l		1947	1498	1455	2011	1554	1714	1763	1560	1714	1763	1541	
Q Serve(g_s), s	7.0	47.7	16.3	26.3	60.9	0.8	17.7	22.5	37.3	17.0	65.0	10.5	
Cycle Q Clear(g_c), s	7.0	47.7	16.3	26.3	60.9	0.8	17.7	22.5	37.3	17.0	65.0	10.5	
Prop In Lane	1.00	(	1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Lane Grp Cap(c), veh/h		1032	552	751	1958	1109	347	819	362	764	1273	557	
V/C Ratio(X)	0.94	1.04	0.47	0.64	0.82	0.09	0.97	0.56	0.90	0.57	1.04	0.41	
Avail Cap(c_a), veh/h	116	1032	552	751	1958	1109	347	985	436	764	1273	557	
HCM Platoon Ratio	0.33	0.33	0.33	1.00	1.00	1.00	0.33	0.33	0.33	2.00	2.00	2.00	
Upstream Filter(I)	0.91	0.91	0.91	0.74	0.74	0.74	0.92	0.92	0.92	0.68	0.68	0.68	
Uniform Delay (d), s/ve		82.1	33.0	59.3	39.3	7.1	86.7	74.2	81.0	43.5	25.0	17.4	
Incr Delay (d2), s/veh	61.0	38.6	2.6	1.0	2.9	0.1	38.7	0.4	17.1	0.4	32.5	0.3	
Initial Q Delay(d3),s/ve		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),ve	h/In3.6	30.7	6.9	9.8	30.7	1.1	10.1	10.8	17.5	6.3	23.3	3.1	
Unsig. Movement Dela	y, s/veh	1											
LnGrp Delay(d),s/veh	149.5	120.7	35.6	60.3	42.3	7.2	125.5	74.6	98.1	43.9	57.5	17.7	
LnGrp LOS	F	F	D	Е	D	А	F	Е	F	D	F	В	
Approach Vol, veh/h		1446			2174			1120			1989		
Approach Delay, s/veh		107.5			44.6			96.7			50.0		
Approach LOS		F			D			F			D		
Timer - Assigned Phs	1	2	3	4	5	6	7	8					
Phs Duration (G+Y+Rc	) 516	53.0	22.6	71.0	11.8	92.8	46.1	47.5					
Change Period (Y+Rc)		53.0 * 5.3	22.0 4.4	6.0	4.4	92.8 5.1	46.1 6.0	47.5 * 5.7					
Max Green Setting (Gn		* 48	4.4	65.0		5.1 69.5	6.0 33.2	* 50					
					7.4								
Max Q Clear Time (g_c		49.7	19.7	67.0	9.0	62.9	19.0	39.3					
Green Ext Time (p_c),	s 0.1	0.0	0.0	0.0	0.0	6.0	0.7	2.5					
Intersection Summary													
HCM 6th Ctrl Delay			68.4										
HCM 6th LOS			E										
Notes													

	۶	-	7	-	←	•	1	t	1	1	ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ልካ	tttp-		ልካ	<b>†</b> ††	1	<u>ሕ</u> ካ	<b>≜</b> †}	1	ካካካ	<b>†</b>	1	
Traffic Volume (veh/h)	70	1550	80	1530	1820	310	80	190	870	880	540	90	
Future Volume (veh/h)	70	1550	80	1530	1820	310	80	190	870	880	540	90	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		0.98	1.00		0.98	1.00		0.95	1.00		0.97	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No			No			No			No		
Adj Sat Flow, veh/h/ln	1575	2116	1870	1563	2100	1856	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	71	1582	82	1594	1896	323	91	216	989	936	574	96	
Peak Hour Factor	0.98	0.98	0.98	0.96	0.96	0.96	0.88	0.88	0.88	0.94	0.94	0.94	
Percent Heavy Veh, %	2	2	2	3	3	3	2	2	2	2	2	2	
Cap, veh/h	176	1351	70	1132	2971	1050	111	288	463	798	527	434	
Arrive On Green	0.12	0.38	0.38	0.26	0.35	0.35	0.03	0.15	0.15	0.16	0.28	0.28	
Sat Flow, veh/h	2910	7134	370	2887	5732	1544	3563	1870	3009	5023	1870	1541	
Grp Volume(v), veh/h	71	1211	453	1594	1896	323	91	216	989	936	574	96	
Grp Sat Flow(s), veh/h/li		1820	2043	1444	1911	1544	1781	1870	1505	1674	1870	1541	
Q Serve(g_s), s	4.1	34.1	34.1	70.6	49.9	0.0	4.6	19.9	13.1	28.6	50.7	8.6	
Cycle Q Clear(g_c), s	4.1	34.1	34.1	70.6	49.9	0.0	4.6	19.9	13.1	28.6	50.7	8.6	
Prop In Lane	1.00	0111	0.18	1.00	10.0	1.00	1.00	10.0	1.00	1.00	00.1	1.00	
Lane Grp Cap(c), veh/h		1034	387	1132	2971	1050	111	288	463	798	527	434	
V/C Ratio(X)	0.40	1.17	1.17	1.41	0.64	0.31	0.82	0.75	2.14	1.17	1.09	0.22	
Avail Cap(c_a), veh/h	184	1034	387	1132	2971	1050	111	319	513	798	527	434	
HCM Platoon Ratio	2.00	2.00	2.00	0.67	0.67	0.67	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	0.44	0.44	0.44	0.10	0.10	0.10	1.00	1.00	1.00	0.68	0.68	0.68	
Uniform Delay (d), s/vel		55.9	55.9	66.3	44.6	17.6	86.7	72.8	17.0	75.7	64.7	49.5	
Incr Delay (d2), s/veh	0.2	81.6	89.2	184.0	0.1	0.1	34.9	10.6	518.1	87.1	59.5	0.3	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),vel		21.6	25.0	55.6	24.8	7.8	2.6	10.4	37.9	18.7	32.6	3.4	
Unsig. Movement Delay							-						
LnGrp Delay(d),s/veh	76.3	137.5	145.1	250.4	44.7	17.7	121.6	83.4	535.1	162.8	124.1	49.8	
LnGrp LOS	E	F	F	F	D	В	F	F	F	F	F	D	
Approach Vol, veh/h		1735			3813			1296			1606		
Approach Delay, s/veh		137.0			128.4			430.8			142.2		
Approach LOS		F			F			F			F		
Timer - Assigned Phs	1	2	3	4	5	6	7	8					i
Phs Duration (G+Y+Rc)	). 75.0	39.0	10.0	56.0	15.8	98.2	33.0	33.0					
Change Period (Y+Rc),		4.9	4.4	5.3	4.9	* 4.9	4.4	5.3					
Max Green Setting (Gm		34.1	5.6	50.7	11.4	* 93	25.6	30.7					
Max Q Clear Time (g_c		36.1	6.6	52.7	6.1	51.9	30.6	21.9					
Green Ext Time (p_c), s		0.0	0.0	0.0	0.0	38.9	0.0	5.8					
Intersection Summary													
HCM 6th Ctrl Delay			179.2										
HCM 6th LOS			F										
•• /													

User approved volume balancing among the lanes for turning movement.

User approved ignoring U-Turning movement.

-	٠	-	7	4	+	*	1	Ť	1	4	ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ň	<b>†</b> ††	11		<b>†</b> ††	1				ኘካ	-	11	
Traffic Volume (veh/h)	0	1500	1500	0		720	0	0	0	30	0	1570	
Future Volume (veh/h)	0	1500	1500	0	2050	720	0	0	0	30	0	1570	
Initial Q (Qb), veh	0	0	0	0	0	0	Ŭ	Ū	Ű	0	0	0	
	1.00	Ŭ	1.00	1.00	v	0.98				1.00	Ŭ	1.00	
,, ,	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00	
Work Zone On Approach		No	1.00	1.00	No	1.00					No		
	1856	2100	1856	0	2100	1856				1870	0	1870	
Adj Flow Rate, veh/h	0	1630	0	0	2158	758				31	0	1635	
	0.92	0.92	0.92	0.95	0.95	0.95				0.96	0.96	0.96	
Percent Heavy Veh, %	3	3	3	0.35	0.55	3				0.30	0.30	0.50	
Cap, veh/h	1	4586	J	0	4586	1447				478	0	313	
	0.00	1.00	0.00	0.00	1.00	1.00				0.14	0.00	0.14	
	0.00 1767	5732	2768	0.00	5921	1537				3456	0.00	2790	
Grp Volume(v), veh/h	0	1630	0	0	2158	758				31	0	1635	
Grp Sat Flow(s),veh/h/ln1		1911	1384	0	1911	1537				1728	0	1395	
Q Serve(g_s), s	0.0	0.0	0.0	0.0	0.0	0.0				1.4	0.0	24.9	
Cycle Q Clear(g_c), s	0.0	0.0	0.0	0.0	0.0	0.0				1.4	0.0	24.9	
	1.00		1.00	0.00		1.00				1.00		1.00	
Lane Grp Cap(c), veh/h	1	4586		0	4586	1447				478	0	313	
	0.00	0.36		0.00	0.47	0.52				0.06	0.00	5.22	
Avail Cap(c_a), veh/h	661	4586		0	4586	1447				478	0	313	
	1.67	1.67	1.67	1.00	2.00	2.00				1.00	1.00	1.00	
Upstream Filter(I)	0.00	0.09	0.00	0.00	0.60	0.60				1.00	0.00	1.00	
Uniform Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0				67.4		117.6	
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	0.2	0.8				0.0	0.0	1907.2	
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0	
%ile BackOfQ(50%),veh/	′In0.0	0.0	0.0	0.0	0.1	0.3				0.6	0.0	82.9	
Unsig. Movement Delay,	s/veh	I											
LnGrp Delay(d),s/veh	0.0	0.0	0.0	0.0	0.2	0.8				67.4	0.02	2024.8	
LnGrp LOS	А	А		А	А	А				Е	А	F	
Approach Vol, veh/h		1630	А		2916						1666		
Approach Delay, s/veh		0.0			0.4					1	988.4		
Approach LOS		A			A						F		
Timer - Assigned Phs		2		4	5	6							
Phs Duration (G+Y+Rc),	\$	150.0		30.0	0.0	150.0							
Change Period (Y+Rc), s		6.0		5.1	* 4.7	6.0							
Max Green Setting (Gma				24.9	* 67	72.0							
Max Q Clear Time (g_c+		2.0		24.9	0.0	2.0							
Green Ext Time (p_c), s	11), 5	11.4		20.9	0.0	2.0							
Green Ext Time (p_c), s		11.4		0.0	0.0	20.0							
Intersection Summary													
HCM 6th Ctrl Delay			533.4										
HCM 6th LOS			F										
<b>N</b> 1 (													

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier. Unsignalized Delay for [EBR] is excluded from calculations of the approach delay and intersection delay.

ار ا	+	7	1	Ļ	•	1	Ť	1	4	ŧ	~	
Movement EBL	. EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	***	1	5	<b>^</b>	1	ኘኘ		77				
Traffic Volume (veh/h) (	480	1150	0	2410	450	180	0	1620	0	0	0	
Future Volume (veh/h) (	480	1150	0	2410	450	180	0	1620	0	0	0	
Initial Q (Qb), veh (		0	0	0	0	0	0	0				
Ped-Bike Adj(A_pbT) 1.00		0.97	1.00		1.00	1.00		1.00				
Parking Bus, Adj 1.00	1.00	1.00	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 (		1856	1856	1856	1856	1870	0	1870				
Adj Flow Rate, veh/h (		1264	0	2648	0	214	0	1929				
Peak Hour Factor 0.91		0.91	0.91	0.91	0.91	0.84	0.84	0.84				
Percent Heavy Veh, %		3	3	3	3	2	0	2				
Cap, veh/h (		895	579	3039		1169	0	1858				
Arrive On Green 0.00		0.40	0.00	0.60	0.00	0.34	0.00	0.34				
Sat Flow, veh/h (	5233	1519	1767	5066	1572	3456	0	2790				
Grp Volume(v), veh/h	527	1264	0	2648	0	214	0	1929				
Grp Sat Flow(s),veh/h/ln (	1689	1519	1767	1689	1572	1728	0	1395				
Q Serve(g_s), s 0.0	13.6	43.0	0.0	78.9	0.0	7.9	0.0	60.9				
Cycle Q Clear(g_c), s 0.0	13.6	43.0	0.0	78.9	0.0	7.9	0.0	60.9				
Prop In Lane 0.00	)	1.00	1.00		1.00	1.00		1.00				
Lane Grp Cap(c), veh/h (	1210	895	579	3039		1169	0	1858				
V/C Ratio(X) 0.00	0.44	1.41	0.00	0.87		0.18	0.00	1.04				
Avail Cap(c_a), veh/h (	1210	895	592	3039		1169	0	1858				
HCM Platoon Ratio 1.00	1.67	1.67	1.00	1.00	1.00	1.00	1.00	1.00				
Upstream Filter(I) 0.00	0.96	0.96	0.00	1.00	0.00	1.00	0.00	1.00				
Uniform Delay (d), s/veh 0.0	45.3	19.9	0.0	30.2	0.0	42.0	0.0	30.0				
Incr Delay (d2), s/veh 0.0	1.1	191.9	0.0	3.8	0.0	0.0	0.0	31.5				
Initial Q Delay(d3),s/veh 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
%ile BackOfQ(50%),veh/Ir0.0	5.4	87.8	0.0	32.3	0.0	3.4	0.0	62.4				
Unsig. Movement Delay, s/ve	h											
LnGrp Delay(d),s/veh 0.0	46.4	211.8	0.0	33.9	0.0	42.0	0.0	61.5				
LnGrp LOS A	) D	F	А	С		D	А	F				
Approach Vol, veh/h	1791			2648	А		2143					
Approach Delay, s/veh	163.1			33.9			59.6					
Approach LOS	F			С			E					
Timer - Assigned Phs	2		4		6							
Phs Duration (G+Y+Rc), 65.0	49.0		66.0		114.0							
Change Period (Y+Rc), s 6.0	* 6		5.1		6.0							
Max Green Setting (Gma@), 3	* 43		60.9		108.0							
Max Q Clear Time (g_c+I10,0	\$ 45.0		62.9		80.9							
Green Ext Time (p_c), s 0.0			0.0		18.9							
Intersection Summary												
HCM 6th Ctrl Delay		77.4										
HCM 6th LOS		Е										
Notes												

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier. Unsignalized Delay for [WBR] is excluded from calculations of the approach delay and intersection delay.

	٠	-	7	-	+	*	1	t	1	4	ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		र्स	1	ጎኘ	ţ,	1	A	<b>†</b> †	1	<u>ሕ</u> ካ	<b>†</b> ††	1	
Traffic Volume (veh/h)	10	0	0	460	0	230	140	640	500	490	1990	0	
Future Volume (veh/h)	10	0	0	460	0	230	140	640	500	490	1990	0	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.99	1.00		1.00	1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac	h	No			No			No			No		
Adj Sat Flow, veh/h/ln	1870	1870	1796	1870	1870	1870	1563	1856	1856	1856	1856	1856	
Adj Flow Rate, veh/h	40	0	0	548	0	274	152	696	543	527	2140	0	
Peak Hour Factor	0.25	0.25	0.25	0.84	0.84	0.84	0.92	0.92	0.92	0.93	0.93	0.93	
Percent Heavy Veh, %	2	2	2	2	2	2	3	3	3	3	3	3	
Cap, veh/h	78	0	67	653	0	576	174	1582	993	595	2560	795	
Arrive On Green	0.04	0.00	0.00	0.18	0.00	0.18	0.12	0.45	0.45	0.17	0.51	0.00	
Sat Flow, veh/h	1781	0	1522	3563	0	3144	1488	3526	1572	3428	5066	1572	
Grp Volume(v), veh/h	40	0	0	548	0	274	152	696	543	527	2140	0	
Grp Sat Flow(s),veh/h/lr		0	1522	1781	0	1572	1488	1763	1572	1714	1689	1572	
Q Serve(g_s), s	2.6	0.0	0.0	17.8	0.0	9.3	12.0	16.3	23.3	18.0	43.4	0.0	
Cycle Q Clear(g_c), s	2.6	0.0	0.0	17.8	0.0	9.3	12.0	16.3	23.3	18.0	43.4	0.0	
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Lane Grp Cap(c), veh/h	78	0	67	653	0	576	174	1582	993	595	2560	795	
V/C Ratio(X)	0.51	0.00	0.00	0.84	0.00	0.48	0.87	0.44	0.55	0.89	0.84	0.00	
Avail Cap(c_a), veh/h	579	0	495	1040	0	918	211	1582	993	898	2797	868	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	
Uniform Delay (d), s/vel	า 56.1	0.0	0.0	47.3	0.0	43.8	52.1	22.7	12.4	48.4	25.4	0.0	
Incr Delay (d2), s/veh	1.9	0.0	0.0	1.8	0.0	0.2	24.4	0.2	0.6	5.1	2.2	0.0	
Initial Q Delay(d3),s/veh	n 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh	n/In1.2	0.0	0.0	7.8	0.0	3.5	5.5	6.4	12.3	7.8	16.2	0.0	
Unsig. Movement Delay	, s/veh												
LnGrp Delay(d),s/veh	58.0	0.0	0.0	49.1	0.0	44.0	76.5	22.9	13.0	53.5	27.6	0.0	
LnGrp LOS	Е	Α	Α	D	Α	D	Ε	С	В	D	С	А	
Approach Vol, veh/h		40			822			1391			2667		
Approach Delay, s/veh		58.0			47.4			24.9			32.7		
Approach LOS		Е			D			С			С		
Timer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Rc)	. 24.8	59.9		9.2	18.0	66.7		26.0					
Change Period (Y+Rc),		6.1		4.0	4.0	* 6.1		4.0					
Max Green Setting (Gm		51.5		39.0	17.0	* 66		35.0					
Max Q Clear Time (g_c-		25.3		4.6	14.0	45.4		19.8					
Green Ext Time (p_c), s		6.8		0.1	0.0	15.2		1.5					
Intersection Summary													
HCM 6th Ctrl Delay			33.2										
HCM 6th LOS			55.2 C										
			Ŭ										

User approved volume balancing among the lanes for turning movement.

User approved ignoring U-Turning movement.

	٠	-	7	-	-	*	1	Ť	1	4	Ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ኘኘ	<b>†</b> ††	1	<u>ሕ</u> ካ	<b>†</b> ††	1	٦	4		à	÷.	11	
Traffic Volume (veh/h)	1210	610	60	10	1580	20	50	10	10	20	10	1520	
Future Volume (veh/h)	1210	610	60	10	1580	20	50	10	10	20	10	1520	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	Ū	0.99	1.00	v	0.98	1.00	U	0.98	1.00	v	0.96	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No	1.00	1.00	No	1.00	1.00	No	1.00	1.00	No	1.00	
Adj Sat Flow, veh/h/ln	1796	2033	1796	1525	2049	1811	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	1315	663	65	1020	1629	21	54	11	11	16	18	1617	
Peak Hour Factor	0.92	0.92	0.92	0.97	0.97	0.97	0.92	0.92	0.92	0.94	0.94	0.94	
Percent Heavy Veh, %	0.92	0.92	0.92	0.97	0.97	0.97	0.52	0.92	0.52	2	0.94	2	
Cap, veh/h	1236	3447	933	465	2364	638	92	44	44	45	47	1257	
Arrive On Green	0.37	0.62	0.62	405	0.56	0.56	92 0.05	0.05	0.05	0.03	0.03	0.03	
Sat Flow, veh/h							1781					3056	
	3319	5549	1501	2818	5595	1509		850	850	1781	1870		
Grp Volume(v), veh/h	1315	663	65	10	1629	21	54	0	22	16	18	1617	
Grp Sat Flow(s),veh/h/l		1850	1501	1409	1865	1509	1781	0	1700	1781	1870	1528	
Q Serve(g_s), s	59.6	8.2	2.7	0.4	33.3	1.0	4.7	0.0	2.0	1.4	1.5	4.0	
Cycle Q Clear(g_c), s	59.6	8.2	2.7	0.4	33.3	1.0	4.7	0.0	2.0	1.4	1.5	4.0	
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.50	1.00		1.00	
Lane Grp Cap(c), veh/h		3447	933	465	2364	638	92	0	88	45	47	1257	
V/C Ratio(X)	1.06	0.19	0.07	0.02	0.69	0.03	0.58	0.00	0.25	0.36	0.38	1.29	
Avail Cap(c_a), veh/h	1236	3447	933	465	2364	638	356	0	340	45	47	1257	
HCM Platoon Ratio	1.00	1.00	1.00	1.33	1.33	1.33	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	1.00	1.00	0.90	0.90	0.90	1.00	0.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/ve	h 50.2	13.0	12.0	52.3	27.5	20.5	74.2	0.0	72.9	76.7	76.8	48.3	
Incr Delay (d2), s/veh	44.4	0.1	0.1	0.0	1.5	0.1	2.2	0.0	0.5	4.4	4.6	134.9	
Initial Q Delay(d3),s/vel	h 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),ve	h/Bn1.3	3.3	0.9	0.2	13.1	0.4	2.2	0.0	0.9	0.7	0.8	48.5	
Unsig. Movement Delay	y, s/veh	)											
LnGrp Delay(d),s/veh	94.6	13.2	12.1	52.3	29.0	20.5	76.3	0.0	73.4	81.1	81.4	183.2	
LnGrp LOS	F	В	В	D	С	С	Е	А	E	F	F	F	
Approach Vol, veh/h		2043			1660			76			1651		
Approach Delay, s/veh		65.5			29.1			75.5			181.1		
Approach LOS		Е			С			Е			F		
Timer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Rc	) 32 1	105.2		9.5	64.0	73.3		13.2					
Change Period (Y+Rc),		* 5.8		5.5	4.4	5.7		4.9					
Max Green Setting (Gr		* 99		4.0	59.6	43.9		32.0					
Max Q Clear Time (g_c		10.2		6.0	61.6	35.3		6.7					
Green Ext Time (p_c),		9.9		0.0	0.0	7.7		0.1					
а — <i>У</i> -	0.0	9.9		0.0	0.0	1.1		0.1					
Intersection Summary													
HCM 6th Ctrl Delay			89.7										
HCM 6th LOS			F										
NI (													

User approved volume balancing among the lanes for turning movement.

User approved ignoring U-Turning movement.

	٠	<b>→</b>	7	1	+	*	1	t	1	4	ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	<u>ሕ</u> ግ	<b>↑</b> ↑₽		à	<u>ተተ</u> ኑ			र्स	1		र्स	1	
Traffic Volume (veh/h)	90	490	140	130	1280	70	160	40	70	20	40	40	
Future Volume (veh/h)	90	490	140	130	1280	70	160	40	70	20	40	40	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	-	0.97	1.00		0.98	1.00		1.00	1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No			No			No			No		
Adj Sat Flow, veh/h/ln	1525	2049	1811	1525	2049	1811	1870	1870	1796	1870	1870	1870	
Adj Flow Rate, veh/h	96	521	149	134	1320	72	250	62	109	23	47	47	
Peak Hour Factor	0.94	0.94	0.94	0.97	0.97	0.97	0.64	0.64	0.64	0.86	0.86	0.86	
Percent Heavy Veh, %	6	6	6	6	6	6	2	2	2	2	2	2	
Cap, veh/h	128	1243	344	275	2394	131	41	0	638	30	48	664	
Arrive On Green	0.09	0.57	0.57	0.19	0.44	0.44	0.42	0.42	0.42	0.42	0.42	0.42	
Sat Flow, veh/h	2818	4325	1198	1452	5424	296	0	0	1521	0	114	1584	
Grp Volume(v), veh/h	96	447	223	134	908	484	312	0	109	70	0	47	
Grp Sat Flow(s), veh/h/li		1865	1793	1452	1865	1990	0	0	1521	114	0	1584	
Q Serve(g_s), s	5.3	10.7	11.3	13.2	28.7	28.7	0.0	0.0	7.2	0.0	0.0	2.8	
Cycle Q Clear(g_c), s	5.3	10.7	11.3	13.2	28.7	28.7	67.1	0.0	7.2	67.1	0.0	2.8	
Prop In Lane	1.00	10.7	0.67	1.00	20.1	0.15	0.80	0.0	1.00	0.33	0.0	1.00	
Lane Grp Cap(c), veh/h		1072	515	275	1646	879	41	0	638	78	0	664	
V/C Ratio(X)	0.75	0.42	0.43	0.49	0.55	0.55	7.70	0.00	0.17	0.90	0.00	0.07	
Avail Cap(c_a), veh/h	240	1072	515	287	1646	879	41	0.00	638	78	0.00	664	
HCM Platoon Ratio	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	0.99	0.99	0.99	0.94	0.94	0.94	1.00	0.00	1.00	1.00	0.00	1.00	
Uniform Delay (d), s/vel		26.5	26.6	57.9	33.0	33.0	80.0	0.00	29.1	40.4	0.00	27.8	
Incr Delay (d2), s/veh	3.2	1.2	20.0	0.5	1.3		3064.4	0.0	0.1	70.6	0.0	0.1	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh		4.2	4.4	4.8	12.9	14.0	36.2	0.0	2.7	3.2	0.0	1.1	
Unsig. Movement Delay			4.4	4.0	12.3	14.0	JU.Z	0.0	2.1	J.Z	0.0	1.1	
LnGrp Delay(d),s/veh	75.1	27.7	29.2	58.4	34.2	35 3 3	3144.4	0.0	29.2	111.0	0.0	27.9	
LnGrp LOS	E	27.7 C	29.2 C	50.4 E	04.2 C	00.0 C	F	0.0 A	29.2 C	F	0.0 A	21.9 C	
	<u> </u>	766	0	<u> </u>		U	1		0	1		0	
Approach Vol, veh/h					1526			421			117		
Approach Delay, s/veh		34.1			36.7		4	2337.8			77.6		
Approach LOS		С			D			F			E		
Timer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Rc)	), <b>3</b> 6.0	52.0		72.0	11.7	76.3		72.0					
Change Period (Y+Rc),		* 6		4.9	4.4	5.7		4.9					
Max Green Setting (Gm		* 46		67.1	13.6	64.3		67.1					
Max Q Clear Time (g_c		13.3		69.1	7.3	30.7		69.1					
Green Ext Time (p_c), s		8.0		0.0	0.1	20.7		0.0					
Intersection Summary													
HCM 6th Ctrl Delay			380.0										
HCM 6th LOS			F										
Notes													

٠	-	-	*	4	~	

Movement EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	<b>†</b> ††	<b>†</b> ††	1	٦	1
Traffic Volume (veh/h) 60	550	1410	150	60	60
Future Volume (veh/h) 60	550	1410	150	60	60
Initial Q (Qb), veh 0	0	0	0	0	0
Ped-Bike Adj(A_pbT) 1.00			0.97	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	1.00	No	1.00
Adj Sat Flow, veh/h/ln 1811	2049	2033	1796	1870	1870
Adj Flow Rate, veh/h 63	579	1454	155	81	81
Peak Hour Factor 0.95	0.95	0.97	0.97	0.74	0.74
	0.95	0.97	0.97		0.74
,				2	
Cap, veh/h 549	4857	2865	766	115	102
Arrive On Green 0.64	1.00	0.69	0.69	0.06	0.06
Sat Flow, veh/h 1725	5779	5732	1484	1781	1585
Grp Volume(v), veh/h 63	579	1454	155	81	81
Grp Sat Flow(s),veh/h/ln1725	1865	1850	1484	1781	1585
Q Serve(g_s), s 2.3	0.0	20.2	6.1	7.1	8.1
Cycle Q Clear(g_c), s 2.3	0.0	20.2	6.1	7.1	8.1
Prop In Lane 1.00			1.00	1.00	1.00
Lane Grp Cap(c), veh/h 549	4857	2865	766	115	102
V/C Ratio(X) 0.11	0.12	0.51	0.20	0.71	0.79
Avail Cap(c_a), veh/h 549	4857	2865	766	458	407
HCM Platoon Ratio 2.00	2.00	1.33	1.33	1.00	1.00
Upstream Filter(I) 0.97	0.97	0.94	0.94	1.00	1.00
Uniform Delay (d), s/veh 20.3	0.0	15.3	13.1	73.4	73.8
Incr Delay (d2), s/veh 0.0	0.0	0.6	0.6	3.0	5.2
Initial Q Delay(d3),s/veh 0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/Ir0.9	0.0	6.9	2.0	3.4	7.1
Unsig. Movement Delay, s/vel	ו				
LnGrp Delay(d),s/veh 20.3	0.0	15.9	13.6	76.3	79.0
LnGrp LOS C	А	В	В	Е	Е
Approach Vol, veh/h	642	1609		162	
Approach Delay, s/veh	2.0	15.7		77.7	
Approach LOS	A	B		E	
Timer - Assigned Phs	2		4	5	6
Phs Duration (G+Y+Rc), s	144.8		15.2	56.8	88.0
Change Period (Y+Rc), s	5.9		4.9	5.9	* 5.4
Max Green Setting (Gmax), s	108.1		41.1	21.6	* 83
Max Q Clear Time (g_c+I1), s			10.1	4.3	22.2
Green Ext Time (p c), s	10.7		0.2	0.0	44.8
			5.2	5.0	
Intersection Summary					
HCM 6th Ctrl Delay		16.2			
HCM 6th LOS		В			
Notes					

٠	-	1	1
	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.		~

Movement EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		<b>†</b> ††		<u>50L</u>	
Traffic Volume (veh/h) 40	<b>TTT</b> 580	<b>TTT</b> 1550	<b>8</b> 0	40	<b>5</b> 0
Future Volume (veh/h) 40	580	1550	80	40	50
Initial Q (Qb), veh 0	0	0	0	40	0
Ped-Bike Adj(A_pbT) 1.00	U	0	0.98	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	1.00	No	1.00
Adj Sat Flow, veh/h/ln 1796	2033	2033	1796	1870	1870
Adj Flow Rate, veh/h 43	617	1582	82	44	56
Peak Hour Factor 0.94	0.94	0.98	0.98	0.90	0.90
Percent Heavy Veh, % 7	7	7	7	2	2
Cap, veh/h 472		3211	859	85	76
Arrive On Green 0.55	1.00	1.00	1.00	0.05	0.05
Sat Flow, veh/h 1711	5732	5732	1485	1781	1585
Grp Volume(v), veh/h 43	617	1582	82	44	56
Grp Sat Flow(s),veh/h/ln1711	1850	1850	1485	1781	1585
Q Serve(g_s), s 1.9	0.0	0.0	0.0	3.9	5.6
Cycle Q Clear(g_c), s 1.9	0.0	0.0	0.0	3.9	5.6
Prop In Lane 1.00	4004	2044	1.00	1.00	1.00
Lane Grp Cap(c), veh/h 472	4931	3211	859	85	76
V/C Ratio(X) 0.09	0.13	0.49	0.10	0.52	0.74
Avail Cap(c_a), veh/h 472	4931	3211	859	396	353
HCM Platoon Ratio 2.00	2.00	2.00	2.00	1.00	1.00
Upstream Filter(I) 0.99	0.99	0.90	0.90	1.00	1.00
Uniform Delay (d), s/veh 26.4	0.0	0.0	0.0	74.4	75.2
Incr Delay (d2), s/veh 0.0	0.1	0.5	0.2	1.8	5.3
Initial Q Delay(d3),s/veh 0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/Ir0.8	0.0	0.1	0.0	1.8	5.0
Unsig. Movement Delay, s/vel					
LnGrp Delay(d),s/veh 26.4	0.1	0.5	0.2	76.2	80.5
LnGrp LOS C	Α	Α	Α	E	F
Approach Vol, veh/h	660	1664		100	
Approach Delay, s/veh	1.8	0.5		78.6	
Approach LOS	А	А		Е	
Timer - Assigned Phs	2		4	5	6
0					
Phs Duration (G+Y+Rc), s	148.0		12.0	50.0	98.0 * 5 4
Change Period (Y+Rc), s	5.8		4.4	5.8	* 5.4
Max Green Setting (Gmax), s			35.6	17.6	* 93
Max Q Clear Time (g_c+I1), s			7.6	3.9	2.0
Green Ext Time (p_c), s	8.5		0.1	0.0	41.4
Intersection Summary					
HCM 6th Ctrl Delay		4.0			
HCM 6th LOS		А			

	۶	-	¥	1	+	•	1	t	1	4	ţ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	3	<b>†</b> ††	1	N.	<b>*†</b>		7	†	1		4		
Traffic Volume (veh/h)	70	510	60	100	1520	90	0	Ö	0	60	0	50	
Future Volume (veh/h)	70	510	60	100	1520	90	0	0	0	60	0	50	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	-	1.00	1.00	-	0.97	1.00	-	1.00	1.00	-	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No			No			No			No		
Adj Sat Flow, veh/h/ln	1796	2033	1796	1796	2033	1796	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	74	537	63	102	1551	92	0	0	0	78	0	65	
Peak Hour Factor	0.95	0.95	0.95	0.98	0.98	0.98	0.25	0.25	0.25	0.77	0.77	0.77	
Percent Heavy Veh, %	7	7	7	7	7	7	2	2	2	2	2	2	
Cap, veh/h	457	4024	1101	121	2794	166	45	204	173	120	4	74	
Arrive On Green	0.09	0.24	0.24	0.14	1.00	1.00	0.00	0.00	0.00	0.11	0.00	0.11	
Sat Flow, veh/h	1711	5549	1518	1711	5348	317	1337	1870	1585	781	36	681	
Grp Volume(v), veh/h	74	537	63	102	1073	570	0	0	0	143	0	0	
Grp Sat Flow(s),veh/h/l		1850	1518	1711	1850	1966	1337	1870	1585	1498	0	0	
Q Serve(g_s), s	6.4	12.2	5.1	9.3	0.0	0.0	0.0	0.0	0.0	14.4	0.0	0.0	
Cycle Q Clear(g_c), s	6.4	12.2	5.1	9.3	0.0	0.0	0.0	0.0	0.0	15.0	0.0	0.0	
Prop In Lane	1.00		1.00	1.00		0.16	1.00		1.00	0.55	_	0.45	
Lane Grp Cap(c), veh/h		4024	1101	121	1933	1027	45	204	173	199	0	0	
V/C Ratio(X)	0.16	0.13	0.06	0.85	0.55	0.56	0.00	0.00	0.00	0.72	0.00	0.00	
Avail Cap(c_a), veh/h	457	4024	1101	284	1933	1027	242	480	407	418	0	0	
HCM Platoon Ratio	0.33	0.33	0.33	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	1.00	1.00	0.91	0.91	0.91	0.00	0.00	0.00	1.00	0.00	0.00	
Uniform Delay (d), s/ve		21.3	18.7	67.9	0.0	0.0	0.0	0.0	0.0	70.1	0.0	0.0	
Incr Delay (d2), s/veh	0.1	0.1	0.1	5.6	1.1	2.0	0.0	0.0	0.0	1.8	0.0	0.0	
Initial Q Delay(d3),s/vel	h 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),vel	h/In2.8	5.7	1.7	3.9	0.3	0.6	0.0	0.0	0.0	5.9	0.0	0.0	
Unsig. Movement Delay	y, s/veh	1											
LnGrp Delay(d),s/veh	56.5	21.4	18.8	73.4	1.1	2.0	0.0	0.0	0.0	71.9	0.0	0.0	
LnGrp LOS	Е	С	В	E	А	А	А	А	А	Е	А	А	
Approach Vol, veh/h		674			1745			0			143		
Approach Delay, s/veh		25.0			5.6			0.0			71.9		
Approach LOS		C			A						E		
											_		
Timer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Rc				22.4	48.6	89.0		22.4					
Change Period (Y+Rc),		5.9		4.9	5.9	* 5.4		4.9					
Max Green Setting (Gr		77.1		41.1	20.6	* 84		41.1					
Max Q Clear Time (g_c	;+111),3s	14.2		17.0	8.4	2.0		0.0					
Green Ext Time (p_c),	s 0.1	8.1		0.5	0.0	45.2		0.0					
Intersection Summary													
HCM 6th Ctrl Delay			14.4										
HCM 6th LOS			В										
Notes													

Movement    EBL    EBL    EBR    WBL    WBT    WBL    NBT    NBT    NBR    SBL    SBT    SBR      Lane Configurations    1    1    1    1    1    1    1    1    1    1    1    1    1    1    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0 <t< th=""><th></th><th>۲</th><th>-</th><th>7</th><th>1</th><th>+</th><th>*</th><th>1</th><th>Ť</th><th>1</th><th>1</th><th>ŧ</th><th>~</th><th></th></t<>		۲	-	7	1	+	*	1	Ť	1	1	ŧ	~	
Traffic You'me (veh/h)  30  560  0  10  1710  610  0  0  180  0  30    Future Volume (veh/h)  30  560  0  10  1710  610  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0	Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Traffic Volume (veh/h)  30  560  0  10  1710  610  0  0  180  0  30    Future Volume (veh/h)  30  560  0  0  0  0  0  0  30    Initial Q (2d), veh  0  0  0  0  0  0  0  0  0    Parking Bus, Adj  100  100  100  100  100  100  100  100  100    Work Zone On Approach  No  No  No  No  No  No    Adj Flow Rate, veh/h  31  571  0  107  1622  228  0  24    Peack Hour Factor  0.98  0.98  0.98  0.98  0.83  0.83  0.83  0.83    Sat Flow, veh/h  433  4519  0  16  2913  907  295  0  130    Arrive On Green  0.56  1.00  0.00  0.00  0.00  0.08  334    Grp Sat Flow, veh/h  131  571  0  10  1745  622<	Lane Configurations	A	<b>^</b>		۲	<b>^</b>	1				7	4	1	
Initial Q (Qb), veh  0  0  0  0  0  0  0  0    Perking Bus, Adji  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00	Traffic Volume (veh/h)		560	0	10		610	0	0	0	180			
Ped-Bike Adj(A, pbT)  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00 <td< td=""><td>Future Volume (veh/h)</td><td>30</td><td>560</td><td>0</td><td>10</td><td>1710</td><td>610</td><td>0</td><td>0</td><td>0</td><td>180</td><td>0</td><td>30</td><td></td></td<>	Future Volume (veh/h)	30	560	0	10	1710	610	0	0	0	180	0	30	
Parking Bus, Adj  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.0	Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0	
Work Zone On Approach    No    No    No    No      Adj Sat Flow, vehn/h    1796    2033    1796    1870    1870    1870      Adj Sat Flow, vehn/h    1571    0    10    1745    622    228    0    24      Peak Hour Factor    0.98    0.98    0.98    0.98    0.98    0.83    0.83    0.83    0.83      Cap, vehn/h    433    4519    0    16    2913    907    295    0    130      Arrive On Green    0.58    1.00    0.00    102    1.00    0.088    0.00    0.08      Sat Flow, wehn/h    1711    571    0    1781    16549    1488    3663    0    24      Grp Sat Flow(s), vehn/h 11711    1850    0    1781    1850    1488    1781    0    1574      Q Serve(g_c), s    1.3    0.0    0.0    0.0    10.0    0.0    2.3      Prop In Lane    1.00    0.00    1.00	Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.98				1.00		0.99	
Adj Sat Flow, veh/h/ln  1796  1870  1870  1870  1870  1870    Adj Flow Rate, veh/h  31  571  0  10  1745  622  228  0  24    Peak Hour Factor  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.98  0.00  0.00  0.00  0.08  0.00  0.83  0.98  0.71  0.00  0.23  Prop In Lane  1.00  1.00 <t< td=""><td>Parking Bus, Adj</td><td>1.00</td><td>1.00</td><td>1.00</td><td>1.00</td><td>1.00</td><td>1.00</td><td></td><td></td><td></td><td>1.00</td><td>1.00</td><td>1.00</td><td></td></t<>	Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00	
Adj Flow Rate, veh/h  31  571  0  10  1745  622  228  0  24    Peak Hour Factor  0.98  0.98  0.98  0.98  0.83  0.83  0.83    Percent Heavy Veh, %  7  7  0  2  2  2    Cap, veh/h  493  4519  0  16  2913  907  295  0  130    Arrive On Green  0.58  1.00  0.00  0.02  1.00  0.00  0.08  Satellow, veh/h  171  573  0  1781  5549  1488  3663  0  1574    Grp Volume(v), veh/h  31  571  0  10  1745  622  228  0  24    Grp Sat Flow, (s), veh/h/Inf711  1850  0  1781  1550  1488  1781  0  100  100  100  100  100    Qser e(g.s), s  1.3  0.0  0.63  0.60  0.9  0.77  0.00  0.18    Avait Cap(c.a), veh/h  433  4519  0  62  2913	Work Zone On Approa	ch	No			No						No		
Peak Hour Factor    0.98    0.98    0.98    0.98    0.83    0.83    0.83      Percent Heavy Veh, %    7    7    0    2    7    7    2    2      Cap, veh/h    493    4519    0    16    2913    907    295    0    130      Arrive On Green    0.58    1.00    0.00    0.02    1.00    1.00    0.08    0.00    0.08      Sat Flow, veh/h    171    5732    0    1781    15549    1488    3563    0    1574      Grp Volume(v), veh/h    31    571    0    107    1781    1550    1488    1781    0    1574      Q Serve(g_s), s    1.3    0.0    0.0    0.0    1.00    1.00    1.00    1.00    1.00    1.00    1.00    1.00    1.00    1.00    1.00    1.00    1.00    1.00    1.00    1.00    1.00    1.00    1.00    1.00    1.00    1.00    1.00	Adj Sat Flow, veh/h/ln	1796	2033	0	1870	2033	1796				1870	1870	1870	
Percent Heavy Veh, %  7  7  0  2  7  7  2  2  2    Cap, veh/h  493  4519  0  16  2913  907  295  0  130    Arrive On Green  0.58  1.00  0.00  0.00  0.00  0.00  0.08  300    Sat Flow, veh/h  1711  5732  0  1781  5549  1488  3563  0  1574    Grp Volume(v), veh/h  13  571  0  10  1745  622  228  0  24    Grp Sat Flow(s), veh/h/h11711  1850  0  1781  1850  1488  1781  0  10.0  2.3    Qserve(g.s)  s  1.3  0.0  0.0  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.0	Adj Flow Rate, veh/h	31	571	0	10	1745	622				228	0	24	
Cap, veh/h  493  4519  0  16  2913  907  295  0  130    Arrive On Green  0.58  1.00  0.00  0.02  1.00  0.00  0.08    Sat Flow, veh/h  1711  5732  0  1781  5549  1488  3563  0  1574    Grp Volume(V), veh/h  31  571  0  10  1745  622  228  0  24    Grp Sat Flow(s), veh/h/In1711  1850  0  1781  1850  1488  1781  0  1574    Q serve(g.s), s  1.3  0.0  0.0  0.0  100  100  0  2.3    Prop In Lane  1.00  0.00  1.00  1.00  1.00  1.00  1.00  1.00    Lane Grp Cap(c), vsh/h  433  4519  0  62  2913  907  138  503    V/C Ratio(X)  0.06  0.13  0.00  0.63  0.60  0.69  0.77  0.00  1.8    Avait Cap(c), al, veh/h  433  4519  0  62	Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98				0.83	0.83	0.83	
Arrive On Green  0.58  1.00  0.00  0.02  1.00  1.00  0.08  0.00  0.08    Sat Flow, veh/h  1711  5732  0  1781  5549  1488  3563  0  1574    Grp Volume(v), veh/h  31  571  0  10  1745  622  228  0  24    Grp Sat Flow(s), veh/h/111  1850  1488  1781  0  1574    Q Serve(g.s), s  1.3  0.0  0.0  0.0  0.0  10.0  10.0  2.3    Prop In Lane  1.00  0.00  1.00  1.00  1.00  1.00  1.00    Lane Grp Cap(c), veh/h  493  4519  0  62  2913  907  138  0  503    V/C Ratio(X)  0.06  0.13  0.00  0.76  0.76  0.76  0.96  0.00  900  1.00    Upstram Filter(I)  1.00  1.00  1.00  2.00  2.00  1.00  1.00  1.00  1.00    Uniform Delay (d2), siveh 244  0.1  0.0  0.2 <td>Percent Heavy Veh, %</td> <td>7</td> <td>7</td> <td>0</td> <td>2</td> <td>7</td> <td>7</td> <td></td> <td></td> <td></td> <td>2</td> <td>2</td> <td>2</td> <td></td>	Percent Heavy Veh, %	7	7	0	2	7	7				2	2	2	
Sat Flow, veh/h  1711  5732  0  1781  5549  1488  3563  0  1574    Grp Volume(v), veh/h  31  571  0  10  1745  622  228  0  24    Grp Sat Flow(s), veh/h/ln1711  1850  0  1781  1850  1488  1781  0  1574    Q Serve(g, s), s  1.3  0.0  0.0  0.0  10.0  0.0  2.3    Cycle Q Clear(g, c), s  1.3  0.0  0.0  1.00  1.00  1.00  1.00    Lane Grp Cap(c), veh/h  43  4519  0  62  2913  907  295  0  130    VC Ratio(X)  0.06  0.13  0.00  0.63  0.60  0.9  0.7  0.00  1.00    Upstream Filter(I)  1.00  1.00  2.00  2.00  1.00  1.00  1.00  1.00    Upstream Filter(I)  1.00  0.0  0.76  0.76  0.96  0.00  0.0    Uniform Delay (d2), siveh  0.0  0.76  0.76  0.96  0.	Cap, veh/h	493	4519	0	16	2913	907				295	0	130	
Grp Volume(v), veh/h  31  571  0  10  1745  622  228  0  24    Grp Sat Flow(s), veh/h/ln1711  1850  0  1781  1850  1488  1781  0  1574    Q Serve(g_s), s  1.3  0.0  0.0  0.0  10.0  0.0  2.3    Cycle Q Clear(g_c), s  1.3  0.0  0.0  1.00  1.00  1.00    Lane  1.00  0.00  1.00  1.00  1.00  1.00    Lane Grp Cap(c), veh/h  493  4519  0  16  2913  907  295  0  130    V/C Ratio(X)  0.06  0.13  0.00  0.63  0.60  0.69  0.77  0.00  0.18    Avait Cap(c_a), veh/h  493  4519  0  62  2913  907  1138  0  503    HCM Platon Ratio  2.00  2.00  2.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00	Arrive On Green	0.58	1.00	0.00	0.02	1.00	1.00				0.08	0.00	0.08	
Grp Sat Flow(s),veh/h/ln1711  1850  0  1781  1850  1488  1781  0  1574    Q Serve(g_s), s  1.3  0.0  0.0  0.9  0.0  0.0  10.0  0.0  2.3    Cycle Q Clear(g_c), s  1.3  0.0  0.0  0.0  1.00  1.00  1.00    Lane Grp Cap(c), veh/h  493  4519  0  16  2913  907  295  0  130    V/C Ratio(X)  0.06  0.13  0.00  0.63  0.60  0.69  0.77  0.00  0.18    Avail Cap(c, a), veh/h  493  4519  0  62  2913  907  138  0  503    HCM Platoon Ratio  2.00  2.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00	Sat Flow, veh/h	1711	5732	0	1781	5549	1488				3563	0	1574	
Grp Sat Flow(s),veh/h/ln1711  1850  0  1781  1850  1488  1781  0  1574    Q Serve(g_s), s  1.3  0.0  0.0  0.9  0.0  0.0  10.0  0.0  2.3    Cycle Q Clear(g_c), s  1.3  0.0  0.0  0.0  1.00  1.00  1.00    Lane Grp Cap(c), veh/h  493  4519  0  16  2913  907  295  0  130    V/C Ratio(X)  0.06  0.13  0.00  0.63  0.60  0.69  0.77  0.00  0.18    Avail Cap(c, a), veh/h  493  4519  0  62  2913  907  138  0  503    HCM Platoon Ratio  2.00  2.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00	Grp Volume(v), veh/h	31	571	0	10	1745	622				228	0	24	
Q Serve(g_s), s  1.3  0.0  0.9  0.0  0.0  10.0  0.0  2.3    Cycle Q Clear(g_c), s  1.3  0.0  0.9  0.0  0.0  10.0  0.0  2.3    Prop In Lane  1.00  0.00  1.00  1.00  1.00  1.00    Lane Grp Cap(c), veh/h  493  4519  0  16  2913  907  138  0  503    V/C Ratio(X)  0.06  0.13  0.00  0.63  0.69  0.77  0.00  0.18    Avail Cap(c_a), veh/h  493  4519  0  62  2913  907  1138  0  503    HCM Platoon Ratio  2.00  1.00  2.00  2.00  1.00  1.00  1.00  1.00    Upstream Filter(1)  1.00  1.00  0.00  0.76  0.76  0.96  0.00  0.96    Uniform Delay (d), s/veh 24.4  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0 </td <td></td> <td></td> <td></td> <td>0</td> <td></td> <td></td> <td>1488</td> <td></td> <td></td> <td></td> <td>1781</td> <td></td> <td>1574</td> <td></td>				0			1488				1781		1574	
Cycle Q Clear(g_c), s  1.3  0.0  0.0  1.00  1.00  1.00  1.00    Lane Grp Cap(c), veh/h  493  4519  0  16  2913  907  295  0  130    V/C Ratio(X)  0.06  0.13  0.00  6.63  0.669  0.77  0.00  0.18    Avail Cap(c_a), veh/h  493  4519  0  62  2913  907  1138  0  503    HCM Platoon Ratio  2.00  2.00  2.00  1.00  1.00  1.00  1.00    Upstream Filter(I)  1.00  1.00  0.00  0.76  0.76  0.76  0.96  0.00  0.96    Uniform Delay (d), s/veh 24.4  0.0  0.0  7.3  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0				0.0										
Prop In Lane  1.00  0.00  1.00  1.00  1.00  1.00    Lane Grp Cap(c), veh/h  493  4519  0  16  2913  907  295  0  130    V/C Ratio(X)  0.06  0.13  0.00  0.63  0.60  0.69  0.77  0.00  0.18    Avail Cap(c. a), veh/h  493  4519  0  62  2913  907  1138  0  503    HCM Platoon Ratio  2.00  2.00  2.00  2.00  1.00  1.00  1.00  1.00    Upstream Filter(I)  1.00  1.00  0.00  0.76  0.76  0.96  0.00  0.96    Uniform Delay (d), s/veh 24.4  0.0  0.0  78.3  0.0  0.0  71.9  0.0  68.3    Incr Delay (d2), s/veh 24.4  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0														
Lane Grp Cap(c), veh/h  493  4519  0  16  2913  907  295  0  130    V/C Ratio(X)  0.06  0.13  0.00  0.63  0.60  0.69  0.77  0.00  0.18    Avail Cap(c_a), veh/h  433  4519  0  62  2913  907  1138  0  503    HCM Platoon Ratio  2.00  2.00  2.00  2.00  1.00  1.00  1.00  1.00    Upstream Filter(I)  1.00  1.00  0.00  0.76  0.76  0.76  0.96  0.00  0.96    Uniform Delay (d), s/veh  0.0  0.7  3.2  1.6  0.0  0.2  1.01    Intial Q Delay(d3), s/veh  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0														
V/C Ratio(X)  0.06  0.13  0.00  0.63  0.60  0.69  0.77  0.00  0.18    Avail Cap(c_a), veh/h  493  4519  0  62  2913  907  1138  0  503    HCM Platoon Ratio  2.00  2.00  1.00  2.00  1.00  1.00  1.00    Upstream Filter(I)  1.00  1.00  0.00  0.76  0.76  0.96  0.00  0.96    Uniform Delay (d), s/veh 24.4  0.0  0.0  78.3  0.0  0.0  71.9  0.0  68.3    Incr Delay (d2), s/veh 24.4  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0			4519			2913						0		
Avail Cap(c, a), veh/h  493  4519  0  62  2913  907  1138  0  503    HCM Platoon Ratio  2.00  2.00  1.00  2.00  2.00  1.00  1.00  1.00    Upstream Filter(I)  1.00  1.00  0.00  0.76  0.76  0.96  0.00  0.96    Uniform Delay (d), s/veh 24.4  0.0  0.0  78.3  0.0  0.0  71.9  0.0  68.3    Incr Delay (d2), s/veh  0.0  0.1  0.0  10.8  0.7  3.2  1.6  0.0  0.2    Initial Q Delay(d3), s/veh  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0	,													
HCM Platoon Ratio  2.00  2.00  1.00  1.00  1.00    Upstream Filter(I)  1.00  1.00  0.00  0.76  0.76  0.96  0.00  0.96    Uniform Delay (d), s/veh 24.4  0.0  0.0  78.3  0.0  0.0  71.9  0.0  68.3    Incr Delay (d2), s/veh  0.0  0.1  0.0  1.08  0.7  3.2  1.6  0.0  0.2    Initial Q Delay(d3), s/veh  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0	( )													
Upstream Filter(I)  1.00  0.00  0.76  0.76  0.76  0.96  0.00  0.96    Uniform Delay (d), s/veh 24.4  0.0  0.0  78.3  0.0  0.0  71.9  0.0  68.3    Incr Delay (d2), s/veh  0.0  0.1  0.0  10.8  0.7  3.2  1.6  0.0  0.2    Initial Q Delay(d3),s/veh  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0    Wile BackOfQ(50%),veh/In0.5  0.0  0.0  0.4  0.2  0.8  4.6  0.0  2.1    Unsig. Movement Delay, s/veh  InGrp Delay(d),s/veh  24.4  0.1  0.0  89.1  0.7  3.2  73.5  0.0  68.6    LnGrp Delay(d),s/veh  24.4  0.1  0.0  89.1  0.7  3.2  73.5  0.0  68.6    LnGrp LOS  C  A  A  F  A  A  E  A    Approach LOS  A  A  A  E  A  E  A  B  A  A  B  A  B	11 - 7													
Uniform Delay (d), s/veh 24.4  0.0  0.0  78.3  0.0  0.0  71.9  0.0  68.3    Incr Delay (d2), s/veh  0.0  0.1  0.0  10.8  0.7  3.2  1.6  0.0  0.2    Initial Q Delay(d3), s/veh  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0    %ile BackOfQ(50%), veh/Ir0.5  0.0  0.0  0.4  0.2  0.8  4.6  0.0  2.1    Unsig. Movement Delay, s/veh  Indrp Delay(d), s/veh 24.4  0.1  0.0  89.1  0.7  3.2  73.5  0.0  68.6    LnGrp Delay(d), s/veh 24.4  0.1  0.0  89.1  0.7  3.2  73.5  0.0  68.6    LnGrp Delay(d), s/veh  2.4  0.7  3.2  73.5  0.0  68.6    LnGrp LOS  C  A  F  A  A  E  A    Approach LOS  A  A  A  E  A  E    Timer - Assigned Phs  1  2  4  5  6  A  A  A  B														
Incr Delay (d2), s/veh  0.0  0.1  0.0  10.8  0.7  3.2  1.6  0.0  0.2    Initial Q Delay(d3), s/veh  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0    %ile BackOfQ(50%), veh/ln0.5  0.0  0.0  0.4  0.2  0.8  4.6  0.0  2.1    Unsig. Movement Delay, s/veh	,													
Initial Q Delay(d3),s/veh 0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0														
%ile BackOfQ(50%),veh/Ir0.5  0.0  0.0  0.4  0.2  0.8  4.6  0.0  2.1    Unsig. Movement Delay, s/veh            LnGrp Delay(d),s/veh  24.4  0.1  0.0  89.1  0.7  3.2  73.5  0.0  68.6    LnGrp LOS  C  A  A  F  A  A  E  A  E    Approach Vol, veh/h  602  2377  252    73.0     Approach LOS  A  A  A  A  E      Timer - Assigned Phs  1  2  4  5  6       Phs Duration (G+Y+Rc), s5.8  136.0  18.2  51.8  90.0        Change Period (Y+Rc), s 4.4  5.7  4.9  5.7  *6        Max Green Setting (Gmax5.6  88.3  51.1  9.6  *84		h 0.0												
Unsig. Movement Delay, s/veh    LnGrp Delay(d),s/veh  24.4  0.1  0.0  89.1  0.7  3.2  73.5  0.0  68.6    LnGrp LOS  C  A  A  F  A  A  E  A  E    Approach Vol, veh/h  602  2377  252    Approach Delay, s/veh  1.3  1.7  73.0    Approach LOS  A  A  E    Timer - Assigned Phs  1  2  4  5  6    Phs Duration (G+Y+Rc), s5.8  136.0  18.2  51.8  90.0  90.0    Change Period (Y+Rc), s 4.4  5.7  4.9  5.7  * 6    Max Green Setting (Gmax\$, 6  88.3  51.1  9.6  * 84    Max Q Clear Time (g_c+I12, 9  2.0  12.0  3.3  2.0    Green Ext Time (p_c), s  0.0  7.2  0.5  0.0  50.4    Intersection Summary  HCM 6th Ctrl Delay  7.2  7.2  7.2														
LnGrp Delay(d),s/veh  24.4  0.1  0.0  89.1  0.7  3.2  73.5  0.0  68.6    LnGrp LOS  C  A  A  F  A  A  E  A  E    Approach Vol, veh/h  602  2377  252    Approach Delay, s/veh  1.3  1.7  73.0    Approach LOS  A  A  A  E    Timer - Assigned Phs  1  2  4  5  6    Phs Duration (G+Y+Rc), s5.8  136.0  18.2  51.8  90.0    Change Period (Y+Rc), s 4.4  5.7  4.9  5.7  * 6    Max Green Setting (Gmax5.6  88.3  51.1  9.6  * 84    Max Q Clear Time (g_c+I12, S  2.0  12.0  3.3  2.0    Green Ext Time (p_c), s  0.0  7.2  0.5  0.0  50.4    Intersection Summary  HCM 6th Ctrl Delay  7.2  7.2	. ,		۱											
LnGrp LOS  C  A  F  A  A  E  A  E    Approach Vol, veh/h  602  2377  252    Approach Delay, s/veh  1.3  1.7  73.0    Approach LOS  A  A  E    Timer - Assigned Phs  1  2  4  5  6    Phs Duration (G+Y+Rc), s5.8  136.0  18.2  51.8  90.0  90.0    Change Period (Y+Rc), s 4.4  5.7  4.9  5.7  * 6    Max Green Setting (Gmax5.6  88.3  51.1  9.6  * 84    Max Q Clear Time (g_c+l12, S)  2.0  12.0  3.3  2.0    Green Ext Time (p_c), s  0.0  7.2  0.5  0.0  50.4	•			0.0	89.1	0.7	3.2				73.5	0.0	68.6	
Approach Vol, veh/h  602  2377  252    Approach Delay, s/veh  1.3  1.7  73.0    Approach LOS  A  A  E    Timer - Assigned Phs  1  2  4  5  6    Phs Duration (G+Y+Rc), s5.8  136.0  18.2  51.8  90.0  90.0    Change Period (Y+Rc), s 4.4  5.7  4.9  5.7  * 6    Max Green Setting (Gmax\$,6  88.3  51.1  9.6  * 84    Max Q Clear Time (g_c+I12, \$2  2.0  12.0  3.3  2.0    Green Ext Time (p_c), s  0.0  7.2  0.5  0.0  50.4														
Approach Delay, s/veh  1.3  1.7  73.0    Approach LOS  A  A  E    Timer - Assigned Phs  1  2  4  5  6    Phs Duration (G+Y+Rc), s5.8  136.0  18.2  51.8  90.0    Change Period (Y+Rc), s 4.4  5.7  4.9  5.7  * 6    Max Green Setting (Gmax5.6  88.3  51.1  9.6  * 84    Max Q Clear Time (g_c+112,9s  2.0  12.0  3.3  2.0    Green Ext Time (p_c), s  0.0  7.2  0.5  0.0  50.4														
Approach LOS  A  A  E    Timer - Assigned Phs  1  2  4  5  6    Phs Duration (G+Y+Rc), s5.8  136.0  18.2  51.8  90.0    Change Period (Y+Rc), s 4.4  5.7  4.9  5.7  * 6    Max Green Setting (Gmax5.6  88.3  51.1  9.6  * 84    Max Q Clear Time (g_c+112,9s  2.0  12.0  3.3  2.0    Green Ext Time (p_c), s  0.0  7.2  0.5  0.0  50.4    Intersection Summary  7.2  7.2  7.2  7.2														
Timer - Assigned Phs  1  2  4  5  6    Phs Duration (G+Y+Rc), s5.8  136.0  18.2  51.8  90.0    Change Period (Y+Rc), s 4.4  5.7  4.9  5.7  * 6    Max Green Setting (Gmax\$, 6  88.3  51.1  9.6  * 84    Max Q Clear Time (g_c+l12, \$  2.0  12.0  3.3  2.0    Green Ext Time (p_c), s  0.0  7.2  0.5  0.0  50.4    Intersection Summary  7.2  7.2  7.2  7.2														
Phs Duration (G+Y+Rc), s5.8  136.0  18.2  51.8  90.0    Change Period (Y+Rc), s  4.4  5.7  4.9  5.7  * 6    Max Green Setting (Gmax5.6  88.3  51.1  9.6  * 84    Max Q Clear Time (g_c+112,9s  2.0  12.0  3.3  2.0    Green Ext Time (p_c), s  0.0  7.2  0.5  0.0  50.4    Intersection Summary  7.2  7.2  7.2  7.2							•					_		
Change Period (Y+Rc), s 4.4  5.7  4.9  5.7  * 6    Max Green Setting (Gmax5, 6  88.3  51.1  9.6  * 84    Max Q Clear Time (g_c+112, 9s  2.0  12.0  3.3  2.0    Green Ext Time (p_c), s  0.0  7.2  0.5  0.0  50.4    Intersection Summary    HCM 6th Ctrl Delay  7.2		1												
Max Green Setting (Gmax5,6    88.3    51.1    9.6    * 84      Max Q Clear Time (g_c+I12,9s    2.0    12.0    3.3    2.0      Green Ext Time (p_c), s    0.0    7.2    0.5    0.0    50.4      Intersection Summary      HCM 6th Ctrl Delay    7.2														
Max Q Clear Time (g_c+I12), \$ 2.0    12.0    3.3    2.0      Green Ext Time (p_c), s    0.0    7.2    0.5    0.0    50.4      Intersection Summary    7.2    7.2    7.2    7.2    7.2														
Green Ext Time (p_c), s    0.0    7.2    0.5    0.0    50.4      Intersection Summary    HCM 6th Ctrl Delay    7.2    7.2														
Intersection Summary HCM 6th Ctrl Delay 7.2														
HCM 6th Ctrl Delay 7.2	Green Ext Time (p_c),	s 0.0	7.2		0.5	0.0	50.4							
	Intersection Summary													
	HCM 6th Ctrl Delay			7.2										
				Α										

User approved volume balancing among the lanes for turning movement.

User approved ignoring U-Turning movement.

	٠	-	F	+	•	4	~
Movement	EBL	EBT	WBU	WBT	WBR	SBL	SBR
Lane Configurations	à	<b>^</b>	Ą	<b>^</b>	1	Y	
Traffic Volume (veh/h)	20	760	0	2790	30	20	10
Future Volume (veh/h)	20	760	0	2790	30	20	10
Initial Q (Qb), veh	0	0		0	0	0	0
Ped-Bike Adj(A_pbT)	1.00				0.98	1.00	1.00
Parking Bus, Adj	1.00	1.00		1.00	1.00	1.00	1.00
Work Zone On Approac		No		No		No	
Adj Sat Flow, veh/h/ln	1796	2033		2033	1796	1870	1870
Adj Flow Rate, veh/h	22	817		2847	31	29	15
Peak Hour Factor	0.93	0.93		0.98	0.98	0.68	0.68
Percent Heavy Veh, %	7	7		7	7	2	2
Cap, veh/h	343	5033		3718	998	37	19
Arrive On Green	0.40	1.00		1.00	1.00	0.03	0.03
Sat Flow, veh/h	1711	5732		5732	1489	1104	571
Grp Volume(v), veh/h	22	817		2847	31	45	0
Grp Sat Flow(s), veh/h/l		1850		1850	1489	1712	0
Q Serve(g_s), s	1.3	0.0		0.0	0.0	4.2	0.0
Cycle Q Clear(g_c), s	1.3	0.0		0.0	0.0	4.2	0.0
Prop In Lane	1.00	0.0		0.0	1.00	4.Z 0.64	0.0
Lane Grp Cap(c), veh/r		5033		3718	998	0.64 58	0.33
, ,	0.06	0.16			0.03	ос 0.78	0.00
V/C Ratio(X)	0.06 343	0.16 5033		0.77 3718	0.03 998	0.78 342	
Avail Cap(c_a), veh/h							0
HCM Platoon Ratio	2.00	2.00		2.00	2.00	1.00	1.00
Upstream Filter(I)	0.99	0.99		0.64	0.64	1.00	0.00
Uniform Delay (d), s/ve		0.0		0.0	0.0	76.7	0.0
Incr Delay (d2), s/veh	0.0	0.1		1.0	0.0	8.3	0.0
Initial Q Delay(d3),s/vel		0.0		0.0	0.0	0.0	0.0
%ile BackOfQ(50%),ve		0.0		0.3	1.4	2.0	0.0
Unsig. Movement Delay							
LnGrp Delay(d),s/veh	38.7	0.1		1.0	0.0	85.0	0.0
LnGrp LOS	D	Α		A	A	F	A
Approach Vol, veh/h		839		2878		45	
Approach Delay, s/veh		1.1		1.0		85.0	
Approach LOS		Α		А		F	
Timer - Assigned Phs		2		4	5	6	
Phs Duration (G+Y+Rc	), s	150.6		9.4	37.6	113.0	
Change Period (Y+Rc),	, ·	5.5		4.0	5.5	* 5.8	
Max Green Setting (Gr				32.0		1.1E2	
Max Q Clear Time (g_c		2.0		6.2	3.3	2.0	
Green Ext Time (p c),		13.7		0.0	0.0	98.5	
ŭ = <i>//</i>	0	10.7		0.0	0.0	50.5	
Intersection Summary							
HCM 6th Ctrl Delay			2.0				
HCM 6th LOS			А				

User approved volume balancing among the lanes for turning movement.

User approved ignoring U-Turning movement.

	۲	-	7	4	+	*	1	t	۲	4	ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	5	<b>^</b>		ň	<b>^</b>	1				ň	-	1	
Traffic Volume (veh/h)	50	700	0	10	2830	170	0	0	0	60	0	60	
Future Volume (veh/h)	50	700	0	10	2830	170	0	0	0	60	0	60	
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.98				1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00	
Work Zone On Approa		No			No						No		
Adj Sat Flow, veh/h/ln	1796	2033	0	1870	2033	1796				1870	0	1870	
Adj Flow Rate, veh/h	54	761	0	11	2979	179				70	0	70	
Peak Hour Factor	0.92	0.92	0.92	0.95	0.95	0.95				0.86	0.86	0.86	
Percent Heavy Veh, %	7	7	0	2	7	7				2	0	2	
Cap, veh/h	68	3697	0	303	4477	1201				99	0	151	
Arrive On Green	0.08	1.00	0.00	0.34	1.00	1.00				0.06	0.00	0.06	
Sat Flow, veh/h	1711	5732	0	1781	5549	1488				1781	0	1585	
Grp Volume(v), veh/h	54	761	0	11	2979	179				70	0	70	
Grp Sat Flow(s), veh/h/l		1850	0	1781	1850	1488				1781	0	1585	
Q Serve(g_s), s	5.0	0.0	0.0	0.7	0.0	0.0				6.2	0.0	6.7	
Cycle Q Clear(g_c), s	5.0	0.0	0.0	0.7	0.0	0.0				6.2	0.0	6.7	
Prop In Lane	1.00	0.0	0.00	1.00	0.0	1.00				1.00	0.0	1.00	
Lane Grp Cap(c), veh/ł		3697	0.00	303	4477	1201				99	0	151	
V/C Ratio(X)	0.80	0.21	0.00	0.04	0.67	0.15				0.71	0.00	0.46	
Avail Cap(c_a), veh/h	113	3697	0	303	4477	1201				379	0.00	400	
HCM Platoon Ratio	2.00	2.00	1.00	2.00	2.00	2.00				1.00	1.00	1.00	
Upstream Filter(I)	0.99	0.99	0.00	0.50	0.50	0.50				1.00	0.00	1.00	
Uniform Delay (d), s/ve		0.0	0.0	44.0	0.0	0.0				74.3	0.0	68.5	
Incr Delay (d2), s/veh	7.6	0.1	0.0	0.0	0.4	0.1				3.5	0.0	0.8	
Initial Q Delay(d3),s/ve		0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0	
%ile BackOfQ(50%),ve		0.0	0.0	0.3	0.2	0.0				2.9	0.0	6.0	
Unsig. Movement Dela													
LnGrp Delay(d),s/veh	80.6	0.1	0.0	44.0	0.4	0.1				77.8	0.0	69.4	
LnGrp LOS	F	A	A	D	A	A				E	A	E	
Approach Vol, veh/h		815			3169						140		
Approach Delay, s/veh		5.5			0.5						73.6		
Approach LOS		A			A						E		
	1	2		4		6					_		
Timer - Assigned Phs					5		_	_	_			_	
Phs Duration (G+Y+Ro				13.8	10.7	135.5							
Change Period (Y+Rc)		* 6		4.9	4.4	6.4							
Max Green Setting (Gn				34.0	10.6	99.7							
Max Q Clear Time (g_c		2.0		8.7	7.0	2.0							
Green Ext Time (p_c),	s 0.0	7.6		0.2	0.0	85.0							
Intersection Summary													
HCM 6th Ctrl Delay			4.0										
HCM 6th LOS			А										
Notes													

	۶	-	7	1	+	*	1	t	1	4	ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	1	<b>†</b> ††		۲	<b>†</b> ††	1				7	4		
Traffic Volume (veh/h)	70	700	0	10	2990	260	0	0	0	160	0	90	
Future Volume (veh/h)	70	700	0	10	2990	260	0	0	0	160	0	90	
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.98				1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00	
Work Zone On Approac	ch	No			No						No		
Adj Sat Flow, veh/h/ln	1796	2033	0	1870	2033	1796				1870	1870	1870	
Adj Flow Rate, veh/h	76	761	0	10	3051	265				147	57	106	
Peak Hour Factor	0.92	0.92	0.92	0.98	0.98	0.98				0.85	0.85	0.85	
Percent Heavy Veh, %	7	7	0	2	7	7				2	2	2	
Cap, veh/h	268	4345	0	16	3472	931				200	66	122	
Arrive On Green	0.31	1.00	0.00	0.01	0.63	0.63				0.11	0.11	0.11	
Sat Flow, veh/h	1711	5732	0	1781	5549	1488				1781	586	1089	
Grp Volume(v), veh/h	76	761	0	10	3051	265				147	0	163	
Grp Sat Flow(s), veh/h/li		1850	0	1781	1850	1488				1781	0	1674	
Q Serve(g_s), s	5.4	0.0	0.0	0.9	73.2	13.0				12.8	0.0	15.3	
Cycle Q Clear(g_c), s	5.4	0.0	0.0	0.9	73.2	13.0				12.8	0.0	15.3	
Prop In Lane	1.00	0.0	0.00	1.00	10.2	1.00				1.00	0.0	0.65	
Lane Grp Cap(c), veh/h		4345	0.00	1.00	3472	931				200	0	188	
V/C Ratio(X)	0.28	0.18	0.00	0.63	0.88	0.28				0.73	0.00	0.87	
Avail Cap(c_a), veh/h	268	4345	0.00	45	3472	931				345	0.00	324	
HCM Platoon Ratio	2.00	2.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00	
Upstream Filter(I)	0.99	0.99	0.00	0.34	0.34	0.34				1.00	0.00	1.00	
Uniform Delay (d), s/vel		0.00	0.0	79.0	24.9	13.6				68.7	0.0	69.8	
Incr Delay (d2), s/veh	0.2	0.0	0.0	5.0	1.3	0.3				2.0	0.0	4.9	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0	
%ile BackOfQ(50%),vef		0.0	0.0	0.0	29.4	4.2				5.9	0.0	6.8	
Unsig. Movement Delay			0.0	0.4	23.4	4.2				5.5	0.0	0.0	
LnGrp Delay(d),s/veh	48.4	0.1	0.0	84.0	26.2	13.9				70.7	0.0	74.7	
LnGrp LOS	40.4 D	A	0.0 A	04.0 F	20.2 C	13.9 B				<i>г</i> о. <i>г</i>	0.0 A	Γ4.7 Ε	
	U		A	Г		D				E			
Approach Vol, veh/h		837			3326						310		
Approach Delay, s/veh		4.5			25.4 C						72.8 F		
Approach LOS		А			C						E		
Timer - Assigned Phs	1	2		4	5	6							
Phs Duration (G+Y+Rc)		131.3		22.9	31.0	106.1							
Change Period (Y+Rc),		6.0		4.9	6.0	* 6							
Max Green Setting (Gm		109.7		31.0	13.6	* 1E2							
Max Q Clear Time (g_c		2.0		17.3	7.4	75.2							
Green Ext Time (p_c), s	s 0.0	9.6		0.7	0.0	24.6							
Intersection Summary													
HCM 6th Ctrl Delay			24.7										
HCM 6th LOS			С										
			-										

User approved volume balancing among the lanes for turning movement.

User approved ignoring U-Turning movement.

	٠	+	+	*	4	~
Movement E	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	ኘኘ	<b>†</b> ††	<b>*†</b>	1	<u>ሕ</u> ሻ	11
	160	570	2730	160	470	650
	160	570	2730	160	470	650
Initial Q (Qb), veh	0	0	0	0	0	0
	1.00		Ŭ	0.97	1.00	1.00
<b>, , , ,</b>	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No	1.00	No	1.00
	796	2033	2033	1796	1841	1841
	174	620	2033	1790	490	677
	).92	0.92	2904 0.94	0.94	490 0.96	0.96
Percent Heavy Veh, %	7	7	7	7	4	4
	452	4259	3628	882	557	824
	).14	0.77	1.00	1.00	0.16	0.16
· · · · ·	319	5732	6098	1482	3401	2745
	174	620	2904	170	490	677
Grp Sat Flow(s),veh/h/In1	659	1850	2033	1482	1700	1373
Q Serve(g_s), s	7.6	4.7	0.0	0.0	22.5	14.9
Cycle Q Clear(g_c), s	7.6	4.7	0.0	0.0	22.5	14.9
Prop In Lane 1	1.00			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	452	4259	3628	882	557	824
	).38	0.15	0.80	0.19	0.88	0.82
	452	4259	3628	882	659	906
$1 \times - 7$	1.00	1.00	2.00	2.00	1.00	1.00
	).97	0.97	0.09	0.09	0.85	0.85
Uniform Delay (d), s/veh 6		4.9	0.0	0.0	65.4	52.0
	0.2	0.1	0.2	0.0	9.1	4.4
Initial Q Delay(d3),s/veh		0.0	0.2	0.0	0.0	0.0
		1.5	0.0	0.0	10.3	19.8
%ile BackOfQ(50%),veh/li			0.1	0.0	10.5	19.0
Unsig. Movement Delay, s			0.0	0.0	744	EC 4
3.	53.2	4.9	0.2	0.0	74.4	56.4
LnGrp LOS	E	A	A	A	E	E
Approach Vol, veh/h		794	3074		1167	
Approach Delay, s/veh		17.7	0.2		64.0	
Approach LOS		В	А		E	
Timer - Assigned Phs		2		4	5	6
Phs Duration (G+Y+Rc), s	s	128.8		31.2	27.8	101.0
Change Period (Y+Rc), s		6.0		5.0	6.0	* 5.8
Max Green Setting (Gmax	x). s	118.0		31.0	18.6	* 95
Max Q Clear Time (g_c+l		6.7		24.5	9.6	2.0
Green Ext Time (p_c), s	1), 0	5.9		1.7	0.2	85.4
Intersection Summary		0.0			0.2	00.1
			47.7			
HCM 6th Ctrl Delay			17.7			
HCM 6th LOS			В			

### Notes

User approved volume balancing among the lanes for turning movement.

User approved ignoring U-Turning movement.

	۶	-	7	1	+	*	1	Ť	1	4	Ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	à	<b>†</b> ††	1	<u>ሕ</u> ካ	朴朴		5	4	1	-	4	1	
Traffic Volume (veh/h)	80	740	120	260	2560	150	180	150	170	210	420	270	
Future Volume (veh/h)	80	740	120	260	2560	150	180	150	170	210	420	270	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	-	0.98	1.00	-	0.97	1.00		0.97	1.00	-	0.98	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No			No			No			No		
Adj Sat Flow, veh/h/ln	1796	2033	1796	1513	2033	1796	1870	1870	1870	1870	1870	1870	
dj Flow Rate, veh/h	86	796	129	265	2612	153	189	194	184	244	488	314	
eak Hour Factor	0.93	0.93	0.93	0.98	0.98	0.98	0.89	0.89	0.89	0.86	0.86	0.86	
Percent Heavy Veh, %	7	7	7	7	7	7	2	2	2	2	2	2	
ap, veh/h	158	1474	397	561	1992	115	254	267	221	165	330	419	
rrive On Green	0.18	0.53	0.53	0.40	0.74	0.74	0.14	0.14	0.14	0.27	0.27	0.27	
at Flow, veh/h	1711	5549	1495	2795	5358	308	1781	1870	1544	613	1226	1554	
rp Volume(v), veh/h	86	796	129	265	1789	976	189	194	184	732	0	314	
Grp Sat Flow(s), veh/h/l		1850	1495	1397	1850	1967	1781	1870	1544	1840	0	1554	
Serve(g_s), s	7.3	15.1	7.8	11.2	59.5	59.5	16.3	15.9	18.6	43.1	0.0	29.6	
ycle Q Clear(g_c), s	7.3	15.1	7.8	11.2	59.5	59.5	16.3	15.9	18.6	43.1	0.0	29.6	
op In Lane	1.00		1.00	1.00	00.0	0.16	1.00	10.0	1.00	0.33	0.0	1.00	
ane Grp Cap(c), veh/h		1474	397	561	1376	731	254	267	221	496	0	419	
C Ratio(X)	0.55	0.54	0.32	0.47	1.30	1.33	0.74	0.73	0.83	1.48	0.00	0.75	
ail Cap(c_a), veh/h	158	1474	397	561	1376	731	345	362	299	496	0.00	419	
CM Platoon Ratio	2.00	2.00	2.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	
ostream Filter(I)	0.88	0.88	0.88	0.49	0.49	0.49	1.00	1.00	1.00	1.00	0.00	1.00	
niform Delay (d), s/vel		31.1	29.4	41.6	20.5	20.5	65.8	65.6	66.7	58.5	0.0	53.5	
cr Delay (d2), s/veh	2.0	1.3	1.9	0.1	137.8	155.4	3.3	2.5	10.5	225.4	0.0	6.8	
tial Q Delay(d3),s/vel		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
ile BackOfQ(50%),vel		5.6	2.8	3.4	37.8	43.7	7.7	7.9	8.0	51.1	0.0	12.5	
nsig. Movement Delay			2.0	0.1	01.0			1.0	0.0	•	0.0	.2.0	
nGrp Delay(d),s/veh	64.2	32.3	31.3	41.7	158.3	175.9	69.1	68.1	77.2	283.9	0.0	60.3	
Grp LOS	E	C	C	D	F	F	E	E	E	200.0	A	E	
oproach Vol, veh/h	_	1011	v		3030	•	_	567	_	•	1046	_	
oproach Delay, s/veh		34.9			153.8			71.4			216.7		
oproach LOS		04.5 C			F			E			F		
		•						_					
imer - Assigned Phs	1	2		4	5	6		8					
hs Duration (G+Y+Rc)		47.7		48.0	19.1	65.1		27.8					
hange Period (Y+Rc),		5.2		4.9	4.4	5.6		4.9					
lax Green Setting (Gr		42.5		43.1	6.6	59.5		31.0					
ax Q Clear Time (g_c		17.1		45.1	9.3	61.5		20.6					
reen Ext Time (p_c), s	s 0.4	14.2		0.0	0.0	0.0		1.1					
tersection Summary													
ICM 6th Ctrl Delay			135.9										
CM 6th LOS			135.9 F										
			1										
lotes													
Jser approved volume	balanc	ing amo	ong the	lanes fo	or turnir	ng move	ment.						
loor approved ignoring	LI Tur	ning mo	vomon	•									

User approved ignoring U-Turning movement.

	٠	<b>→</b>	F	+	*	4	4
Movement E	BL	EBT	WBU	WBT	WBR	SBL	SBR
Lane Configurations	A	<b>†</b> ††	Ą	<b>†</b> ††	1	٦Y	1
Č.	150	960	0	2680	340	210	430
	150	960	0	2680	340	210	430
Initial Q (Qb), veh	0	0		0	0	0	0
, <u>, ,</u> ,	.00				0.97	1.00	1.00
<b>v</b> , ,	.00	1.00		1.00	1.00	1.00	1.00
Work Zone On Approach		No		No		No	
	796	2033		2033	1796	1563	1856
	163	1043		2821	358	266	544
Peak Hour Factor 0.	.92	0.92		0.95	0.95	0.79	0.79
Percent Heavy Veh, %	7	7		7	7	3	3
	172	4092		3333	891	300	635
	.20	1.00		1.00	1.00	0.20	0.20
Sat Flow, veh/h 17	711	5732		5732	1483	1488	3145
Grp Volume(v), veh/h 1	163	1043		2821	358	266	544
Grp Sat Flow(s),veh/h/In17		1850		1850	1483	1488	1572
Q Serve(g_s), s 1	5.0	0.0		0.0	0.0	27.8	26.7
	5.0	0.0		0.0	0.0	27.8	26.7
	.00				1.00	1.00	1.00
Lane Grp Cap(c), veh/h 1		4092		3333	891	300	635
	.95	0.25		0.85	0.40	0.89	0.86
1 ( = //	172	4092		3333	891	335	708
	.00	2.00		2.00	2.00	1.00	1.00
1 (7	.88	0.88		0.09	0.09	0.91	0.91
Uniform Delay (d), s/veh 63		0.0		0.0	0.0	62.1	61.6
	8.7	0.1		0.3	0.1	21.3	9.2
Initial Q Delay(d3),s/veh (		0.0		0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/Inf		0.1		0.1	0.0	12.3	22.5
Unsig. Movement Delay, s							
LnGrp Delay(d),s/veh 112		0.1		0.3	0.1	83.4	70.8
LnGrp LOS	F	Α		Α	Α	F	E
Approach Vol, veh/h		1206		3179		810	
Approach Delay, s/veh		15.3		0.3		74.9	
Approach LOS		В		А		Е	
Timer - Assigned Phs		2		4	5	6	
Phs Duration (G+Y+Rc), s	;	123.2		36.8	21.3	101.9	
Change Period (Y+Rc), s		5.2		4.5	5.2	* 5.8	
Max Green Setting (Gmax)	(), S			36.0	13.6	* 96	
Max Q Clear Time (g_c+l1		2.0		29.8	17.0	2.0	
Green Ext Time (p_c), s		22.4		2.5	0.0	87.7	
Intersection Summary							
HCM 6th Ctrl Delay			15.4				
HCM 6th LOS			B				
			U				

### Notes

User approved volume balancing among the lanes for turning movement.

User approved ignoring U-Turning movement.

	٠	<b>→</b>	7	1	+	*	1	t	1	4	ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	2	<b>†††</b>	1	2	<b>†</b> ††	1	ካካ	-4î†	1	<u>ሕ</u> ግ	<b>≜</b> †₽		
Traffic Volume (veh/h)	100	650	370	200	1970	160	1020	650	120	230	480	230	
Future Volume (veh/h)	100	650	370	200	1970	160	1020	650	120	230	480	230	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		0.98	1.00		0.98	1.00		0.98	1.00		0.98	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No			No			No			No		
Adj Sat Flow, veh/h/ln	1796	2033	1796	1796	2033	1724	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	105	684	389	211	2074	168	976	820	126	274	571	274	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.84	0.84	0.84	
Percent Heavy Veh, %	7	7	7	7	7	7	2	2	2	2	2	2	
Cap, veh/h	103	1443	770	256	1984	514	891	935	389	685	458	219	
Arrive On Green	0.02	0.09	0.09	0.15	0.36	0.36	0.25	0.25	0.25	0.20	0.20	0.20	
Sat Flow, veh/h	1711	5549	1498	1711	5549	1438	3563	3741	1556	3456	2310	1107	
Grp Volume(v), veh/h	105	684	389	211	2074	168	976	820	126	274	439	406	
Grp Sat Flow(s),veh/h/li		1850	1498	1711	1850	1438	1781	1870	1556	1728	1777	1640	
Q Serve(g_s), s	9.6	18.8	27.5	19.1	57.2	13.6	40.0	33.7	10.6	11.0	31.7	31.7	
Cycle Q Clear(g_c), s	9.6	18.8	27.5	19.1	57.2	13.6	40.0	33.7	10.6	11.0	31.7	31.7	
Prop In Lane	1.00		1.00	1.00	•••-	1.00	1.00	•••	1.00	1.00	•	0.67	
Lane Grp Cap(c), veh/h		1443	770	256	1984	514	891	935	389	685	352	325	
V/C Ratio(X)	1.02	0.47	0.51	0.83	1.05	0.33	1.10	0.88	0.32	0.40	1.25	1.25	
Avail Cap(c_a), veh/h	103	1443	770	271	1984	514	891	935	389	685	352	325	
HCM Platoon Ratio	0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	0.88	0.88	0.88	1.00	1.00	1.00	1.00	1.00	1.00	0.60	0.60	0.60	
Uniform Delay (d), s/vel		62.7	32.1	66.0	51.4	37.4	60.0	57.6	49.0	55.9	64.2	64.2	
Incr Delay (d2), s/veh	89.6	1.0	2.1	16.4	33.3	1.7	59.8	9.2	0.3	0.1	124.9	127.1	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh		9.5	17.3	9.4	31.8	5.0	25.1	16.8	4.1	4.8	26.4	24.6	
Unsig. Movement Delay			17.5	5.4	01.0	5.0	20.1	10.0	4.1	4.0	20.4	24.0	
LnGrp Delay(d),s/veh		63.7	34.1	82.5	84.7	39.1	119.8	66.8	49.2	56.0	189.1	191.2	
LnGrp LOS	100.0 F	03.7 E	34.1 C	02.5 F	04.7 F	39.1 D	119.0 F	00.0 E	49.2 D	50.0 E	109.1 F	191.2 F	
	Г		U	Г		U	Г		U	E		Г	
Approach Vol, veh/h		1178			2453			1922			1119		
Approach Delay, s/veh		63.2			81.4			92.6			157.3		
Approach LOS		E			F			F			F		
Timer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Rc)		47.3		37.0	14.0	63.0		46.0					
Change Period (Y+Rc),		* 5.7		5.3	4.4	5.8		6.0					
Max Green Setting (Gm		* 42		31.7	9.6	57.2		40.0					
Max Q Clear Time (g_c				33.7	11.6	59.2		42.0					
Green Ext Time (p_c), s	s 0.1	5.1		0.0	0.0	0.0		0.0					
Intersection Summary													
HCM 6th Ctrl Delay			94.1										
HCM 6th LOS			F										

User approved volume balancing among the lanes for turning movement.

User approved ignoring U-Turning movement.

ę	٠	<b>→</b>	7	4	+	•	1	Ť	1	4	ţ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	٦	<b>^</b>	1			11				ሻሻ		77	
Traffic Volume (veh/h)	0	280	960	0	1340	590	0	0	0	300	0	880	
Future Volume (veh/h)	0	280	960	0	1340	590	0	0	0	300	0	880	
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00				1.00		1.00	
<b>v</b> , ,	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00	
Work Zone On Approach		No			No						No		
	796	2033	1796	0	2033	1796				1870	0	1870	
Adj Flow Rate, veh/h	0	304	0	0	1411	0				341	0	1000	
Peak Hour Factor (	0.92	0.92	0.92	0.95	0.95	0.95				0.88	0.88	0.88	
Percent Heavy Veh, %	7	7	7	0	7	7				2	0	2	
Cap, veh/h	1	3017		0	3017					516	0	335	
Arrive On Green	0.00	1.00	0.00	0.00	0.78	0.00				0.15	0.00	0.15	
Sat Flow, veh/h 1	1711	3862	1522	0	3964	2679				3456	0	2790	
Grp Volume(v), veh/h	0	304	0	0	1411	0				341	0	1000	
Grp Sat Flow(s),veh/h/ln1	1711	1931	1522	0	1931	1340				1728	0	1395	
Q Serve(g_s), s	0.0	0.0	0.0	0.0	20.1	0.0				14.9	0.0	23.9	
Cycle Q Clear(g_c), s	0.0	0.0	0.0	0.0	20.1	0.0				14.9	0.0	23.9	
Prop In Lane	1.00		1.00	0.00		1.00				1.00		1.00	
Lane Grp Cap(c), veh/h	1	3017		0	3017					516	0	335	
V/C Ratio(X)	0.00	0.10		0.00	0.47					0.66	0.00	2.99	
Avail Cap(c_a), veh/h	489	3017		0	3017					516	0	335	
	1.67	1.67	1.67	1.00	1.00	1.00				1.00	1.00	1.00	
Upstream Filter(I)	0.00	1.00	0.00	0.00	0.93	0.00				1.00	0.00	1.00	
Uniform Delay (d), s/veh	0.0	0.0	0.0	0.0	6.0	0.0				64.2	0.0	105.4	
Incr Delay (d2), s/veh	0.0	0.1	0.0	0.0	0.5	0.0				2.5	0.0	902.2	
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0	
%ile BackOfQ(50%),veh/l	In0.0	0.0	0.0	0.0	7.0	0.0				6.8	0.0	41.9	
Unsig. Movement Delay,													
LnGrp Delay(d),s/veh	0.0	0.1	0.0	0.0	6.5	0.0				66.7	0.0	1007.6	
LnGrp LOS	А	А		А	А					Е	А	F	
Approach Vol, veh/h		304	А		1411	А					1341		
Approach Delay, s/veh		0.1			6.5						768.4		
Approach LOS		А			А						F		
Timer - Assigned Phs		2		4	5	6							
Phs Duration (G+Y+Rc),	<u>_</u>	131.0		29.0		131.0							
Change Period (Y+Rc), s		6.0		29.0 5.1	* 4.7	6.0							
Max Green Setting (Gma				23.9	* 46	74.6							
Max Q Clear Time (g_c+l		2.0		25.9 25.9	0.0	22.1							
Green Ext Time (p_c), s	11), 5	2.0		25.9	0.0	8.1							
, , , , , , , , , , , , , , , , , , ,		1.0		0.0	0.0	0.1							
Intersection Summary													
HCM 6th Ctrl Delay			340.2										
HCM 6th LOS			F										

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier. Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.

# ノッシュ チャット インシナイ

Movement    EBL    EBT    WBL    WBT    WBL    NBT    NBT    SBL    SBT    SBR      Lane Configurations <b>M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M</b>	Lane Configurations    ++    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #    #			20030503		· •				1941	1		•		
Traffic Volume (veh/h)  0  10  740  0  1160  130  310  0  1370  0  0  0    Future Volume (veh/h)  0  10  740  0  1160  130  310  0  1370  0  0  0  0    Petd-Bike Adj(A_pbT)  100  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.01  1.01  1.01  1.01  1.01  1.01  1.01  1.01  1.01  1.01  1.01  1.01  1.01  1.01  1.01  1.01  1.01  1.01  1.01  1.01	Traffic Volume (veh/h)  0  10  740  0  1180  130  310  0  1370  0  0  0    Future Volume (veh/h)  0  10  740  0  1180  130  310  0  1370  0  0  0  0    Perd-Bike Adj(A, pbT)  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00	Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT		SBL	SBT	SBR	
Traffic Volume (vehh)  0  10  740  0  180  130  310  0  1370  0  0  0    Future Volume (vehh)  0  10  740  0  1160  130  310  0  1370  0  0  0    Perting Bus, Adj  100  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00	Traffic Volume (veh/h)  0  10  740  0  1180  130  310  0  1370  0  0  0    Future Volume (veh/h)  0  10  740  0  1160  1300  310  0  1370  0  0  0  0    Perdus Bus, Adj  100  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00	Lane Configurations		<b>^</b>	1	٦	tttt	1	ሻሻ		77				
Initial Q (Qb), veh  0  0  0  0  0  0  0  0    Ped-Bike Adj(A, pbT)  1.00  1.00  1.00  1.00  1.00  1.00  1.00    Parking Bus, Adj  1.00  1.00  1.00  1.00  1.00  1.00  1.00    Work Zone On Approach  No  No  No  No  No    Adj Sat Flow, veh/h  0  1796  1796  1796  1796  1870  1870    Adj Flow Rate, weh/h  0  7  7  7  7  2  0  2  2    Cap, veh/h  0  895  2  1620  2092  0.517  2  2  0  2  100  1.00  100  1.00  1.00  1.00  1.00  1.00  1.00  1.01  1.02  2.445  0  2.790  G  G  1.01  1.02  1.02  2.445  0  1.395  2.979  G  7.8  G  7.9  1.42  1.02  1.03  1.03  1.00  1.00  1.00  1.00  1.0	Initial Q (Qb), veh  0  0  0  0  0  0  0  0    Ped-Bike Adj(A, pbT)  1.00  1.00  1.00  1.00  1.00  1.00  1.00    Parking Bus, Adji  1.00  1.00  1.00  1.00  1.00  1.00  1.00    Work Zone On Approach  No  No  No  No  No  No    Adj Flow Rate, veh/h  0  1796  1796  1796  1796  1870  0  1870    Cap, veh/h  0  855  2  1620  2092  0  1517    Arrive On Green  0.00  0.26  0.00  0.61  0.00  0.61    Grp Volume(v), veh/h  0  171  1719  1722  1718  17395  1489    Grg Sat Flow, (s), veh/h/ln  1  0  1208  0  337  0  1489    Grg Sat Flow, (s), veh/h  0  100  1.00  1.00  1.00  1.00  1.00  1.00    Grg Calca(g, c), s  0.0  0.2  0.0  0.7  0.0	Traffic Volume (veh/h)	0		740	0		130		0	1370	0	0	0	
Ped-Bike Adj(A_pbT)  1.00  1.00  1.00  1.00  1.00  1.00    Parking Bus, Adj  1.00  1.00  1.00  1.00  1.00  1.00  1.00    Adj Elow, veh/h/n  0  1796  1796  1796  1796  1870  1870    Adj Flow Rate, veh/h/n  0  11  0  0.208  0.20  0.20  0.20  0.20    Percent Heavy Veh, %  0  7  7  7  7  2  0  2    Gap, veh/h  0  895  2  1602  2092  0  1517    Arrive On Green  0.00  0.26  0.00  0.00  0.61  0.00  0.61    Stat Flow, veh/h  0  11  0  0  1208  0.37  0  1489  Green    Grp Volume(v), veh/h  0  112  1716  1522  1711  1545  1522  1728  0  1395    Q Serve(g.s), s  0.0  0.2  0.0  0.177  0.0  4.2  0.0  57.8    Cycle Q Clear(g.c), s <td>Ped-Bike Adj(A, pbT)  1.00  1.00  1.00  1.00  1.00  1.00  1.00    Parking Bus, Adj  1.00  1.00  1.00  1.00  1.00  1.00  1.00    Adj Flow, vehuhin  0  1796  1796  1796  1796  1870  0  1870    Adj Flow, vehuhin  0  110  0  0  100  0.00  0.22  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0</td> <td></td> <td>0</td> <td>0</td> <td>0</td> <td></td>	Ped-Bike Adj(A, pbT)  1.00  1.00  1.00  1.00  1.00  1.00  1.00    Parking Bus, Adj  1.00  1.00  1.00  1.00  1.00  1.00  1.00    Adj Flow, vehuhin  0  1796  1796  1796  1796  1870  0  1870    Adj Flow, vehuhin  0  110  0  0  100  0.00  0.22  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0.92  0											0	0	0	
Parking Bus, Adj  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00    Work Zone On Approach  No  No  No  No  No  No    Adj Sat Flow, vehh/n  0  1796  1796  1796  1796  1796  1796  1796    Peak Hour Factor  0.92  0.92  0.92  0.92  0.92  0.92  0.92    Percent Heavy Veh, %  0  7  7  7  7  2  0  2    Sat Flow, veh/n  0  3503  1522  1711  6179  1522  3456  0  2790    Grp Volume(v), veh/h  0  11  0  0  1208  0  337  0  1489    Grp Sat Flow (s), veh/h/n/n  0  11  0  1208  0  337  0  1489    Grp Sat Flow (s), veh/h/n/n  0  100  1.00  1.00  1.00  1.00  1.00  1.00  1.00    Qserve(g.s.), \$  0.0  0.0  0.77  0.0  4.2  0.0  57.8	Parking Bus, Adj  1.00  1.00  1.00  1.00  1.00  1.00  1.00    Work Zone On Approach  No  No  No  No  No    Adj Sat Flow, veh/hl  0  1796  1796  1796  1796  1706  1706    Adj Sat Flow, veh/hl  0  1179  1796  1706  1707  177  7    Peak Hour Factor  0.92  0.92  0.92  0.92  0.92  0.92    Percent Heavy Veh, %  0  7  7  7  7  7  2  0  2    Cap, veh/h  0  3503  1522  1711  1617  1522  4466  0.00  0.61    Sat Flow, veh/h  0  100  1.00  1.00  1.00  1.00  1.00  1.00    Grp Volume(V), veh/h  0  1170  1522  1711  1545  1522  1728  0  1395    Q Serve(G.s), s  0.0  0.2  0.0  0.17  0.0  4.2  0.0  57.8    Prop In Lane  0.00  1.00			0			0			0					
Work Zone On Ápproach    No    No    No    No      Adj Sat Flow, veh/h/n    0    1796    1796    1796    1870    0    1870      Adj Flow Rake, veh/h    0    11    0    1208    0    337    0    1489      Peak Hour Factor    0.92    0.92    0.92    0.92    0.92    0.92    0.92      Cap, veh/h    0    895    2    1620    2092    0    1517      Arrive On Green    0.00    0.26    0.00    0.01    11    6    1228    3456    0    2790      Grp Volume(v), veh/h    0    11    0    1228    1522    1711    1545    1522    1728    0    1395      Q Serve(g_s), s    0.0    0.2    0.0    0.0    1.77    0.0    4.2    0.0    57.8      Prop In Lane    0.00    1.00    1.00    1.00    1.00    1.00    1.00      V/C Rato(K)    0.00    0.01	Work Zone On Åpproach  No  No  No  No    Adj Sat Flow, vehn/h  0  1796  1796  1796  1796  1870  0  1870    Adj Sat Flow, vehn/h  0  11  0  1208  0  337  0  1489    Peak Hour Factor  0.92  0.92  0.92  0.92  0.92  0.92  0.92    Cap, vehn/h  0  885  2  1620  2092  0  1517    Arrive On Green  0.00  0.80  1522  1711  6179  1522  346  0  2790    Grp Volume(V), vehn/h  0  1100  1  100  1522  1711  1545  1522  1728  0  1395    Q Serve(g.s), s  0.0  0.2  0.0  0.0  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00	<b>,</b> , ,													
Adj Sat Flow, veh/h/ln  0  1796  1796  1796  1796  1870  0  1870    Adj Flow Rate, veh/h  0  11  0  0  1208  0  337  0  1489    Peak Hour Factor  0.92  0.92  0.92  0.92  0.92  0.92  0.92    Percent Heavy Veh, %  0  7  7  7  7  2  0  2    Cap, veh/h  0  0.95  2  1620  2092  0  1517    Arrive On Green  0.00  0.26  0.00  0.11  610  0.61  3337  0  1489    Grp Sat Flow(s) veh/h/ln  0  1706  1522  1711  6179  1522  3456  0  2790    Grp Volume(/), veh/h  0  1706  1522  1717  10  4.2  0.0  57.8    Cycle Q Clear(g.e), s  0.0  0.0  1.00  1.00  1.00  1.00  1.00  1.00  1.00    Q Casto(g.), veh/h  0  1553  665  5380  2097 <t< td=""><td>Adj Sat Flow, veh/h/in  0  1796  1796  1796  1796  1870  0  1870    Adj Flow Rate, veh/h  0  11  0  0  1208  0  337  0  1489    Peak Hour Factor  0.92  0.92  0.92  0.92  0.92  0.92  0.92    Percent Heavy Veh, %  0  7  7  7  7  7  2  0  2    Arrive On Green  0.00  0.26  0.00  0.00  0.26  0.00  0.61    Sat Flow, veh/h  0  1522  1711  6179  1522  1722  2456  0  2790    Grp Sat Flow(s), veh/h  0  11  0  0  1208  0  337  0  1489    Grp Sat Flow(s), veh/h  0  1522  1711  1545  1522  1728  0  1395    Q Serve(g.s), \$  0.0  0.2  0.0  17.7  0.0  4.2  0.0  57.8    Cycle Q Clear(g.c), seh  0  1.00  1.00  1.00  1.00  1.00</td><td></td><td></td><td></td><td>1.00</td><td>1.00</td><td>1.00</td><td>1.00</td><td>1.00</td><td></td><td>1.00</td><td></td><td></td><td></td><td></td></t<>	Adj Sat Flow, veh/h/in  0  1796  1796  1796  1796  1870  0  1870    Adj Flow Rate, veh/h  0  11  0  0  1208  0  337  0  1489    Peak Hour Factor  0.92  0.92  0.92  0.92  0.92  0.92  0.92    Percent Heavy Veh, %  0  7  7  7  7  7  2  0  2    Arrive On Green  0.00  0.26  0.00  0.00  0.26  0.00  0.61    Sat Flow, veh/h  0  1522  1711  6179  1522  1722  2456  0  2790    Grp Sat Flow(s), veh/h  0  11  0  0  1208  0  337  0  1489    Grp Sat Flow(s), veh/h  0  1522  1711  1545  1522  1728  0  1395    Q Serve(g.s), \$  0.0  0.2  0.0  17.7  0.0  4.2  0.0  57.8    Cycle Q Clear(g.c), seh  0  1.00  1.00  1.00  1.00  1.00				1.00	1.00	1.00	1.00	1.00		1.00				
Adj Flow Rate, veh/h  0  11  0  0  1208  0  337  0  1489    Peak Hour Factor  0.92  0.92  0.92  0.92  0.92  0.92  0.92    Cap, veh/h  0  895  2  1620  2092  0  1517    Arrive On Green  0.00  0.26  0.00  0.02  0.00  0.61  0.00  0.61    Sat Flow, veh/h  0  3503  1522  1711  1619  1522  3456  0  2790    Grp Volume(v), veh/h  0  11  0  0  1208  0  337  0  1489    Grp Sat Flow(s), veh/h/ln  0  1706  1522  1711  1545  1522  1728  0.0  57.8    Prop In Lane  0.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  <	Adj Flow Rate, veh/h  0  11  0  0  1208  0  337  0  1489    Peak Hour Factor  0.92  0.92  0.92  0.92  0.92  0.92    Cap, veh/h  0  895  2  1620  2092  0.9  1517    Arrive On Green  0.00  0.26  0.00  0.00  0.61  0.00  0.61  0.00  0.61    Sat Flow, veh/h  0  3503  1522  1711  6179  1522  3466  0  2790    Grp Volume(V), veh/h  0  11  0  0  1208  0  337  0  1489    Grp Sat Flow(S), veh/h/ln  0  1152  1522  1228  0  395  2  1620  209  57.8    Cycle Q Clear(g. c), s  0.0  1.00  1.00  1.00  1.00  1.00  1.00  1.00    Lane Grp Cap(o), veh/h  1.853  605  5380  2097  0  1520    VC Ratio (X)  0.00  0.01  0.00  0.00  0.00  0.00														
Peak Hour Factor    0.92    0.92    0.92    0.96    0.96    0.92    0.92    0.92      Percent Heavy Veh, %    0    7    7    7    7    7    2    0    2      Cap, veh/h    0    895    2    1620    2092    0    1517      Arrive On Green    0.00    0.02    0.00    0.02    0.00    0.61      Sat Flow, veh/h    0    11    0    0    208    0    337    0    1489      Grp Volume(V), veh/h    0    1706    1522    1711    5152    1728    0    1395      Q Serve(g.s), s    0.0    0.2    0.0    0.0    1.77    0.0    4.2    0.0    57.8      Prop In Lane    0.00    1.00    1.00    1.00    1.00    1.00    1.00      Lane Grp Cap(C), veh/h    0    1535    605    530    2097    0    1520      V/C Ratio(X)    0.00    0.0    0.0	Peak Hour Factor  0.92  0.92  0.92  0.92  0.92  0.92  0.92    Percent Heavy Veh, %  0  7  7  7  7  7  2  0  2    Cap, veh/h  0  895  2  1620  2092  0  1517    Arrive On Green  0.00  0.026  0.00  0.61  0.00  0.61    Sat Flow, veh/h  0  303  1522  1711  1617  1522  3456  0  2790    Grp Sat Flow(s), veh/h/h  0  110  0  1208  0  337  0  1489    Grp Sat Flow(s), veh/h/h  0  170  1522  1711  1545  1522  1728  0  1395    Q Serve(g, s), s  0.0  0.2  0.0  0.0  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.														
Percent Heavy Veh, %  0  7  7  7  7  7  7  7  2  0  2    Cap, veh/h  0  895  2  1620  2092  0  1517    Arrive On Green  0.00  0.26  0.00  0.00  0.61  0.00  0.61    Sat Flow, veh/h  0  11  0  0  1202  3456  0  2790    Grp Sat Flow(s), veh/h  0  11  0  0  1208  0  337  0  1489    Grp Sat Flow(s), veh/h/ln  0  100  1.02  1.07  1.02  4.2  0.0  57.8    Cycle Q Clear(g, c), s  0.0  0.0  0.17.7  0.0  4.2  0.0  0.38    Avail Cap(c, a), veh/h  0  855  2  1620  2092  0  1517    V/C Ratio(X)  0.00  0.01  0.00  0.75  0.16  0.00  0.98    Avail Cap(c, a), veh/h  0  1553  605  5380  2097  0  150  100    Ups	Percent Heavy Veh, %  0  7  7  7  7  7  2  0  2    Cap, veh/h  0  895  2  1620  2092  0  1517    Arrive On Green  0.00  0.02  0.00  1617  1522  3456  0  2790    Grp Volume(v), veh/h  0  11  0  0  1208  0  337  0  1489    Grp Sat Flow(s), veh/h/ln  0  106  1522  1711  1545  1522  1728  0  1395    Qserve(g, s), s  0.0  0.0  0.0  17.7  0.0  4.2  0.0  57.8    Cycle Q Clear(g, c), s  0.0  0.0  17.7  0.0  4.2  0.0  57.8    VC Ratio(X)  0.00  0.01  1.00  1.00  1.00  1.00  1.00  1.00    Lane Grp Cap(c), veh/h  0  1553  605  5380  2097  0  1520    HCM Platoon Ratio  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00														
Cap, veh/h  0  895  2  1620  2092  0  1517    Arrive On Green  0.00  0.26  0.00  0.00  0.26  0.00  0.61  0.00  0.61    Sat Flow, veh/h  0  3503  1522  1711  6179  1522  3456  0  2790    Grp Volume(v), veh/h  0  110  0  1208  0  337  0  1489    Grp Sat Flow(s), veh/h/ln  0  170  1522  1711  1545  1522  1728  0  1395    Q Serve(gs), s  0.0  0.2  0.0  0.17  0.0  4.2  0.0  57.8    Prop In Lane  0.00  1.00  1.00  1.00  1.00  1.00  1.00    V/C Ratic(X)  0.00  0.01  0.00  0.05  580  2097  1520    HCM Platoon Ratio  1.00  1.00  1.00  1.00  1.00  1.00  1.00    Uniform Delay (d), s/veh  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0	Cap, veh/h  0  895  2  1620  2092  0  1517    Arrive On Green  0.00  0.26  0.00  0.00  0.26  0.00  0.61  0.00  0.61    Sat Flow, veh/h  0  3503  1522  1711  6179  1522  3456  0  2790    Grp Volume(v), veh/h  0  11  0  0  1208  0  337  0  1489    Grp Sat Flow(s), veh/h/n  0  1706  1522  1711  1545  1522  1728  0  1395    Q serve(g.s), s  0.0  0.2  0.0  0.17.7  0.0  4.2  0.0  57.8    Prop In Lane  0.00  1.00  1.00  1.00  1.00  1.00  1.00    V/C Ratio(X)  0.00  0.01  0.00  7.5  0.16  0.00  0.98    Avail Cap(C, a), veh/h  0  1505  6365  5380  2977  0  1520    HCM Platoon Ratio  1.00  1.00  1.00  1.00  1.00  1.00  1.00														
Arrive On Green  0.00  0.26  0.00  0.61  0.00  0.61    Sat Flow, veh/h  0  3503  1522  1711  6179  1522  3456  0  2790    Grp Volume(v), veh/h/ln  0  11  0  0  1208  0  337  0  1489    Grp Sat Flow, veh/h/ln  0  1706  1522  1711  1545  1522  172  0  1395    Q Serve(g_s), s  0.0  0.2  0.0  0.0  17.7  0.0  4.2  0.0  57.8    Prop In Lane  0.00  0.01  1.00  1.00  1.00  1.00    Lane Grp Co(c), veh/h  895  2  1620  2092  0  1517    V/C Ratio(X)  0.00  0.01  0.00  0.75  0.16  0.00  0.98    Avail Cap(c, a), veh/h  0  1553  605  5380  2097  0  1520    HCM Platoon Ratio  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00    Upstream Fider(I)	Arrive On Green  0.00  0.26  0.00  0.26  0.00  0.61  0.00  0.61    Sat Flow, veh/h  0  3030  1522  1711  6179  1522  3456  0  2730    Grp Volume(v), veh/h  0  11  0  0  1208  0  337  0  1489    Grp Sat Flow(s), veh/h/h  0  1706  1522  1711  1512  1714  1522  1745  1522  1741  1522  1741  1545  1522  1715  1522  1716  1523  0  1395    Q Serve(g_s), s  0.0  0.2  0.0  17.7  0.0  4.2  0.0  57.8    Prop In Lane  0.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00    Lane Grp Cap(c), veh/h  0  1553  605  5380  2097  0  1520    HCM Platoan Ratio  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  <				7			7							
Sat Flow, veh/h    0    3503    1522    1711    6179    1522    3456    0    2790      Grp Volume(v), veh/h    0    11    0    0    1208    0    337    0    1489      Grp Sat Flow(s), veh/h/ln    0    1706    1522    1711    1545    1522    1728    0    1395      Q Serve(g.s), s    0    0.2    0.0    0.0    17.7    0.0    4.2    0.0    57.8      Cycle Q Clear(g.c), s    0.0    0.10    1.00    1.00    1.00    1.00      Lane Grp Cap(c), veh/h    0    895    2    1620    2092    0    1517      V/C Ratic(X)    0.00    0.01    0.00    1.00    1.00    1.00    1.00      Upstream Filter(I)    0.00    1.00    1.00    1.00    1.00    1.00    1.00      Unform Delay (d2), s/veh    0.0    0.0    0.3    0.0    0.0    0.0    0.0    0.0    0.0    0.0	Sat Flow, veh/h    0    3503    1522    1711    6179    1522    3456    0    2790      Grp Volume(v), veh/h    0    11    0    0    1208    0    337    0    1489      Grp Sat Flow(s), veh/h    0    1522    1711    1545    1522    1728    0    1395      Q Serve(g, s), s    0.0    0.2    0.0    0.0    17.7    0.0    4.2    0.0    57.8      Cycle Q Clear(g, c), s    0.0    0.0    1.00    1.00    1.00    1.00    1.00      Lane Grp Cap(c), veh/h    0    895    2    1620    2092    0    1517      V/C Ratio(X)    0.00    0.01    0.00    1.00    1.00    1.00    1.00      V/C Ratio(X)    0.00    1.00    1.00    1.00    1.00    1.00    1.00    1.00      Uniform Delay, (d), siveh    0.0    0.0    0.3    0.0    0.0    1.00    1.00      Uniform Delay, (														
Grp Volume(v), veh/h  0  11  0  0  1208  0  337  0  1489    Grp Sat Flow(s),veh/h/ln  0  1706  1522  1711  1545  1522  1728  0  1395    Q Serve(gs), s  0.0  0.2  0.0  0.0  17.7  0.0  4.2  0.0  57.8    Cycle Q Clear(gc), s  0.0  0.0  1.00  1.00  1.00  1.00  1.00    Lane  0.00  0.01  0.00  1.75  0.16  0.00  0.8    Avail Cap(ca), veh/h  0  895  2  1620  2092  0  1517    V/C Ratic(X)  0.00  0.01  0.00  1.00  1.00  1.00  1.00    Avail Cap(ca), veh/h  0  1553  605  5380  2097  0  1520    HCM Platcon Ratio  1.00  1.00  1.00  1.00  1.00  1.00  1.00    Upstream Filter(I)  0.00  0.0  0.0  0.0  0.0  0.0  1.00    Intir Delay (d2), siveh<	Grp Volume(v), veh/h  0  11  0  0  1208  0  337  0  1489    Grp Sat Flow(s), veh/h/ln  0  1706  1522  1711  1545  1522  1728  0  1395    Q Serve(g_s), s  0.0  0.2  0.0  0.0  17.7  0.0  4.2  0.0  57.8    Cycle Q Clear(g_c), s  0.0  0.0  1.00  1.00  1.00  1.00    Lane Grp Cap(c), veh/h  0  895  2  1620  2092  0  1517    V/C Ratio(X)  0.00  0.01  0.00  1.00  1.00  1.00  1.00    Lane Grp Cap(c), veh/h  0  895  2  1620  2097  0  1517    V/C Ratio(X)  0.00  0.01  1.00  1.00  1.00  1.00  1.00  1.00    Upstream Filter(I)  0.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00    Uniform Delay (d), si/veh 0.0  0.0  0.0  0.0  0.0  0.0  0.0  1.00  1.00 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.00</td> <td></td> <td></td> <td></td> <td></td> <td></td>									0.00					
Grp Sat Flow(s),veh/h/ln  0  1706  1522  1711  1545  1522  1728  0  1395    Q Serve(g.s), s  0.0  0.2  0.0  0.0  17.7  0.0  4.2  0.0  57.8    Cycle Q Clear(gc), s  0.0  0.2  0.0  0.0  17.7  0.0  4.2  0.0  57.8    Prop In Lane  0.00  1.00  1.00  1.00  1.00  1.00  1.00    Lane Grp Cap(c), veh/h  0  895  2  1620  2092  0  1517    V/C Ratio(X)  0.00  0.01  1.00  1.00  1.00  1.00  1.00    HOM Platoon Ratio  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00    Upsteam Filter(1)  0.0  0.0  0.0  0.0  0.0  0.0  1.00  1.00    Uniform Delay (d), si/veh  0.0  27.0  0.0  0.0  33.5  0.0  8.5  0.0  21.7    Uniform Delay (d2), si/veh  0.0  0.0  33.7  0.0  <	Grp Sat Flow(s),veh/h/ln  0  1706  1522  1711  1545  1522  1728  0  1395    Q Serve(g_s), s  0.0  0.2  0.0  0.0  17.7  0.0  4.2  0.0  57.8    Cycle Q Clear(g_c), s  0.0  0.2  0.0  0.17.7  0.0  4.2  0.0  57.8    Prop In Lane  0.00  1.00  1.00  1.00  1.00  1.00    Lane Grp Cap(c), veh/h  0  895  2  1620  2092  0  1517    V/C Ratio(X)  0.00  0.01  0.00  0.75  0.16  0.00  0.98    Avail Cap(c_a), veh/h  0  1553  605  5380  2097  0  1.00  1.00    Upstream Filter(1)  0.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00    Uniform Delay (d), siveh  0.0  0.0  0.0  0.0  0.0  0.0  1.00  1.00    Wight Eack CMQ50%), veh/n 0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0	Sat Flow, veh/h	0	3503	1522	1711	6179	1522	3456	0	2790				
Q Šerve(g_s), s  0.0  0.2  0.0  0.0  17.7  0.0  4.2  0.0  57.8    Cycle Q Clear(g_c), s  0.0  1.00  1.00  1.00  1.00  1.00    Lane Grp Cap(c), veh/h  0  895  2  1620  2092  0  1517    V/C Ratic(X)  0.00  0.01  0.00  1.00  1.00  1.00  1.00    V/C Ratic(X)  0.00  0.01  0.00  0.75  0.16  0.00  0.98    Avail Cap(c_a), veh/h  0  1553  605  5380  2097  0  1520    HCM Platoon Ratio  1.00  1.00  1.00  1.00  1.00  1.00  1.00    Upstream Filter(I)  0.00  0.0  0.0  0.0  0.0  0.0  1.00  1.00    Uniform Delay (d2), si/veh  0.0  0.0  0.0  0.0  0.0  0.0  1.00  1.00    Incr Delay (d2), si/veh  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0    Incr Delay (d2), si/veh	Q Serve(g_s), s  0.0  0.2  0.0  0.17.7  0.0  4.2  0.0  57.8    Cycle Q Clear(g_c), s  0.0  1.00  1.00  1.00  1.00  1.00    Lane Grp Cap(c), veh/h  895  2  1620  2092  0  1517    V/C Ratio(X)  0.00  0.01  0.00  0.75  0.16  0.00  0.98    Avail Cap(c_a), veh/h  0  1553  605  5380  2097  0  1520    HCM Platoon Ratio  1.00  1.00  1.00  1.00  1.00  1.00  1.00    Uniform Delay (d), s/veh  0.0  0.0  0.0  0.0  0.0  1.00  1.00    Uniform Delay (d2), s/veh  0.0  0.0  0.0  0.0  0.0  0.0  1.00    Indri al Delay(d3), s/veh  0.0  0.0  0.0  0.0  0.0  0.0  0.0  1.00    Morement Delay, (s/s/veh  0.0  0.0  0.0  0.0  0.0  0.0  1.0  1.00    LnGr pLOS  A  C  A  A	Grp Volume(v), veh/h	0		0	0	1208	0	337	0	1489				
Cycle Q Clear(g_c), s  0.0  0.2  0.0  1.77  0.0  4.2  0.0  57.8    Prop In Lane  0.00  1.00  1.00  1.00  1.00  1.00    Lane Grp Cap(c), veh/h  0  895  2  1620  2092  0  1517    V/C Ratio(X)  0.00  0.01  0.00  0.75  0.16  0.00  0.98    Avail Cap(c_a), veh/h  0  1553  605  5380  2097  0  1520    HCM Platoon Ratio  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00    Upstream Filter(I)  0.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00    Uniform Delay (d), s/veh  0.0  27.0  0.0  0.0  8.5  0.0  27.5    Incr Delay (d2), s/veh  0.0  27.0  0.0  0.0  0.0  0.0  0.0  1.00    Wile BackOfd(50%), veh/H0.0  0.1  0.0  0.0  33.7  0.0  8.5  0.0  46.2    LnGrp LOS  A <td>Cycle Q Clear(g_c), s  0.0  0.2  0.0  17.7  0.0  4.2  0.0  57.8    Prop In Lane  0.00  1.00  1.00  1.00  1.00  1.00    Lane Grp Cap(c), veh/h  0  895  2  1620  2092  0  1517    V/C Ratio(X)  0.00  0.01  0.00  0.75  0.16  0.00  0.98    Avail Cap(c_a), veh/h  0  1553  605  5380  2097  0  1520    HCM Platoon Ratio  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00    Upstream Filter(I)  0.00  0.00  0.00  1.00  1.00  1.00  1.00  1.00    Uniform Delay (d), s/veh 0.0  27.0  0.0  0.3  3.0  0.0  0.0  1.00  1.00    Initial Q Delay(d3), s/veh 0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0    Movement Delay, s/veh  0.1  0.0  0.0  33.7  0.0  8.5  0.0  46.2    LnGrp</td> <td>Grp Sat Flow(s),veh/h/In</td> <td>0</td> <td>1706</td> <td>1522</td> <td>1711</td> <td>1545</td> <td>1522</td> <td>1728</td> <td>0</td> <td>1395</td> <td></td> <td></td> <td></td> <td></td>	Cycle Q Clear(g_c), s  0.0  0.2  0.0  17.7  0.0  4.2  0.0  57.8    Prop In Lane  0.00  1.00  1.00  1.00  1.00  1.00    Lane Grp Cap(c), veh/h  0  895  2  1620  2092  0  1517    V/C Ratio(X)  0.00  0.01  0.00  0.75  0.16  0.00  0.98    Avail Cap(c_a), veh/h  0  1553  605  5380  2097  0  1520    HCM Platoon Ratio  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00    Upstream Filter(I)  0.00  0.00  0.00  1.00  1.00  1.00  1.00  1.00    Uniform Delay (d), s/veh 0.0  27.0  0.0  0.3  3.0  0.0  0.0  1.00  1.00    Initial Q Delay(d3), s/veh 0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0    Movement Delay, s/veh  0.1  0.0  0.0  33.7  0.0  8.5  0.0  46.2    LnGrp	Grp Sat Flow(s),veh/h/In	0	1706	1522	1711	1545	1522	1728	0	1395				
Prop In Lane  0.00  1.00  1.00  1.00  1.00    Lane Grp Cap(c), veh/h  0  895  2  1620  2092  0  1517    V/C Ratio(X)  0.00  0.01  0.00  0.75  0.16  0.00  0.98    Avail Cap(c_a), veh/h  0  1553  605  5380  2097  0  1520    HCM Platoon Ratio  1.00  1.00  1.00  1.00  1.00  1.00  1.00    Upstream Filter(I)  0.00  0.00  0.00  0.00  1.00  1.00  1.00    Upstream Filter(I)  0.00  0.0  0.00  0.00  1.00  1.00  1.00    Uniform Delay (d), s/veh  0.0  0.0  0.0  0.0  0.0  0.0  1.00    Uniform Delay (d), s/veh  0.0  0.0  0.0  0.0  0.0  0.0  1.00    Unsig. Movement Delay, s/veh  0.0  0.0  0.0  33.7  0.0  8.5  0.0  46.2    LnGrp DCS  A  C  A  A  D  D <t< td=""><td>Prop In Lane  0.00  1.00  1.00  1.00  1.00  1.00    Lane Grp Cap(c), veh/h  0  895  2  1620  2092  0  1517    V/C Ratic(X)  0.00  0.01  0.00  0.75  0.16  0.00  0.98    Avail Cap(c_a), veh/h  0  1553  605  5380  2097  0  1520    HCM Platon Ratio  1.00  1.00  1.00  1.00  1.00  1.00  1.00    Upstream Filter(1)  0.00  1.00  1.00  1.00  1.00  1.00  1.00    Uniform Delay (d), s/veh  0.0  27.0  0.0  0.0  33.5  0.0  8.5  0.0  27.5    Inctro Delay (d2), s/veh  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0</td><td>Q Serve(g_s), s</td><td>0.0</td><td>0.2</td><td>0.0</td><td>0.0</td><td>17.7</td><td>0.0</td><td>4.2</td><td>0.0</td><td>57.8</td><td></td><td></td><td></td><td></td></t<>	Prop In Lane  0.00  1.00  1.00  1.00  1.00  1.00    Lane Grp Cap(c), veh/h  0  895  2  1620  2092  0  1517    V/C Ratic(X)  0.00  0.01  0.00  0.75  0.16  0.00  0.98    Avail Cap(c_a), veh/h  0  1553  605  5380  2097  0  1520    HCM Platon Ratio  1.00  1.00  1.00  1.00  1.00  1.00  1.00    Upstream Filter(1)  0.00  1.00  1.00  1.00  1.00  1.00  1.00    Uniform Delay (d), s/veh  0.0  27.0  0.0  0.0  33.5  0.0  8.5  0.0  27.5    Inctro Delay (d2), s/veh  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0	Q Serve(g_s), s	0.0	0.2	0.0	0.0	17.7	0.0	4.2	0.0	57.8				
Lane Grp Cap(c), veh/h  0  895  2  1620  2092  0  1517    V/C Ratio(X)  0.00  0.01  0.00  0.75  0.16  0.00  0.98    Avail Cap(c_a), veh/h  0  1553  605  5380  2097  0  1520    HCM Platoon Ratio  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00    Upstream Filter(I)  0.00  0.00  0.00  1.00  0.00  1.00  1.00  1.00    Uniform Delay (d), s/veh  0.0  0.0  0.0  33.5  0.0  8.5  0.0  27.5    Incr Delay (d2), s/veh  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  <	Lane Grp Cap(c), veh/h  0  895  2  1620  2092  0  1517    V/C Ratio(X)  0.00  0.01  0.00  0.75  0.16  0.00  0.98    Avail Cap(c_a), veh/h  0  1553  605  5380  2097  0  1520    HCM Platoon Ratio  1.00  1.00  1.00  1.00  1.00  1.00  1.00    Upstream Filter(I)  0.00  0.00  0.00  0.00  1.00  1.00  1.00    Uniform Delay (d), s/veh  0.0  0.0  0.0  0.0  0.0  0.0  1.00  1.00    Uniform Delay (d), s/veh  0.0  0.0  0.0  0.0  0.0  0.0  1.00  1.00    Uniform Delay (d), s/veh  0.0  0.0  0.0  0.0  0.0  0.0  1.00    Wile BackOfQ(50%), veh/l/n0.  0.1  0.0  0.0  33.7  0.0  8.5  0.0  46.2    LnGrp Delay (d), s/veh  0.0  27.0  0.0  33.7  39.2  Approach LOS  C  C  C  D	Cycle Q Clear(g_c), s	0.0	0.2	0.0	0.0	17.7	0.0		0.0	57.8				
V/C Ratio(X)  0.00  0.01  0.00  0.75  0.16  0.00  0.98    Avail Cap(c_a), veh/h  0  1553  605  5380  2097  0  1520    HCM Platoon Ratio  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00    Upstream Filter(I)  0.00  0.00  0.00  1.00  1.00  1.00  1.00  1.00    Uniform Delay (d), s/veh  0.0  27.0  0.0  0.0  0.00  0.00  1.00  1.00  1.00    Incr Delay (d2), s/veh  0.0  0.0  0.0  0.0  0.0  0.0  0.0  1.00  1.00    Initial Q Delay(d3), s/veh  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0    Wile BackOfQ(50%), veh/lnO.  0.1  0.0  0.0  6.3  0.0  1.5  0.0  21.7    Unsig. Movement Delay, s/veh  27.0  0.0  0.0  33.7  0.0  8.5  0.0  46.2    LnGrp Delay(d), s/veh  27.0  33.7 <td>V/C Ratio(X)  0.00  0.01  0.00  0.75  0.16  0.00  0.98    Avail Cap(c_a), veh/h  0  1553  605  5380  2097  0  1520    HCM Platoon Ratio  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00    Upstream Filter(I)  0.00  0.00  0.00  1.00  1.00  1.00  1.00    Uniform Delay (d), s/veh  0.0  27.0  0.0  0.33  0.0  8.5  0.0  27.5    Incr Delay (d2), s/veh  0.0  0.0  0.0  0.0  0.0  0.0  1.00  1.00    Uniform Delay (d2), s/veh  0.0  0.0  0.0  0.0  0.0  0.0  1.00  1.00    Uniform Delay (d2), s/veh  0.0  0.0  0.0  0.0  0.0  0.0  1.00  1.00  1.00    Wiel BackOfQ(50%), veh/lr0.0  0.1  0.0  0.0  33.7  0.0  8.5  0.0  46.2    LnGrp Delay, s/veh  27.0  33.7  39.2  39.2  Approach LoS  C&lt;</td> <td>Prop In Lane</td> <td>0.00</td> <td></td> <td>1.00</td> <td>1.00</td> <td></td> <td>1.00</td> <td>1.00</td> <td></td> <td>1.00</td> <td></td> <td></td> <td></td> <td></td>	V/C Ratio(X)  0.00  0.01  0.00  0.75  0.16  0.00  0.98    Avail Cap(c_a), veh/h  0  1553  605  5380  2097  0  1520    HCM Platoon Ratio  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00    Upstream Filter(I)  0.00  0.00  0.00  1.00  1.00  1.00  1.00    Uniform Delay (d), s/veh  0.0  27.0  0.0  0.33  0.0  8.5  0.0  27.5    Incr Delay (d2), s/veh  0.0  0.0  0.0  0.0  0.0  0.0  1.00  1.00    Uniform Delay (d2), s/veh  0.0  0.0  0.0  0.0  0.0  0.0  1.00  1.00    Uniform Delay (d2), s/veh  0.0  0.0  0.0  0.0  0.0  0.0  1.00  1.00  1.00    Wiel BackOfQ(50%), veh/lr0.0  0.1  0.0  0.0  33.7  0.0  8.5  0.0  46.2    LnGrp Delay, s/veh  27.0  33.7  39.2  39.2  Approach LoS  C<	Prop In Lane	0.00		1.00	1.00		1.00	1.00		1.00				
Avail Cap(c_a), veh/h  0  1553  605  5380  2097  0  1520    HCM Platoon Ratio  1.00  1.00  1.00  1.00  1.00  1.00  1.00    Upstream Filter(I)  0.00  1.00  0.00  0.00  1.00  1.00  1.00  1.00    Uniform Delay (d), s/veh  0.0  27.0  0.0  0.0  33.5  0.0  8.5  0.0  27.5    Incr Delay (d2), s/veh  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  1.5  0.0  1.00  1.00    Initial Q Delay(d3), s/veh  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  1.5  0.0  0.0  1.5  0.0  0.0<	Avail Cap(c a), veh/h  0  1553  605  5380  2097  0  1520    HCM Platoon Ratio  1.00  1.00  1.00  1.00  1.00  1.00  1.00    Upstream Filter(I)  0.00  1.00  0.00  0.00  1.00  0.00  1.00  1.00    Uniform Delay (d), s/veh  0.0  27.0  0.0  0.0  33.5  0.0  8.5  0.0  27.5    Incr Delay (d2), s/veh  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0    Wile BackOfQ(50%), veh/hr0.0  0.1  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0    Wile BackOfQ(50%), veh/hr0.0  0.1  0.0  0.0  0.0  0.0  1.5  0.0  21.7    Unsig. Movement Delay, s/veh  0.0  0.0  33.7  0.0  8.5  0.0  46.2    LnGrp Delay(d), s/veh  27.0  0.0  0.0  33.7  39.2  39.2    Approach LOS  C  C  C  D  D    Timer - Assigned Phs	Lane Grp Cap(c), veh/h	0	895		2	1620		2092	0	1517				
HCM Platoon Ratio  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0	HCM Platoon Ratio  1.00  1.00  1.00  1.00  1.00  1.00  1.00    Upstream Filter(I)  0.00  1.00  0.00  1.00  0.00  1.00  1.00    Uniform Delay (d), s/veh  0.0  27.0  0.0  0.0  33.5  0.0  8.5  0.0  27.5    Inct Delay (d2), s/veh  0.0  0.0  0.0  0.0  0.0  0.0  1.5  0.0  1.60    Viale BackOfQ(50%),veh/lr0.0  0.1  0.0  0.0  0.0  0.0  0.0  0.0  0.0    Visig. Movement Delay, s/veh  Indig Movement Delay, s/veh    InGrp Delay(d), s/veh  0.0  27.0  0.0  0.0  33.7  0.0  46.2    InGrp Delay, s/veh  27.0  0.0  0.0  33.7  39.2  Approach LOS  C  C  D    Timer - Assigned Phs  1  2  6  8  P  P  P  32.9  66.0  C  C  D  D	V/C Ratio(X)	0.00	0.01		0.00	0.75		0.16	0.00	0.98				
Upstream Filter(I)  0.00  1.00  0.00  1.00  0.00  1.00    Uniform Delay (d), s/veh  0.0  27.0  0.0  0.0  33.5  0.0  8.5  0.0  27.5    Incr Delay (d2), s/veh  0.0  0.0  0.0  0.3  0.0  0.0  0.0  1.8.7    Initial Q Delay(d3), s/veh  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0    %ile BackOfQ(50%), veh/Ir0.0  0.1  0.0  0.0  6.3  0.0  1.5  0.0  21.7    Unsig. Movement Delay, s/veh	Upstream Filter(I)  0.00  1.00  0.00  1.00  0.00  1.00    Uniform Delay (d), s/veh  0.0  27.0  0.0  0.0  33.5  0.0  8.5  0.0  27.5    Incr Delay (d2), s/veh  0.0  0.0  0.0  0.0  0.0  0.0  0.0  18.7    Initial Q Delay(d3),s/veh  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0    %ile BackOfQ(50%),veh/In0.0  0.1  0.0  0.0  6.3  0.0  1.5  0.0  21.7    Unsig. Movement Delay, s/veh	Avail Cap(c_a), veh/h	0	1553			5380								
Uniform Delay (d), s/veh  0.0  27.0  0.0  0.0  33.5  0.0  8.5  0.0  27.5    Incr Delay (d2), s/veh  0.0  0.0  0.0  0.0  0.0  0.0  0.0  18.7    Initial Q Delay(d3), s/veh  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0    %ile BackOfQ(50%), veh/lr0.0  0.1  0.0  0.0  6.3  0.0  1.5  0.0  21.7    Unsig. Movement Delay, s/veh  0.0  0.0  0.0  33.7  0.0  8.5  0.0  46.2    LnGrp DOS  A  C  A  C  A  A  D    Approach Vol, veh/h  11  A  1208  A  1826    Approach LOS  C  C  C  D  D    Timer - Assigned Phs  1  2  6  8  B    Phs Duration (G+Y+Rc), s 0.0  32.9  32.9  66.0  G    Change Period (Y+Rc), s 6.1  7.0  7.0  6.1  Max Green Setting (Gma35,6  45.0  86.1  60.0	Uniform Delay (d), s/veh  0.0  27.0  0.0  0.0  33.5  0.0  8.5  0.0  27.5    Incr Delay (d2), s/veh  0.0  0.0  0.0  0.0  0.0  0.0  18.7    Initial Q Delay(d3), s/veh  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0    %ile BackOfQ(50%), veh/In0.0  0.1  0.0  0.0  6.3  0.0  1.5  0.0  21.7    Unsig. Movement Delay, s/veh  Intrip Delay(d), s/veh  0.0  27.0  0.0  0.0  33.7  0.0  8.5  0.0  46.2    LnGrp DOS  A  C  A  C  A  A  D    Approach Vol, veh/h  11  A  1208  A  1826    Approach LOS  C  C  D  D  D    Timer - Assigned Phs  1  2  6  8  P    Phs Duration (G+Y+Rc), s0.0  32.9  32.9  66.0  C    Change Period (Y+Rc), s 6.1  7.0  7.0  6.1  Max Green Setting (Gma35.6  45.0  86.1<	HCM Platoon Ratio	1.00		1.00	1.00	1.00	1.00		1.00					
Incr Delay (d2), s/veh  0.0  0.0  0.0  0.3  0.0  0.0  0.0  18.7    Initial Q Delay(d3), s/veh  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0    %ile BackOfQ(50%), veh/Ir0.0  0.1  0.0  0.0  6.3  0.0  1.5  0.0  21.7    Unsig. Movement Delay, s/veh  0.0  0.0  0.0  33.7  0.0  8.5  0.0  46.2    LnGrp Delay(d), s/veh  0.0  27.0  0.0  0.0  33.7  39.2    Approach Vol, veh/h  11  A  1208  A  1826    Approach Delay, s/veh  27.0  33.7  39.2    Approach LOS  C  C  D    Timer - Assigned Phs  1  2  6  8    Phs Duration (G+Y+Rc), s0.0  32.9  32.9  66.0    Change Period (Y+Rc), s 6.1  7.0  7.0  6.1    Max Green Setting (Gma35.6  45.0  86.1  60.0    Max Q Clear Time (p_c), s 0.0  0.0  6.2  0.1    Intersection Summary	Incr Delay (d2), s/veh  0.0  0.0  0.0  0.0  0.0  18.7    Initial Q Delay(d3), s/veh  0.0  0.0  0.0  0.0  0.0  0.0  0.0    %ile BackOfQ(50%), veh/lr0.0  0.1  0.0  0.0  0.0  0.0  0.0  0.0  0.0    Wile BackOfQ(50%), veh/lr0.0  0.1  0.0  0.0  6.3  0.0  1.5  0.0  21.7    Unsig. Movement Delay, s/veh  0.0  0.0  33.7  0.0  8.5  0.0  46.2    LnGrp LOS  A  C  A  C  A  D    Approach Vol, veh/h  11  A  1208  A  1826    Approach LOS  C  C  C  D    Timer - Assigned Phs  1  2  6  8    Phs Duration (G+Y+Rc), s0.0  32.9  32.9  66.0    Change Period (Y+Rc), s 6.1  7.0  7.0  6.1    Max Green Setting (Gma35.6  45.0  86.1  60.0    Max Q Clear Time (g_c+I10,0s  2.2  19.7  59.8   Green Ext Time				0.00										
Initial Q Delay(d3),s/veh  0.0  0.0  0.0  0.0  0.0  0.0  0.0    %ile BackOfQ(50%),veh/lr0.0  0.1  0.0  0.0  6.3  0.0  1.5  0.0  21.7    Unsig. Movement Delay, s/veh	Initial Q Delay(d3),s/veh  0.0  0.0  0.0  0.0  0.0  0.0  0.0    %ile BackOfQ(50%),veh/lr0.0  0.1  0.0  0.0  6.3  0.0  1.5  0.0  21.7    Unsig. Movement Delay, s/veh  0.0  27.0  0.0  0.0  33.7  0.0  8.5  0.0  46.2    LnGrp DOS  A  C  A  C  A  A  D    Approach Vol, veh/h  11  A  1208  A  1826    Approach Delay, s/veh  27.0  33.7  39.2    Approach LOS  C  C  D    Timer - Assigned Phs  1  2  6  8    Phs Duration (G+Y+Rc), s0.0  32.9  32.9  66.0    Change Period (Y+Rc), s 6.1  7.0  7.0  6.1    Max Green Setting (Gma \$\$\$, 6  45.0  86.1  60.0    Max Q Clear Time (g_c+l10, 0s  2.2  19.7  59.8    Green Ext Time (p_c), s  0.0  6.2  0.1    Intersection Summary  HCM 6th Ctrl Delay  37.0		0.0												
%ile BackOfQ(50%),veh/lr0.0  0.1  0.0  0.0  6.3  0.0  1.5  0.0  21.7    Unsig. Movement Delay, s/veh    0.0  33.7  0.0  8.5  0.0  46.2    LnGrp LOS  A  C  A  C  A  A  D    Approach Vol, veh/h  11  A  1208  A  1826    Approach Delay, s/veh  27.0  33.7  39.2    Approach LOS  C  C  D    Timer - Assigned Phs  1  2  6  8    Phs Duration (G+Y+Rc), s0.0  32.9  32.9  66.0    Change Period (Y+Rc), s 6.1  7.0  7.0  6.1    Max Green Setting (Gma35, 6  45.0  86.1  60.0    Max Q Clear Time (g_c+I10, 6  2.2  19.7  59.8    Green Ext Time (p_c), s  0.0  6.2  0.1    Intersection Summary   19.7  59.8	%ile BackOfQ(50%),veh/In0.0  0.1  0.0  0.0  6.3  0.0  1.5  0.0  21.7    Unsig. Movement Delay, s/veh														
Unsig. Movement Delay, s/veh    LnGrp Delay(d),s/veh  0.0  27.0  0.0  0.0  33.7  0.0  8.5  0.0  46.2    LnGrp LOS  A  C  A  C  A  A  D    Approach Vol, veh/h  11  A  1208  A  1826    Approach Delay, s/veh  27.0  33.7  39.2    Approach LOS  C  C  D    Timer - Assigned Phs  1  2  6  8    Phs Duration (G+Y+Rc), s0.0  32.9  32.9  66.0    Change Period (Y+Rc), s 6.1  7.0  7.0  6.1    Max Green Setting (Gma35.6  45.0  86.1  60.0    Max Q Clear Time (g_c+I10, & 2.2  19.7  59.8  Green Ext Time (p_c), s 0.0  0.0    Intersection Summary  Intersection Summary  0.1  0.1  0.1  0.1	Unsig. Movement Delay, s/veh    LnGrp Delay(d),s/veh  0.0  27.0  0.0  0.0  33.7  0.0  8.5  0.0  46.2    LnGrp LOS  A  C  A  C  A  D    Approach Vol, veh/h  11  A  1208  A  1826    Approach Delay, s/veh  27.0  33.7  39.2    Approach LOS  C  C  D    Timer - Assigned Phs  1  2  6  8    Phs Duration (G+Y+Rc), s0.0  32.9  32.9  66.0    Change Period (Y+Rc), s 6.1  7.0  7.0  6.1    Max Green Setting (Gmaxs, s  45.0  86.1  60.0    Max Q Clear Time (gc+110, s  2.2  19.7  59.8    Green Ext Time (p_c), s  0.0  6.2  0.1    Intersection Summary  400  6.2  0.1	Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0		0.0							
LnGrp Delay(d),s/veh  0.0  27.0  0.0  0.0  33.7  0.0  8.5  0.0  46.2    LnGrp LOS  A  C  A  C  A  A  D    Approach Vol, veh/h  11  A  1208  A  1826    Approach Delay, s/veh  27.0  33.7  39.2    Approach LOS  C  C  D    Timer - Assigned Phs  1  2  6  8    Phs Duration (G+Y+Rc), s0.0  32.9  32.9  66.0    Change Period (Y+Rc), s 6.1  7.0  7.0  6.1    Max Green Setting (Gma35.6  45.0  86.1  60.0    Max Q Clear Time (g_c+I10, 0s  2.2  19.7  59.8    Green Ext Time (p_c), s  0.0  0.0  6.2  0.1    Intersection Summary  Intersection Summary  19.7  59.8  10.1	LnGrp Delay(d),s/veh  0.0  27.0  0.0  0.0  33.7  0.0  8.5  0.0  46.2    LnGrp LOS  A  C  A  C  A  D    Approach Vol, veh/h  11  A  1208  A  1826    Approach Delay, s/veh  27.0  33.7  39.2    Approach LOS  C  C  D    Timer - Assigned Phs  1  2  6  8    Phs Duration (G+Y+Rc), s0.0  32.9  32.9  66.0    Change Period (Y+Rc), s 6.1  7.0  7.0  6.1    Max Green Setting (Gma35, 6  45.0  86.1  60.0    Max Q Clear Time (g_c+I10, 6  2.2  19.7  59.8    Green Ext Time (p_c), s  0.0  6.2  0.1    Intersection Summary  37.0  37.0  37.0				0.0	0.0	6.3	0.0	1.5	0.0	21.7				
LnGrp LOS  A  C  A  C  A  C  A  D    Approach Vol, veh/h  11  A  1208  A  1826    Approach Delay, s/veh  27.0  33.7  39.2    Approach LOS  C  C  D    Timer - Assigned Phs  1  2  6  8    Phs Duration (G+Y+Rc), s0.0  32.9  32.9  66.0    Change Period (Y+Rc), s 6.1  7.0  7.0  6.1    Max Green Setting (Gmax), 6  45.0  86.1  60.0    Max Q Clear Time (g_c+I10, 6  2.2  19.7  59.8    Green Ext Time (p_c), s  0.0  6.2  0.1    Intersection Summary	LnGrp LOS    A    C    A    C    A    C    A    D      Approach Vol, veh/h    11    A    1208    A    1826      Approach Delay, s/veh    27.0    33.7    39.2      Approach LOS    C    C    D      Timer - Assigned Phs    1    2    6    8      Phs Duration (G+Y+Rc), s0.0    32.9    32.9    66.0      Change Period (Y+Rc), s 6.1    7.0    7.0    6.1      Max Green Setting (Gma35, 6    45.0    86.1    60.0      Max Q Clear Time (g_c+I10, 0s    2.2    19.7    59.8      Green Ext Time (p_c), s    0.0    6.2    0.1      Intersection Summary    HCM 6th Ctrl Delay    37.0	Unsig. Movement Delay	, s/veh	l											
Approach Vol, veh/h  11  A  1208  A  1826    Approach Delay, s/veh  27.0  33.7  39.2    Approach LOS  C  C  D    Timer - Assigned Phs  1  2  6  8    Phs Duration (G+Y+Rc), s0.0  32.9  32.9  66.0    Change Period (Y+Rc), s 6.1  7.0  7.0  6.1    Max Green Setting (Gma35.6  45.0  86.1  60.0    Max Q Clear Time (g_c+I10,0s  2.2  19.7  59.8    Green Ext Time (p_c), s 0.0  0.0  6.2  0.1    Intersection Summary  10.0  10.0  10.0	Approach Vol, veh/h  11  A  1208  A  1826    Approach Delay, s/veh  27.0  33.7  39.2    Approach LOS  C  C  D    Timer - Assigned Phs  1  2  6  8    Phs Duration (G+Y+Rc), s0.0  32.9  32.9  66.0    Change Period (Y+Rc), s 6.1  7.0  7.0  6.1    Max Green Setting (Gma35, 6  45.0  86.1  60.0    Max Q Clear Time (g_c+I10, 6  2.2  19.7  59.8    Green Ext Time (p_c), s  0.0  6.2  0.1    Intersection Summary  37.0  37.0	LnGrp Delay(d),s/veh	0.0	27.0	0.0	0.0		0.0	8.5	0.0	46.2				
Approach Delay, s/veh  27.0  33.7  39.2    Approach LOS  C  C  D    Timer - Assigned Phs  1  2  6  8    Phs Duration (G+Y+Rc), s0.0  32.9  32.9  66.0    Change Period (Y+Rc), s 6.1  7.0  7.0  6.1    Max Green Setting (Gma35, 6  45.0  86.1  60.0    Max Q Clear Time (g_c+I10, 6s  2.2  19.7  59.8    Green Ext Time (p_c), s  0.0  6.2  0.1    Intersection Summary	Approach Delay, s/veh  27.0  33.7  39.2    Approach LOS  C  C  D    Timer - Assigned Phs  1  2  6  8    Phs Duration (G+Y+Rc), s0.0  32.9  32.9  66.0    Change Period (Y+Rc), s 6.1  7.0  7.0  6.1    Max Green Setting (Gma35, 6  45.0  86.1  60.0    Max Q Clear Time (g_c+I10, 0s  2.2  19.7  59.8    Green Ext Time (p_c), s  0.0  6.2  0.1    Intersection Summary  37.0  37.0  37.0	LnGrp LOS	Α			Α	С		A	Α	D				
Approach LOS    C    C    D      Timer - Assigned Phs    1    2    6    8      Phs Duration (G+Y+Rc), s0.0    32.9    32.9    66.0      Change Period (Y+Rc), s 6.1    7.0    7.0    6.1      Max Green Setting (Gma%5, 6    45.0    86.1    60.0      Max Q Clear Time (g_c+I10, 6s    2.2    19.7    59.8      Green Ext Time (p_c), s    0.0    6.2    0.1      Intersection Summary    10.0    10.0    10.0	Approach LOS  C  C  D    Timer - Assigned Phs  1  2  6  8    Phs Duration (G+Y+Rc), s0.0  32.9  32.9  66.0    Change Period (Y+Rc), s 6.1  7.0  7.0  6.1    Max Green Setting (Gma35, 6  45.0  86.1  60.0    Max Q Clear Time (g_c+I10, 6  2.2  19.7  59.8    Green Ext Time (p_c), s  0.0  6.2  0.1    Intersection Summary  45.0  37.0  45.0	Approach Vol, veh/h		11	А		1208	А		1826					
Timer - Assigned Phs  1  2  6  8    Phs Duration (G+Y+Rc), s0.0  32.9  32.9  66.0    Change Period (Y+Rc), s 6.1  7.0  7.0  6.1    Max Green Setting (Gmax5.6  45.0  86.1  60.0    Max Q Clear Time (g_c+I10,6s  2.2  19.7  59.8    Green Ext Time (p_c), s  0.0  6.2  0.1    Intersection Summary  1  1  1	Timer - Assigned Phs  1  2  6  8    Phs Duration (G+Y+Rc), s0.0  32.9  32.9  66.0    Change Period (Y+Rc), s 6.1  7.0  7.0  6.1    Max Green Setting (Gmax), 6  45.0  86.1  60.0    Max Q Clear Time (g_c+I10, 6  2.2  19.7  59.8    Green Ext Time (p_c), s  0.0  6.2  0.1    Intersection Summary  Y  Y  Y    HCM 6th Ctrl Delay  37.0  37.0	Approach Delay, s/veh		27.0			33.7			39.2					
Phs Duration (G+Y+Rc), s0.0  32.9  32.9  66.0    Change Period (Y+Rc), s 6.1  7.0  7.0  6.1    Max Green Setting (Gmax)5.6  45.0  86.1  60.0    Max Q Clear Time (g_c+I10, bs  2.2  19.7  59.8    Green Ext Time (p_c), s  0.0  6.2  0.1    Intersection Summary  1  1  1	Phs Duration (G+Y+Rc), s0.0  32.9  32.9  66.0    Change Period (Y+Rc), s 6.1  7.0  7.0  6.1    Max Green Setting (Gma35, 6)  45.0  86.1  60.0    Max Q Clear Time (g_c+I10, 6)  2.2  19.7  59.8    Green Ext Time (p_c), s 0.0  0.0  6.2  0.1    Intersection Summary  45.0  37.0  45.0	Approach LOS		С			С			D					
Phs Duration (G+Y+Rc), s0.0  32.9  32.9  66.0    Change Period (Y+Rc), s 6.1  7.0  7.0  6.1    Max Green Setting (Gmax)5.6  45.0  86.1  60.0    Max Q Clear Time (g_c+I10,6s  2.2  19.7  59.8    Green Ext Time (p_c), s  0.0  6.2  0.1    Intersection Summary  1  1  1	Phs Duration (G+Y+Rc), s0.0  32.9  32.9  66.0    Change Period (Y+Rc), s 6.1  7.0  7.0  6.1    Max Green Setting (Gma35, 6)  45.0  86.1  60.0    Max Q Clear Time (g_c+I10, 6)  2.2  19.7  59.8    Green Ext Time (p_c), s 0.0  0.0  6.2  0.1    Intersection Summary  45.0  37.0  45.0	Timer - Assigned Phs	1	2				6		8					
Change Period (Y+Rc), s 6.1  7.0  7.0  6.1    Max Green Setting (Gma35.6  45.0  86.1  60.0    Max Q Clear Time (g_c+l10,0s  2.2  19.7  59.8    Green Ext Time (p_c), s  0.0  6.2  0.1    Intersection Summary	Change Period (Y+Rc), s 6.1  7.0  7.0  6.1    Max Green Setting (Gmax5, 6)  45.0  86.1  60.0    Max Q Clear Time (g_c+I10, 0)  2.2  19.7  59.8    Green Ext Time (p_c), s  0.0  6.2  0.1    Intersection Summary  45.0  37.0  45.0		s0.0												
Max Green Setting (Gmax5, 6)    45.0    86.1    60.0      Max Q Clear Time (g_c+110, 0s)    2.2    19.7    59.8      Green Ext Time (p_c), s)    0.0    6.2    0.1      Intersection Summary    50.0    50.0    50.0	Max Green Setting (Gmax, 6    45.0    86.1    60.0      Max Q Clear Time (g_c+I10, 0s    2.2    19.7    59.8      Green Ext Time (p_c), s    0.0    6.2    0.1      Intersection Summary    37.0    37.0    37.0														
Max Q Clear Time (g_c+I10,0s    2.2    19.7    59.8      Green Ext Time (p_c), s    0.0    6.2    0.1      Intersection Summary    Intersection Summary	Max Q Clear Time (g_c+l10,0s    2.2    19.7    59.8      Green Ext Time (p_c), s    0.0    6.2    0.1      Intersection Summary    37.0    37.0	• • •													
Green Ext Time (p_c), s    0.0    6.2    0.1      Intersection Summary	Green Ext Time (p_c), s    0.0    6.2    0.1      Intersection Summary    400 Gth Ctrl Delay    37.0	Ū,													
Intersection Summary	Intersection Summary HCM 6th Ctrl Delay 37.0														
	HCM 6th Ctrl Delay 37.0	. ,													
nuvi oli uli uli oli uli ay 37.0	,				27.0										
					U										

# Notes

Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.

	٠	-	7	*	+	*	1	Ť	1	1	Ŧ	1	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	7	<b>†</b>	1	٦	<b>†</b>	1	7	<b>^</b>	1	à	<b>†</b> †	1	
Traffic Volume (veh/h)	50	100	170	110	240	80	340	590	230	120	1260	230	
Future Volume (veh/h)	50	100	170	110	240	80	340	590	230	120	1260	230	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	•	0.98	1.00		0.98	1.00	•	0.98	1.00	•	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No			No			No			No		
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	55	110	187	124	270	90	370	641	250	124	1299	237	
Peak Hour Factor	0.91	0.91	0.91	0.89	0.89	0.89	0.92	0.92	0.92	0.97	0.97	0.97	
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2	
Cap, veh/h	207	217	520	288	303	251	382	1800	1042	145	1328	776	
Arrive On Green	0.12	0.12	0.12	0.16	0.16	0.16	0.21	0.51	0.51	0.08	0.37	0.37	
Sat Flow, veh/h	1781	1870	1548	1781	1870	1553	1781	3554	1551	1781	3554	1583	
Grp Volume(v), veh/h	55	110	187	124	270	90	370	641	250	124	1299	237	
Grp Sat Flow(s), veh/h/l		1870	1548	1781	1870	1553	1781	1777	1551	1781	1777	1583	
Q Serve(g_s), s	4.4	8.6	14.4	9.8	22.1	8.1	32.2	17.0	10.0	10.8	56.5	14.1	
Cycle Q Clear(g_c), s	4.4	8.6	14.4	9.8	22.1	8.1	32.2	17.0	10.0	10.8	56.5	14.1	
Prop In Lane	1.00	0.0	1.00	1.00	<u> </u>	1.00	1.00	17.0	1.00	1.00	00.0	1.00	
Lane Grp Cap(c), veh/h		217	520	288	303	251	382	1800	1042	145	1328	776	
V/C Ratio(X)	0.27	0.51	0.36	0.43	0.89	0.36	0.97	0.36	0.24	0.85	0.98	0.31	
Avail Cap(c_a), veh/h	375	394	667	330	346	288	382	1800	1042	240	1328	776	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/ve		65.0	39.9	59.1	64.3	58.4	60.9	23.2	10.3	71.0	48.4	23.9	
Incr Delay (d2), s/veh	0.4	1.0	0.2	1.0	21.9	0.8	37.3	0.1	0.1	7.1	19.6	0.3	
Initial Q Delay(d3),s/vel		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),vel		4.2	5.6	4.5	12.4	3.2	18.3	7.1	5.4	5.2	28.1	6.7	
Unsig. Movement Delay			0.0			J.L	10.0		0.1	0.2	20.1	0.1	
LnGrp Delay(d),s/veh	63.4	65.9	40.1	60.1	86.2	59.2	98.2	23.4	10.4	78.1	68.0	24.3	
LnGrp LOS	E	E	D	E	F	E	F	C	B	E	E	C 21.0	
Approach Vol, veh/h		352			484	_		1261			1660	<u> </u>	
Approach Delay, s/veh		51.8			74.5			42.8			62.5		
Approach LOS		D			74.0 Е			- <u>-</u> 2.0			02.0 F		
Timer - Assigned Phs	1	2		4	5	6		8			_		
Phs Duration (G+Y+Rc	) \$72	85.0		24.1	38.0	64.2		30.2					
Change Period (Y+Rc),		5.7		5.9	4.4	5.7		4.9					
Max Green Setting (Gr		71.0		33.0	33.6	58.5		29.0					
Max Q Clear Time (g_c		19.0		16.4	34.2	58.5		23.0					
Green Ext Time (p_c),		7.6		0.8	0.0	0.0		1.0					
	0.1	7.0		0.0	0.0	0.0		1.0					
Intersection Summary													
HCM 6th Ctrl Delay			56.4										
HCM 6th LOS			E										
N1 /													

User approved ignoring U-Turning movement.
	٠	<b>→</b>	7	*	+	•	1	t	1	\$	ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		-¢†	1		-۠	1	A	<b>†</b> ††	1	٦	<b>†</b> ††	1	
Traffic Volume (veh/h)	30	20	370	340	590	30	390	110	20	20	870	280	
Future Volume (veh/h)	30	20	370	340	590	30	390	110	20	20	870	280	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	•	0.99	1.00	•	0.98	1.00	•	1.00	1.00	•	0.99	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No	1.00	1.00	No	1.00		No		1.00	No		
Adj Sat Flow, veh/h/ln	1870	1870	1796	1870	1870	1796	1870	1870	1870	1575	1870	1870	
Adj Flow Rate, veh/h	31	21	381	358	621	32	433	122	22	22	935	301	
Peak Hour Factor	0.97	0.97	0.97	0.95	0.95	0.95	0.90	0.90	0.90	0.93	0.93	0.93	
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2	
Cap, veh/h	204	473	285	342	637	406	424	2060	637	26	931	286	
Arrive On Green	0.19	473 0.19	0.19	0.27	0.27	400	424 0.24	0.40	0.40	0.02	0.18	0.18	
Sat Flow, veh/h	1083	2510	1510	1252	2332	1487	1781	5106	1578	1500	5106	1569	
Grp Volume(v), veh/h	52	0	381	517	462	32	433	122	22	22	935	301	
Grp Sat Flow(s),veh/h/lr		1777	1510	1808	1777	1487	1781	1702	1578	1500	1702	1569	
Q Serve(g_s), s	4.2	0.0	33.0	47.8	44.7	2.8	41.7	2.6	1.5	2.6	31.9	31.9	
Cycle Q Clear(g_c), s	4.2	0.0	33.0	47.8	44.7	2.8	41.7	2.6	1.5	2.6	31.9	31.9	
Prop In Lane	0.60		1.00	0.69		1.00	1.00		1.00	1.00		1.00	
Lane Grp Cap(c), veh/h		335	285	494	485	406	424	2060	637	26	931	286	
V/C Ratio(X)	0.15	0.00	1.34	1.05	0.95	0.08	1.02	0.06	0.03	0.86	1.00	1.05	
Avail Cap(c_a), veh/h	342	335	285	494	485	406	424	2060	637	64	931	286	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/veł		0.0	71.0	63.6	62.5	47.2	66.7	31.9	31.6	85.8	71.5	71.5	
Incr Delay (d2), s/veh	0.6	0.0	174.2	53.2	29.8	0.2	48.9	0.0	0.0	24.4	30.6	67.6	
Initial Q Delay(d3),s/veh	n 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh	n/In2.0	0.0	26.5	29.2	24.1	1.1	24.3	1.1	0.6	1.2	16.3	17.9	
Unsig. Movement Delay	/, s/veh	I											
LnGrp Delay(d),s/veh	59.9	0.0	245.2	116.8	92.3	47.5	115.5	31.9	31.6	110.2	102.2	139.1	
LnGrp LOS	Е	А	F	F	F	D	F	С	С	F	F	F	
Approach Vol, veh/h		433			1011			577			1258		
Approach Delay, s/veh		222.9			103.4			94.7			111.1		
Approach LOS		F			F			F			F		
Timer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Rc)	. s7 4	77.0		37.9	46.1	38.3		52.7					
Change Period (Y+Rc),		* 6.4		4.9	4.4	6.4		4.9					
Max Green Setting (Gm		* 67		33.0	41.7	31.9		47.8					
Max Q Clear Time (g_c		4.6		35.0	43.7	33.9		49.8					
Green Ext Time (p_c), s		1.0		0.0	43.7	0.0		49.0					
Intersection Summary													
HCM 6th Ctrl Delay			120.6										
HCM 6th LOS			120.0 F										
Notes													

Movement         EBL         EBR         WBL         WBT         WBR         NBT         NBR         SBL         SBT         SBR           Lane Configurations         11         ff         ff<         ff<
Lane Configurations       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T       T
Traffic Volume (veh/h)       150       1010       220       380       1320       220       260       250       110       630       1540       480         Future Volume (veh/h)       150       1010       220       380       1320       220       260       250       110       630       1540       480         Initial Q (Qb), veh       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0
Future Volume (veh/h)       150       1010       220       380       1320       220       260       250       110       630       1540       480         Initial Q (Qb), veh       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0
Initial Q (Qb), veh       0       0       0       0       0       0       0       0       0       0       0       0       0         Ped-Bike Adj(A_pbT)       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00<
Ped-Bike Adj(A_pbT)       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00
Parking Bus, Adj       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.0
Work Zone On Approach         No         No         No         No         No           Adj Sat Flow, veh/h/ln         1885         1870         1885         1870         1870         1870         1841         1841         1870         1870         1841         1767           Adj Sat Flow, veh/h         163         1098         239         413         1435         239         283         272         120         685         1674         522           Peak Hour Factor         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92
Adj Sat Flow, veh/h/ln1885187018851870187018701870184118701870187018711870187018711870187018711767Adj Flow Rate, veh/h163109823941314352392832721206851674522Peak Hour Factor0.920.920.920.920.920.920.920.920.920.920.920.920.920.92Percent Heavy Veh, %121222442244Cap, veh/h21012566304671625149450513974417511665579Arrive On Green0.060.250.250.140.320.320.150.280.280.220.330.33Sat Flow, veh/h348351061598345651062790340150251585345650251475Grp Volume(v), veh/h163109823941314352392832721206851674522Grp Sat Flow(s), veh/h/In1742170215981728170016751585172816751475Q Serve(g_s), s7.433.14.618.842.67.012.46.69.531.053.037.0Prop In Lane1.001.001.001.001.001.00<
Adj Flow Rate, veh/h163109823941314352392832721206851674522Peak Hour Factor0.920.920.920.920.920.920.920.920.920.920.920.920.920.92Percent Heavy Veh, %121222442244Cap, veh/h21012566304671625149450513974417511665579Arrive On Green0.060.250.250.140.320.320.150.280.280.220.330.33Sat Flow, veh/h348351061598345651062790340150251585345650251475Grp Volume(v), veh/h163109823941314352392832721206851674522Grp Sat Flow(s),veh/h/ln174217021598172817021395170016751585172816751475Q Serve(g_s), s7.433.14.618.842.67.012.46.69.531.053.037.0Cycle Q Clear(g_c), s7.433.14.618.842.67.012.46.69.531.053.037.0Prop In Lane1.001.001.001.001.001.001.001.001.001.00Lane Grp
Peak Hour Factor0.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.920.9
Percent Heavy Veh, %121222442244Cap, veh/h21012566304671625149450513974417511665579Arrive On Green0.060.250.250.140.320.320.150.280.280.220.330.33Sat Flow, veh/h348351061598345651062790340150251585345650251475Grp Volume(v), veh/h163109823941314352392832721206851674522Grp Sat Flow(s),veh/h/ln174217021598172817021395170016751585172816751475Q Serve(g_s), s7.433.14.618.842.67.012.46.69.531.053.037.0Cycle Q Clear(g_c), s7.433.14.618.842.67.012.46.69.531.053.037.0Prop In Lane1.001.001.001.001.001.001.001.001.001.00Lane Grp Cap(c), veh/h21012566304671625149450513974417511665579V/C Ratio(X)0.780.870.380.880.160.560.190.270.911.010.90Avail Cap(c_a), veh/h6121430<
Cap, veh/h       210       1256       630       467       1625       1494       505       1397       441       751       1665       579         Arrive On Green       0.06       0.25       0.25       0.14       0.32       0.32       0.15       0.28       0.22       0.33       0.33         Sat Flow, veh/h       3483       5106       1598       3456       5106       2790       3401       5025       1585       3456       5025       1475         Grp Volume(v), veh/h       163       1098       239       413       1435       239       283       272       120       685       1674       522         Grp Sat Flow(s),veh/h/ln1742       1702       1598       1728       1702       1395       1700       1675       1585       1728       1675       1475         Q Serve(g_s), s       7.4       33.1       4.6       18.8       42.6       7.0       12.4       6.6       9.5       31.0       53.0       37.0         Cycle Q Clear(g_c), s       7.4       33.1       4.6       18.8       42.6       7.0       12.4       6.6       9.5       31.0       53.0       37.0         Cycle Q Clear(g_c), s
Arrive On Green0.060.250.250.140.320.320.150.280.280.220.330.33Sat Flow, veh/h348351061598345651062790340150251585345650251475Grp Volume(v), veh/h163109823941314352392832721206851674522Grp Sat Flow(s),veh/h/ln174217021598172817021395170016751585172816751475Q Serve(g_s), s7.433.14.618.842.67.012.46.69.531.053.037.0Cycle Q Clear(g_c), s7.433.14.618.842.67.012.46.69.531.053.037.0Prop In Lane1.001.001.001.001.001.001.001.001.00Lane Grp Cap(c), veh/h21012566304671625149450513974417511665579V/C Ratio(X)0.780.870.380.880.160.560.190.270.911.010.90Avail Cap(c_a), veh/h61214306845831625149450513974419111665579
Sat Flow, veh/h       3483       5106       1598       3456       5106       2790       3401       5025       1585       3456       5025       1475         Grp Volume(v), veh/h       163       1098       239       413       1435       239       283       272       120       685       1674       522         Grp Sat Flow(s), veh/h/ln1742       1702       1598       1728       1702       1395       1700       1675       1585       1728       1675       1475         Q Serve(g_s), s       7.4       33.1       4.6       18.8       42.6       7.0       12.4       6.6       9.5       31.0       53.0       37.0         Cycle Q Clear(g_c), s       7.4       33.1       4.6       18.8       42.6       7.0       12.4       6.6       9.5       31.0       53.0       37.0         Cycle Q Clear(g_c), s       7.4       33.1       4.6       18.8       42.6       7.0       12.4       6.6       9.5       31.0       53.0       37.0         Prop In Lane       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00         Lane Grp Cap(c), veh/h       210       1256
Grp Volume(v), veh/h       163       1098       239       413       1435       239       283       272       120       685       1674       522         Grp Sat Flow(s), veh/h/ln1742       1702       1598       1728       1702       1395       1700       1675       1585       1728       1674       522         Q Serve(g_s), s       7.4       33.1       4.6       18.8       42.6       7.0       12.4       6.6       9.5       31.0       53.0       37.0         Cycle Q Clear(g_c), s       7.4       33.1       4.6       18.8       42.6       7.0       12.4       6.6       9.5       31.0       53.0       37.0         Cycle Q Clear(g_c), s       7.4       33.1       4.6       18.8       42.6       7.0       12.4       6.6       9.5       31.0       53.0       37.0         Cycle Q Clear(g_c), s       7.4       33.1       4.6       18.8       42.6       7.0       12.4       6.6       9.5       31.0       53.0       37.0         Prop In Lane       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00         Lane Grp Cap(c), veh/h       210       1256
Grp Sat Flow(s),veh/h/ln1742       1702       1598       1728       1702       1395       1700       1675       1585       1728       1675       1475         Q Serve(g_s), s       7.4       33.1       4.6       18.8       42.6       7.0       12.4       6.6       9.5       31.0       53.0       37.0         Cycle Q Clear(g_c), s       7.4       33.1       4.6       18.8       42.6       7.0       12.4       6.6       9.5       31.0       53.0       37.0         Cycle Q Clear(g_c), s       7.4       33.1       4.6       18.8       42.6       7.0       12.4       6.6       9.5       31.0       53.0       37.0         Prop In Lane       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00         Lane Grp Cap(c), veh/h       210       1256       630       467       1625       1494       505       1397       441       751       1665       579         V/C Ratio(X)       0.78       0.87       0.38       0.88       0.16       0.56       0.19       0.27       0.91       1.01       0.90         Avail Cap(c_a), veh/h       612       1430       684       583
Q Serve(g_s), s       7.4       33.1       4.6       18.8       42.6       7.0       12.4       6.6       9.5       31.0       53.0       37.0         Cycle Q Clear(g_c), s       7.4       33.1       4.6       18.8       42.6       7.0       12.4       6.6       9.5       31.0       53.0       37.0         Cycle Q Clear(g_c), s       7.4       33.1       4.6       18.8       42.6       7.0       12.4       6.6       9.5       31.0       53.0       37.0         Prop In Lane       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00         Lane Grp Cap(c), veh/h       210       1256       630       467       1625       1494       505       1397       441       751       1665       579         V/C Ratio(X)       0.78       0.87       0.38       0.88       0.16       0.56       0.19       0.27       0.91       1.01       0.90         Avail Cap(c_a), veh/h       612       1430       684       583       1625       1494       505       1397       441       911       1665       579
Cycle Q Clear(g_c), s       7.4       33.1       4.6       18.8       42.6       7.0       12.4       6.6       9.5       31.0       53.0       37.0         Prop In Lane       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00         Lane Grp Cap(c), veh/h       210       1256       630       467       1625       1494       505       1397       441       751       1665       579         V/C Ratio(X)       0.78       0.87       0.38       0.88       0.16       0.56       0.19       0.27       0.91       1.01       0.90         Avail Cap(c_a), veh/h       612       1430       684       583       1625       1494       505       1397       441       911       1665       579
Prop In Lane         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00
Lane Grp Cap(c), veh/h 210 1256 630 467 1625 1494 505 1397 441 751 1665 579 V/C Ratio(X) 0.78 0.87 0.38 0.88 0.88 0.16 0.56 0.19 0.27 0.91 1.01 0.90 Avail Cap(c_a), veh/h 612 1430 684 583 1625 1494 505 1397 441 911 1665 579
V/C Ratio(X) 0.78 0.87 0.38 0.88 0.88 0.16 0.56 0.19 0.27 0.91 1.01 0.90 Avail Cap(c_a), veh/h 612 1430 684 583 1625 1494 505 1397 441 911 1665 579
Avail Cap(c_a), veh/h 612 1430 684 583 1625 1494 505 1397 441 911 1665 579
(x - y)
HCM Plateon Pation 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
Upstream Filter(I) 1.00 1.00 1.00 1.00 1.00 0.91 0.91 0.91
Uniform Delay (d), s/veh 74.1 58.0 15.7 68.0 51.7 18.9 63.3 44.1 45.1 61.1 53.5 25.6
Incr Delay (d2), s/veh 2.4 5.2 0.1 12.9 6.1 0.0 0.8 0.3 1.4 11.7 23.4 19.8
Initial Q Delay(d3),s/veh 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.
%ile BackOfQ(50%),veh/In3.4 14.9 3.9 9.2 19.1 2.3 5.4 2.8 4.0 14.5 25.1 16.0
Unsig. Movement Delay, s/veh
LnGrp Delay(d),s/veh 76.5 63.2 15.9 80.8 57.8 18.9 64.1 44.4 46.5 72.8 76.9 45.4
LnGrp LOS E E B F E B E D D E F D
Approach Vol, veh/h 1500 2087 675 2881
Approach Delay, s/veh 57.1 57.9 53.0 70.2
Approach LOS E E D E
Timer - Assigned Phs 1 2 3 4 5 6 7 8
Phs Duration (G+Y+Rc), <b>3</b> 9.3 50.4 26.1 44.2 29.6 60.0 14.5 55.8
Change Period (Y+Rc), s 4.5 5.9 4.5 4.9 5.9 * 7 4.9 * 4.9
Max Green Setting (Gma <b>42).3</b> 26.2 27.0 44.8 14.4 * 53 28.1 * 44
Max Q Clear Time (g_c+B3),0s 11.5 20.8 35.1 14.4 55.0 9.4 44.6
Green Ext Time (p_c), s 1.8 4.6 0.8 4.3 0.0 0.0 0.3 0.0
Intersection Summary
HCM 6th Ctrl Delay 62.3
HCM 6th LOS E
Notes

	۶	-	7	4	+	*	1	t	1	4	ţ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		4			é.	1	1	<b>≜</b> †}		7	<b>≜</b> î⊧		
Traffic Volume (veh/h)	20	0	30	240	70	480	100	190	70	250	790	30	
Future Volume (veh/h)	20	0	30	240	70	480	100	190	70	250	790	30	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac	ch	No			No			No			No		
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1841	1841	1841	1841	1841	1841	
Adj Flow Rate, veh/h	40	0	60	276	80	552	109	207	76	278	878	33	
Peak Hour Factor	0.50	0.50	0.50	0.87	0.87	0.87	0.92	0.92	0.92	0.90	0.90	0.90	
Percent Heavy Veh, %	2	2	2	2	2	2	4	4	4	4	4	4	
Cap, veh/h	32	13	19	313	79	1273	384	272	97	694	979	37	
Arrive On Green	0.41	0.00	0.41	0.41	0.41	0.41	0.22	0.11	0.11	0.79	0.57	0.57	
Sat Flow, veh/h	0	31	47	670	194	1585	1753	2525	898	1753	3437	129	
Grp Volume(v), veh/h	100	0	0	356	0	552	109	141	142	278	447	464	
Grp Sat Flow(s),veh/h/l	n 78	0	0	865	0	1585	1753	1749	1674	1753	1749	1817	
Q Serve(g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	8.3	12.6	13.2	7.7	35.9	35.9	
Cycle Q Clear(g_c), s	65.1	0.0	0.0	65.1	0.0	0.0	8.3	12.6	13.2	7.7	35.9	35.9	
Prop In Lane	0.40		0.60	0.78		1.00	1.00		0.54	1.00		0.07	
Lane Grp Cap(c), veh/h		0	0	392	0	1273	384	188	180	694	498	518	
V/C Ratio(X)	1.58	0.00	0.00	0.91	0.00	0.43	0.28	0.75	0.79	0.40	0.90	0.90	
Avail Cap(c_a), veh/h	63	0	0	392	0	1273	384	437	419	694	634	659	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00	
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	1.00	0.95	0.95	0.95	0.30	0.30	0.30	
Uniform Delay (d), s/ve	h 48.1	0.0	0.0	47.8	0.0	4.8	52.1	69.3	69.6	10.8	32.3	32.3	
Incr Delay (d2), s/veh		0.0	0.0	24.0	0.0	0.1	0.1	22.7	27.2	0.0	8.0	7.7	
Initial Q Delay(d3),s/vel		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),vel	h/In8.3	0.0	0.0	16.7	0.0	4.8	3.7	6.8	7.0	2.3	11.7	12.1	
Unsig. Movement Delay		1											
LnGrp Delay(d),s/veh		0.0	0.0	71.8	0.0	4.9	52.2	92.1	96.8	10.9	40.3	40.1	
LnGrp LOS	F	А	А	E	А	А	D	F	F	В	D	D	
Approach Vol, veh/h		100			908			392			1189		
Approach Delay, s/veh		373.2			31.1			82.7			33.4		
Approach LOS		F			С			F			С		
Timer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Rc	), 67.8	22.2		70.0	39.4	50.6		70.0					
Change Period (Y+Rc),		5.0		4.9	4.4	5.0		4.9					
Max Green Setting (Gr		40.0		65.1	22.6	58.0		65.1					
Max Q Clear Time (g_c		15.2		67.1	10.3	37.9		67.1					
Green Ext Time (p_c),		2.0		0.0	0.1	7.6		0.0					
Intersection Summary													
HCM 6th Ctrl Delay			53.2										
HCM 6th LOS			D										

User approved ignoring U-Turning movement.

51: Carroll Canyon Rd/I-805 SB Ramps & Sorrento Valley Rd

timing Plan: AM Peak

51: Carroll Canyo	n R	ld/I-8	05 S	B Rai	mps a	& Soi	rento	Valle	ey Ro	b			timing Plan: AM Peak
	٠	+	+	1	+	•	1	Ť	1	4	ţ	4	
Movement E	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		<b>*††</b>	1	2	<b>^</b>	77	ኘኘ		17	ኘኘ	<b>^</b>	1	
Traffic Volume (veh/h)	0	960	390	190	1090	860	40	0	290	2290	530	30	
Future Volume (veh/h)	0	960	390	190	1090	860	40	0	290	2290	530	30	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT) 1	1.00		0.99	1.00		1.00	1.00		1.00	1.00		1.00	
Parking Bus, Adj 1	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach		No			No			No			No		
Adj Sat Flow, veh/h/ln	0	1870	1870	1870	1870	1870	1885	0	1885	1870	1870	1796	
Adj Flow Rate, veh/h	0	1043	424	202	1160	915	54	0	392	2411	558	32	
Peak Hour Factor 0	).92	0.92	0.92	0.94	0.94	0.94	0.74	0.74	0.74	0.95	0.95	0.95	
Percent Heavy Veh, %	0	2	2	2	2	2	1	0	1	2	2	2	
Cap, veh/h	0	1123	494	217	1384	2541	330	0	0	1801	1395	597	
Arrive On Green 0	0.00	0.22	0.22	0.12	0.39	0.39	0.09	0.00	0.00	0.52	0.39	0.39	
Sat Flow, veh/h	0	5274	1564	1781	3554	2790	3483	54		3456	3554	1522	
Grp Volume(v), veh/h	0	1043	424	202	1160	915	54	74.7		2411	558	32	
Grp Sat Flow(s),veh/h/ln	0	1702	1564	1781	1777	1395	1742	Е		1728	1777	1522	
Q Serve(g_s), s	0.0	35.9	29.0	20.1	53.1	7.8	2.6			93.5	20.3	2.3	
Cycle Q Clear(g_c), s	0.0	35.9	29.0	20.1	53.1	7.8	2.6			93.5	20.3	2.3	
Prop In Lane 0	0.00		1.00	1.00		1.00	1.00			1.00		1.00	
Lane Grp Cap(c), veh/h	0	1123	494	217	1384	2541	330			1801	1395	597	
V/C Ratio(X) 0	0.00	0.93	0.86	0.93	0.84	0.36	0.16			1.34	0.40	0.05	
Avail Cap(c_a), veh/h	0	1210	521	217	1397	2551	573			1801	1395	597	
HCM Platoon Ratio 1	1.00	1.00	1.00	1.00	1.00	1.00	1.00			1.00	1.00	1.00	
Upstream Filter(I) 0	0.00	1.00	1.00	1.00	1.00	1.00	1.00			1.00	1.00	1.00	
Uniform Delay (d), s/veh	0.0	68.6	26.7	78.0	49.6	1.1	74.6			42.9	39.3	33.8	
Incr Delay (d2), s/veh	0.0	11.4	12.1	41.1	4.4	0.0	0.1			156.1	0.1	0.0	
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	
%ile BackOfQ(50%),veh/lr		16.6	12.2	11.6	23.9	0.6	1.1			77.2	8.8	0.9	
Unsig. Movement Delay, s	s/veh												
LnGrp Delay(d),s/veh	0.0	80.0	38.8	119.1	54.0	1.1	74.7			199.1	39.3	33.8	
LnGrp LOS	Α	F	D	F	D	Α	E			F	D	С	
Approach Vol, veh/h		1467			2277						3001		
Approach Delay, s/veh		68.1			38.5						167.6		
Approach LOS		Е			D						F		
Timer - Assigned Phs	1	2	3	4		6	7						
Phs Duration (G+Y+Rc),	<b>3</b> 0.4	48.0	23.1	77.9		78.4	101.0						
Change Period (Y+Rc), s		* 8.5	6.1	7.5		8.5	7.5						
Max Green Setting (Gma		* 43	29.5	57.9		70.5	93.5						
Max Q Clear Time (g_c+2		37.9	4.6	22.3		55.1	95.5						
Green Ext Time (p_c), s		1.6	0.0	1.2		3.6	0.0						
Intersection Summary													

Intersection Summary HCM 6th Ctrl Delay

HCM 6th LOS

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

102.2

F

	٠	-	7	1	+	•	1	Ť	1	4	ţ	4	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ኘኘ	***		7	***	1		1	777	5		77	
Traffic Volume (veh/h)	630	2250	0	0	1250	80	0	60	1360	10	0	450	
Future Volume (veh/h)	630	2250	0	0	1250	80	0	60	1360	10	0	450	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac	h	No			No			No			No		
Adj Sat Flow, veh/h/ln	1870	2116	0	1870	2116	1870	0	1870	1870	1870	0	1870	
Adj Flow Rate, veh/h	685	2446	0	0	1359	87	0	62	1402	11	0	506	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.97	0.97	0.97	0.89	0.89	0.89	
Percent Heavy Veh, %	2	2	0	2	2	2	0	2	2	2	0	2	
Cap, veh/h	730	2971	0	1	1549	496	0	557	950	80	0	0	
Arrive On Green	0.21	0.51	0.00	0.00	0.27	0.27	0.00	0.30	0.30	0.05	0.00	0.00	
Sat Flow, veh/h	3456	5968	0	1781	5778	1583	0	1870	3614	1781	11		
Grp Volume(v), veh/h	685	2446	0	0	1359	87	0	62	1402	11	61.9		
Grp Sat Flow(s),veh/h/lr	า1728	1926	0	1781	1926	1583	0	1870	1205	1781	Е		
Q Serve(g_s), s	26.2	47.9	0.0	0.0	30.2	5.4	0.0	3.2	40.0	0.8			
Cycle Q Clear(g_c), s	26.2	47.9	0.0	0.0	30.2	5.4	0.0	3.2	40.0	0.8			
Prop In Lane	1.00		0.00	1.00		1.00	0.00		1.00	1.00			
Lane Grp Cap(c), veh/h		2971	0	1	1549	496	0	557	950	80			
V/C Ratio(X)	0.94	0.82	0.00	0.00	0.88	0.18	0.00	0.11	1.48	0.14			
Avail Cap(c_a), veh/h	772	2971	0	265	2065	637	0	557	950	264			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	1.00	1.00	0.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00			
Uniform Delay (d), s/vel		27.5	0.0	0.0	47.1	33.5	0.0	34.3	62.9	61.6			
Incr Delay (d2), s/veh	18.1	1.9	0.0	0.0	2.9	0.1	0.0		220.1	0.3			
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh		21.1	0.0	0.0	14.6	2.2	0.0	1.4	19.4	0.4			
Unsig. Movement Delay													
LnGrp Delay(d),s/veh	70.2	29.3	0.0	0.0	50.0	33.6	0.0		283.0	61.9			
LnGrp LOS	E	С	A	A	D	С	Α	С	F	E			
Approach Vol, veh/h		3131			1446			1464					
Approach Delay, s/veh		38.3			49.0			272.5					
Approach LOS		D			D			F					
Timer - Assigned Phs	1	2			5	6	7	8					
Phs Duration (G+Y+Rc)	, s0.0	76.1			33.1	43.0	12.2	46.1					
Change Period (Y+Rc),		7.0			* 4.7	7.0	6.1	6.1					
Max Green Setting (Gm		54.0			* 30	48.0	19.9	40.0					
Max Q Clear Time (g_c-		49.9			28.2	32.2	2.8	42.0					
Green Ext Time (p_c), s		2.9			0.2	3.5	0.0	0.0					
Intersection Summary													
HCM 6th Ctrl Delay			97.5										
HCM 6th LOS			F										

	1	•	1	1	4	ţ	
Movement	WBL	WBR	NBT	NBR	SBL	SBT	
Lane Configurations	7	77	<b>†</b> ‡		ኘኘ	1	
Traffic Volume (veh/h)	130	320	190	460	2160	390	
Future Volume (veh/h)	130	320	190	460	2160	390	
Initial Q (Qb), veh	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	1.00		0.99	1.00		
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac	h No		No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	149	368	207	500	2400	433	
Peak Hour Factor	0.87	0.87	0.92	0.92	0.90	0.90	
Percent Heavy Veh, %	2	2	2	2	2	2	
Cap, veh/h	170	2085	294	260	2253	1576	
Arrive On Green	0.10	0.10	0.17	0.17	0.65	0.84	
Sat Flow, veh/h	1781	2790	1870	1571	3456	1870	
Grp Volume(v), veh/h	149	368	207	500	2400	433	
Grp Sat Flow(s),veh/h/lr		1395	1777	1571	1728	1870	
Q Serve(g_s), s	14.5	6.7	19.3	29.1	114.6	8.3	
Cycle Q Clear(g_c), s	14.5	6.7	19.3	29.1	114.6	8.3	
Prop In Lane	1.00	1.00		1.00	1.00	0.0	
Lane Grp Cap(c), veh/h		2085	294	260	2253	1576	
V/C Ratio(X)	0.88	0.18	0.70	1.92	1.07	0.27	
Avail Cap(c_a), veh/h	213	2153	294	260	2253	1576	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/veł		6.5	69.2	73.3	30.6	2.8	
Incr Delay (d2), s/veh	23.9	0.0		429.1	39.1	0.0	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh		1.9	9.2	42.5	55.0	2.2	
Unsig. Movement Delay			•				
LnGrp Delay(d),s/veh		6.5	75.5	502.4	69.6	2.9	
LnGrp LOS	F	A	E	F	F	A	
Approach Vol, veh/h	517		707			2833	
Approach Delay, s/veh			377.4			59.4	
Approach LOS	C		F			E	
Timer - Assigned Phs	1	2	•			6	8
Phs Duration (G+Y+Rc)	140.0	<u>∠</u> 35.1				154.1	21.6
Change Period (Y+Rc),		55.1 6.0				154.1 6.0	4.9
Max Green Setting (Gm		6.0 29.1				0.0 148.1	21.0
Max Q Clear Time (g_c		29.1 31.1				146.1	16.5
						10.3 0.7	0.2
Green Ext Time (p_c), s	5 0.0	0.0				0.7	0.2
ntersection Summary							
HCM 6th Ctrl Delay			111.6				
HCM 6th LOS			F				

	٠	-	7	•	+	*	1	Ť	1	1	ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ኘካ	4Î		A	4Î			4			स	1	
Traffic Volume (veh/h)	770	190	60	90	210	250	10	30	20	30	30	180	
Future Volume (veh/h)	770	190	60	90	210	250	10	30	20	30	30	180	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	Ū	0.97	1.00	v	0.99	0.99	v	0.96	0.99	v	0.99	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approa		No	1.00	1.00	No	1.00		No	1.00	1.00	No		
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	975	241	76	108	253	301	11	34	23	34	34	202	
Peak Hour Factor	0.79	0.79	0.79	0.83	0.83	0.83	0.88	0.88	0.88	0.89	0.89	0.89	
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2	
Cap, veh/h	1057	790	249	138	275	328	72	131	76	158	134	695	
Arrive On Green	0.31	0.58	0.58	0.08	0.36	0.36	0.13	0.13	0.13	0.13	0.13	0.13	
Sat Flow, veh/h	3456	1353	427	1781	776	923	125	976	562	638	996	1562	
	975	0	317	108	0	554	68	0	0	68	0	202	
Grp Volume(v), veh/h Grp Sat Flow(s),veh/h/l		0	1780	1781	0	554 1699	1662	0	0	1633	0	202 1562	
					0.0	23.5			0.0			6.3	
Q Serve(g_s), s	20.5	0.0	6.8	4.5			0.0	0.0		0.0	0.0		
Cycle Q Clear(g_c), s	20.5	0.0	6.8	4.5	0.0	23.5	2.7	0.0	0.0	2.5	0.0	6.3	
Prop In Lane	1.00	٥	0.24	1.00	0	0.54	0.16	٥	0.34	0.50	٥	1.00	
Lane Grp Cap(c), veh/h		0	1039	138	0	603	279	0	0	292	0	695	
V/C Ratio(X)	0.92	0.00	0.31	0.78	0.00	0.92	0.24	0.00	0.00	0.23	0.00	0.29	
Avail Cap(c_a), veh/h	1266	0	1127	305	0	744	684	0	0	681	0	1086	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00	
Uniform Delay (d), s/ve		0.0	7.9	34.1	0.0	23.3	29.3	0.0	0.0	29.3	0.0	13.5	
Incr Delay (d2), s/veh	9.2	0.0	0.1	3.7	0.0	13.1	0.2	0.0	0.0	0.2	0.0	0.1	
Initial Q Delay(d3),s/ve		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),ve		0.0	1.9	1.9	0.0	10.4	1.1	0.0	0.0	1.1	0.0	2.0	
Unsig. Movement Dela			• •	07.0	• •	<b>00</b> 4	~~ -	• •	• •	00.4	• •	10.0	
LnGrp Delay(d),s/veh	34.5	0.0	8.0	37.8	0.0	36.4	29.5	0.0	0.0	29.4	0.0	13.6	
LnGrp LOS	С	A	A	D	Α	D	С	A	Α	С	A	В	
Approach Vol, veh/h		1292			662			68			270		
Approach Delay, s/veh		28.0			36.6			29.5			17.6		
Approach LOS		С			D			С			В		
Timer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Rc	), \$0.2	49.7		15.4	27.4	32.4		15.4					
Change Period (Y+Rc)		5.7		5.3	4.4	5.7		* 5.3					
Max Green Setting (Gr		47.7		29.0	27.6	33.0		* 29					
Max Q Clear Time (g_c		8.8		8.3	22.5	25.5		4.7					
Green Ext Time (p_c),		0.5		0.2	0.5	0.8		0.1					
Intersection Summary													
HCM 6th Ctrl Delay			29.3										
HCM 6th LOS			29.5 C										
			U										
Notes													

ノッチメンイ

		-D-			0.51	000
Movement EE		EBT	WBT	WBR	SBL	SBR
	1	<b>†</b> †		1	۲Y	1
· · · · · · · · · · · · · · · · · · ·		1700	300	40	360	210
Future Volume (veh/h) 23		1700	300	40	360	210
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT) 1.0		4.00	4 0 0	1.00	1.00	1.00
Parking Bus, Adj 1.0	)0 ´	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No	1005	No	4070
Adj Sat Flow, veh/h/ln 188		2133	2133	1885	1870	1870
Adj Flow Rate, veh/h 24		1828	366	49	411	206
Peak Hour Factor 0.9		0.93	0.82	0.82	0.92	0.92
Percent Heavy Veh, %	1	1	1	1	2	2
		2466	1770	698	728	324
Arrive On Green 0.0		0.61	0.44	0.44	0.20	0.20
Sat Flow, veh/h 348	33 4	1160	4160	1598	3563	1585
Grp Volume(v), veh/h 24	47 1	1828	366	49	411	206
Grp Sat Flow(s),veh/h/In174	42 2	2027	2027	1598	1781	1585
Q Serve(g_s), s 3	.6 ´	16.8	2.9	0.9	5.4	6.2
Cycle Q Clear(g_c), s 3	.6 ´	16.8	2.9	0.9	5.4	6.2
Prop In Lane 1.0				1.00	1.00	1.00
Lane Grp Cap(c), veh/h 30		2466	1770	698	728	324
V/C Ratio(X) 0.8		0.74	0.21	0.07	0.56	0.64
		2570	1873	738	1837	817
HCM Platoon Ratio 1.0		1.00	1.00	1.00	1.00	1.00
Upstream Filter(I) 1.0		1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh 23		7.3	9.1	8.6	18.7	19.0
Incr Delay (d2), s/veh 13		1.4	0.1	0.1	0.8	2.3
Initial Q Delay(d3),s/veh 0		0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/In1		4.0	1.0	0.3	2.1	5.6
Unsig. Movement Delay, s/				0.0		0.0
LnGrp Delay(d),s/veh 37		8.7	9.3	8.7	19.5	21.4
	. <u>_</u>	A	A	A	B	C
Approach Vol, veh/h		2075	415		617	<u> </u>
Approach Delay, s/veh		12.1	9.2		20.1	
Approach LOS		12.1 B	9.2 A		20.1 C	
			~			
Timer - Assigned Phs		2		4	5	6
Phs Duration (G+Y+Rc), s	3	36.8		15.6	9.0	27.8
Change Period (Y+Rc), s		4.9		4.9	4.4	4.9
Max Green Setting (Gmax),	,s 3	33.2		27.0	4.6	24.2
Max Q Clear Time (g_c+l1)		18.8		8.2	5.6	4.9
Green Ext Time (p_c), s		13.0		2.5	0.0	4.0
Intersection Summers						
Intersection Summary			40.0			
HCM 6th Ctrl Delay			13.3			
HCM 6th LOS			В			
NI (						

### Notes

User approved volume balancing among the lanes for turning movement.

### ノッチメント

	201010-0010		2.42	17.1.18C	
Movement EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	1	<b>^</b>	1	X	1
Traffic Volume (veh/h) 380	1120	210	770	670	120
Future Volume (veh/h) 380	1120	210	770	670	120
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	1.00	No	1.00
Adj Sat Flow, veh/h/ln 1885	2133	2133	1885	1870	1870
			865	798	143
	1273	236			
Peak Hour Factor 0.88	0.88	0.89	0.89	0.84	0.84
Percent Heavy Veh, % 1	1	1	1	2	2
Cap, veh/h 345	1284	1557	612	570	812
Arrive On Green 0.19	0.60	0.38	0.38	0.32	0.32
Sat Flow, veh/h 1795	2133	4160	1593	1781	1585
Grp Volume(v), veh/h 432	1273	236	865	798	143
Grp Sat Flow(s),veh/h/ln1795	2133	2027	1593	1781	1585
$Q$ Serve(g_s), s 30.0	92.0	5.9	60.0	50.0	7.6
Cycle Q Clear(g_c), s 30.0	92.0	5.9	60.0	50.0	7.6
Prop In Lane 1.00			1.00	1.00	1.00
Lane Grp Cap(c), veh/h 345	1284	1557	612	570	812
V/C Ratio(X) 1.25	0.99	0.15	1.41	1.40	0.18
Avail Cap(c_a), veh/h 345	1284	1557	612	570	812
HCM Platoon Ratio 1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I) 1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh 63.1	30.7	31.5	48.1	53.1	20.4
Incr Delay (d2), s/veh 135.5	23.1	0.1	195.5	190.2	0.1
Initial Q Delay(d3),s/veh 0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/26.4	51.5	2.9	56.2	52.1	9.3
Unsig. Movement Delay, s/veh		04.0	040.0	040.0	00 5
LnGrp Delay(d),s/veh 198.6	53.8		243.6		20.5
LnGrp LOS F	D	С	F	F	С
Approach Vol, veh/h	1705	1101		941	
Approach Delay, s/veh	90.5	198.2		209.5	
Approach LOS	F	F		F	
					•
Timer - Assigned Phs	2		4	5	6
Phs Duration (G+Y+Rc), s	99.7		56.5	34.0	65.7
Change Period (Y+Rc), s	5.7		6.5	4.0	5.7
Max Green Setting (Gmax), s	94.0		50.0	30.0	60.0
Max Q Clear Time (g_c+l1), s	94.0		52.0	32.0	62.0
Green Ext Time (p_c), s	0.0		0.0	0.0	0.0
			•.•	0.0	0.0
Intersection Summary					
HCM 6th Ctrl Delay		152.0			
HCM 6th LOS		F			
Notes					

User approved volume balancing among the lanes for turning movement. User approved ignoring U-Turning movement.

	۶	-	7	-	+	•	1	t	1	4	Ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	٦	1	1	à	Þ		ň	<b>†</b>	1	٦	ţ,		
Traffic Volume (veh/h)	350	440	80	30	390	60	190	290	80	40	180	100	
Future Volume (veh/h)	350	440	80	30	390	60	190	290	80	40	180	100	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	v	0.97	1.00	Ū	0.98	1.00	Ŭ	0.99	1.00	v	0.96	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No	1.00	1.00	No	1.00	1.00	No	1.00	1.00	No	1.00	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	376	473	86	36	470	72	253	387	1070	45	205	114	
Peak Hour Factor	0.93	0.93	0.93	0.83	0.83	0.83	0.75	0.75	0.75	0.88	0.88	0.88	
Percent Heavy Veh, %	0.95	0.95	0.95	0.05	0.05	0.03	2	2	2	0.00	0.00	2	
Cap, veh/h	385	838	687	52	413	63	264	599	503	58	228	127	
Arrive On Green	0.22	0.45	0.45	52 0.03	0.26	0.26	204 0.15	0.32	0.32	0.03	0.20	0.20	
Sat Flow, veh/h	1781	1870	1534	1781	1580	242	1781	1870	1570	1781	1113	619	
Grp Volume(v), veh/h	376	473	86	36	0	542	253	387	107	45	0	319	
Grp Sat Flow(s),veh/h/l		1870	1534	1781	0	1822	1781	1870	1570	1781	0	1732	
Q Serve(g_s), s	24.9	22.1	3.9	2.4	0.0	31.0	16.7	21.0	5.9	3.0	0.0	21.3	
Cycle Q Clear(g_c), s	24.9	22.1	3.9	2.4	0.0	31.0	16.7	21.0	5.9	3.0	0.0	21.3	
Prop In Lane	1.00		1.00	1.00		0.13	1.00		1.00	1.00		0.36	
Lane Grp Cap(c), veh/h		838	687	52	0	476	264	599	503	58	0	354	
V/C Ratio(X)	0.98	0.56	0.13	0.69	0.00	1.14	0.96	0.65	0.21	0.78	0.00	0.90	
Avail Cap(c_a), veh/h	385	838	687	102	0	476	264	623	523	132	0	448	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	
Uniform Delay (d), s/ve	h 46.2	24.2	19.1	57.0	0.0	43.8	50.1	34.5	29.4	56.9	0.0	46.0	
Incr Delay (d2), s/veh	39.7	0.6	0.0	5.9	0.0	84.8	43.1	1.6	0.1	7.9	0.0	15.9	
Initial Q Delay(d3),s/vel	h 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),vel		9.8	1.4	1.2	0.0	25.1	10.4	9.4	2.2	1.4	0.0	10.3	
Unsig. Movement Delay													
LnGrp Delay(d),s/veh	85.9	24.7	19.2	62.9	0.0	128.6	93.2	36.2	29.5	64.8	0.0	61.9	
LnGrp LOS	F	C	B	E	A	F	F	D	C	E	A	E	
Approach Vol, veh/h		935			578			747			364		
Approach Delay, s/veh		48.8			124.5			54.5			62.2		
Approach LOS		40.0 D			124.5 F			54.5 D			02.2 F		
		U						U			L		
Timer - Assigned Phs	1	2	3	4	5	6	7	8					
Phs Duration (G+Y+Rc		43.7	7.9	58.7	22.0	30.0	30.0	36.6					
Change Period (Y+Rc),		5.7	4.4	* 5.6	4.4	5.7	4.4	5.6					
Max Green Setting (Gr		39.5	6.8	* 50	17.6	30.7	25.6	31.0					
Max Q Clear Time (g_c		23.0	4.4	24.1	18.7	23.3	26.9	33.0					
Green Ext Time (p_c),		0.6	0.0	1.1	0.0	0.4	0.0	0.0					
Intersection Summary													
HCM 6th Ctrl Delay			69.0										
HCM 6th LOS			03.0 E										
			L										
Notes													

Movement         EBL         EBT         EBR         WBL         WBT         WBR         NBL         NBT         NBR         SBL         SBT         SBR           Lane Configurations
Lane Configurations         A         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F
Traffic Volume (veh/h)         70         230         10         40         180         0         80         190         370         0         20         30           Future Volume (veh/h)         70         230         10         40         180         0         80         190         370         0         20         30           Initial Q (Qb), veh         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 <t< td=""></t<>
Future Volume (veh/h)         70         230         10         40         180         0         80         190         370         0         20         30           Initial Q (Qb), veh         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0
Initial Q (Qb), veh         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0
Ped-Bike Adj(A_pbT) 1.00 0.99 1.00 1.00 1.00 1.00 1.00 0.97
Work Zone On Approach No No No No
Adj Sat Flow, veh/h/ln 1870 1870 1870 1870 1870 1870 1870 1870
Adj Flow Rate, veh/h 92 303 13 55 247 0 94 224 435 0 40 60
Peak Hour Factor 0.76 0.76 0.76 0.73 0.73 0.73 0.85 0.85 0.85 0.50 0.50 0.50
Percent Heavy Veh, % 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Cap, veh/h 118 713 894 72 620 0 653 686 578 0 109 90
Arrive On Green         0.07         0.20         0.04         0.17         0.00         0.37         0.37         0.00         0.06         0.06
Sat Flow, veh/h 1781 3554 1561 1781 3647 0 1781 1870 1577 0 1870 1543
Grp Volume(v), veh/h 92 303 13 55 247 0 94 224 435 0 40 60
Grp Sat Flow(s), veh/h/ln1781 1777 1561 1781 1777 0 1781 1870 1577 0 1870 1543
Lane Grp Cap(c), veh/h 118 713 894 72 620 0 653 686 578 0 109 90
V/C Ratio(X) 0.78 0.43 0.01 0.77 0.40 0.00 0.14 0.33 0.75 0.00 0.37 0.67
Avail Cap(c_a), veh/h 312 1870 1403 200 1653 0 865 908 766 0 130 107
HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
Upstream Filter(I) 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
Uniform Delay (d), s/veh 27.1 20.6 5.6 28.0 21.6 0.0 12.5 13.4 16.3 0.0 26.7 27.2
Incr Delay (d2), s/veh 4.1 0.7 0.0 6.2 0.7 0.0 0.2 0.6 4.9 0.0 0.8 7.3
Initial Q Delay(d3),s/veh 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.
%ile BackOfQ(50%),veh/ln1.3 1.7 0.1 0.8 1.4 0.0 0.8 2.0 5.0 0.0 0.5 0.9
Unsig. Movement Delay, s/veh
LnGrp Delay(d),s/veh 31.1 21.3 5.6 34.2 22.3 0.0 12.7 14.0 21.2 0.0 27.5 34.5
LnGrp LOS C C A C C A B B C A C C
Approach Vol, veh/h 408 302 753 100
Approach Delay, s/veh 23.0 24.5 18.0 31.7
Approach LOS C C B C
Timer - Assigned Phs 2 3 4 6 7 8
Phs Duration (G+Y+Rc), s 26.5 6.8 17.3 8.3 8.3 15.8
Change Period (Y+Rc), s 4.9 4.4 5.5 4.9 4.4 * 5.5
Max Green Setting (Gmax), s 28.6 6.6 31.0 4.1 10.3 * 27
Max Q Clear Time (g_c+11), s 16.2 3.8 6.4 4.2 5.0 5.6
Green Ext Time (p_c), s 5.1 0.0 3.0 0.0 0.0 2.2
Intersection Summary
HCM 6th Ctrl Delay 21.4
HCM 6th LOS C
Notes

Movement Lane Configurations Traffic Volume (veh/h) Future Volume (veh/h)	EBL	EBT											
Traffic Volume (veh/h) Future Volume (veh/h)			EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Future Volume (veh/h)	~ ~	<b>^</b>	1	5	<b>†</b> 1,		5	ŧ	1		\$		
( )	20	180	10	100	510	0	450	20	1730	20	10	0	
Initial O (Ob) wate	20	180	10	100	510	0	450	20	1730	20	10	0	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		1.00	1.00		1.00	1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach		No			No			No			No		
	1870	1870	1870	1870	1870	1870	1575	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	30	269	15	125	638	0	603	0	2247	40	20	0	
Peak Hour Factor	0.67	0.67	0.67	0.80	0.80	0.80	0.77	0.77	0.77	0.50	0.50	0.50	
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2	
Cap, veh/h	38	599	266	87	697	0	1818	0	959	61	31	0	
Arrive On Green	0.02	0.17	0.17	0.05	0.20	0.00	0.61	0.00	0.61	0.05	0.05	0.00	
	1781	3554	1577	1781	3647	0	3000	0	1583	1207	603	0	
Grp Volume(v), veh/h	30	269	15	125	638	0	603	0	2247	60	0	0	
Grp Sat Flow(s),veh/h/ln		1777	1577	1781	1777	0	1500	0	1583	1810	0	0	
Q Serve(g_s), s	2.6	10.6	1.2	7.6	27.3	0.0	15.4	0.0	94.1	5.1	0.0	0.0	
Cycle Q Clear(g_c), s	2.6	10.6	1.2	7.6	27.3	0.0	15.4	0.0	94.1	5.1	0.0	0.0	
Prop In Lane	1.00		1.00	1.00		0.00	1.00		1.00	0.67		0.00	
Lane Grp Cap(c), veh/h	38	599	266	87	697	0	1818	0	959	92	0	0	
V/C Ratio(X)	0.78	0.45	0.06	1.43	0.92	0.00	0.33	0.00	2.34	0.65	0.00	0.00	
Avail Cap(c_a), veh/h	46	643	285	87	719	0	1818	0	959	303	0	0	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00	0.00	
Uniform Delay (d), s/veh		58.1	54.2	73.8	61.2	0.0	15.1	0.0	30.6	72.3	0.0	0.0	
	42.8	1.1		248.8	16.8	0.0	0.3	0.0	607.5	2.9	0.0	0.0	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/		4.8	0.5	9.5	13.8	0.0	5.3	0.0	195.6	2.4	0.0	0.0	
Unsig. Movement Delay,			<b>F A A</b>	000.0	70.0	0.0	45.4	0.0	000 4	75.0	0.0	0.0	
LnGrp Delay(d),s/veh 1		59.1	54.4	322.6	78.0	0.0	15.4	0.0	638.1	75.2	0.0	0.0	
LnGrp LOS	F	E	D	F	E	A	В	A	F	E	<u>A</u>	A	
Approach Vol, veh/h		314			763			2850			60		
Approach Delay, s/veh		64.6			118.1			506.4			75.2		
Approach LOS		E			F			F			E		
Timer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Rc),		31.5		12.8	7.7	35.7		99.0					
Change Period (Y+Rc), s		* 5.3		4.9	4.4	5.3		4.9					
Max Green Setting (Gma		* 28		26.0	4.0	31.4		94.1					
Max Q Clear Time (g_c+		12.6		7.1	4.6	29.3		96.1					
Green Ext Time (p_c), s	0.0	2.4		0.1	0.0	1.1		0.0					
Intersection Summary													
HCM 6th Ctrl Delay			390.8										
HCM 6th LOS			F										

### Notes

User approved volume balancing among the lanes for turning movement.

User approved ignoring U-Turning movement.

メッチャッシー

Movement EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	<b>^</b>	<b>≜</b> ↑₽		٢	1
Traffic Volume (veh/h) 310		10	270	0	220
Future Volume (veh/h) 310		10	270	0	220
Initial Q (Qb), veh 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
Work Zone On Approach	No	No		No	
Adj Sat Flow, veh/h/ln 1885		1885	1885	1870	1870
Adj Flow Rate, veh/h 383		14	380	0	220
Peak Hour Factor 0.81	0.81	0.71	0.71	1.00	1.00
Percent Heavy Veh, % 1	1	1	1	2	2
Cap, veh/h 464		341	305	311	277
Arrive On Green 0.26	0.57	0.19	0.19	0.00	0.17
Sat Flow, veh/h 1795		1885	1598	1781	1585
Grp Volume(v), veh/h 383		14	380	0	220
Grp Sat Flow(s), veh/h/ln1795		1791	1598	1781	1585
Q Serve(g_s), s $7.6$		0.2	7.2	0.0	5.0
Cycle Q Clear(g_c), s 7.6		0.2	7.2	0.0	5.0
Prop In Lane 1.00		0.1.1	1.00	1.00	1.00
Lane Grp Cap(c), veh/h 464		341	305	311	277
V/C Ratio(X) 0.82		0.04	1.25	0.00	0.79
Avail Cap(c_a), veh/h 789		341	305	1038	923
HCM Platoon Ratio 1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I) 1.00		1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh 13.2		12.5	15.3	0.0	14.9
Incr Delay (d2), s/veh 1.4	0.1	0.0	135.9	0.0	2.0
Initial Q Delay(d3),s/veh 0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln2.2	0.8	0.1	13.3	0.0	4.4
Unsig. Movement Delay, s/ve	h				
LnGrp Delay(d),s/veh 14.6		12.5	151.2	0.0	16.9
LnGrp LOS B		В	F	А	В
Approach Vol, veh/h	1506	394		220	
Approach Delay, s/veh	7.7	146.2		16.9	
Approach LOS	A	F		B	
					•
Timer - Assigned Phs	2		4	5	6
Phs Duration (G+Y+Rc), s	26.3		11.5	14.2	12.1
Change Period (Y+Rc), s	4.9		4.9	4.4	4.9
Max Green Setting (Gmax), s			22.0	16.6	7.2
Max Q Clear Time (g_c+l1), s			7.0	9.6	9.2
Green Ext Time (p_c), s	4.8		0.3	0.4	0.0
Intersection Summary					
HCM 6th Ctrl Delay		34.4			
HCM 6th LOS		С			
		0			

-	٠	7	1	t	ŧ	~
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	à	1	٦	<b>†</b>	ţ,	
	1450	180	130	150	40	230
· · · · ·	1450	180	130	150	40	230
Initial Q (Qb), veh	0	0	0	0	0	0
	1.00	1.00	1.00	v	Ŭ	0.98
<u>, , , , , , , , , , , , , , , , , , , </u>	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		1.00	1.00	No	No	1.00
••	1870	1870	1870	1870	1870	1870
	1648	205	137	158	51	295
	0.88	0.88	0.95	0.95	0.78	0.78
Percent Heavy Veh, %	2	2	2	2	2	2
	1218	1084	105	488	42	242
	0.68	0.68	0.06	0.26	0.18	0.18
	1781	1585	1781	1870	235	1359
	1648	205	137	158	0	346
Grp Sat Flow(s),veh/h/In1		1585	1781	1870	0	1594
Q Serve(g_s), s 12	23.1	8.5	10.6	12.3	0.0	32.0
Cycle Q Clear(g_c), s 12	23.1	8.5	10.6	12.3	0.0	32.0
Prop In Lane	1.00	1.00	1.00			0.85
Lane Grp Cap(c), veh/h 1	1218	1084	105	488	0	283
	1.35	0.19	1.31	0.32	0.00	1.22
( )	1218	1084	105	488	0	283
1 = 7	1.00	1.00	1.00	1.00	1.00	1.00
	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh2		10.3	84.7	53.7	0.0	74.0
Incr Delay (d2), s/veh 16		0.1	190.6	0.5	0.0	127.1
Initial Q Delay(d3), s/veh		0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh//		13.5	10.5	5.9	0.0	23.2
. ,		10.0	10.5	5.9	0.0	ZJ.Z
Unsig. Movement Delay,		10.4	075.0	E4 0	0.0	001.1
LnGrp Delay(d),s/veh 19			275.3	54.2		201.1
LnGrp LOS	F	В	F	D	<u>A</u>	F
	1853			295	346	
Approach Delay, s/veh 17				156.9		
Approach LOS	F			F	F	
Timer - Assigned Phs		2		4	5	6
Phs Duration (G+Y+Rc),	<u> </u>	52.0		128.0	15.0	37.0
· · · · · · · · · · · · · · · · · · ·						
Change Period (Y+Rc), s		5.0		4.9	4.4	5.0
Max Green Setting (Gmax		47.0		123.1	10.6	32.0
Max Q Clear Time (g_c+l	11), S	14.3		125.1	12.6	34.0
Green Ext Time (p_c), s		1.2		0.0	0.0	0.0
Intersection Summary						
HCM 6th Ctrl Delay			174.6			
HCM 6th LOS			F			
			•			

User approved ignoring U-Turning movement.

## メッチメンイ

Mayamant EDL	ГРТ				CDL	000
Movement EBL	EBT		WBT	WBR	SBL	SBR
Lane Configurations	1000		<b>†</b>	250	<b>Y</b>	170
Traffic Volume (veh/h) 370	1680		160	350	160	170
Future Volume (veh/h) 370	1680		160	350	160	170
Initial Q (Qb), veh 0	0		0	0	0	0
Ped-Bike Adj(A_pbT) 1.00	4.00		4.00	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 1885	2133		2133	1885	1870	1870
Adj Flow Rate, veh/h 381	1732		195	427	286	304
Peak Hour Factor 0.97	0.97		0.82	0.82	0.56	0.56
Percent Heavy Veh, % 1	1		1	1	2	2
Cap, veh/h 412	2145	2 2145	489	435	267	284
Arrive On Green 0.23	0.53	3 0.53	0.24	0.24	0.33	0.33
Sat Flow, veh/h 1795	4160	5 4160	2133	1804	810	861
Grp Volume(v), veh/h 381	1732		195	427	591	0
Grp Sat Flow(s), veh/h/ln1795	2027		2027	1804	1675	0
Q Serve( $g_s$ ), s 15.6	26.3		6.1	17.6	24.7	0.0
Cycle Q Clear( $g_c$ ), s 15.6	26.3		6.1	17.6	24.7	0.0
Prop In Lane 1.00	20.0		0.1	1.00	0.48	0.51
Lane Grp Cap(c), veh/h 412	2145		489	435	552	0.01
V/C Ratio(X) 0.93	0.81		0.40	0.98	1.07	0.00
Avail Cap(c_a), veh/h 412			489	435	552	0.00
HCM Platoon Ratio 1.00	1.00		1.00	1.00	1.00	1.00
Upstream Filter(I) 1.00	1.00		1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh 28.3	14.5		23.9	28.3	25.2	0.00
	2.5		23.9	20.3 38.0	25.2 58.9	0.0
	2.5 0.0			36.0 0.0		0.0
Initial Q Delay(d3),s/veh 0.0	10.1		0.0		0.0	
%ile BackOfQ(50%),veh/lr9.0			2.7	11.4	18.1	0.0
Unsig. Movement Delay, s/ve			24.0	66.0	010	0.0
LnGrp Delay(d),s/veh 54.5	17.0		24.6	66.3	84.0	0.0
LnGrp LOS D	B		<u>C</u>	E	F	A
Approach Vol, veh/h	2113		622		591	
Approach Delay, s/veh	23.8		53.2		84.0	
Approach LOS	С	C	D		F	
Timer - Assigned Phs	2	2		4	5	6
Phs Duration (G+Y+Rc), s	45.4			29.6	21.6	23.8
Change Period (Y+Rc), s	5.7			4.9	4.4	5.7
Max Green Setting (Gmax), s				24.7	17.2	18.1
Max Q Clear Time (g_c+I1), s				24.7	17.2	19.6
Green Ext Time (p_c), s	9.4			0.0	0.0	0.0
, , , , , , , , , , , , , , , , , , ,	9.4	3.4		0.0	0.0	0.0
Intersection Summary						
HCM 6th Ctrl Delay			40.0			
HCM 6th LOS			D			
Notoc						

### Notes

User approved volume balancing among the lanes for turning movement.

# クランマナベベ イクシレイ

		•	्र			)	200		200	•	100
Movement EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations			2		11	5	***	1	24	***	
Traffic Volume (veh/h) 0	0	0	100	0	280	10	920	60	280	2510	0
Future Volume (veh/h) 0	0	0	100	0	280	10	920	60	280	2510	0
Initial Q (Qb), veh			0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)			1.00		1.00	1.00		0.98	1.00		1.00
Parking Bus, Adj			1.00	1.00	1.00	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	0	1870	1870	1856	1856	1856	1856	0
Adj Flow Rate, veh/h			102	0	286	11	1000	65	292	2615	0
Peak Hour Factor			0.98	0.98	0.98	0.92	0.92	0.92	0.96	0.96	0.96
Percent Heavy Veh, %			2	0	2	2	3	3	3	3	0
Cap, veh/h			268	0	420	19	2347	711	334	3250	0
Arrive On Green			0.15	0.00	0.15	0.01	0.46	0.46	0.19	0.64	0.00
Sat Flow, veh/h			1781	0	2790	1781	5066	1534	1767	5233	0
Grp Volume(v), veh/h			102	0	286	11	1000	65	292	2615	0
Grp Sat Flow(s),veh/h/ln			1781	0	1395	1781	1689	1534	1767	1689	0
Q Serve(g_s), s			4.1	0.0	7.8	0.5	10.6	1.9	12.9	30.7	0.0
Cycle Q Clear(g_c), s			4.1	0.0	7.8	0.5	10.6	1.9	12.9	30.7	0.0
Prop In Lane			1.00		1.00	1.00		1.00	1.00		0.00
Lane Grp Cap(c), veh/h			268	0	420	19	2347	711	334	3250	0
V/C Ratio(X)			0.38	0.00	0.68	0.57	0.43	0.09	0.87	0.80	0.00
Avail Cap(c_a), veh/h			724	0	1134	124	2347	711	608	3292	0
HCM Platoon Ratio			1.00	1.00	1.00	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	1.00	1.00	0.00
Uniform Delay (d), s/veh			30.7	0.0	32.2	39.5	14.4	12.1	31.6	10.6	0.0
Incr Delay (d2), s/veh			1.4	0.0	3.0	9.4	0.2	0.1	2.8	1.7	0.0
Initial Q Delay(d3),s/veh			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/In			1.8	0.0	2.6	0.3	3.4	0.6	5.3	8.1	0.0
Unsig. Movement Delay, s/veh											
LnGrp Delay(d),s/veh			32.0	0.0	35.2	48.9	14.6	12.1	34.4	12.4	0.0
LnGrp LOS			С	А	D	D	В	В	С	В	А
Approach Vol, veh/h				388			1076			2907	
Approach Delay, s/veh				34.4			14.8			14.6	
Approach LOS				С			В			В	
Timer - Assigned Phs 1	2			5	6		8				
Phs Duration (G+Y+Rc), \$9.6	44.1			5.3	58.4		16.5				
Change Period (Y+Rc), s 4.4	7.0			4.4	* 7		4.4				
Max Green Setting (Gmax), 6	29.0			5.6	* 52		32.6				
Max Q Clear Time (g_c+114, s	12.6			2.5	32.7		9.8				
Green Ext Time (p_c), s 0.3	7.7			0.0	18.8		2.3				
м <i>= 7</i> -				0.0	.0.0		2.0				
Intersection Summary		40.4									
HCM 6th Ctrl Delay		16.4									
HCM 6th LOS		В									
Notes											

### Notes

User approved ignoring U-Turning movement.

Movement         EBL         EBL         EBR         WBL         WBL         NBL         NBL         NBL         SBL         SBL         SBR           Lane Configurations         ++         r         3         ++         r         3         ++         r         3         +++         r         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3		٠	-	7	-	+	*	1	Ť	1	4	ŧ	~	
Lane Configurations       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y       Y	Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Traffic Volume (velvh)       710       110       170       20       80       20       110       380       20       30       1380       1010         Initial Q (Qb), velh       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       <														
Future Volume (veh/h)       710       110       170       20       80       20       110       380       20       30       1380       1010         Initial Q (Qb), veh       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>														
Initial Q(b), veh       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0	. ,													
Ped-Bike Adj(A, pbT)       1.00       0.99       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00 <td< td=""><td>, , ,</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	, , ,													
Parking Bus, Adj       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.0			U			U			v			v		
Work Zone On Approach         No         No         No         No         No         No           Adj Sat Flow, veh/hilin 1870         1870         1796         1870         1870         1796         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856         1856			1 00			1 00			1 00			1 00		
Adj Sat Flow, veh/h/n       1870       1796       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870 <t< td=""><td></td><td></td><td></td><td>1.00</td><td>1.00</td><td></td><td>1.00</td><td>1.00</td><td></td><td>1.00</td><td>1.00</td><td></td><td>1.00</td><td></td></t<>				1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Adj       Flow Rate, veh/h       798       124       191       24       94       24       120       413       22       33       1500       1098         Peak Hour Factor       0.69       0.89       0.89       0.85       0.85       0.85       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92 <td></td> <td></td> <td></td> <td>1706</td> <td>1870</td> <td></td> <td>1706</td> <td>1856</td> <td></td> <td>1856</td> <td>1856</td> <td></td> <td>1856</td> <td></td>				1706	1870		1706	1856		1856	1856		1856	
Peak Hour Factor       0.89       0.89       0.85       0.85       0.85       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.41       0.41       0.41       0.41       0.41       0.41       0.41       0.41       0.41       0.41       0.41       0.41 <th0.41< th="">       0.41       0.41</th0.41<>														
Percent Heavy Veh, %       2       2       2       2       2       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3														
Cap, veh/h       451       1018       429       31       178       75       277       2830       875       42       2102       640         Arrive On Green       0.25       0.29       0.29       0.02       0.05       0.16       0.56       0.56       0.56       160       156       167       5066       1566       1767       5066       1541         Grp Volume(v), veh/h       1781       3554       1499       1781       3777       1503       1767       1689       1566       1767       1689       1541         Grp Sat Flow(s), veh/h/11781       1777       1499       1781       1777       1503       1767       1689       1566       1767       1689       1541         Qserve(g.s), s       456       4.6       129       2.4       4.6       2.8       11.1       7.1       1.1       3.3       4.3       3.4.7         Orpe In Lane       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00														
Arrive On Green       0.25       0.29       0.29       0.02       0.05       0.16       0.56       0.56       0.02       0.41       0.41         Sat Flow, veh/h       1781       3554       1499       1781       3554       1503       1767       5066       1566       1767       5066       1541         Grp Volume(v), veh/h       798       124       191       24       94       24       120       413       22       3       1500       1098         Grp Sat Flow(s), veh/h       778       1777       1707       1767       1689       1566       1767       1689       1541         Q Serve(g. s), s       45.6       4.6       12.9       2.4       4.6       2.8       11.1       7.1       1.1       3.3       44.3       34.7         Prop In Lane       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00 <td></td>														
Sat Flow, veh/h       1781       3554       1499       1781       3554       1503       1767       5066       1566       1767       5066       1541         Grp Volume(v), veh/h       798       124       191       24       94       24       120       413       22       33       1500       1098         Grp Sat Flow(s), veh/h1n1781       1777       1499       1781       1777       1503       1767       1689       1566       1767       1689       1541         Qserve(g.s), s       45.6       4.6       12.9       2.4       4.6       2.8       11.1       7.1       1.1       3.3       44.3       34.7         Cycle Q Clear(g_c), s       45.6       4.6       12.9       2.4       4.6       2.8       11.1       7.1       1.1       3.3       44.3       34.7         Cycle Q Clear(g_c), sh/t       451       1018       429       31       176       7527       280       875       42       102       640         ViC Ratio(X)       1.77       0.12       0.44       0.79       0.53       0.32       0.43       0.15       0.03       0.78       0.71       1.72         Avail Cap(c, a), wh/t <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>														
Grp Volume(v), veh/h       798       124       191       24       94       24       120       413       22       33       1500       1098         Grp Sat Flow(s), veh/h/in1781       1777       1499       1781       1777       1503       1767       1689       1566       1767       1689       1564       143       34.7         Qserve(g.s), s       45.6       4.6       12.9       2.4       4.6       2.8       11.1       7.1       1.1       3.3       44.3       34.7         Cycle Q Clear(g.c), s       45.6       4.6       12.9       2.4       4.6       2.8       11.1       7.1       1.1       3.3       44.3       34.7         Cycle Q Clear(g.c), s       45.6       4.6       12.9       2.4       4.6       2.8       11.1       7.1       1.1       3.3       44.3       34.7         Prop In Lane       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00														
Grp Sat Flow(s), veh/h/ln1781       1777       1499       1781       1777       1503       1767       1689       1566       1767       1689       1541         Q Serve(g, s), s       45.6       4.6       12.9       2.4       4.6       2.8       11.1       7.1       1.1       3.3       44.3       34.7         Cycle Q Clear(g, c), s       45.6       4.6       12.9       2.4       4.6       2.8       11.1       7.1       1.1       3.3       44.3       34.7         Prop In Lane       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00         Lane Grp Cap(c), veh/h       451       1380       582       66       612       259       277       2830       875       42       2102       640         V/C Ratio(X)       1.77       0.12       0.44       0.79       0.53       0.32       0.43       0.15       0.03       0.78       0.71       1.72         Avail Cap(c, a), veh/h       451       1380       582       66       612       259       277       2830       875       42       100       1.00       1.00       1.00       1.00       1.00       1.00														
Q Serve(g_s), s       45.6       4.6       12.9       2.4       4.6       2.8       11.1       7.1       1.1       3.3       44.3       34.7         Cycle Q Clear(g_c), s       45.6       4.6       12.9       2.4       4.6       2.8       11.1       7.1       1.1       3.3       44.3       34.7         Prop In Lane       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00														
Cycle Q Clear(g_c), s       45.6       4.6       12.9       2.4       4.6       2.8       11.1       7.1       1.1       3.3       44.3       34.7         Prop In Lane       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>														
Prop In Lane       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00         Lane Grp Cap(c), veh/h       451       1018       429       31       178       75       277       2830       875       42       2102       640         V/C Ratio(X)       1.77       0.12       0.44       0.79       0.53       0.32       0.43       0.15       0.03       0.78       0.71       1.72         Avail Cap(c_a), veh/h       451       1380       582       66       612       259       277       2830       875       89       2102       640         HCM Platoon Ratio       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>														
Lane Grp Cap(c), veh/h 451 1018 429 31 178 75 277 2830 875 42 2102 640 V/C Ratio(X) 1.77 0.12 0.44 0.79 0.53 0.32 0.43 0.15 0.03 0.78 0.71 1.72 Avail Cap(c_a), veh/h 451 1380 582 66 612 259 277 2830 875 89 2102 640 HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Cycle Q Clear(g_c), s	45.6	4.6	12.9	2.4	4.6	2.8	11.1	7.1		3.3	44.3	34.7	
V/C Ratio(X)       1.77       0.12       0.44       0.79       0.53       0.32       0.43       0.15       0.03       0.78       0.71       1.72         Avail Cap(c_a), veh/h       451       1380       582       66       612       259       277       2830       875       89       2102       640         HCM Platoon Ratio       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00	Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Avail Cap(c_a), veh/h       451       1380       582       66       612       259       277       2830       875       89       2102       640         HCM Platoon Ratio       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       <	Lane Grp Cap(c), veh/ł	n 451	1018	429	31	178	75	277	2830	875	42	2102	640	
HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	V/C Ratio(X)	1.77	0.12	0.44	0.79	0.53	0.32	0.43	0.15	0.03	0.78	0.71	1.72	
Upstream Filter(I)       1.00       1.00       1.00       1.00       1.00       1.00       1.00       0.56       0.56       0.56         Uniform Delay (d), s/veh 354.7       0.1       2.0       15.0       6.5       6.5       0.4       0.1       0.1       6.3       1.2       326.2         Initial Q Delay(d3), s/veh 0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0	Avail Cap(c_a), veh/h	451	1380	582	66	612	259	277	2830	875	89	2102	640	
Uniform Delay (d), s/veh 67.2 47.5 25.0 88.1 83.4 82.5 68.7 19.1 17.8 87.4 43.8 11.4 Incr Delay (d2), s/veh 354.7 0.1 2.0 15.0 6.5 6.5 0.4 0.1 0.1 6.3 1.2 326.2 Initial Q Delay(d3),s/veh 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/veh 67.2 47.5 25.0 88.1 83.4 82.5 68.7 19.1 17.8 87.4 43.8 11.4 Incr Delay (d2), s/veh 354.7 0.1 2.0 15.0 6.5 6.5 0.4 0.1 0.1 6.3 1.2 326.2 Initial Q Delay(d3),s/veh 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.56	0.56	0.56	
Incr Delay (d2), s/veh 354.7       0.1       2.0       15.0       6.5       6.5       0.4       0.1       0.1       6.3       1.2       326.2         Initial Q Delay(d3), s/veh 0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0				25.0	88.1	83.4	82.5			17.8	87.4	43.8	11.4	
Initial Q Delay(d3),s/veh       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>														
%ile BackOfQ(50%),veh/l65.4       2.1       5.0       1.3       2.3       1.2       5.0       2.8       0.4       1.6       18.3       69.9         Unsig. Movement Delay, s/veh       LnGrp Delay(d),s/veh 421.9       47.6       27.0       103.1       89.9       89.0       69.1       19.2       17.8       93.6       44.9       337.5         LnGrp DOS       F       D       C       F       F       F       E       B       B       F       D       F         Approach Vol, veh/h       1113       142       555       2631         Approach LOS       F       F       F       C       F         Timer - Assigned Phs       1       2       3       4       5       6       7       8         Phs Duration (G+Y+Rc), s8.7       107.3       7.5       56.4       35.0       81.1       50.0       13.9       13.9         Change Period (Y+Rc), s 4.4       6.8       4.4       4.9       6.8       *6.4       4.4       4.9       4.9       4.9       4.9       4.9       4.4       4.9       4.4       4.9       4.4       4.9       4.4       4.9       4.4       4.9       4.4       4.9       4.4														
Unsig. Movement Delay, s/veh LnGrp Delay(d),s/veh 421.9 47.6 27.0 103.1 89.9 89.0 69.1 19.2 17.8 93.6 44.9 337.5 LnGrp LOS F D C F F F F E B B F D F Approach Vol, veh/h 1113 142 555 2631 Approach Delay, s/veh 312.4 92.0 29.9 167.7 Approach LOS F F F C F C F Timer - Assigned Phs 1 2 3 4 5 6 7 8 Phs Duration (G+Y+Rc), s8.7 107.3 7.5 56.4 35.0 81.1 50.0 13.9 Change Period (Y+Rc), s 4.4 6.8 4.4 4.9 6.8 * 6.4 4.4 4.9 Max Green Setting (Gmax), \$ 73.8 6.7 69.9 8.6 * 75 45.6 31.0 Max Q Clear Time (g_c+115, \$ 9.1 4.4 14.9 13.1 46.3 47.6 6.6 Green Ext Time (p_c), s 0.0 2.7 0.0 4.1 0.0 18.9 0.0 1.3 Intersection Summary HCM 6th Ctrl Delay 184.3 HCM 6th LOS F														
LnGrp Delay(d),s/veh       421.9       47.6       27.0       103.1       89.9       89.0       69.1       19.2       17.8       93.6       44.9       337.5         LnGrp LOS       F       D       C       F       F       F       B       B       F       D       F         Approach Vol, veh/h       1113       142       555       2631         Approach Delay, s/veh       312.4       92.0       29.9       167.7         Approach LOS       F       F       C       F         Timer - Assigned Phs       1       2       3       4       5       6       7       8         Phs Duration (G+Y+Rc), s8.7       107.3       7.5       56.4       35.0       81.1       50.0       13.9         Change Period (Y+Rc), s 4.4       6.8       4.4       4.9       6.8       *6.4       4.4       4.9         Max Green Setting (Gmax9, \$ 73.8       6.7       69.9       8.6       *75       45.6       31.0         Max Q Clear Time (p_c), s 0.0       2.7       0.0       4.1       0.0       18.9       0.0       1.3         Intersection Summary       HCM 6th Ctrl Delay       184.3       F       F       F <td>. ,</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>•••</td> <td></td> <td></td> <td></td> <td></td>	. ,									•••				
LnGrp LOS       F       D       C       F       F       F       B       B       F       D       F         Approach Vol, veh/h       1113       142       555       2631         Approach Delay, s/veh       312.4       92.0       29.9       167.7         Approach LOS       F       F       C       F         Timer - Assigned Phs       1       2       3       4       5       6       7       8         Phs Duration (G+Y+Rc), s8.7       107.3       7.5       56.4       35.0       81.1       50.0       13.9         Change Period (Y+Rc), s 4.4       6.8       4.4       4.9       6.8       * 6.4       4.4       4.9         Max Green Setting (Gmax%, \$       73.8       6.7       69.9       8.6       * 75       45.6       31.0         Max Q Clear Time (g_c+115, \$       9.1       4.4       14.9       13.1       46.3       47.6       6.6         Green Ext Time (p_c), \$       0.0       2.7       0.0       4.1       0.0       18.9       0.0       1.3         Intersection Summary       I       I       0.0       18.9       0.0       1.3       Intersection Summary       Intersection Su	-	•		27 0	103 1	89.9	89.0	69 1	19.2	17 8	93.6	44 9	337 5	
Approach Vol, veh/h       1113       142       555       2631         Approach Delay, s/veh       312.4       92.0       29.9       167.7         Approach LOS       F       F       C       F         Timer - Assigned Phs       1       2       3       4       5       6       7       8         Phs Duration (G+Y+Rc), s8.7       107.3       7.5       56.4       35.0       81.1       50.0       13.9         Change Period (Y+Rc), s       s4.4       6.8       4.4       4.9       6.8       * 6.4       4.4       4.9         Max Green Setting (Gmax9.\$       73.8       6.7       69.9       8.6       * 75       45.6       31.0         Max Q Clear Time (g_c+I15,3s       9.1       4.4       14.9       13.1       46.3       47.6       6.6         Green Ext Time (p_c), s       0.0       2.7       0.0       4.1       0.0       18.9       0.0       1.3         Intersection Summary       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I <td></td>														
Approach Delay, s/veh       312.4       92.0       29.9       167.7         Approach LOS       F       F       C       F         Timer - Assigned Phs       1       2       3       4       5       6       7       8         Phs Duration (G+Y+Rc), s8.7       107.3       7.5       56.4       35.0       81.1       50.0       13.9         Change Period (Y+Rc), s 4.4       6.8       4.4       4.9       6.8       * 6.4       4.4       4.9         Max Green Setting (Gmax%).\$       73.8       6.7       69.9       8.6       * 75       45.6       31.0         Max Q Clear Time (g_c+I15, \$       9.1       4.4       14.9       13.1       46.3       47.6       6.6         Green Ext Time (p_c), s       0.0       2.7       0.0       4.1       0.0       18.9       0.0       1.3         Intersection Summary       Itersection Summary       F       F       F       F       F				<u> </u>							<u> </u>			
Approach LOS       F       F       C       F         Timer - Assigned Phs       1       2       3       4       5       6       7       8         Phs Duration (G+Y+Rc), s8.7       107.3       7.5       56.4       35.0       81.1       50.0       13.9         Change Period (Y+Rc), s 4.4       6.8       4.4       4.9       6.8       * 6.4       4.4       4.9         Max Green Setting (Gmax%).\$       73.8       6.7       69.9       8.6       * 75       45.6       31.0         Max Q Clear Time (g_c+I15,3s       9.1       4.4       14.9       13.1       46.3       47.6       6.6         Green Ext Time (p_c), s       0.0       2.7       0.0       4.1       0.0       18.9       0.0       1.3         Intersection Summary       HCM 6th Ctrl Delay       184.3       F       F       F       F														
Timer - Assigned Phs       1       2       3       4       5       6       7       8         Phs Duration (G+Y+Rc), s8.7       107.3       7.5       56.4       35.0       81.1       50.0       13.9         Change Period (Y+Rc), s 4.4       6.8       4.4       4.9       6.8       * 6.4       4.4       4.9         Max Green Setting (Gmax9, \$       73.8       6.7       69.9       8.6       * 75       45.6       31.0         Max Q Clear Time (g_c+115, \$       9.1       4.4       14.9       13.1       46.3       47.6       6.6         Green Ext Time (p_c), s       0.0       2.7       0.0       4.1       0.0       18.9       0.0       1.3         Intersection Summary       HCM 6th Ctrl Delay       184.3       F       F       F       F														
Phs Duration (G+Y+Rc), s8.7       107.3       7.5       56.4       35.0       81.1       50.0       13.9         Change Period (Y+Rc), s       4.4       6.8       4.4       4.9       6.8       * 6.4       4.4       4.9         Max Green Setting (Gmax9, \$\$       73.8       6.7       69.9       8.6       * 75       45.6       31.0         Max Q Clear Time (g_c+l15, \$\$       9.1       4.4       14.9       13.1       46.3       47.6       6.6         Green Ext Time (p_c), s       0.0       2.7       0.0       4.1       0.0       18.9       0.0       1.3         Intersection Summary       HCM 6th Ctrl Delay       184.3       F       F       F       F	Approach LOS		F			F			U			F		
Phs Duration (G+Y+Rc), s8.7       107.3       7.5       56.4       35.0       81.1       50.0       13.9         Change Period (Y+Rc), s       4.4       6.8       4.4       4.9       6.8       * 6.4       4.4       4.9         Max Green Setting (Gmax9, \$       73.8       6.7       69.9       8.6       * 75       45.6       31.0         Max Q Clear Time (g_c+I15, \$       9.1       4.4       14.9       13.1       46.3       47.6       6.6         Green Ext Time (p_c), s       0.0       2.7       0.0       4.1       0.0       18.9       0.0       1.3         Intersection Summary       HCM 6th Ctrl Delay       184.3       F       F       F       F	Timer - Assigned Phs	1	2	3	4	5	6	7	8					
Change Period (Y+Rc), s 4.4       6.8       4.4       4.9       6.8       * 6.4       4.4       4.9         Max Green Setting (Gmax9, \$ 73.8       6.7       69.9       8.6       * 75       45.6       31.0         Max Q Clear Time (g_c+I15, \$ 9.1       4.4       14.9       13.1       46.3       47.6       6.6         Green Ext Time (p_c), s       0.0       2.7       0.0       4.1       0.0       18.9       0.0       1.3         Intersection Summary       HCM 6th Ctrl Delay       184.3       F       F       F       F	V	;), s8.7	107.3	7.5	56.4			50.0	13.9					
Max Green Setting (Gmax9, \$ 73.8       6.7       69.9       8.6       * 75       45.6       31.0         Max Q Clear Time (g_c+I15, \$ 9.1       4.4       14.9       13.1       46.3       47.6       6.6         Green Ext Time (p_c), s       0.0       2.7       0.0       4.1       0.0       18.9       0.0       1.3         Intersection Summary       HCM 6th Ctrl Delay       184.3       HCM 6th LOS       F       F														
Max Q Clear Time (g_c+l15,3s       9.1       4.4       14.9       13.1       46.3       47.6       6.6         Green Ext Time (p_c), s       0.0       2.7       0.0       4.1       0.0       18.9       0.0       1.3         Intersection Summary         HCM 6th Ctrl Delay       184.3         HCM 6th LOS       F														
Green Ext Time (p_c), s         0.0         2.7         0.0         4.1         0.0         18.9         0.0         1.3           Intersection Summary           HCM 6th Ctrl Delay         184.3           HCM 6th LOS         F	U I													
Intersection Summary HCM 6th Ctrl Delay HCM 6th LOS F														
HCM 6th Ctrl Delay 184.3 HCM 6th LOS F	а — У·	0.0		0.0		0.0	. 0.0	0.0	1.0					
HCM 6th LOS F				184 3										
	Notes			Г										

#### t 1 ∢ NBT NBR Movement EBL EBT EBR WBL WBT WBR NBL SBL SBT SBR Lane Configurations 4 ٦ £ ٦ 44 ۴ ٦ 44 7 ۴ Traffic Volume (veh/h) 10 10 90 0 30 10 470 80 20 1420 10 30 Future Volume (veh/h) 10 10 30 90 0 30 10 470 80 20 1420 10 Initial Q (Qb), veh 0 0 0 0 0 0 0 0 0 0 0 0 Ped-Bike Adj(A_pbT) 1.00 1.00 1.00 1.00 1.00 0.99 1.00 0.97 Parking Bus, Adj 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 Work Zone On Approach No No No No Adj Sat Flow, veh/h/ln 1870 1856 1856 1870 1870 1870 1870 1856 1856 1856 1856 1870 Adj Flow Rate, veh/h 16 16 48 123 0 41 11 511 87 22 1543 11 0.73 0.73 0.92 0.92 Peak Hour Factor 0.62 0.62 0.62 0.73 0.92 0.92 0.92 0.92 Percent Heavy Veh, % 2 2 2 2 2 2 3 3 3 3 3 3 58 164 0 250 17 2352 197 2722 Cap, veh/h 19 19 1044 1181 0.00 Arrive On Green 0.05 0.06 0.06 0.06 0.05 0.02 1.00 1.00 0.11 0.77 0.77 Sat Flow, veh/h 335 335 1004 3563 0 1585 1767 3526 1564 1767 3526 1529 Grp Volume(v), veh/h 80 0 0 123 0 41 11 511 87 22 1543 11 Grp Sat Flow(s),veh/h/ln1673 1781 1585 1767 1763 1564 1767 1763 1529 0 0 0 Q Serve(g s), s 8.5 0.0 0.0 6.1 0.0 0.0 1.1 0.0 0.0 2.0 31.9 0.3 Cycle Q Clear(g_c), s 0.0 0.0 0.3 8.5 0.0 0.0 6.1 0.0 1.1 0.0 2.0 31.9 Prop In Lane 0.20 0.60 1.00 1.00 1.00 1.00 1.00 1.00 2352 197 Lane Grp Cap(c), veh/h 97 0 0 164 0 250 17 1044 2722 1181 V/C Ratio(X) 0.83 0.00 0.00 0.75 0.00 0.16 0.22 0.08 0.01 0.66 0.11 0.57 Avail Cap(c a), veh/h 150 0 0 317 0 318 75 2352 1044 197 2722 1181 1.00 HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 2.00 2.00 2.00 1.00 1.00 1.00 Upstream Filter(I) 1.00 0.00 0.00 0.88 0.00 0.88 0.91 0.91 0.91 1.00 1.00 1.00 Uniform Delay (d), s/veh 83.9 0.0 0.0 84.8 0.0 65.5 88.0 0.0 0.0 71.9 8.3 4.7 Incr Delay (d2), s/veh 0.0 0.0 2.3 0.0 14.2 0.2 0.9 0.0 11.2 0.1 0.1 0.1 Initial Q Delay(d3),s/veh 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 %ile BackOfQ(50%),veh/In4.0 0.0 0.0 2.9 0.0 1.7 0.6 0.1 0.0 0.9 10.8 0.1 Unsig. Movement Delay, s/veh 0.0 87.1 0.0 0.2 4.7 LnGrp Delay(d),s/veh 95.1 0.0 65.6 102.2 0.1 72.0 9.2 LnGrp LOS F Е А Е F А А А F А А А 80 609 1576 Approach Vol, veh/h 164 Approach Delay, s/veh 95.1 81.7 2.0 10.0 Approach LOS F F А В Timer - Assigned Phs 2 4 5 8 6 Phs Duration (G+Y+Rc). 26.4 125.0 15.3 6.1 145.3 13.3 Change Period (Y+Rc), s 6.3 * 4.9 4.9 4.4 6.3 5.0 Max Green Setting (Gmax 8.6* 1.2E2 16.1 7.6 119.7 16.0 Max Q Clear Time (g_c+I14,0s 2.0 10.5 3.1 33.9 8.1 Green Ext Time (p_c), s 0.0 7.1 0.1 0.0 9.0 0.2 Intersection Summary HCM 6th Ctrl Delay 15.7 HCM 6th LOS В

### Notes

User approved volume balancing among the lanes for turning movement.

	۶	-	7	1	+	*	1	Ť	1	4	ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	٦	4	1	٦	<b>≜</b> †₽		<u>ሕ</u> ካ	<b>≜</b> †₽		5	<b>†</b> †	1	
Traffic Volume (veh/h)	180	50	480	50	50	40	280	360	30	70	1200	270	
Future Volume (veh/h)	180	50	480	50	50	40	280	360	30	70	1200	270	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	0.99		0.96	1.00		0.99	1.00		1.00	1.00		0.98	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No			No			No			No		
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1563	1856	1856	1856	1856	1856	
Adj Flow Rate, veh/h	225	0	641	55	55	44	304	391	33	76	1304	293	
Peak Hour Factor	0.80	0.80	0.80	0.91	0.91	0.91	0.92	0.92	0.92	0.92	0.92	0.92	
Percent Heavy Veh, %	2	2	2	2	2	2	3	3	3	3	3	3	
Cap, veh/h	300	0	690	218	446	320	603	1852	156	227	1706	749	
Arrive On Green	0.23	0.00	0.23	0.23	0.23	0.23	0.42	1.00	1.00	0.26	0.97	0.97	
Sat Flow, veh/h	1287	0.00	3043	785	1968	1410	2887	3291	276	1767	3526	1548	
Grp Volume(v), veh/h	225	0	641	55	49	50	304	209	215	76	1304	293	
Grp Sat Flow(s), veh/h/l		0	1522	785	1777	1601	1444	1763	1805	1767	1763	1548	
Q Serve(g_s), s	30.4	0.0	37.1	10.5	3.9	4.5	14.0	0.0	0.0	6.3	8.2	1.8	
Cycle Q Clear(g_c), s	34.9	0.0	37.1	10.5	3.9	4.5	14.0	0.0	0.0	6.3	8.2	1.8	
Prop In Lane	1.00	0.0	1.00	1.00	5.9	0.88	14.0	0.0	0.0	1.00	0.2	1.00	
Lane Grp Cap(c), veh/h		0	690	218	403	363	603	992	1016	227	1706	749	
V/C Ratio(X)	0.75	0.00	0.93	0.25	0.12	0.14	0.50	0.21	0.21	0.34	0.76	0.39	
. ,	352	0.00	813	250	475	428	603	992	1016	227	1706	749	
Avail Cap(c_a), veh/h HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	420	2.00	2.00	2.00	2.00	2.00	2.00	
	1.00	0.00		1.00	1.00	1.00	2.00	2.00	2.00	2.00	2.00	2.00	
Upstream Filter(I)			1.00 68.2		55.4	55.6						1.5	
Uniform Delay (d), s/vel		0.0		57.9			45.5	0.0	0.0	60.7	1.6		
Incr Delay (d2), s/veh	5.8	0.0	14.4	0.2	0.0	0.1	0.2	0.3	0.3	0.3	2.7	1.2	
Initial Q Delay(d3),s/vel		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),vel		0.0	16.0	2.1	1.8	1.9	4.4	0.1	0.1	2.7	1.6	0.7	
Unsig. Movement Delay			00.0	<b>FO 4</b>	<b>FF A</b>	<b>FFO</b>	45 7	0.0	0.0	<u> </u>	4.0	0.0	
LnGrp Delay(d),s/veh	75.3	0.0	82.6	58.1	55.4	55.6	45.7	0.3	0.3	60.9	4.3	2.8	
LnGrp LOS	E	<u>A</u>	F	E	<u> </u>	E	D	A	A	E	A	A	
Approach Vol, veh/h		866			154			728			1673		
Approach Delay, s/veh		80.7			56.4			19.3			6.6		
Approach LOS		F			E			В			А		
Timer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Rc)				45.7	42.0	92.3		45.7					
Change Period (Y+Rc),		5.5		4.9	4.4	5.2		4.9					
Max Green Setting (Grr				48.1	30.3	87.1		48.1					
Max Q Clear Time (g_c		2.0		39.1	16.0	10.2		12.5					
Green Ext Time (p_c), s	s 0.0	5.0		1.7	0.5	34.6		0.7					
Intersection Summary													
HCM 6th Ctrl Delay			30.3										
HCM 6th LOS			С										
Notes													
User approved volume	halanci	ing amo	na the	lanes fo	r turnir	na move	ment						

User approved volume balancing among the lanes for turning movement. User approved ignoring U-Turning movement.

	۶	<b>→</b>	7	-	+	*	1	t	1	4	ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	5	ţ,		ኘኘ	<b>†</b>	1	à	<b>^</b>	1	à	<b>^</b>	1	
Traffic Volume (veh/h)	140	190	300	310	340	100	290	320	160	120	880	210	
Future Volume (veh/h)	140	190	300	310	340	100	290	320	160	120	880	210	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		0.95	1.00		0.95	1.00		0.97	1.00		0.96	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No			No			No			No		
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1563	1856	1856	1856	1856	1856	
Adj Flow Rate, veh/h	159	216	341	330	362	106	315	348	174	125	917	219	
Peak Hour Factor	0.88	0.88	0.88	0.94	0.94	0.94	0.92	0.92	0.92	0.96	0.96	0.96	
Percent Heavy Veh, %	2	2	2	2	2	2	3	3	3	3	3	3	
Cap, veh/h	177	186	294	324	546	440	348	1353	588	208	952	408	
Arrive On Green	0.10	0.29	0.29	0.09	0.29	0.29	0.16	0.26	0.26	0.08	0.18	0.18	
Sat Flow, veh/h	1781	631	996	3456	1870	1505	1488	3526	1532	1767	3526	1512	
Grp Volume(v), veh/h	159	0	557	330	362	106	315	348	174	125	917	219	
Grp Sat Flow(s),veh/h/l		0	1627	1728	1870	1505	1488	1763	1532	1767	1763	1512	
Q Serve(g_s), s	15.9	0.0	53.1	16.9	30.6	7.3	37.4	14.1	16.4	12.3	46.4	18.7	
Cycle Q Clear(g_c), s	15.9	0.0	53.1	16.9	30.6	7.3	37.4	14.1	16.4	12.3	46.4	18.7	
Prop In Lane	1.00	•	0.61	1.00	= 10	1.00	1.00	1050	1.00	1.00	0.50	1.00	
Lane Grp Cap(c), veh/h		0	480	324	546	440	348	1353	588	208	952	408	
V/C Ratio(X)	0.90	0.00	1.16	1.02	0.66	0.24	0.91	0.26	0.30	0.60	0.96	0.54	
Avail Cap(c_a), veh/h	204	0	480	324	546	440	353	1353	588	214	952	408	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	0.67	0.67	0.67	0.67	0.67	0.67	
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00	0.94	0.94	0.94	0.17	0.17	0.17	
Uniform Delay (d), s/ve		0.0	63.5	81.6	55.9	28.0	73.9	46.4	47.3	78.8	72.8	39.8	
Incr Delay (d2), s/veh	31.2	0.0	93.1	54.4	4.6	0.8	23.8	0.4	1.2	0.5	6.2	0.9	
Initial Q Delay(d3),s/vel	h 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),vel	h/In8.9	0.0	34.4	10.0	15.2	2.8	17.0	6.6	6.8	5.8	22.3	7.5	
Unsig. Movement Delay	y, s/veh												
LnGrp Delay(d),s/veh	111.3	0.0	156.6	135.9	60.5	28.8	97.8	46.9	48.5	79.3	79.0	40.7	
LnGrp LOS	F	А	F	F	Е	С	F	D	D	E	E	D	
Approach Vol, veh/h		716			798			837			1261		
Approach Delay, s/veh		146.5			87.5			66.4			72.4		
Approach LOS		F			F			E			E		
	4	•	2	4	-	0	7						
Timer - Assigned Phs		2	3	4	5	6	7	8					
Phs Duration (G+Y+Rc		74.5	21.9	58.0	46.5	53.6	22.3	57.6					
Change Period (Y+Rc),		5.4	5.0	* 4.9	4.4	5.0	4.4	5.0					
Max Green Setting (Gr		69.1	16.9	* 53	42.7	48.6	20.6	49.3					
Max Q Clear Time (g_c		18.4	18.9	55.1	39.4	48.4	17.9	32.6					
Green Ext Time (p_c), s	s 0.1	4.5	0.0	0.0	0.2	0.1	0.1	4.8					
Intersection Summary													
HCM 6th Ctrl Delay			89.0										
HCM 6th LOS			F										
Notes													

## < < 1 > > +

	· •		10.00			•
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	٦	1	<b>^</b>	1	3	<b>^</b>
Traffic Volume (veh/h)	30	20	700	250	180	1300
Future Volume (veh/h)	30	20	700	250	180	1300
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		0.97	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approac			No			No
Adj Sat Flow, veh/h/ln	1870	1870	1856	1781	1856	1856
Adj Flow Rate, veh/h	43	29	761	272	196	1413
Peak Hour Factor	0.70	0.70	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	3	3	3	3
Cap, veh/h	61	55	1761	728	677	3212
Arrive On Green	0.03	0.03	0.66	0.66	0.77	1.00
Sat Flow, veh/h	1781	1585	3618	1458	1767	3618
		29				1413
Grp Volume(v), veh/h	43		761	272	196	
Grp Sat Flow(s),veh/h/lr		1585	1763	1458	1767	1763
Q Serve(g_s), s	4.3	3.2	18.3	15.0	6.0	0.0
Cycle Q Clear(g_c), s	4.3	3.2	18.3	15.0	6.0	0.0
Prop In Lane	1.00	1.00		1.00	1.00	
Lane Grp Cap(c), veh/h		55	1761	728	677	3212
V/C Ratio(X)	0.70	0.53	0.43	0.37	0.29	0.44
Avail Cap(c_a), veh/h	278	247	1761	728	677	3212
HCM Platoon Ratio	1.00	1.00	1.33	1.33	2.00	2.00
Upstream Filter(I)	1.00	1.00	0.83	0.83	0.13	0.13
Uniform Delay (d), s/vel	h 86.0	85.5	18.2	17.6	13.7	0.0
Incr Delay (d2), s/veh	5.3	2.9	0.6	1.2	0.0	0.1
Initial Q Delay(d3),s/veh	n 0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh		1.4	6.7	4.8	2.1	0.0
Unsig. Movement Delay						
LnGrp Delay(d),s/veh	91.3	. 88.4	18.8	18.9	13.7	0.1
LnGrp LOS	F	F	B	B	B	A
Approach Vol, veh/h	72		1033			1609
Approach Delay, s/veh			18.8			1.7
Approach LOS	90.1 F		10.0 B			1.7 A
Approach LUS	Г		В			A
Timer - Assigned Phs	1	2				6
Phs Duration (G+Y+Rc)		95.0				168.9
Change Period (Y+Rc),		* 5.1				4.9
Max Green Setting (Gm		* 90				142.1
Max Q Clear Time (g_c						2.0
Green Ext Time (p_c), s		8.8				27.0
·····	0.0	0.0				27.0
Intersection Summary						
HCM 6th Ctrl Delay			10.6			
HCM 6th LOS			В			
Notes						

Notes

User approved ignoring U-Turning movement.

	۶	<b>→</b>	7	-	+	•	1	t	1	1	Ļ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	7	Þ	1	٦	f.	1	1	- 11	1	3	<b>≜</b> †₽		
Traffic Volume (veh/h)	180	120	350	30	180	180	250	540	20	150	940	240	
Future Volume (veh/h)	180	120	350	30	180	180	250	540	20	150	940	240	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		0.93	1.00		0.88	1.00		0.94	1.00		0.93	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac	ch	No			No			No			No		
Adj Sat Flow, veh/h/ln	1870	1870	1796	1870	1870	1796	1856	1856	1781	1563	1856	1856	
Adj Flow Rate, veh/h	220	357	286	34	207	207	269	581	22	161	1011	258	
Peak Hour Factor	0.82	0.82	0.82	0.87	0.87	0.87	0.93	0.93	0.93	0.93	0.93	0.93	
Percent Heavy Veh, %	2	2	2	2	2	2	3	3	3	3	3	3	
Cap, veh/h	238	519	391	44	310	221	360	1674	674	177	1053	267	
Arrive On Green	0.13	0.28	0.28	0.02	0.17	0.17	0.41	0.95	0.95	0.08	0.26	0.26	
Sat Flow, veh/h	1781	1870	1409	1781	1870	1338	1767	3526	1420	1488	2736	694	
Grp Volume(v), veh/h	220	357	286	34	207	207	269	581	22	161	649	620	
Grp Sat Flow(s), veh/h/l		1870	1409	1781	1870	1338	1767	1763	1420	1488	1763	1667	
Q Serve(g_s), s	22.0	30.7	21.3	3.4	18.7	21.9	23.4	2.2	0.1	19.3	65.3	66.1	
Cycle Q Clear(g_c), s	22.0	30.7	21.3	3.4	18.7	21.9	23.4	2.2	0.1	19.3	65.3	66.1	
Prop In Lane	1.00	00.7	1.00	1.00	10.7	1.00	1.00	2.2	1.00	1.00	00.0	0.42	
Lane Grp Cap(c), veh/h		519	391	44	310	221	360	1674	674	177	679	642	
V/C Ratio(X)	0.92	0.69	0.73	0.78	0.67	0.93	0.75	0.35	0.03	0.91	0.96	0.97	
Avail Cap(c_a), veh/h	275	597	450	46	356	255	360	1674	674	261	682	645	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00	0.67	0.67	0.67	
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	0.44	0.44	0.44	0.89	0.89	0.89	
Uniform Delay (d), s/ve		58.1	24.3	87.3	70.5	46.9	49.4	2.4	2.4	81.8	65.3	65.6	
	30.4	3.4	6.1	50.6	4.3	37.1	49.4 3.4	0.3	0.0	18.2	23.6	26.1	
Incr Delay (d2), s/veh Initial Q Delay(d3),s/vel		0.0	0.0	0.0	4.3 0.0	0.0	0.0	0.0	0.0	0.0	23.0	0.0	
%ile BackOfQ(50%),ve		15.3	8.0	2.2	9.5	9.8	9.2	0.0	0.0	8.5	34.5	33.5	
. ,			0.0	2.2	9.0	9.0	9.2	0.7	0.1	0.0	54.5	55.5	
Unsig. Movement Delay LnGrp Delay(d),s/veh			30.4	137.9	74.8	84.0	52.9	2.7	2.4	100.0	88.9	91.8	
• • • • • •	107.4 F	61.5	30.4 C										
LnGrp LOS	Г	E	U	F	E	F	D	A	A	F	F	F	
Approach Vol, veh/h		863			448			872			1430		
Approach Delay, s/veh		62.9			83.8			18.2			91.4		
Approach LOS		E			F			В			F		
Timer - Assigned Phs	1	2	3	4	5	6	7	8					
Phs Duration (G+Y+Rc		90.5	8.8	54.9	41.6	74.7	29.0	34.7					
Change Period (Y+Rc),		5.0	4.4	4.9	5.0	* 5.4	4.9	* 4.9					
Max Green Setting (Gn	na <b>3()</b> ,.6	67.6	4.6	57.5	29.2	* 70	27.8	* 34					
Max Q Clear Time (g_c	;+121),3s	4.2	5.4	32.7	25.4	68.1	24.0	23.9					
Green Ext Time (p_c),	s 0.1	7.4	0.0	5.6	0.2	1.2	0.1	1.8					
Intersection Summary													
HCM 6th Ctrl Delay			66.0										
HCM 6th LOS			Е										
			-										

User approved volume balancing among the lanes for turning movement.

User approved ignoring U-Turning movement.

	۶	<b>→</b>	7	-	+	*	1	t	1	4	ŧ	1	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ካካ	<b>≜</b> †}		ኘኘ	<b>≜</b> †₽		ኘኘ	<b>^</b>	1	ኘካ	<b>†</b> †	1	
Traffic Volume (veh/h)	250	760	30	540	1330	130	40	470	180	300	880	470	
Future Volume (veh/h)	250	760	30	540	1330	130	40	470	180	300	880	470	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	-	0.99	1.00		1.00	1.00		0.96	1.00	-	0.96	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No			No			No			No		
Adj Sat Flow, veh/h/ln	1885	1885	1885	1885	1885	1885	1856	1856	1856	1563	1856	1856	
Adj Flow Rate, veh/h	368	1118	44	587	1446	141	43	511	196	323	946	505	
Peak Hour Factor	0.68	0.68	0.68	0.92	0.92	0.92	0.92	0.92	0.92	0.93	0.93	0.93	
Percent Heavy Veh, %	1	1	1	1	1	1	3	3	3	3	3	3	
Cap, veh/h	389	1181	46	824	1520	147	105	697	297	354	1007	607	
Arrive On Green	0.11	0.34	0.34	0.24	0.46	0.46	0.02	0.13	0.13	0.08	0.19	0.19	
Sat Flow, veh/h	3483	3512	138	3483	3298	319	3428	3526	1502	2887	3526	1509	
Grp Volume(v), veh/h	368	570	592	587	781	806	43	511	196	323	946	505	
Grp Sat Flow(s), veh/h/l		1791	1859	1742	1791	1826	1714	1763	1502	1444	1763	1509	
Q Serve(g_s), s	18.9	55.8	55.8	27.9	75.0	76.7	2.2	25.1	14.2	20.0	47.6	43.0	
Cycle Q Clear(g_c), s	18.9	55.8	55.8	27.9	75.0	76.7	2.2	25.1	14.2	20.0	47.6	43.0	
Prop In Lane	1.00	00.0	0.07	1.00	10.0	0.17	1.00	20.1	1.00	1.00	47.0	1.00	
Lane Grp Cap(c), veh/h		602	625	824	826	842	105	697	297	354	1007	607	
V/C Ratio(X)	0.95	0.95	0.95	0.71	0.95	0.96	0.41	0.73	0.66	0.91	0.94	0.83	
Avail Cap(c_a), veh/h	389	618	641	824	836	852	105	697	297	379	1007	607	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	0.67	0.67	0.67	0.67	0.67	0.67	
Upstream Filter(I)	1.00	1.00	1.00	0.09	0.09	0.09	0.96	0.96	0.96	0.42	0.42	0.42	
Uniform Delay (d), s/ve		58.2	58.2	63.1	46.3	46.8	86.6	73.5	29.3	81.6	71.3	36.8	
Incr Delay (d2), s/veh	32.1	23.5	23.0	0.3	2.8	3.4	0.9	6.4	10.6	12.2	8.8	5.8	
Initial Q Delay(d3),s/vel		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),vel		29.3	30.3	12.4	33.7	35.2	1.0	12.3	6.4	8.2	23.2	17.6	
Unsig. Movement Delay			00.0		00.1	00.2			0.1	0.2	20.2		
LnGrp Delay(d),s/veh		81.6	81.2	63.4	49.1	50.2	87.5	80.0	39.9	93.9	80.1	42.5	
LnGrp LOS	F	F	F	E	D	D	F	E	D	F	F	. <u></u> 0	
Approach Vol, veh/h	· ·	1530			2174			750			1774		
Approach Delay, s/veh		88.6			53.4			69.9			71.9		
Approach LOS		F			D			E			E		
Timer - Assigned Phs	1	2	3	4	5	6	7	8					
v	) 96 5	40.5											
Phs Duration (G+Y+Rc Change Derived (X+Re)			47.6	65.4	10.4	56.6 * 5 2	25.0	88.0					
Change Period (Y+Rc),		4.9	5.0	4.9	4.9	* 5.2	4.9	5.0					
Max Green Setting (Gr		33.1	42.0	62.1	5.0	* 51	20.1	84.0					
Max Q Clear Time (g_c		27.1	29.9	57.8	4.2	49.6	20.9	78.7					
Green Ext Time (p_c),	5 0.1	2.9	2.1	2.7	0.0	1.6	0.0	4.3					
Intersection Summary													
HCM 6th Ctrl Delay			69.3										
HCM 6th LOS			E										
Notes													

	٠	-	7	-	+	*	1	1	1	4	ŧ	1	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	٦	<b>†</b> †	1	A	<b>≜</b> t}			र्भ	1	٦	4		
Traffic Volume (veh/h)	10	970	10	530	1950	730	10	10	540	730	10	10	
Future Volume (veh/h)	10	970	10	530	1950	730	10	10	540	730	10	10	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	U	0.98	1.00	Ū	0.98	0.99	Ū	0.98	1.00	U	0.98	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No	1.00	1.00	No	1.00	1.00	No	1.00	1.00	No	1.00	
Adj Sat Flow, veh/h/ln	1885	1885	1810	1885	1885	1885	1870	1870	1796	1870	1870	1870	
Adj Flow Rate, veh/h	11	1100	11	589	2167	811	14	14	771	811	1070	11	
Peak Hour Factor	0.88	0.88	0.88	0.90	0.90	0.90	0.70	0.70	0.70	0.90	0.90	0.90	
Percent Heavy Veh, %	0.00	0.00	0.00	0.90	0.90	0.50	0.70	2	2	0.90	0.30	0.90	
Cap, veh/h	18	1329	556	411	1526	532	271	258	454	257	259	259	
Arrive On Green		0.37	0.37	0.23	0.59	0.59	0.30	0.30	454 0.30	0.30	0.30	0.30	
	0.01												
Sat Flow, veh/h	1795	3582	1497	1795	2587	902	754	847	1489	687	848	848	
Grp Volume(v), veh/h	11	1102	11	589	1451	1527	28	0	771	811	0	22	
Grp Sat Flow(s),veh/h/li		1791	1497	1795	1791	1698	1601	0	1489	687	0	1696	
Q Serve(g_s), s	0.8	36.7	0.6	30.0	77.4	77.4	0.0	0.0	40.0	38.6	0.0	1.2	
Cycle Q Clear(g_c), s	0.8	36.7	0.6	30.0	77.4	77.4	1.4	0.0	40.0	40.0	0.0	1.2	
Prop In Lane	1.00		1.00	1.00		0.53	0.50		1.00	1.00		0.50	
Lane Grp Cap(c), veh/h		1329	556	411	1056	1001	529	0	454	257	0	517	
V/C Ratio(X)	0.61	0.83	0.02	1.43	1.37	1.53	0.05	0.00	1.70	3.15	0.00	0.04	
Avail Cap(c_a), veh/h	411	1638	685	411	1056	1001	529	0	454	257	0	517	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00	
Uniform Delay (d), s/vel	h 64.7	37.5	26.1	50.6	26.9	26.9	32.2	0.0	45.6	50.4	0.0	32.1	
Incr Delay (d2), s/veh	11.6	3.3	0.0	209.1	174.2	241.4	0.0	0.0	323.5	979.1	0.0	0.0	
Initial Q Delay(d3),s/veh	n 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),vel	h/ln0.4	16.4	0.2	37.1	81.6	96.1	0.6	0.0	55.6	78.6	0.0	0.5	
Unsig. Movement Delay													
LnGrp Delay(d),s/veh	76.3	40.8	26.2	259.7	201.1	268.4	32.2	0.0	369.1	1029.5	0.0	32.1	
LnGrp LOS	Е	D	С	F	F	F	С	А	F	F	А	С	
Approach Vol, veh/h		1124			3567			799			833		
Approach Delay, s/veh		41.0			239.6			357.3			003.1		
Approach LOS		D			F			F			F		
Timer - Assigned Phs	1	2		4	5	6		8			-		
V	340												
Phs Duration (G+Y+Rc)		53.2		44.0	5.3	81.9		44.0					
Change Period (Y+Rc),		4.5		4.0	4.0	4.5		4.0					
Max Green Setting (Gm		60.0		40.0	30.0	60.0		40.0					
Max Q Clear Time (g_c		38.7		42.0	2.8	79.4		42.0					
Green Ext Time (p_c), s	s 0.0	10.0		0.0	0.0	0.0		0.0					
Intersection Summary													
HCM 6th Ctrl Delay			319.7										
HCM 6th LOS			F										

User approved ignoring U-Turning movement.

	۶	-	7	-	+	•	1	t	1	4	Ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ኘኘ	1	1	7	ţ,	1	ሻሻ	<b>^</b>	1	٦	<b>≜</b> î⊧		
Traffic Volume (veh/h)	70	60	330	300	200	120	570	520	20	30	1290	110	
Future Volume (veh/h)	70	60	330	300	200	120	570	520	20	30	1290	110	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.97	1.00		0.98	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac	ch	No			No			No			No		
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1856	1856	1856	1856	1856	1856	
Adj Flow Rate, veh/h	83	71	393	380	253	152	582	531	20	32	1372	117	
Peak Hour Factor	0.84	0.84	0.84	0.79	0.79	0.79	0.98	0.98	0.98	0.94	0.94	0.94	
Percent Heavy Veh, %	2	2	2	2	2	2	3	3	3	3	3	3	
Cap, veh/h	119	172	501	341	466	394	769	2074	901	41	1260	107	
Arrive On Green	0.03	0.09	0.09	0.19	0.25	0.25	0.22	0.59	0.59	0.05	0.77	0.77	
Sat Flow, veh/h	3456	1870	1580	1781	1870	1583	3428	3526	1531	1767	3282	279	
Grp Volume(v), veh/h	83	71	393	380	253	152	582	531	20	32	734	755	
Grp Sat Flow(s), veh/h/l		1870	1580	1781	1870	1583	1714	1763	1531	1767	1763	1798	
Q Serve(g_s), s	4.3	6.5	12.9	34.5	21.1	14.4	28.5	13.1	1.0	3.2	69.1	69.1	
Cycle Q Clear(g_c), s	4.3	6.5	12.9	34.5	21.1	14.4	28.5	13.1	1.0	3.2	69.1	69.1	
Prop In Lane	1.00	0.0	1.00	1.00		1.00	1.00		1.00	1.00		0.15	
Lane Grp Cap(c), veh/h		172	501	341	466	394	769	2074	901	41	677	690	
V/C Ratio(X)	0.70	0.41	0.79	1.11	0.54	0.39	0.76	0.26	0.02	0.78	1.08	1.09	
Avail Cap(c_a), veh/h	167	312	619	341	580	491	769	2074	901	87	677	690	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00	
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	0.98	0.98	0.98	0.44	0.44	0.44	
Uniform Delay (d), s/ve		77.2	25.9	72.8	58.7	56.2	65.2	18.0	15.4	85.4	20.9	20.9	
Incr Delay (d2), s/veh	7.1	0.6	4.1	82.8	0.4	0.2	3.8	0.3	0.0	5.2	49.5	53.0	
Initial Q Delay(d3),s/vel		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),vel		3.2	9.9	23.8	10.3	5.9	12.8	5.5	0.4	1.5	23.7	24.8	
Unsig. Movement Dela													
LnGrp Delay(d),s/veh	93.0	77.8	30.0	155.5	59.1	56.4	69.0	18.2	15.5	90.6	70.4	73.9	
LnGrp LOS	F	E	С	F	E	E	E	В	В	F	F	F	
Approach Vol, veh/h		547		· · ·	785			1133			1521		
Approach Delay, s/veh		45.8			105.2			44.3			72.6		
Approach LOS		D			F			D			E		
Timer - Assigned Phs	1	2	3	4	5	6	7	8			_		
Phs Duration (G+Y+Rc	) \$8.6		39.0	21.4	45.5	74.1	10.7	49.7					
Change Period (Y+Rc),		5.1	4.5	4.9	45.5 5.1	* 5	4.5	4.9					
Max Green Setting (Gr		87.7	34.5	30.0	27.6	* 69	8.7	55.8					
Max Q Clear Time (g_c		15.1	36.5	14.9	30.5	71.1	6.3	23.1					
Green Ext Time (p_c),		4.5	0.0	0.9	0.0	0.0	0.0	1.3					
, , , , , , , , , , , , , , , , , , ,	0.0	4.5	0.0	0.5	0.0	0.0	0.0	1.0					
Intersection Summary			<b>6</b>										
HCM 6th Ctrl Delay			67.3										
HCM 6th LOS			E										
•• •													

User approved volume balancing among the lanes for turning movement.

User approved ignoring U-Turning movement.

73: Kearny Villa Rd & Black Mountain Rd & Carroll Center Rd

timing Plan: AM Peak

	٠	<b>→</b>	7	1	+	*	1	t	1	4	ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ኘኘ	1	1	5	<b>†</b> ‡		5	<b>^</b>	1	24	<b>^</b>	1	
Traffic Volume (veh/h)	80	80	20	340	240	170	110	150	280	310	630	820	
Future Volume (veh/h)	80	80	20	340	240	170	110	150	280	310	630	820	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		0.98	1.00		1.00	1.00		0.97	1.00		0.97	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac	ch	No			No			No			No		
Adj Sat Flow, veh/h/ln	1856	1856	1856	1870	1870	1870	1870	1870	1796	1856	1856	1856	
Adj Flow Rate, veh/h	89	89	22	466	329	233	120	163	304	330	670	872	
Peak Hour Factor	0.90	0.90	0.90	0.73	0.73	0.73	0.92	0.92	0.92	0.94	0.94	0.94	

Ped-bike Adj(A_pbT)	1.00		0.90	1.00		1.00	1.00		0.97	1.00		0.97	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No			No			No			No		
Adj Sat Flow, veh/h/ln	1856	1856	1856	1870	1870	1870	1870	1870	1796	1856	1856	1856	
Adj Flow Rate, veh/h	89	89	22	466	329	233	120	163	304	330	670	872	
Peak Hour Factor	0.90	0.90	0.90	0.73	0.73	0.73	0.92	0.92	0.92	0.94	0.94	0.94	
Percent Heavy Veh, %	3	3	3	2	2	2	2	2	2	3	3	3	
Cap, veh/h	139	148	123	494	634	439	145	1012	422	357	1429	684	
Arrive On Green	0.04	0.08	0.08	0.28	0.32	0.32	0.08	0.28	0.28	0.20	0.41	0.41	
Sat Flow, veh/h	3428	1856	1543	1781	2005	1390	1781	3554	1482	1767	3526	1530	
Grp Volume(v), veh/h	89	89	22	466	291	271	120	163	304	330	670	872	
Grp Sat Flow(s),veh/h/l	n1714	1856	1543	1781	1777	1619	1781	1777	1482	1767	1763	1530	
Q Serve(g_s), s	3.3	5.9	1.7	32.8	17.1	17.6	8.5	4.4	23.6	23.5	17.9	51.9	
Cycle Q Clear(g_c), s	3.3	5.9	1.7	32.8	17.1	17.6	8.5	4.4	23.6	23.5	17.9	51.9	
Prop In Lane	1.00		1.00	1.00		0.86	1.00		1.00	1.00		1.00	
Lane Grp Cap(c), veh/h	n 139	148	123	494	562	512	145	1012	422	357	1429	684	
V/C Ratio(X)	0.64	0.60	0.18	0.94	0.52	0.53	0.83	0.16	0.72	0.92	0.47	1.27	
Avail Cap(c_a), veh/h	1650	541	450	801	562	512	319	1012	422	588	1429	684	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/ve	h 60.5	57.0	55.0	45.3	35.8	36.0	57.9	34.3	41.2	50.1	27.9	35.5	
Incr Delay (d2), s/veh	1.8	3.6	0.6	10.1	1.3	1.6	4.4	0.1	6.7	9.3	0.6	134.7	
Initial Q Delay(d3),s/vel	h 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),ve	h/In1.5	2.9	0.7	15.8	7.7	7.2	3.9	1.9	9.4	11.1	7.5	46.4	
Unsig. Movement Delay	y, s/veh												
LnGrp Delay(d),s/veh	62.3	60.5	55.6	55.4	37.1	37.6	62.3	34.4	47.8	59.4	28.5	170.2	
LnGrp LOS	Е	Е	Е	Е	D	D	Е	С	D	Е	С	F	
Approach Vol, veh/h		200			1028			587			1872		
Approach Delay, s/veh		60.8			45.5			47.1			100.0		
Approach LOS		Е			D			D			F		
Timer - Assigned Phs	1	2	3	4	5	6	7	8					
Phs Duration (G+Y+Rc	) & 0 3	42.0	39.9	15.9	14.8	57.4	9.6	46.2					
Change Period (Y+Rc)	, ·	42.0 5.5	4.4	5.7	4.4	* 5.5	4.4	* 5.7					
Max Green Setting (Gr		31.6	57.6	37.3	22.9	* 52	61.6	* 34					
Max Q Clear Time (g_c		25.6	34.8	7.9	10.5	53.9	5.3	19.6					
Green Ext Time (p_c),		25.0	0.7	0.5	0.1	0.0	0.2	4.7					
м = <i>У</i> -	5 0.4	1.7	0.7	0.0	0.1	0.0	0.2	4.7					
Intersection Summary													
HCM 6th Ctrl Delay			74.2										
HCM 6th LOS			Е										

### Notes

### Intersection

Int Delay, s/veh	260.9					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		<b>^</b>	<b>1</b>			1
Traffic Vol, veh/h	0	930	2090	170	0	180
Future Vol, veh/h	0	930	2090	170	0	180
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage	e, # -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	94	94	92	92	25	25
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	989	2272	185	0	720

Major/Minor	Major1	N	/lajor2	Minor2			
Conflicting Flow All	-	0	-	0 -	1229		
Stage 1	-	-	-		-		
Stage 2	-	-	-		-		
Critical Hdwy	-	-	-		6.94		
Critical Hdwy Stg 1	-	-	-		-		
Critical Hdwy Stg 2	-	-	-		-		
Follow-up Hdwy	-	-	-		3.32		
Pot Cap-1 Maneuver	0	-	-	- 0	~ 170		
Stage 1	0	-	-	- 0	-		
Stage 2	0	-	-	- 0	-		
Platoon blocked, %		-	-	-			
Mov Cap-1 Maneuver		-	-		~ 170		
Mov Cap-2 Maneuver	· -	-	-		-		
Stage 1	-	-	-		-		
Stage 2	-	-	-		-		
Approach	EB		WB	SB			
HCM Control Delay, s	; 0		0	\$ 1509.3			
HCM LOS				F			
Minor Lane/Major Mvi	mt	EBT	WBT	WBR SBLn1			
Capacity (veh/h)			-	- 170			
HCM Lane V/C Ratio		-	_	- 4.235			
HCM Control Delay (s	;)	_	_	\$ 1509.3			
HCM Lane LOS		-	-	- F			
HCM 95th %tile Q(veh	n)	-	-	- 72.5			
	''			72.0			
Notes							
~: Volume exceeds ca	apacity	\$: De	lay exc	ceeds 300s	+: Comp	outation Not Defined	*: All major volume in platoon

	۲	<b>→</b>	7	1	+	•	1	1	1	1	Ŧ	~
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	٦	4			4		٦	<b>†</b>	1	٦	•	1
Traffic Volume (veh/h)	90	110	270	50	30	0	410	70	100	70	260	900
Future Volume (veh/h)	90	110	270	50	30	0	410	70	100	70	260	900
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.98	1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	98	120	293	67	40	0	446	76	109	75	280	968
Peak Hour Factor	0.92	0.92	0.92	0.75	0.75	0.75	0.92	0.92	0.92	0.93	0.93	0.93
Percent Heavy Veh, %	2	2	2	2	2	2	3	3	3	3	3	3
Cap, veh/h	381	103	251	80	48	0	423	1028	851	92	681	562
Arrive On Green	0.21	0.21	0.21	0.07	0.07	0.00	0.24	0.55	0.55	0.05	0.37	0.37
Sat Flow, veh/h	1781	481	1175	1136	678	0	1767	1856	1536	1767	1856	1532
Grp Volume(v), veh/h	98	0	413	107	0	0	446	76	109	75	280	968
Grp Sat Flow(s),veh/h/ln	1781	0	1656	1814	0	0	1767	1856	1536	1767	1856	1532
Q Serve(g_s), s	8.0	0.0	37.1	10.1	0.0	0.0	41.6	3.3	5.9	7.3	19.5	63.7
Cycle Q Clear(g_c), s	8.0	0.0	37.1	10.1	0.0	0.0	41.6	3.3	5.9	7.3	19.5	63.7
Prop In Lane	1.00		0.71	0.63		0.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	381	0	354	127	0	0	423	1028	851	92	681	562
V/C Ratio(X)	0.26	0.00	1.17	0.84	0.00	0.00	1.05	0.07	0.13	0.81	0.41	1.72
Avail Cap(c_a), veh/h	381	0	354	184	0	0	423	1028	851	155	681	562
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	56.8	0.0	68.3	79.8	0.0	0.0	66.0	18.0	18.6	81.4	41.0	55.0
Incr Delay (d2), s/veh	0.1	0.0	101.8	14.5	0.0	0.0	58.6	0.0	0.1	11.7	0.3	332.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/In	3.6	0.0	25.7	5.3	0.0	0.0	25.7	1.5	2.2	3.7	9.2	76.5
Unsig. Movement Delay, s/veh		0.0	470.0	04.0	0.0	0.0	404.0	10.4	40.7	00.0	44.0	007.0
LnGrp Delay(d),s/veh	57.0	0.0	170.0	94.3	0.0	0.0	124.6	18.1	18.7	93.2	41.3	387.6
LnGrp LOS	E	<u>A</u>	F	F	<u>A</u>	A	F	B	В	F	<u>D</u>	F
Approach Vol, veh/h		511			107			631			1323	
Approach Delay, s/veh		148.4			94.3			93.5			297.7	_
Approach LOS		F			F			F			F	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	13.5	101.1		42.0	46.0	68.6		17.1				
Change Period (Y+Rc), s	4.4	4.9		4.9	4.4	4.9		4.9				
Max Green Setting (Gmax), s	15.2	90.1		37.1	41.6	63.7		17.6				
Max Q Clear Time (g_c+I1), s	9.3	7.9		39.1	43.6	65.7		12.1				
Green Ext Time (p_c), s	0.0	1.2		0.0	0.0	0.0		0.1				
Intersection Summary												
HCM 6th Ctrl Delay			209.4									
HCM 6th LOS			F									

Notes

User approved volume balancing among the lanes for turning movement.

	٠	-	7	4	-	*	1	Ť	1	1	ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		4		à	र्भ	1	à	<b>^</b>	1	à	<b>≜</b> †₽	-	
Traffic Volume (veh/h)	60	20	60	200	20	30	50	200	30	10	560	10	
Future Volume (veh/h)	60	20	60	200	20	30	50	200	30	10	560	10	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		0.84	1.00		0.83	1.00	-	0.95	1.00	-	0.87	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No			No			No			No		
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	86	29	86	236	0	33	56	225	34	12	651	12	
Peak Hour Factor	0.70	0.70	0.70	0.91	0.91	0.91	0.89	0.89	0.89	0.86	0.86	0.86	
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2	
Cap, veh/h	179	60	179	894	0	332	73	1013	427	20	909	17	
Arrive On Green	0.27	0.27	0.27	0.25	0.00	0.25	0.04	0.29	0.29	0.01	0.26	0.26	
Sat Flow, veh/h	671	226	671	3563	0.00	1322	1781	3554	1498	1781	3559	66	
Grp Volume(v), veh/h	201	0	0	236	0	33	56	225	34	12	325	338	
Grp Sat Flow(s), veh/h/lr		0	0	1781	0	1322	1781	1777	1498	1781	1777	1847	
Q Serve(g_s), s	11.3	0.0	0.0	5.6	0.0	2.0	3.3	5.1	1490	0.7	17.5	17.5	
	11.3	0.0	0.0	5.6	0.0	2.0	3.3	5.1	1.7	0.7	17.5	17.5	
Cycle Q Clear(g_c), s	0.43	0.0	0.0	1.00	0.0	1.00	3.3 1.00	J.I	1.00	1.00	17.5	0.04	
Prop In Lane		٥		894	٥	332		1013	427	20	454	472	
Lane Grp Cap(c), veh/h		0	0 0.00		0		73 0.77	0.22		0.60		47Z 0.72	
V/C Ratio(X)	0.48	0.00		0.26	0.00	0.10			0.08		0.72		
Avail Cap(c_a), veh/h	598	0	0	1357	0	503	509	2030	856	509	1015	1055	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/vel		0.0	0.0	31.6	0.0	30.2	49.9	28.7	27.5	51.7	35.6	35.6	
Incr Delay (d2), s/veh	0.9	0.0	0.0	0.1	0.0	0.0	6.3	0.2	0.1	10.2	3.5	3.3	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh		0.0	0.0	2.4	0.0	0.6	1.6	2.1	0.6	0.4	7.7	8.0	
Unsig. Movement Delay			0.0	24.0	0.0	20.0	50.0	00.0	07.0	64.0	20.4	20.0	
LnGrp Delay(d),s/veh	33.2	0.0	0.0	31.6	0.0	30.3	56.2	28.8	27.6	61.9	39.1	39.0	
LnGrp LOS	С	A	A	С	<u>A</u>	С	E	C	С	E	D	D	
Approach Vol, veh/h		201			269			315			675		
Approach Delay, s/veh		33.2			31.4			33.6			39.4		
Approach LOS		С			С			С			D		
Timer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Rc)	), s5.6	35.2		32.9	8.7	32.1		31.3					
Change Period (Y+Rc),	s 4.4	5.3		4.9	4.4	5.3		4.9					
Max Green Setting (Gm	na <b>310</b> ,.0	60.0		40.0	30.0	60.0		40.0					
Max Q Clear Time (g_c	+112),75	7.1		13.3	5.3	19.5		7.6					
Green Ext Time (p_c), s		2.6		1.3	0.1	7.3		0.5					
Intersection Summary													
HCM 6th Ctrl Delay			35.8										
HCM 6th LOS			D										

User approved volume balancing among the lanes for turning movement. User approved ignoring U-Turning movement.

Movement         EBL         EBR         WBL         WBL         WBL         NBT         NBT         NBT         NBT         NBT         SBL         SBT         SBR           Lane Configurations         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A		٠	<b>→</b>	7	-	+	*	1	Ť	1	4	Ŧ	~	
Traffic Volume (veh/h)       100       0       220       0       0       140       200       0       0       750       80         Future Volume (veh/h)       100       0       220       0       0       140       200       0       0       750       80         Ped-Bike Adj(A, pbT)       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.01	Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Traffic Volume (veh/h)       100       0       220       0       0       140       200       0       0       750       80         Future Volume (veh/h)       100       0       220       0       0       140       200       0       0       750       80         Ped-Bike Adj(A, pbT)       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.01	Lane Configurations	1	4		7	4		۲	<b>≜</b> 1₀		٦	<b>≜</b> î⊧		
Initial Q (Qb), veh       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0	-			220			0	140		0			80	
Ped-Bike Adj(A_pbT)       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00	Future Volume (veh/h)	100	0	220	0	0	0	140	200	0	0	750	80	
Parking Bus, Adj       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.0	Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Work Zone On Ápproach         No         No         No         No           Adj Sat Flow, vehn/h         157         1870         1870         1870         1870         1870         1870           Adj Flow Rate, vehn/h         30         0         266         0         0         152         217         0         0         815         87           Peak Hour Factor         0.77         0.77         0.77         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92         0.92	Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.97	
Adj Sat Flow, veh/h/n       1575       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       111       133       143         Arrive On Green       0.25       0.00       0.05       1471       1870       1781       1870       1781       1870       1781       1877       1164       1281       1281         Grey Sat Flow, (eg.), s       4.6       0.0	Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Adj Flow Rate, veh/h       130       0       286       0       0       152       217       0       0       815       87         Peak Hour Factor       0.77       0.77       0.77       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92 <th0.92< th=""></th0.92<>	Work Zone On Approac	h	No			No			No			No		
Paak Hour Factor       0.77       0.77       0.77       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.9	Adj Sat Flow, veh/h/ln	1575	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	
Percent Heavy Veh, %       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2 <th2< th="">       2       <th2< th=""></th2<></th2<>	Adj Flow Rate, veh/h	130	0	286	0	0	0	152	217	0	0	815	87	
Cap, veh/h       377       0       397       3       3       0       194       2085       0       111       1343       143         Arrive On Green       0.25       0.00       0.25       0.00       0.00       0.11       0.59       0.00       0.00       0.42       0.42         Sat Flow, veh/h       1500       0       1581       1781       1870       0       1781       3647       0       164       3228       345         Grp Volume(v), veh/h       130       0       286       0       0       152       217       0       0       449       453         Grp Sat Flow(s), veh/h/1n1500       0       1581       1781       1870       0       1781       1777       0       1164       1777       1796         Q Serve(g_s), s       4.6       0.0       10.7       0.0       0.0       5.4       1.7       0.0       0.0       1.28       12.8         Cycle Q Clear(g_c), s 4.6       0.0       10.0       1.00       0.00       0.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00	Peak Hour Factor	0.77	0.77	0.77	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	
Arrive On Green       0.25       0.00       0.25       0.00       0.00       0.11       0.59       0.00       0.00       0.42       0.42         Sat Flow, veh/h       1500       0       1581       1781       1870       0       1781       3647       0       1164       3228       345         Grp Volume(v), veh/h       130       0       286       0       0       0       152       217       0       0       449       453         Grp Sat Flow(s), veh/h/101500       0       1881       1781       1870       0       1781       1777       0       1164       1777       1796         Q Serve(g_s), s       4.6       0.0       10.7       0.0       0.0       5.4       1.7       0.0       0.0       1.28       12.8         Cycle Q Clear(g_c), s       4.6       0.0       10.7       0.0       0.0       0.00       1.00       0.00       1.00       1.00       1.00       1.00       1.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00	Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2	2	2	
Sat Flow, veh/h       1500       0       1581       1781       1870       0       1781       3647       0       1164       3228       345         Grp Volume(v), veh/h       130       0       286       0       0       152       217       0       0       449       453         Grp Sat Flow(s), veh/h/h/n1500       0       1581       1781       1870       0       1781       1777       0       1164       1777       1786         Q Serve(g_s), s       4.6       0.0       10.7       0.0       0.0       0.54       1.7       0.0       0.0       12.8       12.8         Cycle Q Clearg(g_c), s       4.6       0.0       1.00       0.00       1.00       0.00       1.00       0.00       1.00       0.00       1.00       0.00       0.00       0.00       0.00       0.00       0.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00 </td <td>Cap, veh/h</td> <td>377</td> <td>0</td> <td>397</td> <td>3</td> <td>3</td> <td>0</td> <td>194</td> <td>2085</td> <td>0</td> <td>111</td> <td>1343</td> <td>143</td> <td></td>	Cap, veh/h	377	0	397	3	3	0	194	2085	0	111	1343	143	
Grp Volume(v), veh/h       130       0       286       0       0       152       217       0       0       449       453         Grp Sat Flow(s), veh/h/ln1500       0       1581       1781       1870       0       1781       1777       0       1164       1777       1796         Q Serve(g_s), s       4.6       0.0       10.7       0.0       0.0       5.4       1.7       0.0       0.0       12.8       12.8         Cycle Q Clear(g_c), s       4.6       0.0       1.00       1.00       0.00       0.00       1.00       0.00       1.00       0.00       0.00       1.00       0.00       0.00       1.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       1.00       1.00       1.00       1.00       1.00	Arrive On Green	0.25	0.00	0.25	0.00	0.00	0.00	0.11	0.59	0.00	0.00	0.42	0.42	
Grp Sat Flow(s),veh/h/ln1500       0       1581       1781       1870       0       1781       1777       0       1164       1777       1796         Q Serve(g_s), s       4.6       0.0       10.7       0.0       0.0       5.4       1.7       0.0       0.0       12.8       12.8         Cycle Q Clear(g_c), s       4.6       0.0       1.07       0.0       0.0       5.4       1.7       0.0       0.0       12.8       12.8         Prop In Lane       1.00       1.00       1.00       0.00       1.00       0.00       1.00       0.00       0.111       739         V/C Ratio(X)       0.35       0.00       0.72       0.00       0.00       0.07       0.00       0.00       0.00       0.00       0.01       0.01       0.01       0.01       0.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00	Sat Flow, veh/h	1500	0	1581	1781	1870	0	1781	3647	0	1164	3228	345	
Grp Sat Flow(s),veh/h/ln1500       0       1581       1781       1870       0       1781       1777       0       1164       1777       1796         Q Serve(g_s), s       4.6       0.0       10.7       0.0       0.0       5.4       1.7       0.0       0.0       12.8       12.8         Cycle Q Clear(g_c), s       4.6       0.0       1.07       0.0       0.0       5.4       1.7       0.0       0.0       12.8       12.8         Prop In Lane       1.00       1.00       1.00       1.00       0.00       1.00       0.00       1.01       0.0       0.19         Lane Grp Cap(c), veh/h       377       0       397       3       3       0       194       2085       0       111       739       747         V/C Ratio(X)       0.35       0.00       0.72       0.00       0.00       0.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1	Grp Volume(v), veh/h	130	0	286	0	0	0	152	217	0	0	449	453	
Q Serve(g_s), s       4.6       0.0       10.7       0.0       0.0       5.4       1.7       0.0       0.0       12.8       12.8         Cycle Q Clear(g_c), s       4.6       0.0       10.7       0.0       0.0       0.0       5.4       1.7       0.0       0.0       12.8       12.8         Prop In Lane       1.00       1.00       1.00       0.00       0.00       1.00       0.00       1.00       0.00       1.00       0.00       1.00       0.00       1.00       0.00       1.00       0.00       1.01       0.00       0.00       0.01       1.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00 <t< td=""><td></td><td>n1500</td><td>0</td><td>1581</td><td>1781</td><td>1870</td><td>0</td><td>1781</td><td>1777</td><td>0</td><td>1164</td><td>1777</td><td>1796</td><td></td></t<>		n1500	0	1581	1781	1870	0	1781	1777	0	1164	1777	1796	
Cycle Q Člear(g_c), s       4.6       0.0       10.7       0.0       0.0       5.4       1.7       0.0       0.0       12.8       12.8         Prop In Lane       1.00       1.00       1.00       0.00       1.00       0.00       1.00       0.00       1.00       0.00       1.00       0.00       1.00       0.00       1.00       0.00       1.00       0.00       0.10       0.00       0.19         Lane Grp Cap(c), veh/h       377       0       397       3       3       0       194       2085       0       111       739       747         V/C Ratio(X)       0.35       0.00       0.72       0.00       0.00       0.00       0.78       0.10       0.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00	:		0.0	10.7	0.0	0.0	0.0		1.7	0.0	0.0	12.8	12.8	
Prop In Lane       1.00       1.00       1.00       0.00       1.00       0.00       1.00       0.00       1.00       0.19         Lane Grp Cap(c), veh/h       377       0       397       3       3       0       194       2085       0       111       739       747         V/C Ratio(X)       0.35       0.00       0.72       0.00       0.00       0.78       0.10       0.00       0.61       0.61         Avail Cap(c_a), veh/h       1157       0       1220       495       519       0       825       5100       0       705       1645       1663         HCM Platoon Ratio       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00		4.6	0.0	10.7	0.0	0.0	0.0	5.4	1.7	0.0	0.0	12.8	12.8	
Lane Grp Cap(c), veh/h 377 0 397 3 3 0 194 2085 0 111 739 747 V/C Ratio(X) 0.35 0.00 0.72 0.00 0.00 0.00 0.78 0.10 0.00 0.00 0.61 0.61 Avail Cap(c_a), veh/h 1157 0 1220 495 519 0 825 5100 0 705 1645 1663 HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0		1.00		1.00	1.00		0.00	1.00		0.00	1.00		0.19	
V/C Ratio(X)       0.35       0.00       0.72       0.00       0.00       0.78       0.10       0.00       0.00       0.61       0.61         Avail Cap(c_a), veh/h       1157       0       1220       495       519       0       825       5100       0       705       1645       1663         HCM Platoon Ratio       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       0.00			0			3			2085			739		
Avail Cap(c_a), veh/h       1157       0       1220       495       519       0       825       5100       0       705       1645       1663         HCM Platoon Ratio       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00 <td< td=""><td></td><td></td><td>0.00</td><td>0.72</td><td>0.00</td><td>0.00</td><td>0.00</td><td></td><td>0.10</td><td>0.00</td><td>0.00</td><td>0.61</td><td>0.61</td><td></td></td<>			0.00	0.72	0.00	0.00	0.00		0.10	0.00	0.00	0.61	0.61	
HCM Platon Ratio       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.0	( )													
Upstream Filter(I)       1.00       0.00       1.00       0.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/veh 19.9       0.0       22.2       0.0       0.0       0.0       28.1       5.9       0.0       0.0       14.8       14.8         Incr Delay (d2), s/veh       0.7       0.0       3.2       0.0       0.0       0.0       2.6       0.0       0.0       0.0       1.3       1.3         Initial Q Delay(d3), s/veh       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       1		1.00	0.00	1.00	0.00	0.00	0.00	1.00	1.00	0.00	0.00	1.00	1.00	
Incr Delay (d2), s/veh       0.7       0.0       3.2       0.0       0.0       2.6       0.0       0.0       1.3       1.3         Initial Q Delay(d3),s/veh       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1														
Initial Q Delay(d3),s/veh       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.1       16.	• • •													
%ile BackOfQ(50%),veh/In1.6       0.0       4.1       0.0       0.0       2.2       0.5       0.0       0.0       4.6       4.6         Unsig. Movement Delay, s/veh       20.6       0.0       25.3       0.0       0.0       30.7       5.9       0.0       0.0       16.1       16.1         LnGrp Delay(d),s/veh       20.6       0.0       25.3       0.0       0.0       30.7       5.9       0.0       0.0       16.1       16.1         LnGrp LOS       C       A       C       A       A       C       A       A       B       B         Approach Vol, veh/h       416       0       369       902       902       4pproach LOS       C       B       B       B       B       B       E       16.1       16.1       4.6       4.6       4.6       4.6       4.6       4.6       4.6       4.6       4.6       4.6       4.6       4.6       4.6       4.6       4.6       4.6       4.6       4.6       4.6       4.6       4.6       4.6       4.6       4.6       4.6       4.6       4.6       4.6       4.6       4.6       4.6       4.6       4.6       4.6       4.6       4.6       4.6<		n 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Unsig. Movement Delay, s/veh         LnGrp Delay(d),s/veh       20.6       0.0       25.3       0.0       0.0       30.7       5.9       0.0       0.0       16.1       16.1         LnGrp LOS       C       A       C       A       A       A       B       B         Approach Vol, veh/h       416       0       369       902         Approach Delay, s/veh       23.9       0.0       16.1       16.1         Approach LOS       C       B       B       B         Timer - Assigned Phs       2       4       5       6       8         Phs Duration (G+Y+Rc), s       44.0       20.8       11.1       33.0       0.0       C         Change Period (Y+Rc), s       6.0       4.5       4.0       * 6       4.5       4.5         Max Green Setting (Gmax), s       93.0       50.0       30.0       * 60       18.0       4.5         Max Q Clear Time (p_c), s       2.3       3.3       0.2       11.0       0.0       14.8         Intersection Summary       HCM 6th Ctrl Delay       18.0       18.0       14.8       14.8       14.8       14.8       14.8       14.8       14.8       14.8       14.8			0.0	4.1	0.0	0.0	0.0	2.2	0.5	0.0	0.0	4.6	4.6	
LnGrp Delay(d),s/veh       20.6       0.0       25.3       0.0       0.0       30.7       5.9       0.0       0.0       16.1       16.1         LnGrp LOS       C       A       C       A       A       A       C       A       A       B       B         Approach Vol, veh/h       416       0       369       902         Approach Delay, s/veh       23.9       0.0       16.1       16.1       16.1         Approach LOS       C       B       B       B       B         Timer - Assigned Phs       2       4       5       6       8         Phs Duration (G+Y+Rc), s       44.0       20.8       11.1       33.0       0.0       C         Change Period (Y+Rc), s       6.0       4.5       4.0       * 6       4.5       4.5         Max Green Setting (Gmax), s       93.0       50.0       30.0       * 60       18.0         Max Q Clear Time (p_c), s       2.3       3.3       0.2       11.0       0.0         Intersection Summary       HCM 6th Ctrl Delay       18.0       18.0       11.0       10.0	. ,													
LnGrp LOS       C       A       C       A       A       C       A       A       A       B       B         Approach Vol, veh/h       416       0       369       902         Approach Delay, s/veh       23.9       0.0       16.1       16.1         Approach LOS       C       B       B         Timer - Assigned Phs       2       4       5       6       8         Phs Duration (G+Y+Rc), s       44.0       20.8       11.1       33.0       0.0         Change Period (Y+Rc), s       6.0       4.5       4.0       * 6       4.5         Max Green Setting (Gmax), s       93.0       50.0       30.0       * 60       18.0         Max Q Clear Time (g_c+11), s       3.7       12.7       7.4       14.8       0.0         Green Ext Time (p_c), s       2.3       3.3       0.2       11.0       0.0         Intersection Summary       18.0       18.0       18.0       18.0				25.3	0.0	0.0	0.0	30.7	5.9	0.0	0.0	16.1	16.1	
Approach Vol, veh/h       416       0       369       902         Approach Delay, s/veh       23.9       0.0       16.1       16.1         Approach LOS       C       B       B         Timer - Assigned Phs       2       4       5       6       8         Phs Duration (G+Y+Rc), s       44.0       20.8       11.1       33.0       0.0         Change Period (Y+Rc), s       6.0       4.5       4.0       * 6       4.5         Max Green Setting (Gmax), s       93.0       50.0       30.0       * 60       18.0         Max Q Clear Time (g_c+I1), s       3.7       12.7       7.4       14.8       0.0         Green Ext Time (p_c), s       2.3       3.3       0.2       11.0       0.0         Intersection Summary       18.0       18.0       11.0       0.0       11.0	,													
Approach Delay, s/veh       23.9       0.0       16.1       16.1         Approach LOS       C       B       B         Timer - Assigned Phs       2       4       5       6       8         Phs Duration (G+Y+Rc), s       44.0       20.8       11.1       33.0       0.0         Change Period (Y+Rc), s       6.0       4.5       4.0       * 6       4.5         Max Green Setting (Gmax), s       93.0       50.0       30.0       * 60       18.0         Max Q Clear Time (g_c+I1), s       3.7       12.7       7.4       14.8       0.0         Green Ext Time (p_c), s       2.3       3.3       0.2       11.0       0.0         Intersection Summary       18.0       18.0       11.0       0.0       11.0												902		
Approach LOS       C       B       B         Timer - Assigned Phs       2       4       5       6       8         Phs Duration (G+Y+Rc), s       44.0       20.8       11.1       33.0       0.0         Change Period (Y+Rc), s       6.0       4.5       4.0       * 6       4.5         Max Green Setting (Gmax), s       93.0       50.0       30.0       * 60       18.0         Max Q Clear Time (g_c+I1), s       3.7       12.7       7.4       14.8       0.0         Green Ext Time (p_c), s       2.3       3.3       0.2       11.0       0.0         Intersection Summary       18.0       18.0       11.0       0.0														
Timer - Assigned Phs       2       4       5       6       8         Phs Duration (G+Y+Rc), s       44.0       20.8       11.1       33.0       0.0         Change Period (Y+Rc), s       6.0       4.5       4.0       * 6       4.5         Max Green Setting (Gmax), s       93.0       50.0       30.0       * 60       18.0         Max Q Clear Time (g_c+11), s       3.7       12.7       7.4       14.8       0.0         Green Ext Time (p_c), s       2.3       3.3       0.2       11.0       0.0         Intersection Summary       18.0       18.0       18.0       18.0														
Phs Duration (G+Y+Rc), s         44.0         20.8         11.1         33.0         0.0           Change Period (Y+Rc), s         6.0         4.5         4.0         * 6         4.5           Max Green Setting (Gmax), s         93.0         50.0         30.0         * 60         18.0           Max Q Clear Time (g_c+I1), s         3.7         12.7         7.4         14.8         0.0           Green Ext Time (p_c), s         2.3         3.3         0.2         11.0         0.0           Intersection Summary         HCM 6th Ctrl Delay         18.0         18.0         18.0					1	5	6		Q					
Change Period (Y+Rc), s       6.0       4.5       4.0       * 6       4.5         Max Green Setting (Gmax), s       93.0       50.0       30.0       * 60       18.0         Max Q Clear Time (g_c+I1), s       3.7       12.7       7.4       14.8       0.0         Green Ext Time (p_c), s       2.3       3.3       0.2       11.0       0.0         Intersection Summary       18.0       18.0       18.0														
Max Green Setting (Gmax), s       93.0       50.0       30.0       * 60       18.0         Max Q Clear Time (g_c+I1), s       3.7       12.7       7.4       14.8       0.0         Green Ext Time (p_c), s       2.3       3.3       0.2       11.0       0.0         Intersection Summary       18.0       18.0	, ,													
Max Q Clear Time (g_c+l1), s         3.7         12.7         7.4         14.8         0.0           Green Ext Time (p_c), s         2.3         3.3         0.2         11.0         0.0           Intersection Summary         HCM 6th Ctrl Delay         18.0         18.0         18.0														
Green Ext Time (p_c), s         2.3         3.3         0.2         11.0         0.0           Intersection Summary														
Intersection Summary HCM 6th Ctrl Delay 18.0														
HCM 6th Ctrl Delay 18.0	. ,	>	2.3		3.3	0.2	11.0		0.0					
•	Intersection Summary													
				18.0										
HCM 6th LOS B	HCM 6th LOS			В										

User approved volume balancing among the lanes for turning movement.

User approved ignoring U-Turning movement.

78: I-15 NB Off-ramp/I-15 NB On-ramp & Carroll Canyon Rd

timing Plan: AM Peak

# メーシュー イイ イントナイ

				· •									
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	1	<b>††</b>			<b>†</b> ‡		٦	4	1				
Traffic Volume (veh/h)	300	1590	0	0	2350	590	350	0	1170	0	0	0	
Future Volume (veh/h)	300	1590	0	0	2350	590	350	0	1170	0	0	0	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0				
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.98	1.00		1.00				
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00				
Work Zone On Approac		No			No			No					
Adj Sat Flow, veh/h/ln	1885	1885	0	0	1885	1885	1870	1870	1870				
Adj Flow Rate, veh/h	345	1828	0	0	2448	615	933	0	5180				
Peak Hour Factor	0.87	0.87	0.87	0.96	0.96	0.96	0.25	0.25	0.25				
Percent Heavy Veh, %	1	1	0	0	1	1	2	2	2				
Cap, veh/h	274	2000	0	0	1075	257	820	0	1460				
Arrive On Green	0.20	0.74	0.00	0.00	0.38	0.38	0.46	0.00	0.46				
Sat Flow, veh/h	1795	3676	0	0	2945	682	1781	0	3170				
Grp Volume(v), veh/h	345	1828	0	0	1492	1571	933	0	5180				
Grp Sat Flow(s),veh/h/l	n1795	1791	0	0	1791	1742	1781	0	1585				
Q Serve(g_s), s	27.5	73.6	0.0	0.0	67.9	67.9	82.9	0.0	82.9				
Cycle Q Clear(g_c), s	27.5	73.6	0.0	0.0	67.9	67.9	82.9	0.0	82.9				
Prop In Lane	1.00		0.00	0.00		0.39	1.00		1.00				
Lane Grp Cap(c), veh/h	274	2000	0	0	676	657	820	0	1460				
V/C Ratio(X)	1.26	0.91	0.00	0.00	2.21	2.39	1.14	0.00	3.55				
Avail Cap(c_a), veh/h	274	2000	0	0	676	657	820	0	1460				
HCM Platoon Ratio	1.33	1.33	1.00	1.00	1.00	1.00	1.00	1.00	1.00				
Upstream Filter(I)	0.09	0.09	0.00	0.00	1.00	1.00	1.00	0.00	1.00				
Uniform Delay (d), s/vel	h 71.7	19.7	0.0	0.0	56.0	56.1	48.6	0.0	48.6				
Incr Delay (d2), s/veh	118.8	0.8	0.0	0.0	548.8	630.3	76.5	0.0	1148.3				
Initial Q Delay(d3),s/vel	n 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
%ile BackOfQ(50%),vel	h/12h1.3	25.1	0.0	0.0	133.4	144.6	54.0	0.0	265.4				
Unsig. Movement Delay	y, s/veh	I											
LnGrp Delay(d),s/veh	190.5	20.6	0.0	0.0	604.8	686.3	125.0	0.0	1196.8				
LnGrp LOS	F	С	А	А	F	F	F	А	F				
Approach Vol, veh/h		2173			3063			6113					
Approach Delay, s/veh		47.5			646.6			1033.2					
Approach LOS		D			F			F					
Timer - Assigned Phs		2			5	6		8					
Phs Duration (G+Y+Rc		106.0			33.0	73.0		88.0					
Change Period (Y+Rc),		5.1			5.1	* 5.1		5.1					
Max Green Setting (Gr		86.9			14.3	* 68		82.9					
Max Q Clear Time (g_c		75.6			29.5	69.9		84.9					
Green Ext Time (p_c), s		8.8			0.0	0.0		0.0					
		2.0				0.0							
Intersection Summary			740.0										
HCM 6th Ctrl Delay			740.2										
HCM 6th LOS			F										
Notoo													

### Notes

User approved volume balancing among the lanes for turning movement.

79: I-15 SB On-ramp/I-15 SB Off-ramp & Carroll Canyon Rd

timing Plan: AM Peak

	٠	<b>→</b>	7	4	+	*	1	Ť	1	4	ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
ane Configurations		<b>≜</b> ↑₽		5	<b>^</b>					5	ŧ	1	
Fraffic Volume (veh/h)	0	1260	930	280	2920	0	0	0	0	270	10	870	
-uture Volume (veh/h)	0	1260	930	280	2920	0	0	0	0	270	10	870	
nitial Q (Qb), veh	0	0	0	0	0	0				0	0	0	
Ped-Bike Adj(A_pbT)	1.00		0.98	1.00		1.00				1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00	
Nork Zone On Approach	۱	No			No						No		
Adj Sat Flow, veh/h/ln	0	1885	1885	1885	1885	0				1870	1870	1870	
Adj Flow Rate, veh/h	0	1326	979	311	3244	0				1109	0	3480	
Peak Hour Factor	0.95	0.95	0.95	0.90	0.90	0.90				0.25	0.25	0.25	
Percent Heavy Veh, %	0	1	1	1	1	0				2	2	2	
Cap, veh/h	0	654	424	163	1550	0				1819	0	809	
Arrive On Green	0.00	0.32	0.32	0.06	0.29	0.00				0.51	0.00	0.51	
Sat Flow, veh/h	0	2163	1340	1795	3676	0				3563	0	1585	
Grp Volume(v), veh/h	0	1123	1182	311	3244	0				1109	0	3480	
Grp Sat Flow(s),veh/h/ln		1791	1618	1795	1791	0				1781	0	1585	
Q Serve(g_s), s	0.0	56.9	56.9	16.3	77.9	0.0				39.8	0.0	91.9	
Cycle Q Clear(g_c), s	0.0	56.9	56.9	16.3	77.9	0.0				39.8	0.0	91.9	
	0.00		0.83	1.00		0.00				1.00		1.00	
ane Grp Cap(c), veh/h	0	566	511	163	1550	0.00				1819	0	809	
	0.00	1.98	2.31	1.91	2.09	0.00				0.61	0.00	4.30	
Avail Cap(c_a), veh/h	0	566	511	163	1550	0.00				1819	0	809	
HCM Platoon Ratio	1.00	1.00	1.00	0.67	0.67	1.00				1.00	1.00	1.00	
	0.00	0.09	0.09	0.09	0.09	0.00				1.00	0.00	1.00	
Jniform Delay (d), s/veh		61.5	61.6	84.5	63.9	0.0				31.3	0.0	44.0	
ncr Delay (d2), s/veh		443.2		412.9	491.9	0.0				0.4		1488.0	
nitial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0	
%ile BackOfQ(50%),veh/			107.1		142.4	0.0				17.5		370.2	
Jnsig. Movement Delay,			107.1	20.1	112.1	0.0				11.0	0.0	010.2	
_nGrp Delay(d),s/veh		504.7	652 1	497.4	555.8	0.0				31.7	0.0	1532.1	
_nGrp LOS	A	F	F	F	F	A				C	A	F	
Approach Vol, veh/h		2305		-	3555						4589	<u> </u>	
Approach Delay, s/veh		580.3			550.7						169.5		
Approach LOS		500.5 F			550.7 F						F		
		Г			Г						Г		
Fimer - Assigned Phs	1	2		4		6							
Phs Duration (G+Y+Rc),		62.0		97.0		83.0							
Change Period (Y+Rc), s	\$ 4.7	5.1		5.1		5.1							
Max Green Setting (Gma		56.9		91.9		77.9							
vlax Q Clear Time (g_c+		58.9		93.9		79.9							
Green Ext Time (p_c), s		0.0		0.0		0.0							
ntersection Summary													
HCM 6th Ctrl Delay			829.0										
HCM 6th LOS			023.0 F										
Notes													

User approved volume balancing among the lanes for turning movement. * HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

### Intersection

Int Delay, s/veh	38.5					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		<b>^</b>	***	1		1
Traffic Vol, veh/h	0	1530	3140	150	0	190
Future Vol, veh/h	0	1530	3140	150	0	190
Conflicting Peds, #/hr	0	0	0	0	0	1
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	50	-	-
Veh in Median Storage,	# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	99	99	84	84
Heavy Vehicles, %	7	7	7	7	2	2
Mvmt Flow	0	1663	3172	152	0	226

Major/Minor	Major1	Ν	/lajor2	Minor	2		
Conflicting Flow All	-	0	-	0	- 1587		
Stage 1	-	-	-	-			
Stage 2	-	-	-	-			
Critical Hdwy	-	-	-	-	- 7.14		
Critical Hdwy Stg 1	-	-	-	-			
Critical Hdwy Stg 2	-	-	-	-			
Follow-up Hdwy	-	-	-	-	- 3.92		
Pot Cap-1 Maneuver	0	-	-	- (	) ~ 83		
Stage 1	0	-	-	- (	) -		
Stage 2	0	-	-	- (	) -		
Platoon blocked, %		-	-	-			
Nov Cap-1 Maneuve		-	-	-	- ~ 83		
Nov Cap-2 Maneuve	r -	-	-	-			
Stage 1	-	-	-	-			
Stage 2	-	-	-	-			
pproach	EB		WB	SE	3		
CM Control Delay, s	s 0		0	\$ 888.	1		
ICM LOS				ŀ	-		
linor Lane/Major Mv	mt	EBT	WBT	WBR SBLn	1		
Capacity (veh/h)			-	- 8			
ICM Lane V/C Ratio		-	-	- 2.72			
ICM Control Delay (s		-	_	-\$ 888.			
CM Lane LOS		_	-	- 1			
ICM 95th %tile Q(ve	h)	-	-	- 21.8			
	.,			21	-		
lotes		<u> </u>					
: Volume exceeds c	apacity	\$: De	lay exc	eeds 300s	+: Com	putation Not Defined	*: All major volume in platoon

	٠	7	1	t	ŧ	~
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	٦	1	à	<b>†</b> †	<b>†</b> †	1
Traffic Volume (veh/h)	340	10	10	510	460	980
Future Volume (veh/h)	340	10	10	510	460	980
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00	1.00			0.98
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	1870	1870	1870	1870
Adj Flow Rate, veh/h	430	13	11	543	500	1065
Peak Hour Factor	0.79	0.79	0.94	0.94	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	477	424	20	2033	1773	772
Arrive On Green	0.27	0.27	0.01	0.57	0.50	0.50
Sat Flow, veh/h	1781	1585	1781	3647	3647	1548
Grp Volume(v), veh/h	430	13	11	543	500	1065
Grp Sat Flow(s),veh/h/ln	1781	1585	1781	1777	1777	1548
Q Serve(g_s), s	16.4	0.4	0.4	5.4	5.8	35.2
Cycle Q Clear(g_c), s	16.4	0.4	0.4	5.4	5.8	35.2
Prop In Lane	1.00	1.00	1.00			1.00
Lane Grp Cap(c), veh/h	477	424	20	2033	1773	772
V/C Ratio(X)	0.90	0.03	0.56	0.27	0.28	1.38
Avail Cap(c_a), veh/h	631	562	103	2206	1773	772
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	24.9	19.1	34.7	7.6	10.3	17.7
Incr Delay (d2), s/veh	11.4	0.0	9.0	0.1	0.1	178.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/In	8.0	0.4	0.2	1.6	1.8	47.6
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	36.3	19.1	43.8	7.7	10.4	196.4
LnGrp LOS	D	В	D	A	В	F
Approach Vol, veh/h	443			554	1565	•
Approach Delay, s/veh	35.8			8.4	137.0	
Approach LOS	55.0 D			0.4 A	137.0 F	
Approach LOS	U			A	Г	
Timer - Assigned Phs		2		4	5	6
Phs Duration (G+Y+Rc), s		46.8		23.8	5.2	41.6
Change Period (Y+Rc), s		* 6.4		4.9	4.4	6.4
Max Green Setting (Gmax), s		* 44		25.0	4.1	35.2
Max Q Clear Time (g_c+l1), s		7.4		18.4	2.4	37.2
Green Ext Time (p c), s		4.4		0.5	0.0	0.0
u = 77				0.0	5.0	0.0
Intersection Summary						
HCM 6th Ctrl Delay			91.7			
HCM 6th LOS			F			
Notes						

	٠	-	7	•	+	*	1	Ť	1	4	Ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	٦	4	1	٦	†	1				A	<b>†</b> †Ъ	-	
Traffic Volume (veh/h)	20	0	10	70	10	80	110	610	20	30	1650	240	
Future Volume (veh/h)	20	0	10	70	10	80	110	610	20	30	1650	240	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00	-	0.98	1.00		0.99	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No			No			No			No		
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	46	0	13	280	40	320	117	649	21	34	1897	276	
Peak Hour Factor	0.50	0.50	0.50	0.25	0.25	0.25	0.94	0.94	0.94	0.87	0.87	0.87	
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2	
Cap, veh/h	202	0	90	402	423	358	174	2507	81	44	2106	303	
Arrive On Green	0.06	0.00	0.06	0.23	0.23	0.23	0.05	0.49	0.49	0.02	0.47	0.47	
Sat Flow, veh/h	3563	0	1585	1781	1870	1585	3456	5077	164	1781	4501	647	
Grp Volume(v), veh/h	46	0	13	280	40	320	117	434	236	34	1429	744	
Grp Sat Flow(s), veh/h/lr		0	1585	1781	1870	1585	1728	1702	1836	1781	1702	1744	
Q Serve(g_s), s	1.2	0.0	0.8	14.3	1.7	19.4	3.3	7.3	7.4	1.9	38.1	39.2	
Cycle Q Clear(g_c), s	1.2	0.0	0.8	14.3	1.7	19.4	3.3	7.3	7.4	1.9	38.1	39.2	
Prop In Lane	1.00	0.0	1.00	1.00	1.7	1.00	1.00	1.5	0.09	1.00	50.1	0.37	
Lane Grp Cap(c), veh/h		0	90	402	423	358	174	1681	907	44	1593	816	
V/C Ratio(X)	0.23	0.00	0.14	402 0.70	423	0.89	0.67	0.26	0.26	0.78	0.90	0.91	
Avail Cap(c_a), veh/h	255	0.00	114	651	684	579	174	1681	907	119	1616	828	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I) Uniform Delay (d), s/veł		0.00	44.4	35.2	30.3	37.2	46.2	14.5	14.6	48.0	24.2	24.5	
Incr Delay (d2), s/veh	0.2	0.0	0.3	0.8	0.0	6.5	40.2 7.9	0.1	0.2	10.5	7.1	14.2	
		0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.0	0.0	
Initial Q Delay(d3),s/veh %ile BackOfQ(50%),veh		0.0	0.0	6.0	0.0	7.8	1.5	2.5	2.8	0.0	14.9	17.3	
. ,			0.5	0.0	0.7	1.0	1.0	2.5	2.0	0.9	14.9	17.3	
Unsig. Movement Delay		0.0	44.7	36.0	30.3	43.7	54.1	14.6	14.7	58.5	31.2	38.7	
LnGrp Delay(d),s/veh	44.8												
LnGrp LOS	D	<u>A</u>	D	D	<u>C</u>	D	D	<u>B</u>	В	E	<u>C</u>	D	
Approach Vol, veh/h		59			640			787			2207		
Approach Delay, s/veh		44.8			39.5			20.5			34.2		
Approach LOS		D			D			С			С		
Timer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Rc)		54.9		10.5	9.4	52.3		26.8					
Change Period (Y+Rc),	s 4.4	6.0		4.9	4.4	6.0		4.4					
Max Green Setting (Gm		45.4		7.1	5.0	47.0		36.2					
Max Q Clear Time (g_c-	+113),9s	9.4		3.2	5.3	41.2		21.4					
Green Ext Time (p_c), s		5.0		0.0	0.0	5.1		1.0					
Intersection Summary													
HCM 6th Ctrl Delay			32.4										
HCM 6th LOS			02.4 C										
Notes													

User approved volume balancing among the lanes for turning movement. User approved ignoring U-Turning movement.

	٠	-	7	*	+	*	1	Ť	1	4	Ŧ	∢_	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	1	4Î	1	ሻሻ	ţ,		<u>ሕ</u> ካ	<b>^</b>	1	٦	朴朴		
Traffic Volume (veh/h)	10	10	40	200	10	70	210	700	30	90	1590	30	
Future Volume (veh/h)	10	10	40	200	10	70	210	700	30	90	1590	30	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00	-	1.00	1.00		0.98	1.00	-	0.99	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No			No			No			No		
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	13	43	33	217	11	76	216	722	31	102	1807	34	
Peak Hour Factor	0.75	0.75	0.75	0.92	0.92	0.92	0.97	0.97	0.97	0.88	0.88	0.88	
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2	
Cap, veh/h	139	146	124	343	20	140	301	2471	750	131	2426	46	
Arrive On Green	0.08	0.08	0.08	0.10	0.10	0.10	0.09	0.48	0.48	0.07	0.47	0.47	
Sat Flow, veh/h	1781	1870	1585	3456	204	1412	3456	5106	1549	1781	5158	97	
Grp Volume(v), veh/h	13	43	33	217	0	87	216	722	31	102	1192	649	
Grp Sat Flow(s), veh/h/l		1870	1585	1728	0	1616	1728	1702	1549	1781	1702	1851	
Q Serve(g_s), s	0.5	1.7	1.5	4.6	0.0	3.9	4.6	6.5	0.8	4.3	21.7	21.8	
Cycle Q Clear( $g_c$ ), s	0.5	1.7	1.5	4.6	0.0	3.9	4.6	6.5	0.8	4.3	21.7	21.8	
Prop In Lane	1.00	1.7	1.00	1.00	0.0	0.87	1.00	0.0	1.00	1.00	21.1	0.05	
Lane Grp Cap(c), veh/h		146	124	343	0	160	301	2471	750	131	1601	871	
V/C Ratio(X)	0.09	0.29	0.27	0.63	0.00	0.54	0.72	0.29	0.04	0.78	0.74	0.75	
Avail Cap(c_a), veh/h	845	887	752	822	0.00	384	390	2471	750	346	1878	1021	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/ve		33.1	33.0	33.0	0.0	32.6	33.8	11.8	10.3	34.6	16.4	16.4	
Incr Delay (d2), s/veh	0.1	0.4	0.4	1.9	0.0	2.8	2.6	0.1	0.0	3.7	1.4	2.6	
Initial Q Delay(d3),s/vel		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),ve		0.7	0.6	2.0	0.0	1.6	1.9	2.0	0.2	1.8	7.1	8.0	
Unsig. Movement Delay			0.0	2.0	0.0	1.0	1.0	2.0	0.2	1.0	1.1	0.0	
LnGrp Delay(d),s/veh	32.7	33.5	33.5	34.9	0.0	35.5	36.5	11.9	10.4	38.3	17.9	19.1	
LnGrp LOS	C	0.00 C	0.00 C	С.+.0 С	A	00.0 D	D	B	B	D	B	B	
Approach Vol, veh/h	<u> </u>	89	5	<u> </u>	304	5	0	969	5	0	1943	0	
Approach Delay, s/veh		33.4			35.1			17.3			1945		
Approach LOS		C			55.1 D			B			13.4 B		
	1	-		٨	_	c		_			U		
Timer - Assigned Phs		2		4	5	6		8					
Phs Duration (G+Y+Rc		43.2		10.8	11.0	42.2		12.0					
Change Period (Y+Rc),		* 6.4		4.9	4.4	6.4		4.5					
Max Green Setting (Gn		* 36		36.1	8.6	42.0		18.1					
Max Q Clear Time (g_c		8.5		3.7	6.6	23.8		6.6					
Green Ext Time (p_c),	S 0.1	5.8		0.2	0.1	12.1		1.0					
Intersection Summary													
HCM 6th Ctrl Delay			20.6										
HCM 6th LOS			С										

User approved volume balancing among the lanes for turning movement.

User approved ignoring U-Turning movement.
	٠	-	7	-	+	*	1	Ť	1	4	ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		4		٦	4		à	<b>^</b>	1	٦	<b>^</b>	1	
Traffic Volume (veh/h)	20	0	10	230	50	170	50	410	220	340	1420	80	
Future Volume (veh/h)	20	0	10	230	50	170	50	410	220	340	1420	80	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	•	1.00	1.00		1.00	1.00	•	0.98	1.00	•	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No			No			No			No		
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	53	0	26	252	64	191	54	441	237	370	1543	87	
Peak Hour Factor	0.38	0.38	0.38	0.89	0.89	0.89	0.93	0.93	0.93	0.92	0.92	0.92	
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2	
Cap, veh/h	69	0	34	341	79	237	69	1137	495	404	1805	804	
Arrive On Green	0.06	0.00	0.06	0.19	0.19	0.19	0.04	0.32	0.32	0.23	0.51	0.51	
Sat Flow, veh/h	1148	0.00	563	1781	414	1234	1781	3554	1547	1781	3554	1583	
Grp Volume(v), veh/h	79	0	0	252	0	255	54	441	237	370	1543	87	
Grp Sat Flow(s), veh/h/l		0	0	1781	0	1648	1781	1777	1547	1781	1777	1583	
Q Serve(g_s), s	4.5	0.0	0.0	13.2	0.0	14.6	3.0	9.5	12.2	20.0	37.4	2.8	
Cycle Q Clear(g_c), s	4.5	0.0	0.0	13.2	0.0	14.6	3.0	9.5	12.2	20.0	37.4	2.8	
Prop In Lane	0.67	0.0	0.33	1.00	0.0	0.75	1.00	0.0	1.00	1.00	07.4	1.00	
Lane Grp Cap(c), veh/h		0	0.00	341	0	316	69	1137	495	404	1805	804	
V/C Ratio(X)	0.77	0.00	0.00	0.74	0.00	0.81	0.78	0.39	0.48	0.92	0.85	0.11	
Avail Cap(c_a), veh/h	467	0.00	0.00	450	0.00	417	92	1137	495	587	1904	848	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/ve		0.0	0.0	37.6	0.0	38.2	47.1	26.1	27.0	37.3	21.2	12.7	
Incr Delay (d2), s/veh	4.4	0.0	0.0	6.1	0.0	10.6	18.7	0.4	1.2	11.8	4.2	0.1	
Initial Q Delay(d3),s/vel		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),vel		0.0	0.0	6.1	0.0	6.6	1.6	3.9	4.5	9.5	14.3	0.9	
Unsig. Movement Delay			0.0	0.1	0.0	0.0		0.0		0.0	11.0	0.0	
LnGrp Delay(d),s/veh	50.2	0.0	0.0	43.8	0.0	48.9	65.9	26.5	28.2	49.1	25.3	12.8	
LnGrp LOS	D	A	A	D	A	D	E	20.0 C	C	D	20.0 C	В	
Approach Vol, veh/h		79	, (		507		_	732			2000		
Approach Delay, s/veh		50.2			46.3			29.9			2000		
Approach LOS		00.2 D			чо.5 D			20.0 C			23.2 C		
		_						-			Ŭ		
Timer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Rc	, ·	36.9		10.9	8.2	55.5		24.3					
Change Period (Y+Rc),		5.3		4.9	4.4	5.3		5.3					
Max Green Setting (Gr		25.5		27.0	5.1	53.0		25.0					
Max Q Clear Time (g_c		14.2		6.5	5.0	39.4		16.6					
Green Ext Time (p_c),	s 0.4	4.1		0.2	0.0	10.9		2.3					
Intersection Summary													
HCM 6th Ctrl Delay			32.5										
HCM 6th LOS			С										
Notes													
Liser approved volume	halanai		na tha	lonoo fa	n turnin		mont						

User approved volume balancing among the lanes for turning movement. User approved ignoring U-Turning movement.

ee. Haney Hage		~ 00		ouny		м	- J -
	<b>→</b>	7	1	+	1	1	
Movement	EBT	EBR	WBL	WBT	NBL	NBR	
Lane Configurations	<b>≜</b>		۲	<b>^</b>	٢	1	
Traffic Volume (veh/h)	1300	500	20	400	130	10	
Future Volume (veh/h)	1300	500	20	400	130	10	
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 Approac	h No			No	No		
Adj Sat Flow, veh/h/ln	2133	1885	1885	2133	1870	1870	
Adj Flow Rate, veh/h	1398	538	24	488	173	13	
Peak Hour Factor	0.93	0.93	0.82	0.82	0.75	0.75	
Percent Heavy Veh, %	1	1	1	1	2	2	
Cap, veh/h	1785	645	194	2834	220	195	
Arrive On Green	0.61	0.61	0.02	0.70	0.12	0.12	
Sat Flow, veh/h	3023	1054	1795	4160	1781	1585	
Grp Volume(v), veh/h	944	992	24	488	173	13	
Grp Sat Flow(s),veh/h/li	n2027	1943	1795	2027	1781	1585	
Q Serve(g_s), s	22.7	27.1	0.3	2.8	6.3	0.5	
Cycle Q Clear(g_c), s	22.7	27.1	0.3	2.8	6.3	0.5	
Prop In Lane		0.54	1.00		1.00	1.00	
Lane Grp Cap(c), veh/h	1240	1189	194	2834	220	195	
V/C Ratio(X)	0.76	0.83	0.12	0.17	0.79	0.07	
Avail Cap(c_a), veh/h	1306	1252	295	3192	672	598	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/vel	h 9.4	10.3	10.9	3.4	28.5	26.0	
Incr Delay (d2), s/veh	2.7	5.0	0.1	0.0	2.4	0.1	
Initial Q Delay(d3),s/veł	n 0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veł	n/In7.4	9.1	0.1	0.6	2.6	0.2	
Unsig. Movement Delay							
LnGrp Delay(d),s/veh	12.2	15.3	11.0	3.5	30.9	26.0	
LnGrp LOS	В	В	В	А	С	С	
Approach Vol, veh/h	1936			512	186		
Approach Delay, s/veh	13.8			3.8	30.6		
Approach LOS	В			А	С		
Timer - Assigned Phs	1	2				6	8
Phs Duration (G+Y+Rc)	). s5.8	47.0				52.9	14.2
Change Period (Y+Rc),		6.0				6.0	5.9
Max Green Setting (Gr		43.2				52.8	25.3
Max Q Clear Time (g_c		29.1				4.8	8.3
Green Ext Time (p_c), s		11.9				4.3	0.2
Intersection Summary							
HCM 6th Ctrl Delay			13.0				
HCM 6th LOS			B				
			U				

Movement         EBL         EBL         EBR         WBL         WBT         WBL         NBT         NBT         NBT         NBT         NBT         NBT         SBL         SBT         SBR           Lane Configurations         1         1         1         1         1         1         1         1         1         0         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100		۶	<b>→</b>	¥	*	+	*	1	t	1	4	ŧ	~	
Traffic Volume (veh/h)       30       210       10       30       350       340       10       10       10       80       10       10         Future Volume (veh/h)       30       210       10       30       350       340       10       10       10       80       10       10         Perking Bus, Adj       100       0.97       0.99       0.97       1.00       0.09       0.99       0.99       0.99         Parking Bus, Adj       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.	Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Traffic Volume (veh/h)       30       210       10       30       350       340       10       10       10       80       10       10         Future Volume (veh/h)       30       210       10       30       350       340       10       10       10       80       10       10         Perdire Rex Ad(A, pbT)       1.00       0.97       0.99       0.97       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00 </td <td>Lane Configurations</td> <td>7</td> <td>1</td> <td>1</td> <td>7</td> <td>1</td> <td>1</td> <td></td> <td>4</td> <td></td> <td></td> <td>4</td> <td></td> <td></td>	Lane Configurations	7	1	1	7	1	1		4			4		
Initial Q(Db), veh         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	Traffic Volume (veh/h)						340	10		10	80		10	
Ped-Bike Adj(A, pbT)       1.00       0.97       0.99       0.97       1.00       0.09       0.99       0.99       0.99         Parking Bus, Adj       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01 <td>Future Volume (veh/h)</td> <td>30</td> <td>210</td> <td>10</td> <td>30</td> <td>350</td> <td>340</td> <td>10</td> <td>10</td> <td>10</td> <td>80</td> <td>10</td> <td>10</td> <td></td>	Future Volume (veh/h)	30	210	10	30	350	340	10	10	10	80	10	10	
Parking Bus, Adj       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.0	Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Work Zone On Åpproach         No         No         No         No         No           Ad j Sat Flow, vehkh         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1	Ped-Bike Adj(A_pbT)	1.00		0.97	0.99		0.97	1.00		0.99	0.99		0.99	
Adj Sat Flow, veluhiln       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       <	Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Adj Flow Rate, velvih       37       256       12       36       417       405       17       17       17       17       107       13       13         Peak Hour Factor       0.82       0.82       0.84       0.84       0.84       0.58       0.58       0.55       0.75       0.75       0.75         Percent Heavy Veh,%       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2 <td>Work Zone On Approac</td> <td>ch</td> <td>No</td> <td></td> <td></td> <td>No</td> <td></td> <td></td> <td>No</td> <td></td> <td></td> <td>No</td> <td></td> <td></td>	Work Zone On Approac	ch	No			No			No			No		
Pack Hour Factor       0.82       0.82       0.82       0.84       0.84       0.84       0.58       0.58       0.75       0.75       0.75         Percent Heavy Veh, %       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       3       4       10       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0	Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	
Percent Heavy Veh, %       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2 <th2< th=""></th2<>	Adj Flow Rate, veh/h	37	256	12	36	417	405	17	17	17	107	13	13	
Cap, veh/h       476       799       657       673       799       657       264       95       79       437       20       20         Arrive On Green       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.14       0.14       0.14       0.14       0.14       0.14       0.14       0.14       0.14       0.14       0.14       0.14       0.14       0.14       0.14       0.14       0.14       0.14       0.14       0.14       0.14       0.14       0.14       0.14       0.0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0 <td>Peak Hour Factor</td> <td>0.82</td> <td>0.82</td> <td>0.82</td> <td>0.84</td> <td>0.84</td> <td>0.84</td> <td>0.58</td> <td>0.58</td> <td>0.58</td> <td>0.75</td> <td>0.75</td> <td>0.75</td> <td></td>	Peak Hour Factor	0.82	0.82	0.82	0.84	0.84	0.84	0.58	0.58	0.58	0.75	0.75	0.75	
Arrive On Green       0.43       0.43       0.43       0.43       0.43       0.43       0.14       0.14       0.14       0.14       0.14       0.14       0.14         Sat Flow, veh/h       664       1870       1539       1106       1870       1538       456       689       573       1199       146       146         Grp Volume(v), veh/h       37       256       12       36       417       405       51       0       0       133       0       0         Grp Sat Flow(s), veh/h       100       1.00       1.00       1.00       1.00       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0 <td>Percent Heavy Veh, %</td> <td></td>	Percent Heavy Veh, %													
Sat Flow, veh/h       664       1870       1539       1106       1870       1538       456       689       573       1199       146       146         Grp Volume(v), veh/h       37       256       12       36       417       405       51       0       0       133       0       0         Grp Sat Flow(s), veh/h/ln       64       1870       1539       1106       1870       1538       1718       0       0       1430       0       0         Q Serve(g, s), s       1.0       2.2       0.1       2.7       3.9       4.9       0.6       0.0       0.0       1.0       0.0       0.0         Cycle Q Clear(g, c), s       5.0       2.2       0.1       2.7       3.9       4.9       0.6       0.0       0.0       0.0       0.0         Lane Grp Cap(c), veh/h       799       657       673       799       657       438       0       0       0       0.0       0.0         VIC Ratio(X)       0.08       0.32       0.02       10.0       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1	Cap, veh/h	476	799	657	673	799	657	264	95	79	437	20	20	
Grp Volume(v), veh/h       37       256       12       36       417       405       51       0       0       133       0       0         Grp Volume(v), veh/h/ln       664       1870       1539       1106       1870       1538       1718       0       0       1490       0       0         Q Serve(g_s), s       1.0       2.2       0.1       0.5       3.9       4.9       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0	Arrive On Green	0.43	0.43	0.43	0.43	0.43	0.43	0.14	0.14	0.14	0.14	0.14	0.14	
Grp Sat Flow(s),veh/h/ln 664       1870       1539       1106       1870       1538       1718       0       0       1490       0       0         Q Serve(g_s), s       1.0       2.2       0.1       0.5       3.9       4.9       0.0       0.0       0.0       1.3       0.0       0.0         Cycle Q Clear(g_c), s       5.0       2.2       0.1       2.7       3.9       4.9       0.6       0.0       0.0       2.0       0.0       0.0         Prop In Lane       1.00       1.00       1.00       0.00       0.33       0.33       0.80       0.10         Lane Grp Cap(c), veh/h       476       799       657       673       799       657       438       0       0       478       0       0         V/C Ratio(X)       0.08       0.32       0.02       0.05       0.52       0.62       0.12       0.00       0.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       0.0       0.0       0.0       0.0       0.0       0.0	Sat Flow, veh/h	664	1870	1539	1106	1870	1538	456	689	573	1199	146	146	
Q Serve(g_s), s       1.0       2.2       0.1       0.5       3.9       4.9       0.0       0.0       0.1       1.3       0.0       0.0         Cycle Q Clear(g_c), s       5.0       2.2       0.1       2.7       3.9       4.9       0.6       0.0       0.0       2.0       0.0       0.0         Prop In Lane       1.00       1.00       1.00       1.00       0.33       0.33       0.80       0.10         Lane Grp Cap(c), veh/h       76       799       657       438       0       0       478       0       0         V/C Ratio(X)       0.08       0.32       0.02       0.05       0.52       0.62       0.12       0.00       0.00       0.28       0.00       0.00         Avail Cap(c_a), veh/h       725       1502       1236       1061       1455       1196       1609       0       0       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       0.00       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0	Grp Volume(v), veh/h	37	256	12	36	417	405	51	0	0	133	0	0	
Q Serve(g_s), s       1.0       2.2       0.1       0.5       3.9       4.9       0.0       0.0       1.3       0.0       0.0         Cycle Q Clear(g_c), s       5.0       2.2       0.1       2.7       3.9       4.9       0.6       0.0       0.0       2.0       0.0       0.0         Prop In Lane       1.00       1.00       1.00       1.00       1.00       0.33       0.33       0.80       0.10         Lane Grp Cap(c), veh/h       476       799       657       438       0       0       478       0       0         V/C Ratio(X)       0.08       0.32       0.02       0.05       0.52       0.62       0.12       0.00       0.00       0.28       0.00       0.00         Avail Cap(c_a), veh/h       725       1502       1236       1061       1455       1196       1609       0       0       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.0       0.0       0.0	Grp Sat Flow(s),veh/h/l	n 664	1870	1539	1106	1870	1538	1718	0	0	1490	0	0	
Cycle Q Clear(g_c), s       5.0       2.2       0.1       2.7       3.9       4.9       0.6       0.0       0.0       2.0       0.0       0.0         Prop In Lane       1.00       1.00       1.00       1.00       0.33       0.33       0.80       0.10         Lane Grp Cap(c), veh/h       476       799       667       673       799       657       438       0       0       478       0       0         V/C Ratio(X)       0.08       0.32       0.02       0.05       0.52       0.62       0.12       0.00       0.00       0.02       0.00       0.00         Avail Cap(c, a), veh/h       725       1502       1236       1061       1455       1196       1609       0       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.			2.2	0.1	0.5	3.9	4.9	0.0	0.0	0.0	1.3	0.0	0.0	
Lane Grp Cap(c), veh/h 476 799 657 673 799 657 438 0 0 478 0 0 V/C Ratio(X) 0.08 0.32 0.02 0.05 0.52 0.62 0.12 0.00 0.00 0.28 0.00 0.00 Avail Cap(c_a), veh/h 725 1502 1236 1061 1455 1196 1609 0 0 1530 0 0 HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0		5.0	2.2	0.1	2.7	3.9	4.9	0.6	0.0	0.0	2.0	0.0	0.0	
V/C Ratio(X)       0.08       0.32       0.02       0.05       0.52       0.62       0.12       0.00       0.00       0.28       0.00       0.00         Avail Cap(c_a), veh/h       725       1502       1236       1061       1455       1196       1609       0       0       1530       0       0         HCM Platoon Ratio       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       1.00       1.00       1.00       1.0	Prop In Lane	1.00		1.00	1.00		1.00	0.33		0.33	0.80		0.10	
V/C Ratio(X)       0.08       0.32       0.02       0.05       0.52       0.62       0.12       0.00       0.00       0.28       0.00       0.00         Avail Cap(c_a), veh/h       725       1502       1236       1061       1455       1196       1609       0       0       1530       0       0         HCM Platoon Ratio       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       1.00       1.00       1.00       1.00	Lane Grp Cap(c), veh/h	n 476	799	657	673	799	657	438	0	0	478	0	0	
HCM Platoon Ratio       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0	,		0.32	0.02	0.05	0.52	0.62	0.12	0.00	0.00	0.28	0.00	0.00	
Upstream Filter(I)       1.00       1.00       1.00       1.00       1.00       1.00       1.00       0.00       0.00       0.00       0.00       0.00         Uniform Delay (d), s/veh       6.9       4.5       4.0       5.4       5.1       5.3       9.1       0.0       0.0       9.7       0.0       0.0         Incr Delay (d2), s/veh       0.1       0.2       0.0       0.0       0.5       0.9       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0		725	1502	1236	1061	1455	1196	1609	0	0	1530	0	0	
Uniform Delay (d), s/veh       6.9       4.5       4.0       5.4       5.1       5.3       9.1       0.0       0.0       9.7       0.0       0.0         Incr Delay (d2), s/veh       0.1       0.2       0.0       0.0       0.5       0.9       0.0       0.0       0.1       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0 <td< td=""><td>i i = i</td><td>1.00</td><td>1.00</td><td>1.00</td><td>1.00</td><td>1.00</td><td></td><td>1.00</td><td>1.00</td><td>1.00</td><td>1.00</td><td>1.00</td><td>1.00</td><td></td></td<>	i i = i	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Incr Delay (d2), s/veh       0.1       0.2       0.0       0.5       0.9       0.0       0.0       0.1       0.0       0.0         Initial Q Delay(d3), s/veh       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       <	Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00	
Initial Q Delay(d3),s/veh 0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0	• • • • • • • • • • • • • • • • • • • •	h 6.9	4.5	4.0	5.4	5.1	5.3	9.1	0.0	0.0	9.7	0.0	0.0	
%ile BackOfQ(50%),veh/Ir0.1       0.1       0.0       0.1       0.5       0.6       0.2       0.0       0.0       0.4       0.0       0.0         Unsig. Movement Delay, s/veh              0.0       0.4       0.0       0.0         LnGrp Delay(d),s/veh       6.9       4.8       4.0       5.5       5.5       6.2       9.2       0.0       0.0       9.8       0.0       0.0         LnGrp DOS       A       A       A       A       A       A       A       A       A       A         Approach Vol, veh/h       305       858       51       133         Approach Delay, s/veh       5.0       5.8       9.2       9.8         Approach LOS       A       A       A       A       A         Timer - Assigned Phs       2       4       6       8			0.2	0.0	0.0	0.5	0.9	0.0	0.0	0.0	0.1	0.0	0.0	
%ile BackOfQ(50%),veh/Ir0.1       0.1       0.0       0.1       0.5       0.6       0.2       0.0       0.0       0.4       0.0       0.0         Unsig. Movement Delay, s/veh              0.0       0.4       0.0       0.0         LnGrp Delay(d),s/veh       6.9       4.8       4.0       5.5       5.5       6.2       9.2       0.0       0.0       9.8       0.0       0.0         LnGrp DOS       A       A       A       A       A       A       A       A       A       A         Approach Vol, veh/h       305       858       51       133         Approach Delay, s/veh       5.0       5.8       9.2       9.8         Approach LOS       A       A       A       A       A         Timer - Assigned Phs       2       4       6       8		h 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Unsig. Movement Delay, s/veh         LnGrp Delay(d),s/veh       6.9       4.8       4.0       5.5       5.5       6.2       9.2       0.0       0.0       9.8       0.0       0.0         LnGrp LOS       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A			0.1	0.0	0.1	0.5	0.6	0.2	0.0	0.0	0.4	0.0	0.0	
LnGrp Delay(d),s/veh       6.9       4.8       4.0       5.5       5.5       6.2       9.2       0.0       0.0       9.8       0.0       0.0         LnGrp LOS       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A	. ,													
LnGrp LOS       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A	v .			4.0	5.5	5.5	6.2	9.2	0.0	0.0	9.8	0.0	0.0	
Approach Vol, veh/h       305       858       51       133         Approach Delay, s/veh       5.0       5.8       9.2       9.8         Approach LOS       A       A       A       A         Timer - Assigned Phs       2       4       6       8         Phs Duration (G+Y+Rc), s       15.7       8.2       15.7       8.2         Change Period (Y+Rc), s       * 5.5       4.9       5.5       4.9         Max Green Setting (Gmax), s       * 19       21.0       18.6       21.0         Max Q Clear Time (g_c+I1), s       7.0       4.0       6.9       2.6         Green Ext Time (p_c), s       1.2       0.4       3.1       0.1         Intersection Summary       HCM 6th Ctrl Delay       6.2		А	А	А	А	А	А	А	А	А	А	А	А	
Approach Delay, s/veh       5.0       5.8       9.2       9.8         Approach LOS       A       A       A       A       A         Timer - Assigned Phs       2       4       6       8         Phs Duration (G+Y+Rc), s       15.7       8.2       15.7       8.2         Change Period (Y+Rc), s       * 5.5       4.9       5.5       4.9         Max Green Setting (Gmax), s       * 19       21.0       18.6       21.0         Max Q Clear Time (g_c+I1), s       7.0       4.0       6.9       2.6         Green Ext Time (p_c), s       1.2       0.4       3.1       0.1         Intersection Summary       HCM 6th Ctrl Delay       6.2														
Approach LOS       A       A       A       A       A         Timer - Assigned Phs       2       4       6       8         Phs Duration (G+Y+Rc), s       15.7       8.2       15.7       8.2         Change Period (Y+Rc), s       * 5.5       4.9       5.5       4.9         Max Green Setting (Gmax), s       * 19       21.0       18.6       21.0         Max Q Clear Time (g_c+I1), s       7.0       4.0       6.9       2.6         Green Ext Time (p_c), s       1.2       0.4       3.1       0.1         Intersection Summary       HCM 6th Ctrl Delay       6.2														
Timer - Assigned Phs       2       4       6       8         Phs Duration (G+Y+Rc), s       15.7       8.2       15.7       8.2         Change Period (Y+Rc), s       * 5.5       4.9       5.5       4.9         Max Green Setting (Gmax), s       * 19       21.0       18.6       21.0         Max Q Clear Time (g_c+I1), s       7.0       4.0       6.9       2.6         Green Ext Time (p_c), s       1.2       0.4       3.1       0.1         Intersection Summary       HCM 6th Ctrl Delay       6.2														
Phs Duration (G+Y+Rc), s       15.7       8.2       15.7       8.2         Change Period (Y+Rc), s       * 5.5       4.9       5.5       4.9         Max Green Setting (Gmax), s       * 19       21.0       18.6       21.0         Max Q Clear Time (g_c+I1), s       7.0       4.0       6.9       2.6         Green Ext Time (p_c), s       1.2       0.4       3.1       0.1         Intersection Summary       6.2       6.2       6.2					4		C							
Change Period (Y+Rc), s       * 5.5       4.9       5.5       4.9         Max Green Setting (Gmax), s       * 19       21.0       18.6       21.0         Max Q Clear Time (g_c+l1), s       7.0       4.0       6.9       2.6         Green Ext Time (p_c), s       1.2       0.4       3.1       0.1         Intersection Summary       6.2       6.2	U	<b>\</b>												
Max Green Setting (Gmax), s         * 19         21.0         18.6         21.0           Max Q Clear Time (g_c+l1), s         7.0         4.0         6.9         2.6           Green Ext Time (p_c), s         1.2         0.4         3.1         0.1           Intersection Summary         6.2         6.2         6.2														
Max Q Clear Time (g_c+l1), s         7.0         4.0         6.9         2.6           Green Ext Time (p_c), s         1.2         0.4         3.1         0.1           Intersection Summary         6.2         6.2         6.2														
Green Ext Time (p_c), s         1.2         0.4         3.1         0.1           Intersection Summary         HCM 6th Ctrl Delay         6.2														
Intersection Summary HCM 6th Ctrl Delay 6.2														
HCM 6th Ctrl Delay 6.2	Green Ext Time (p_c), s	S	1.2		0.4		3.1		0.1					
	Intersection Summary													
HCM 6th LOS A	HCM 6th Ctrl Delay			6.2										
	HCM 6th LOS			А										

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

	٠	+	7	4	+	•	1	t	1	4	ţ	4	
Movement E	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		4			<del>د</del>	1	۲	1	1	7	1	1	
Traffic Volume (veh/h)	0	0	0	70	0	10	10	480	90	10	240	10	
Future Volume (veh/h)	0	0	0	70	0	10	10	480	90	10	240	10	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
	1.00		1.00	1.00		0.99	1.00		0.97	1.00		0.99	
<u>, , , , , , , , , , , , , , , , , , , </u>	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach		No			No			No			No		
	870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	0	0	0	88	0	12	11	505	95	12	300	12	
	).50	0.50	0.50	0.80	0.80	0.80	0.95	0.95	0.95	0.80	0.80	0.80	
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2	
Cap, veh/h	0	7	0	147	0	131	21	819	805	23	821	691	
• *	0.00	0.00	0.00	0.08	0.00	0.08	0.01	0.44	0.44	0.01	0.44	0.44	
Sat Flow, veh/h	0	1870	0.00	1774	0.00	1574	1781	1870	1539	1781	1870	1574	
Grp Volume(v), veh/h	0	0	0	88	0	12	11	505	95	12	300	12	
Grp Sat Flow(s), veh/h/ln	0	1870	0	1774	0	1574	1781	1870	1539	1781	1870	1574	
	0.0	0.0	0.0	1.3	0.0	0.2	0.2	5.6	0.8	0.2	2.9	0.1	
	0.0	0.0	0.0	1.3	0.0	0.2	0.2	5.6	0.8	0.2	2.9	0.1	
<b>, , ,</b>	0.0	0.0	0.00	1.00	0.0	1.00	1.00	5.0	1.00	1.00	2.3	1.00	
	00.0	7	0.00	147	0	131	21	819	805	23	821	691	
Lane Grp Cap(c), veh/h	0.00	0.00	0.00	0.60	0.00	0.09	0.53	0.62	0.12	23 0.53	0.37	0.02	
( )												3524	
Avail Cap(c_a), veh/h	0	2791	0	2648	0	2350	1994	4187	3576	1994	4187		
	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
1 1/	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
, , , ,	0.0	0.0	0.0	11.9	0.0	11.4	13.2	5.8	3.3	13.2	5.0	4.3	
<b>, , , ,</b>	0.0	0.0	0.0	1.4	0.0	0.1	7.4	0.8	0.1	6.9	0.3	0.0	
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/lr		0.0	0.0	0.4	0.0	0.1	0.1	0.9	0.1	0.1	0.4	0.0	
Unsig. Movement Delay, s			0.0	10.0	0.0	44 5	00.0	0.0	0.0	00.0	F 2	4.0	
1 2 ( ),	0.0	0.0	0.0	13.3	0.0	11.5	20.6	6.6	3.3	20.0	5.3	4.3	
LnGrp LOS	A	<u>A</u>	A	В	<u>A</u>	В	С	A	A	С	A	A	
Approach Vol, veh/h		0			100			611			324		
Approach Delay, s/veh		0.0			13.1			6.3			5.8		
Approach LOS					В			A			A		
Timer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Rc), s		16.2		0.0	4.3	16.3		6.2					
Change Period (Y+Rc), s	4.0	4.5		4.0	4.0	4.5		4.0					
Max Green Setting (Gma	¥Ø,. G	60.0		40.0	30.0	60.0		40.0					
Max Q Clear Time (g_c+l'	12,25	7.6		0.0	2.2	4.9		3.3					
Green Ext Time (p_c), s	0.0	3.9		0.0	0.0	1.9		0.3					
Intersection Summary													
HCM 6th Ctrl Delay HCM 6th LOS			6.8										

	٠	-	7	*	-	*	1	Ť	1	4	ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	7	<b>†</b>	1	٦	<b>↑</b>	1	à	<b>†</b> †	1	à	<b>^</b>	1	
Traffic Volume (veh/h)	10	80	60	260	50	150	30	220	130	60	210	10	
Future Volume (veh/h)	10	80	60	260	50	150	30	220	130	60	210	10	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	0.99	•	0.96	0.98	•	0.99	1.00	•	0.96	1.00	•	0.96	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No	1.00	1.00	No	1.00	1.00	No	1.00		No		
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1811	1811	1811	1811	1811	1811	
Adj Flow Rate, veh/h	11	90	67	325	62	188	33	239	141	65	228	11	
Peak Hour Factor	0.89	0.89	0.89	0.80	0.80	0.80	0.92	0.92	0.92	0.92	0.92	0.92	
Percent Heavy Veh, %	2	2	2	2	2	2	6	6	6	6	6	6	
Cap, veh/h	577	745	606	600	745	624	51	820	351	84	886	379	
Arrive On Green	0.40	0.40	0.40	0.40	0.40	0.40	0.03	0.24	0.24	0.05	0.26	0.26	
Sat Flow, veh/h	1120	1870	1521	1211	1870	1566	1725	3441	1470	1725	3441	1473	
	11	90	67	325	62	188	33	239	141	65	228	11	
Grp Volume(v), veh/h			1521			1566	33 1725	1721	141	1725	1721	1473	
Grp Sat Flow(s),veh/h/li		1870		1211	1870				3.8			0.3	
Q Serve(g_s), s	0.3	1.4	1.3	10.8	1.0	3.8	0.9	2.7		1.7	2.5		
Cycle Q Clear(g_c), s	1.3	1.4	1.3	12.3	1.0	3.8	0.9	2.7	3.8	1.7	2.5	0.3	
Prop In Lane	1.00	745	1.00	1.00	745	1.00	1.00	000	1.00	1.00	000	1.00	
ane Grp Cap(c), veh/h		745	606	600	745	624	51	820	351	84	886	379	
//C Ratio(X)	0.02	0.12	0.11	0.54	0.08	0.30	0.64	0.29	0.40	0.77	0.26	0.03	
vail Cap(c_a), veh/h	924	1323	1076	974	1323	1108	667	2140	915	667	2140	916	
ICM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Jpstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Jniform Delay (d), s/vel		8.9	8.9	12.8	8.8	9.6	22.4	14.6	15.0	22.0	13.8	13.0	
ncr Delay (d2), s/veh	0.0	0.0	0.0	0.3	0.0	0.1	4.9	0.1	0.3	5.5	0.2	0.0	
nitial Q Delay(d3),s/vel		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),vel		0.5	0.4	2.5	0.3	1.1	0.4	0.9	1.1	0.7	0.8	0.1	
Unsig. Movement Delay				10.0		<u> </u>	0- 0		4	0		10.0	
_nGrp Delay(d),s/veh	9.1	8.9	8.9	13.0	8.8	9.7	27.3	14.7	15.3	27.5	14.0	13.0	
LnGrp LOS	A	A	A	В	A	A	С	B	В	С	B	В	
Approach Vol, veh/h		168			575			413			304		
Approach Delay, s/veh		8.9			11.5			15.9			16.8		
Approach LOS		Α			В			В			В		
Fimer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Rc)	), s6.7	16.6		23.5	5.8	17.4		23.5					
Change Period (Y+Rc),		5.4		4.9	4.4	5.4		4.9					
Max Green Setting (Gm		29.1		33.1	18.1	29.1		33.1					
Max Q Clear Time (g_c		5.8		3.4	2.9	4.5		14.3					
Green Ext Time (p_c), s		1.1		0.5	0.0	1.5		1.2					
u = 7:													
ntersection Summary			40.0										
HCM 6th Ctrl Delay			13.6										
HCM 6th LOS			В										
lotoo													

	٠	-	7	-	-	*	1	Ť	1	4	ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ኘኘ	<b>†</b>	1	5	ţ,		à	<b>^</b>	1	à	<b>^</b>	1	
Traffic Volume (veh/h)	420	30	50	30	30	90	30	360	10	50	870	240	
Future Volume (veh/h)	420	30	50	30	30	90	30	360	10	50	870	240	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	•	0.96	1.00	•	0.96	1.00	•	0.95	1.00	•	0.96	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No			No			No			No		
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1550	1841	1841	1550	1841	1841	
Adj Flow Rate, veh/h	646	46	77	33	33	99	33	391	11	54	946	261	
Peak Hour Factor	0.65	0.65	0.65	0.91	0.91	0.91	0.92	0.92	0.92	0.92	0.92	0.92	
Percent Heavy Veh, %	2	2	2	2	2	2	4	4	4	4	4	4	
Cap, veh/h	705	152	124	400	42	126	377	894	380	468	1110	474	
Arrive On Green	0.20	0.08	0.08	0.22	0.11	0.11	0.26	0.26	0.26	0.32	0.32	0.32	
Sat Flow, veh/h	3456	1870	1523	1781	399	1198	1476	3497	1488	1476	3497	1494	
Grp Volume(v), veh/h	646	46	77	33	0000	132	33	391	11	54	946	261	
Grp Sat Flow(s), veh/h/l		1870	1523	1781	0	1597	1476	1749	1488	1476	1749	1494	
Q Serve(g_s), s	29.3	3.7	7.8	2.3	0.0	12.9	2.7	15.0	0.9	4.1	40.5	14.2	
Cycle Q Clear(g_c), s	29.3	3.7	7.8	2.3	0.0	12.9	2.7	15.0	0.9	4.1	40.5	14.2	
Prop In Lane	1.00	5.1	1.00	1.00	0.0	0.75	1.00	15.0	1.00	1.00	40.5	14.2	
		152	124	400	0	168	377	894	380	468	1110	475	
Lane Grp Cap(c), veh/h	0.92	0.30	0.62	400	0.00	0.78	0.09	0.94	0.03	400	0.85	475 0.55	
V/C Ratio(X)									380	468			
Avail Cap(c_a), veh/h	1244	916	746	400	0	280	377	894			1110	475 1.00	
HCM Platoon Ratio	1.00	1.00	1.00 1.00	1.00 1.00	1.00 0.00	1.00 1.00	1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00		
Upstream Filter(I)	1.00	1.00					1.00					1.00	
Uniform Delay (d), s/ve		69.2	71.1	49.0	0.0	69.8	45.4	49.9	44.7	38.7	51.1	17.0	
Incr Delay (d2), s/veh	3.0	1.4	6.4	0.0	0.0	3.0	0.0 0.0	1.6	0.1	0.0	8.3	4.5	
Initial Q Delay(d3),s/vel		0.0 1.9	0.0 3.3	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),vel			ა.ა	1.1	0.0	5.5	1.0	6.7	0.4	1.5	18.8	5.6	
Unsig. Movement Delay	•		77 E	10.0	0.0	70.0	1 E 1	E4 E	44.0	20.0	E0 4	01 5	
LnGrp Delay(d),s/veh	65.4	70.6	77.5	49.0	0.0	72.8	45.4	51.5	44.8	38.8	59.4	21.5	
LnGrp LOS	E	E	E	D	A	E	D	D	D	D	E	С	
Approach Vol, veh/h		769			165			435			1261		
Approach Delay, s/veh		66.9			68.1			50.8			50.7		
Approach LOS		E			E			D			D		
Timer - Assigned Phs	1	2	3	4	5	6	7	8					
Phs Duration (G+Y+Rc	), <b>5</b> 5,1	46.1	40.9	17.9	45.2	56.0	37.0	21.8					
Change Period (Y+Rc),		5.2	4.9	* 4.9	4.4	5.2	4.4	4.9					
Max Green Setting (Gr		40.9	7.2	* 78	4.7	50.8	57.6	28.0					
Max Q Clear Time (g_c		17.0	4.3	9.8	4.7	42.5	31.3	14.9					
Green Ext Time (p_c),		3.1	0.0	0.8	0.0	5.1	1.3	0.4					
<i>w</i> = <i>Y</i>	0.0	0.1	0.0	0.0	0.0	0.1	1.0	<b>V</b> .7					
Intersection Summary													
HCM 6th Ctrl Delay			56.5										
HCM 6th LOS			Е										
Notes													

	۲	<b>→</b>	7	4	+	•	1	t	1	4	ţ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		÷.	1	7	ţ,		1	<b>†</b> †	1	٦	<b>^</b>	1	
Traffic Volume (veh/h)	70	20	160	30	30	40	50	220	10	10	410	120	
Future Volume (veh/h)	70	20	160	30	30	40	50	220	10	10	410	120	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	0.99		0.99	1.00		0.99	1.00		0.98	1.00		0.96	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No			No			No			No		
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1796	1870	1870	1796	
Adj Flow Rate, veh/h	88	25	200	42	42	56	57	250	11	11	466	136	
Peak Hour Factor	0.80	0.80	0.80	0.72	0.72	0.72	0.88	0.88	0.88	0.88	0.88	0.88	
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2	
Cap, veh/h	393	90	378	375	174	232	87	1226	515	21	1094	449	
Arrive On Green	0.24	0.24	0.24	0.24	0.24	0.24	0.05	0.35	0.35	0.01	0.31	0.31	
Sat Flow, veh/h	868	374	1573	1151	723	965	1781	3554	1493	1781	3554	1458	
Grp Volume(v), veh/h	113	0	200	42	0	98	57	250	11	11	466	136	_
Grp Sat Flow(s), veh/h/l		0	1573	1151	0	1688	1781	1777	1493	1781	1777	1458	
Q Serve(g_s), s	1.7	0.0	3.8	1.1	0.0	1.6	1.1	1.7	0.2	0.2	3.6	2.5	
Cycle Q Clear(g_c), s	3.3	0.0	3.8	4.4	0.0	1.6	1.1	1.7	0.2	0.2	3.6	2.5	
Prop In Lane	0.78	0.0	1.00	1.00	0.0	0.57	1.00	1.7	1.00	1.00	0.0	1.00	
Lane Grp Cap(c), veh/h		0	378	375	0	405	87	1226	515	21	1094	449	
V/C Ratio(X)	0.23	0.00	0.53	0.11	0.00	0.24	0.66	0.20	0.02	0.53	0.43	0.30	
Avail Cap(c_a), veh/h	1367	0.00	1382	1126	0.00	1508	349	3072	1290	282	2990	1227	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/vel		0.0	11.5	13.2	0.00	10.6	16.2	8.0	7.5	17.1	9.6	9.2	
Incr Delay (d2), s/veh	0.2	0.0	1.0	0.0	0.0	0.1	3.1	0.0	0.0	7.7	0.3	0.4	
Initial Q Delay(d3), s/vel		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	
%ile BackOfQ(50%),vel		0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
. ,			۲.۷	0.2	0.0	0.0	0.4	0.4	0.0	0.1	0.9	0.5	
Unsig. Movement Delay LnGrp Delay(d),s/veh	y, s/ven 11.6	0.0	12.5	13.2	0.0	10.8	19.3	8.1	7.5	24.7	9.9	9.6	
	н.ө В	0.0 A	12.5 B	IS.Z B	0.0 A	10.0 B	19.3 B	0.1 A	7.5 A	24.7 C	9.9 A		
LnGrp LOS	D		D	D		D	D		A	U		A	_
Approach Vol, veh/h		313			140			318			613		
Approach Delay, s/veh		12.2			11.5			10.1			10.1		
Approach LOS		В			В			В			В		
Timer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Rc)	), s4.4	17.5		12.8	5.7	16.2		12.8					
Change Period (Y+Rc),		5.5		4.5	4.0	* 5.5		* 4.5					
Max Green Setting (Gr		30.0		30.5	6.8	* 29		* 31					
Max Q Clear Time (g_c		3.7		5.8	3.1	5.6		6.4					
Green Ext Time (p_c), s		2.1		1.3	0.0	3.9		0.4					
Intersection Summary													
			10.7										
HCM 6th Ctrl Delay HCM 6th LOS			10.7 B										
			D										
Notes													

# Intersection

Intersection Delay, s/vel197.1 Intersection LOS F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		\$			\$			24	<b>1</b>		7	<b>1</b>		
Traffic Vol, veh/h	10	60	20	140	50	770	0	20	80	150	120	30	0	
Future Vol, veh/h	10	60	20	140	50	770	0	20	80	150	120	30	0	
Peak Hour Factor	0.73	0.73	0.73	0.94	0.94	0.94	0.92	0.92	0.92	0.92	0.92	0.92	0.92	
Heavy Vehicles, %	2	2	2	2	2	2	6	6	6	6	6	6	6	
Mvmt Flow	14	82	27	149	53	819	0	22	87	163	130	33	0	
Number of Lanes	0	1	0	0	1	0	0	1	2	0	1	2	0	
Approach	EB			WB				NB			SB			
Opposing Approach	WB			EB				SB			NB			
Opposing Lanes	1			1				3			3			
Conflicting Approach Le	eft SB			NB				EB			WB			
Conflicting Lanes Left	3			3				1			1			
Conflicting Approach Ri	ightNB			SB				WB			EB			
Conflicting Lanes Right	3			3				1			1			
HCM Control Delay	12.6			297.1				14.3			14.9			
HCM LOS	В			F				В			В			

Lane	NBLn1	NBLn2	NBLn3	EBLn1V	VBLn1	SBLn1	SBLn2	SBLn3
Vol Left, %	100%	0%	0%	11%	15%	100%	0%	0%
Vol Thru, %	0%	100%	15%	67%	5%	0%	100%	100%
Vol Right, %	0%	0%	85%	22%	80%	0%	0%	0%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	20	53	177	90	960	120	15	15
LT Vol	20	0	0	10	140	120	0	0
Through Vol	0	53	27	60	50	0	15	15
RT Vol	0	0	150	20	770	0	0	0
Lane Flow Rate	22	58	192	123	1021	130	16	16
Geometry Grp	7	7	7	7	7	7	7	7
Degree of Util (X)	0.046	0.115	0.35	0.231	1.61	0.284	0.033	0.025
Departure Headway (Hd)	9.234	8.706	8.079	7.636	5.674	9.48	8.95	7.041
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Сар	390	414	449	473	654	382	403	511
Service Time	6.934	6.406	5.779	5.336	3.374	7.18	6.65	4.741
HCM Lane V/C Ratio	0.056	0.14	0.428	0.26	1.561	0.34	0.04	0.031
HCM Control Delay	12.4	12.5	15.1	12.6	297.1	15.9	12	9.9
HCM Lane LOS	В	В	С	В	F	С	В	А
HCM 95th-tile Q	0.1	0.4	1.5	0.9	55.3	1.2	0.1	0.1

	٠	-	7	4	+	•	1	t	1	4	ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	A	1	1	7	ţ,		ă.	ħ		7	ħ		
Traffic Volume (veh/h)	280	190	30	40	230	130	220	290	190	80	10	30	
Future Volume (veh/h)	280	190	30	40	230	130	220	290	190	80	10	30	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	Ū	0.98	0.99	·	0.99	1.00	v	0.97	1.00	v	0.97	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No	1.00	1.00	No	1.00	1.00	No	1.00	1.00	No	1.00	
Adj Sat Flow, veh/h/ln	1575	1870	1870	1870	1870	1870	1575	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	346	235	37	67	383	217	250	330	216	133	1070	50	
Peak Hour Factor	0.81	0.81	0.81	0.60	0.60	0.60	0.88	0.88	0.88	0.60	0.60	0.60	
Percent Heavy Veh, %	2	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		714	592	389	426		277	404	265	164	120	354	
Cap, veh/h	109					241							
Arrive On Green	0.38	0.38	0.38	0.38	0.38	0.38	0.18	0.39	0.39	0.09	0.30	0.30	
Sat Flow, veh/h	689	1870	1552	1095	1115	632	1500	1042	682	1781	408	1199	
Grp Volume(v), veh/h	346	235	37	67	0	600	250	0	546	133	0	67	
Grp Sat Flow(s),veh/h/li		1870	1552	1095	0	1747	1500	0	1724	1781	0	1607	
Q Serve(g_s), s	6.1	9.3	1.6	4.8	0.0	33.9	17.1	0.0	29.7	7.7	0.0	3.2	
Cycle Q Clear(g_c), s	40.0	9.3	1.6	14.1	0.0	33.9	17.1	0.0	29.7	7.7	0.0	3.2	
Prop In Lane	1.00		1.00	1.00		0.36	1.00		0.40	1.00		0.75	
Lane Grp Cap(c), veh/h	n 109	714	592	389	0	667	277	0	669	164	0	475	
V/C Ratio(X)	3.18	0.33	0.06	0.17	0.00	0.90	0.90	0.00	0.82	0.81	0.00	0.14	
Avail Cap(c_a), veh/h	109	714	592	389	0	667	429	0	987	510	0	920	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00	
Uniform Delay (d), s/vel	h 51.3	22.9	20.5	27.9	0.0	30.5	41.8	0.0	28.7	46.7	0.0	27.2	
Incr Delay (d2), s/veh 1		0.5	0.1	0.1	0.0	14.9	11.1	0.0	7.3	3.7	0.0	0.2	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh		4.2	0.6	1.3	0.0	16.6	7.1	0.0	13.3	3.6	0.0	1.3	
Unsig. Movement Delay				-									
LnGrp Delay(d),s/veh 1		23.4	20.6	28.0	0.0	45.4	52.9	0.0	36.0	50.4	0.0	27.4	
LnGrp LOS	F	C	C	20.0 C	A	D	02.0 D	A	D	D	A	C	
Approach Vol, veh/h		618	Ű		667			796			200	<u> </u>	
Approach Delay, s/veh		601.4			43.7			41.3			42.7		
Approach LOS		5001.4			43.7 D			чт.5 D			42.7 D		
Timer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Rc)	, ·	45.9		44.9	23.8	36.2		44.9					
Change Period (Y+Rc),		* 5.2		4.9	4.4	5.2		4.9					
Max Green Setting (Gm		* 60		40.0	30.0	60.0		40.0					
Max Q Clear Time (g_c		31.7		42.0	19.1	5.2		35.9					
Green Ext Time (p_c), s	s 0.2	9.0		0.0	0.3	0.7		1.2					
Intersection Summary													
HCM 6th Ctrl Delay			193.9										
HCM 6th LOS			F										

	۲	+	*	4	+	*	1	1	1	1	ŧ	~
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	٦	<b>†</b> ‡		7	<b>†</b> ‡		٦	4 Pr		٦	-f†	7
Traffic Volume (veh/h)	240	1440	110	40	480	350	790	970	550	620	100	190
Future Volume (veh/h)	240	1440	110	40	480	350	790	970	550	620	100	190
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.98	1.00		0.97	1.00		0.98	1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1841	1841	1841	1841	1841	1841	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	282	1694	129	47	558	407	811	1051	579	667	108	204
Peak Hour Factor	0.85	0.85	0.85	0.86	0.86	0.86	0.95	0.95	0.95	0.93	0.93	0.93
Percent Heavy Veh, %	4	4	4	4	4	4	2	2	2	2	2	2
Cap, veh/h	470	1790	135	49	562	410	623	802	420	455	239	621
Arrive On Green	0.27	0.54	0.54	0.03	0.30	0.30	0.35	0.35	0.35	0.13	0.13	0.13
Sat Flow, veh/h	1753	3290	248	1753	1898	1385	1781	2291	1200	3563	1870	1531
Grp Volume(v), veh/h	282	891	932	47	514	451	811	848	782	667	108	204
Grp Sat Flow(s),veh/h/ln	1753	1749	1789	1753	1749	1534	1781	1870	1621	1781	1870	1531
Q Serve(g_s), s	25.2	85.3	89.2	4.8	52.8	52.8	63.0	63.0	63.0	23.0	9.6	0.0
Cycle Q Clear(g_c), s	25.2	85.3	89.2	4.8	52.8	52.8	63.0	63.0	63.0	23.0	9.6	0.0
Prop In Lane	1.00		0.14	1.00		0.90	1.00		0.74	1.00		1.00
Lane Grp Cap(c), veh/h	470	951	973	49	518	454	623	655	567	455	239	621
V/C Ratio(X)	0.60	0.94	0.96	0.97	0.99	0.99	1.30	1.30	1.38	1.47	0.45	0.33
Avail Cap(c_a), veh/h	470	951	973	49	518	454	623	655	567	455	239	621
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	0.09	0.09	0.09	1.00	1.00	1.00
Uniform Delay (d), s/veh	57.4	38.2	39.1	87.4	63.2	63.2	58.5	58.5	58.5	78.5	72.7	37.7
Incr Delay (d2), s/veh	1.5	17.4	20.2	115.0	37.8	40.5	136.5	133.9	171.6	221.1	0.5	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/In	11.3	39.6	42.8	3.7	28.5	25.3	51.2	53.3	52.1	24.3	4.6	6.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	58.9	55.6	59.3	202.4	101.0	103.6	195.0	192.4	230.1	299.6	73.2	37.8
LnGrp LOS	E	E	E	F	F	F	F	F	F	F	E	D
Approach Vol, veh/h		2105			1012			2441			979	
Approach Delay, s/veh		57.7			106.9			205.3			220.1	
Approach LOS		E			F			F			F	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	9.4	104.1		29.0	54.5	59.0		69.0				
Change Period (Y+Rc), s	4.4	5.3		6.0	5.3	* 5.7		6.0				
Max Green Setting (Gmax), s	5.0	67.3		23.0	18.6	* 53		63.0				
Max Q Clear Time (g_c+I1), s	6.8	91.2		25.0	27.2	54.8		65.0				
Green Ext Time (p_c), s	0.0	0.0		0.0	0.0	0.0		0.0				
Intersection Summary												
HCM 6th Ctrl Delay			144.8									
HCM 6th LOS			F									

User approved volume balancing among the lanes for turning movement. * HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

	-	7	4	+	1	1			
Movement	EBT	EBR	WBL	WBT	NBL	NBR			
Lane Configurations	<b>^</b>	1	ሻሻ	<b>^</b>	٦Y	1			
Traffic Volume (veh/h)	1250	1010	80	90	780	960			
Future Volume (veh/h)	1250	1010	80	90	780	960			
Initial Q (Qb), veh	0	0	0	0	0	0			
Ped-Bike Adj(A_pbT)		0.97	1.00		1.00	1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approa	ch No			No	No				
Adj Sat Flow, veh/h/ln	1841	1841	1841	1841	1870	1870			
Adj Flow Rate, veh/h	1420	1148	89	100	592	1199			
Peak Hour Factor	0.88	0.88	0.90	0.90	0.98	0.98			
Percent Heavy Veh, %	4	4	4	4	2	2			
Cap, veh/h	1529	665	499	2164	584	1504			
Arrive On Green	0.44	0.44	0.15	0.62	0.33	0.33			
Sat Flow, veh/h	3589	1521	3401	3589	1781	3170			
Grp Volume(v), veh/h	1420	1148	89	100	592	1199			
Grp Sat Flow(s),veh/h/l		1521	1700	1749	1781	1585			
Q Serve(g_s), s	69.2	78.7	4.1	2.0	59.0	31.1			
Cycle Q Clear(g_c), s	69.2	78.7	4.1	2.0	59.0	31.1			
Prop In Lane		1.00	1.00		1.00	1.00			
Lane Grp Cap(c), veh/h	n 1529	665	499	2164	584	1504			
V/C Ratio(X)	0.93	1.73	0.18	0.05	1.01	0.80			
Avail Cap(c_a), veh/h	1529	665	529	2164	584	1504			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00			
Uniform Delay (d), s/ve		50.7	67.3	13.5	60.5	40.0			
Incr Delay (d2), s/veh	11.3		0.1	0.0	40.8	3.0			
Initial Q Delay(d3),s/vel		0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),ve		90.6	1.8	0.8	32.7	10.9			
Unsig. Movement Dela									
LnGrp Delay(d),s/veh		383.9	67.4	13.5	101.3	43.0			
LnGrp LOS	E	F	E	В	F	D			
Approach Vol, veh/h	2568			189	1791				
Approach Delay, s/veh				38.9	62.2				
Approach LOS	F			D	E				
					_				
Timer - Assigned Phs	1	2				6	8		
Phs Duration (G+Y+Rc		85.0				117.0	63.0		
Change Period (Y+Rc)		* 6.3				5.6	4.0		
Max Green Setting (Gn		* 79				101.9	59.0		
Max Q Clear Time (g_c						4.0	61.0		
Green Ext Time (p_c),	s 0.1	0.0				1.1	0.0		
Intersection Summary									
HCM 6th Ctrl Delay			141.5						
HCM 6th LOS			141.5 F						
			I						

User approved volume balancing among the lanes for turning movement.

User approved ignoring U-Turning movement.

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Avail Capic_a), veh/h       1106       0       2195       686       0       0       3984       3373       2741       164       1357       1147         HCM Platoon Ratio       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       <		٠	+	7	4	+	٩	1	t	1	4	ţ	~	
Traffic Volume (veh/h)       90       10       1030       10       0       0       240       20       10       0       10       60         Future Volume (veh/h)       90       10       1030       10       0       240       20       10       0       10       60         Parking Bus, Agi       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100	Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Traffic Volume (veh/h)       90       10       1030       10       0       0       240       20       10       0       10       60         Future Volume (veh/h)       90       10       1030       10       0       240       20       10       0       10       60         Parking Bus, Agi       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       111       111	Lane Configurations		ŧ	11		\$		ኘኘ	1	1	5	<b>≜</b> 1₽		
Initial Q (Qb), veh       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0		90	10		10		0				0		60	
Ped-Bike Adj(A, pbT)       0.99       0.99       1.00       1.00       1.00       1.00       0.00       0.96       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00 <th< td=""><td>Future Volume (veh/h)</td><td>90</td><td>10</td><td>1030</td><td>10</td><td>0</td><td>0</td><td>240</td><td>20</td><td>10</td><td>0</td><td>10</td><td>60</td><td></td></th<>	Future Volume (veh/h)	90	10	1030	10	0	0	240	20	10	0	10	60	
Parking Bus, Adj       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.01       1.01       1.01       1.0	Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Work Zone On Approach         No         No         No         No         No         No           Adj Sat Flow, vehrhin         1826         1826         1870         1870         1870         1811         1811         1811         1811         1811         1811         1811         1811         1811         1811         1811         1811         1811         1811         1811         1811         1811         1811         1811         1811         1811         1811         1811         1811         1811         1811         1811         1811         1811         1811         1811         1811         1811         1811         1811         1811         1811         1811         1811         1811         1811         1811         1811         1811         1811         1811         1811         1811         1811         1811         1811         1811         1811         1811         1811         1811         1811         1811         1817         1811         1812         1811         1812         1811         1812         1811         1817         1811         1817         1811         1817         1811         1817         1811         1812         1811         1811         18	Ped-Bike Adj(A_pbT)	0.99		0.99	1.00		1.00	1.00		0.96	1.00		0.95	
Adj Sat Flow, veh/h/n       1826       1826       1826       1870       1870       1811       1811       1811       1870       1870       1870         Adj Flow Rate, veh/h       100       11       1144       40       0       0       251       22       21       10       0       11       65         Peak Hour Factor       0.90       0.90       0.25       0.25       0.29       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       <	Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Adj       Flow Rate, veh/h       100       11       114       40       0       0       261       22       11       0       11       65         Peak Hour Factor       0.90       0.90       0.25       0.25       0.25       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.110       0.10	Work Zone On Approac	h	No			No			No			No		
Peak Hour Factor       0.90       0.90       0.25       0.25       0.25       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.9	Adj Sat Flow, veh/h/ln	1826	1826	1826	1870	1870	1870	1811		1811	1870	1870	1870	
Percent Heavy Veh, %       5       5       5       2       2       2       6       6       6       2       2       2         Cap, veh/h       678       67       1503       337       0       0       541       690       561       4       189       160         Arrive On Green       0.39       0.39       0.39       0.39       0.00       0.00       0.16       0.38       0.38       0.00       0.11       0.11         Sat Flow, weh/h       1325       169       2706       435       0       0       261       22       11       0       111       05         Grp Sat Flow, (s), weh/h       111       0       1144       40       0       0       261       22       11       0       111       65         Grp Sat Flow, (s), weh/h       100       0.00       7.1       2.5       0.0       0.0       31       0.3       0.2       0.0       0.2       1.8         Cycle Q Clear(g.c), s       1.0       0.0       7.1       4.3       0.0       0.0       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00	Adj Flow Rate, veh/h	100	11	1144	40	0	0	261	22	11	0	11	65	
Cap, veh/h       678       67       1503       337       0       0       541       690       561       4       189       160         Arrive On Green       0.39       0.39       0.39       0.00       0.00       0.16       0.38       0.38       0.00       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.11       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       <	Peak Hour Factor	0.90	0.90	0.90	0.25	0.25	0.25	0.92	0.92	0.92	0.92	0.92	0.92	
Arrive On Green       0.39       0.39       0.39       0.39       0.39       0.00       0.16       0.38       0.38       0.00       0.11       0.11         Sat Flow, veh/h       1325       169       2706       435       0       0       3346       1811       1472       1781       1777       1502         Grp Volume(v), veh/h       111       0       1144       40       0       0       261       22       11       0       11       65         Grp Sat Flow(s), veh/h/1495       0       1353       435       0       0       761       1811       1472       1781       1777       1502         Q Serve(g.s), s       0.0       0.0       7.1       2.5       0.0       0.0       3.1       0.3       0.2       0.0       0.2       1.8         Prop In Lane       0.90       1.00       1.00       0.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00	Percent Heavy Veh, %					2	2							
Sat Flow, veh/h       1325       169       2706       435       0       0       3346       1811       1472       1781       1777       1502         Grp Volume(v), veh/h       111       0       1144       40       0       0       261       22       11       0       11       65         Grp Sat Flow(s), veh/h/In1495       0       1353       435       0       0       1673       1811       1472       1781       1777       1502         Q Serve(gs), s       0.0       0.71       2.5       0.0       0.0       3.1       0.3       0.2       0.0       0.2       1.8         Cycle Q Clear(gc), s       1.8       0.0       7.1       2.5       0.0       0.0       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00		678	67	1503	337		0	541						
Grp Volume(v), veh/h       111       0       1144       40       0       0       261       22       11       0       11       65         Grp Sat Flow(s), veh/h/in1495       0       1353       435       0       0       1673       1811       1472       1781       1777       1502         Q Serve(g.s), s       0.0       0.0       7.1       2.5       0.0       0.0       3.1       0.3       0.2       0.0       0.2       1.8         Cycle Q Clear(g.c), s       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00         Lane Grp Cap(c), veh/h       745       0       1503       337       0       0       541       690       561       4       189       160         V/C Ratio(X)       0.15       0.00       0.76       0.12       0.00       0.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00						0.00	0.00							
Grp Sat Flow(s), veh/h/ln1495       0       1353       435       0       0       1673       1811       1472       1781       1777       1502         Q Serve(g_s), s       0.0       0.0       7.1       2.5       0.0       0.0       3.1       0.3       0.2       0.0       0.2       1.8         Cycle Q Clear(g_c), s       1.8       0.0       7.1       4.3       0.0       0.0       3.1       0.3       0.2       0.0       0.2       1.8         Prop In Lane       0.90       1.00       1.00       0.00       1.00       1.00       1.00       1.00         Lane Grp Cap(c), veh/h       745       0       1503       337       0       0       541       690       561       4       189       160         V/C Ratio(X)       0.15       0.00       0.76       0.12       0.00       0.048       0.03       0.02       0.00       0.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00<	Sat Flow, veh/h	1325	169	2706	435	0	0	3346	1811	1472	1781	1777	1502	
Q Serve(g_s), s       0.0       0.0       7.1       2.5       0.0       0.0       3.1       0.3       0.2       0.0       0.2       1.8         Cycle Q Clear(g_c), s       1.8       0.0       7.1       4.3       0.0       0.0       3.1       0.3       0.2       0.0       0.2       1.8         Prop In Lane       0.90       1.00       1.00       0.00       1.00       1.00       1.00       1.00         Lane Grp Cap(c), veh/h       745       0       1503       337       0       0       541       690       561       4       189       160         V/C Ratio(X)       0.15       0.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00	Grp Volume(v), veh/h	111	0	1144	40	0	0	261	22	11	0	11	65	
Cycle Q Clear(g, c), s       1.8       0.0       7.1       4.3       0.0       0.0       3.1       0.3       0.2       0.0       0.2       1.8         Prop In Lane       0.90       1.00       1.00       0.00       1.00       1.00       1.00       1.00         Lane Grp Cap(c), veh/h       745       0       1503       337       0       0       541       690       561       4       189       160         V/C Ratio(X)       0.15       0.00       0.76       0.12       0.00       0.04       4.03       0.00       0.04         Avail Cap(c, a), veh/h       106       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1	Grp Sat Flow(s),veh/h/lr	า1495	0	1353	435	0	0	1673	1811	1472	1781	1777	1502	
Prop In Lane       0.90       1.00       1.00       1.00       1.00       1.00       1.00       1.00         Lane Grp Cap(c), veh/h       745       0       1503       337       0       0       541       690       561       4       189       160         V/C Ratio(X)       0.15       0.00       0.76       0.12       0.00       0.048       0.03       0.02       0.00       0.06       0.41         Avail Cap(c_a), veh/h       1106       0       2195       686       0       0       3984       3373       2741       164       1357       1147         HCM Platoon Ratio       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00	Q Serve(g_s), s	0.0	0.0	7.1	2.5	0.0	0.0	3.1	0.3	0.2	0.0	0.2	1.8	
Lane Grp Cap(c), veh/h 745 0 1503 337 0 0 541 690 561 4 189 160 V/C Ratio(X) 0.15 0.00 0.76 0.12 0.00 0.048 0.03 0.02 0.00 0.06 0.41 Avail Cap(c_a), veh/h 1106 0 2195 686 0 0 3984 3373 2741 164 1357 1147 HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Cycle Q Clear(g_c), s	1.8	0.0	7.1	4.3	0.0	0.0	3.1	0.3	0.2	0.0	0.2	1.8	
V/C Ratio X       0.15       0.00       0.76       0.12       0.00       0.48       0.03       0.02       0.00       0.41         Avail Cap(c_a), veh/h       1106       0       2195       686       0       0       3984       3373       2741       164       1357       1147         HCM Platoon Ratio       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00	Prop In Lane	0.90		1.00	1.00		0.00	1.00		1.00	1.00		1.00	
Avail Cap(c_a), veh/h       1106       0       2195       686       0       0       3984       3373       2741       164       1357       1147         HCM Platoon Ratio       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       1.00       1.00       1.00       1.00       1.00       1.00 <t< td=""><td>Lane Grp Cap(c), veh/h</td><td>745</td><td>0</td><td>1503</td><td>337</td><td>0</td><td>0</td><td>541</td><td>690</td><td>561</td><td>4</td><td>189</td><td>160</td><td></td></t<>	Lane Grp Cap(c), veh/h	745	0	1503	337	0	0	541	690	561	4	189	160	
HCM Platoon Ratio       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1	V/C Ratio(X)	0.15	0.00	0.76	0.12	0.00	0.00	0.48	0.03	0.02	0.00	0.06	0.41	
Upstream Filter(I)       1.00       0.00       1.00       0.00       1.00       1.00       1.00       1.00       1.00       1.00         Uniform Delay (d), s/veh       8.5       0.0       7.4       9.9       0.0       0.0       16.5       8.4       8.4       0.0       17.4       18.1         Incr Delay (d2), s/veh       0.1       0.0       1.2       0.1       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0	Avail Cap(c_a), veh/h	1106	0	2195	686	0	0	3984	3373	2741	164	1357	1147	
Uniform Delay (d), s/veh       8.5       0.0       7.4       9.9       0.0       16.5       8.4       8.4       0.0       17.4       18.1         Incr Delay (d2), s/veh       0.1       0.0       1.2       0.1       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0	HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Incr Delay (d2), s/veh       0.1       0.0       1.2       0.1       0.0       0.2       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0	Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	0.00	1.00	1.00	1.00	0.00	1.00	1.00	
Initial Q Delay(d3),s/veh       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0 <t< td=""><td>Uniform Delay (d), s/veł</td><td>n 8.5</td><td>0.0</td><td>7.4</td><td>9.9</td><td>0.0</td><td>0.0</td><td>16.5</td><td>8.4</td><td>8.4</td><td>0.0</td><td>17.4</td><td></td><td></td></t<>	Uniform Delay (d), s/veł	n 8.5	0.0	7.4	9.9	0.0	0.0	16.5	8.4	8.4	0.0	17.4		
%ile BackOfQ(50%),veh/In0.5       0.0       2.7       0.2       0.0       0.0       1.0       0.1       0.0       0.1       0.6         Unsig. Movement Delay, s/veh       100       0.0       0.0       16.8       8.4       8.4       0.0       17.5       18.7         LnGrp Delay(d),s/veh       8.6       10.0       0.0       0.0       16.8       8.4       8.4       0.0       17.5       18.7         LnGrp LOS       A       A       A       A       A       B       A       A       B       B         Approach Vol, veh/h       1255       40       294       76         Approach LOS       A       A       A       B       B       B         Approach LOS       A       A       A       B       B       B         Timer - Assigned Phs       1       2       4       5       6       8         Phs Duration (G+Y+Rc), so.0       21.4       21.9       11.9       9.5       21.9       Change Period (Y+Rc), s 4.4       4.9       4.9       4.9       4.9       4.9       4.9       4.9       Max Green Setting (Gmax), 6       80.7       28.1       51.6       * 33       48.1       4.9 <td< td=""><td>Incr Delay (d2), s/veh</td><td>0.1</td><td></td><td>1.2</td><td>0.1</td><td>0.0</td><td></td><td></td><td></td><td></td><td>0.0</td><td></td><td></td><td></td></td<>	Incr Delay (d2), s/veh	0.1		1.2	0.1	0.0					0.0			
Unsig. Movement Delay, s/veh         LnGrp Delay(d),s/veh       8.6       0.0       8.6       10.0       0.0       16.8       8.4       8.4       0.0       17.5       18.7         LnGrp LOS       A       A       A       A       A       B       A       A       B       B         Approach Vol, veh/h       1255       40       294       76         Approach Delay, s/veh       8.6       10.0       15.8       18.5         Approach LOS       A       A       A       B       B         Timer - Assigned Phs       1       2       4       5       6       8         Phs Duration (G+Y+Rc), s0.0       21.4       21.9       11.9       9.5       21.9       Change Period (Y+Rc), s 4.4       4.9       4.9       4.9         Max Green Setting (Gmax), 8       80.7       28.1       51.6       * 33       48.1         Max Q Clear Time (g_c+I10, 8       2.3       9.1       5.1       3.8       6.3       Green Ext Time (p_c), s 0.0       0.2       8.0       0.5       0.3       0.5         Intersection Summary       HCM 6th Ctrl Delay       10.4       10.4       10.4       10.4	Initial Q Delay(d3),s/veh	n 0.0												
LnGrp Delay(d),s/veh       8.6       0.0       8.6       10.0       0.0       16.8       8.4       8.4       0.0       17.5       18.7         LnGrp LOS       A       A       A       A       A       B       A       A       B       B         Approach Vol, veh/h       1255       40       294       76         Approach Delay, s/veh       8.6       10.0       15.8       18.5         Approach LOS       A       A       B       B       B         Timer - Assigned Phs       1       2       4       5       6       8         Phs Duration (G+Y+Rc), s0.0       21.4       21.9       11.9       9.5       21.9       10.0       10.0       10.0         Change Period (Y+Rc), s 4.4       4.9       4.9       4.9       4.9       4.9       4.9       4.9       4.9       4.9       4.9       4.9       4.9       4.9       4.9       4.9       4.9       4.9       4.9       4.9       4.9       4.9       4.9       4.9       4.9       4.9       4.9       4.9       4.9       4.9       4.9       4.9       4.9       4.9       4.9       4.9       4.9       4.9       4.9	%ile BackOfQ(50%),veh	n/lr0.5	0.0	2.7	0.2	0.0	0.0	1.0	0.1	0.0	0.0	0.1	0.6	
LnGrp LOS       A       A       A       A       A       A       A       A       B       A       A       B       B         Approach Vol, veh/h       1255       40       294       76         Approach Delay, s/veh       8.6       10.0       15.8       18.5         Approach LOS       A       A       B       B         Timer - Assigned Phs       1       2       4       5       6       8         Phs Duration (G+Y+Rc), s0.0       21.4       21.9       11.9       9.5       21.9       1.9         Change Period (Y+Rc), s 4.4       4.9       4.9       4.9       4.9       4.9       4.9         Max Green Setting (Gmax), 6       80.7       28.1       51.6       * 33       48.1         Max Q Clear Time (g_c+I10, 0s       2.3       9.1       5.1       3.8       6.3         Green Ext Time (p_c), s       0.0       0.2       8.0       0.5       0.3       0.5         Intersection Summary       HCM 6th Ctrl Delay       10.4       10.4       10.4														
Approach Vol, veh/h       1255       40       294       76         Approach Delay, s/veh       8.6       10.0       15.8       18.5         Approach LOS       A       A       B       B         Timer - Assigned Phs       1       2       4       5       6       8         Phs Duration (G+Y+Rc), s0.0       21.4       21.9       11.9       9.5       21.9         Change Period (Y+Rc), s       4.4       4.9       4.9       4.9         Max Green Setting (Gmax¥, s       80.7       28.1       51.6       * 33       48.1         Max Q Clear Time (g_c+I10, s       2.3       9.1       5.1       3.8       6.3         Green Ext Time (p_c), s       0.0       0.2       8.0       0.5       0.3       0.5         Intersection Summary       HCM 6th Ctrl Delay       10.4       10.4       10.4       10.4	,		0.0	8.6	10.0	0.0	0.0	16.8				17.5		
Approach Delay, s/veh       8.6       10.0       15.8       18.5         Approach LOS       A       A       B       B         Timer - Assigned Phs       1       2       4       5       6       8         Timer - Assigned Phs       1       2       4       5       6       8         Phs Duration (G+Y+Rc), s0.0       21.4       21.9       11.9       9.5       21.9         Change Period (Y+Rc), s 4.4       4.9       4.9       4.9       4.9         Max Green Setting (Gmax¥, 6       80.7       28.1       51.6       * 33       48.1         Max Q Clear Time (g_c+I10, 0s       2.3       9.1       5.1       3.8       6.3         Green Ext Time (p_c), s       0.0       0.2       8.0       0.5       0.3       0.5         Intersection Summary       HCM 6th Ctrl Delay       10.4       10.4       10.4       10.4	LnGrp LOS	Α		A	A	A	A	В	A	A	A	В	В	
Approach LOS       A       A       B       B         Timer - Assigned Phs       1       2       4       5       6       8         Phs Duration (G+Y+Rc), s0.0       21.4       21.9       11.9       9.5       21.9         Change Period (Y+Rc), s 4.4       4.9       4.9       4.9       4.9         Max Green Setting (Gmax¥, 6       80.7       28.1       51.6       *33       48.1         Max Q Clear Time (g_c+I10, 0s       2.3       9.1       5.1       3.8       6.3         Green Ext Time (p_c), s       0.0       0.2       8.0       0.5       0.3       0.5         Intersection Summary       HCM 6th Ctrl Delay       10.4       10.4       10.4       10.4	Approach Vol, veh/h		1255			40			294			76		
Timer - Assigned Phs       1       2       4       5       6       8         Phs Duration (G+Y+Rc), s0.0       21.4       21.9       11.9       9.5       21.9         Change Period (Y+Rc), s       4.4       4.9       4.9       4.9       4.9         Max Green Setting (Gmax¥, 6       80.7       28.1       51.6       * 33       48.1         Max Q Clear Time (g_c+110, 0s       2.3       9.1       5.1       3.8       6.3         Green Ext Time (p_c), s       0.0       0.2       8.0       0.5       0.3       0.5         Intersection Summary       HCM 6th Ctrl Delay       10.4       10.4	Approach Delay, s/veh		8.6			10.0			15.8			18.5		
Phs Duration (G+Y+Rc), s0.0       21.4       21.9       11.9       9.5       21.9         Change Period (Y+Rc), s       4.4       4.9       4.9       4.9       4.9         Max Green Setting (Gmax¥, 6       80.7       28.1       51.6       * 33       48.1         Max Q Clear Time (g_c+I10, 0s       2.3       9.1       5.1       3.8       6.3         Green Ext Time (p_c), s       0.0       0.2       8.0       0.5       0.3       0.5         Intersection Summary       HCM 6th Ctrl Delay       10.4       10.4       10.4       10.4	Approach LOS		А			А			В			В		
Change Period (Y+Rc), s 4.4       4.9       4.9       4.9       4.9         Max Green Setting (Gmax¥, 6       80.7       28.1       51.6       * 33       48.1         Max Q Clear Time (g_c+I10, 0s       2.3       9.1       5.1       3.8       6.3         Green Ext Time (p_c), s       0.0       0.2       8.0       0.5       0.5         Intersection Summary       HCM 6th Ctrl Delay       10.4	Timer - Assigned Phs	1	2		4	5	6		8					
Change Period (Y+Rc), s 4.4       4.9       4.9       4.9       4.9         Max Green Setting (Gmax¥, 6       80.7       28.1       51.6       * 33       48.1         Max Q Clear Time (g_c+I10, 0s       2.3       9.1       5.1       3.8       6.3         Green Ext Time (p_c), s       0.0       0.2       8.0       0.5       0.5         Intersection Summary       HCM 6th Ctrl Delay       10.4		, s0.0	21.4		21.9		9.5		21.9					
Max Green Setting (Gmax¥, 8       80.7       28.1       51.6       * 33       48.1         Max Q Clear Time (g_c+I10, 0s       2.3       9.1       5.1       3.8       6.3         Green Ext Time (p_c), s       0.0       0.2       8.0       0.5       0.5         Intersection Summary       HCM 6th Ctrl Delay       10.4														
Max Q Clear Time (g_c+I 10,0s       2.3       9.1       5.1       3.8       6.3         Green Ext Time (p_c), s       0.0       0.2       8.0       0.5       0.5         Intersection Summary       HCM 6th Ctrl Delay       10.4														
Green Ext Time (p_c), s         0.0         0.2         8.0         0.5         0.5           Intersection Summary         HCM 6th Ctrl Delay         10.4         10.4														
HCM 6th Ctrl Delay 10.4	(0-													
HCM 6th Ctrl Delay 10.4	Intersection Summary													
				10.4										
HCM 6th LOS B	HCM 6th LOS			В										

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

	٠	-	7	4	+	•	1	t	1	4	ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	A	<b>^</b>	1	à	<b>^</b>	1		4			र्स	1	
Traffic Volume (veh/h)	10	1030	0	70	1040	90	0	0	30	80	0	10	
Future Volume (veh/h)		1030	0	70	1040	90	0	0	30	80	0	10	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	•	1.00	1.00	•	0.98	1.00	•	1.00	1.00	•	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approa		No			No	1.00		No			No		
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	11	1144	0	72	1072	93	0	0	91	94	0	12	
Peak Hour Factor	0.90	0.90	0.90	0.97	0.97	0.97	0.33	0.33	0.33	0.85	0.85	0.85	
Percent Heavy Veh, %		2	2	2	2	2	2	2	2	2	2	2	
Cap, veh/h	17	2041	911	370	2778	1213	0	0	216	149	0	216	
Arrive On Green	0.01	0.57	0.00	0.42	1.00	1.00	0.00	0.00	0.14	0.14	0.00	0.14	
	1781	3554	1585	1781	3554	1552		0.00	1585	801	0.00	1585	
Sat Flow, veh/h							0						
Grp Volume(v), veh/h	11	1144	0	72	1072	93	0	0	91	94	0	12	
Grp Sat Flow(s),veh/h/		1777	1585	1781	1777	1552	0	0	1585	801	0	1585	
Q Serve(g_s), s	1.1	36.4	0.0	4.6	0.0	0.0	0.0	0.0	9.5	12.8	0.0	1.2	
Cycle Q Clear(g_c), s	1.1	36.4	0.0	4.6	0.0	0.0	0.0	0.0	9.5	22.3	0.0	1.2	
Prop In Lane	1.00		1.00	1.00		1.00	0.00		1.00	1.00		1.00	
Lane Grp Cap(c), veh/		2041	911	370	2778	1213	0	0	216	149	0	216	
V/C Ratio(X)	0.66	0.56	0.00	0.19	0.39	0.08	0.00	0.00	0.42	0.63	0.00	0.06	
Avail Cap(c_a), veh/h	99	2041	911	370	2778	1213	0	0	335	247	0	335	
HCM Platoon Ratio	1.00	1.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	1.00	0.00	0.80	0.80	0.80	0.00	0.00	1.00	1.00	0.00	1.00	
Uniform Delay (d), s/ve	eh 88.9	24.0	0.0	43.0	0.0	0.0	0.0	0.0	71.2	81.4	0.0	67.7	
Incr Delay (d2), s/veh	15.0	1.1	0.0	0.1	0.3	0.1	0.0	0.0	0.5	1.6	0.0	0.0	
Initial Q Delay(d3),s/ve	h 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),ve		15.2	0.0	2.0	0.1	0.0	0.0	0.0	3.9	4.4	0.0	0.5	
Unsig. Movement Dela		1											
LnGrp Delay(d),s/veh		25.2	0.0	43.1	0.3	0.1	0.0	0.0	71.7	83.1	0.0	67.7	
LnGrp LOS	F	C	A	D	A	A	A	A	E	F	A	E	
Approach Vol, veh/h	•	1155		_	1237			91	_		106	_	
Approach Delay, s/veh		25.9			2.8			71.7			81.3		
Approach LOS		23.9 C			2.0 A			Ε			01.5 F		
		-									Г		
Timer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Ro				28.5		145.8		28.5					
Change Period (Y+Rc)		* 5.6		4.0	4.0	5.1		4.0					
Max Green Setting (Gr	ma <b>25,.G</b>	* 1E2		38.0	10.0	118.9		38.0					
Max Q Clear Time (g_o	c+116),6s	38.4		24.3	3.1	2.0		11.5					
Green Ext Time (p_c),	s 0.1	22.8		0.2	0.0	8.3		0.3					
Intersection Summary													
HCM 6th Ctrl Delay			18.7										
HCM 6th LOS			В										
Notes													

	٠	+	1	1	Ļ	*	1	t	1	1	ţ	4	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		<b>**</b>	1	27	- <b>†</b> †					5	\$	1	
Traffic Volume (veh/h)	0	760	260	930	770	0	0	0	0	830	10	700	
Future Volume (veh/h)	0	760	260	930	770	0	0	0	0	830	10	700	
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00				1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00	
Work Zone On Approac	h	No			No						No		
Adj Sat Flow, veh/h/ln	0	1870	1870	1870	1870	0				1870	1870	1870	
Adj Flow Rate, veh/h	0	844	280	1022	846	0				1108	0	495	
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91				0.95	0.95	0.95	
Percent Heavy Veh, %	0	2	2	2	2	0				2	2	2	
Cap, veh/h	0	1532	433	1042	2134	0				1183	0	527	
Arrive On Green	0.00	0.55	0.55	0.50	1.00	0.00				0.33	0.00	0.33	
Sat Flow, veh/h	0	5611	1585	3456	3647	0				3563	0	1585	
Grp Volume(v), veh/h	0	844	280	1022	846	0				1108	0	495	
Grp Sat Flow(s),veh/h/lr	n 0	1870	1585	1728	1777	0				1781	0	1585	
Q Serve(g_s), s	0.0	17.6	22.3	52.2	0.0	0.0				54.3	0.0	54.6	
Cycle Q Clear(g_c), s	0.0	17.6	22.3	52.2	0.0	0.0				54.3	0.0	54.6	
Prop In Lane	0.00		1.00	1.00		0.00				1.00		1.00	
Lane Grp Cap(c), veh/h	0	1532	433	1042	2134	0				1183	0	527	
V/C Ratio(X)	0.00	0.55	0.65	0.98	0.40	0.00				0.94	0.00	0.94	
Avail Cap(c_a), veh/h	0	1532	433	1042	2134	0				1364	0	607	
HCM Platoon Ratio	1.00	2.00	2.00	1.67	1.67	1.00				1.00	1.00	1.00	
Upstream Filter(I)	0.00	0.88	0.88	0.90	0.90	0.00				1.00	0.00	1.00	
Uniform Delay (d), s/veh	n 0.0	33.7	34.8	44.2	0.0	0.0				58.3	0.0	58.4	
Incr Delay (d2), s/veh	0.0	1.3	6.4	21.8	0.5	0.0				10.7	0.0	20.3	
Initial Q Delay(d3),s/veh	n 0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0	
%ile BackOfQ(50%),veh	n/In0.0	6.5	7.5	21.8	0.1	0.0				26.3	0.0	24.9	
Unsig. Movement Delay	, s/veh	ı											
LnGrp Delay(d),s/veh	0.0	34.9	41.2	66.0	0.5	0.0				68.9	0.0	78.6	
LnGrp LOS	А	С	D	Е	А	А				E	А	Е	
Approach Vol, veh/h		1124			1868						1603		
Approach Delay, s/veh		36.5			36.3						71.9		
Approach LOS		D			D						Е		
Timer - Assigned Phs	1	2		4		6							
Phs Duration (G+Y+Rc)	, <b>5</b> 9.0	56.1		64.9		115.1							
Change Period (Y+Rc),		7.0		5.1		7.0							
Max Green Setting (Gm		40.0		68.9		99.0							
Max Q Clear Time (g_c-				56.6		2.0							
Green Ext Time (p_c), s		3.7		3.2		3.6							
Intersection Summary													
HCM 6th Ctrl Delay			48.8										
HCM 6th LOS			D										

## Notes

User approved volume balancing among the lanes for turning movement. * HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

6: I-15 NB Off-ramp/I-15 NB On-ramp & Mercy Rd/Scripps Poway Pkwy timing Plan: PM PEAK

# クラッマナベベ イアントイ

		FDT	-					NDT		0.01	0.0.7	000	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ካካ	<b>†</b> †		<u> </u>	***	1	<u></u>	र्स	11				
Traffic Volume (veh/h)	10	1740	0	0	1880	920	10	10	1020	0	0	0	
Future Volume (veh/h)	10	1740	0	0	1880	920	10	10	1020	0	0	0	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0				
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.99	1.00		1.00				
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00				
Work Zone On Approac		No			No			No					
Adj Sat Flow, veh/h/ln	1870	1870	0	1870	1870	1870	1870	1870	1870				
Adj Flow Rate, veh/h	11	1851	0	0	1979	968	11	11	1085				
Peak Hour Factor	0.94	0.94	0.94	0.95	0.95	0.95	0.94	0.94	0.94				
Percent Heavy Veh, %	2	2	0	2	2	2	2	2	2				
Cap, veh/h	766	1830	0	647	3353	1028	61	64	1259				
Arrive On Green	0.22	0.51	0.00	0.00	0.66	0.66	0.03	0.03	0.03				
Sat Flow, veh/h	3456	3647	0	1781	5106	1565	1781	1870	3170				
Grp Volume(v), veh/h	11	1851	0	0	1979	968	11	11	1085				
Grp Sat Flow(s),veh/h/li	n1728	1777	0	1781	1702	1565	1781	1870	1585				
Q Serve(g_s), s	0.4	92.7	0.0	0.0	39.1	100.1	1.1	1.0	0.0				
Cycle Q Clear(g_c), s	0.4	92.7	0.0	0.0	39.1	100.1	1.1	1.0	0.0				
Prop In Lane	1.00		0.00	1.00		1.00	1.00		1.00				
Lane Grp Cap(c), veh/h	766	1830	0	647	3353	1028	61	64	1259				
V/C Ratio(X)	0.01	1.01	0.00	0.00	0.59	0.94	0.18	0.17	0.86				
Avail Cap(c_a), veh/h	766	1830	0	647	3353	1028	406	426	1874				
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00				
Upstream Filter(I)	0.45	0.45	0.00	0.00	1.00	1.00	1.00	1.00	1.00				
Uniform Delay (d), s/vel	n 54.7	43.7	0.0	0.0	17.3	27.8	84.5	84.5	49.7				
Incr Delay (d2), s/veh	0.0	17.0	0.0	0.0	0.8	17.1	0.5	0.5	1.9				
Initial Q Delay(d3),s/veh	n 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
%ile BackOfQ(50%),veh	n/In0.2	43.3	0.0	0.0	14.7	38.9	0.5	0.5	22.8				
Unsig. Movement Delay	/, s/veh	l –											
LnGrp Delay(d),s/veh	54.7	60.6	0.0	0.0	18.1	44.9	85.0	85.0	51.7				
LnGrp LOS	D	F	А	А	В	D	F	F	D				
Approach Vol, veh/h		1862			2947			1107					
Approach Delay, s/veh		60.6			26.9			52.3					
Approach LOS		Е			С			D					
Timer - Assigned Phs	1	2			5	6		8					
Phs Duration (G+Y+Rc)		98.7				124.2		11.2					
Change Period (Y+Rc),		* 6			44.0	* 6		5.1					
Max Green Setting (Gm		* 93				1.2E2		41.0					
Max Q Clear Time (g_c		93 94.7				102.1		3.1					
Green Ext Time (p_c), s		94.7 0.0			0.0	102.1		3.0					
	5 0.0	0.0			0.0	10.0		5.0					
Intersection Summary													
HCM 6th Ctrl Delay			42.3										
HCM 6th LOS			D										

## Notes

User approved volume balancing among the lanes for turning movement.

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

0.5

# Intersection

Int Delay, s/veh

N 4		FDT					NIDI	NDT			ODT	000	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations			7			7		<b>†</b> †Ъ		3	<b>††î</b> ₂		
Traffic Vol, veh/h	0	0	10	0	0	20	0	2460	30	10	1740	20	
Future Vol, veh/h	0	0	10	0	0	20	0	2460	30	10	1740	20	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	5	5	0	0	
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free	
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None	
Storage Length	-	-	0	-	-	0	-	-	-	210	-	-	
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	75	75	75	71	71	71	95	95	95	93	93	93	
Heavy Vehicles, %	2	2	2	2	2	2	3	3	3	3	3	3	
Mvmt Flow	0	0	13	0	0	28	0	2589	32	11	1871	22	

Major/Minor	Minor2		Ν	1inor1		М	ajor1			Major2			
Conflicting Flow All	-	-	947	-	-	1316	-	0	0	2626	0	0	
Stage 1	-	-	-	-	-	-	-	-	-	-	-	-	
Stage 2	-	-	-	-	-	-	-	-	-	-	-	-	
Critical Hdwy	-	-	7.14	-	-	7.14	-	-	-	5.36	-	-	
Critical Hdwy Stg 1	-	-	-	-	-	-	-	-	-	-	-	-	
Critical Hdwy Stg 2	-	-	-	-	-	-	-	-	-	-	-	-	
Follow-up Hdwy	-	-	3.92	-	-	3.92	-	-	-	3.13	-	-	
Pot Cap-1 Maneuver	0	0	225	0	0	127	0	-	-	59	-	-	
Stage 1	0	0	-	0	0	-	0	-	-	-	-	-	
Stage 2	0	0	-	0	0	-	0	-	-	-	-	-	
Platoon blocked, %								-	-		-	-	
Mov Cap-1 Maneuver	• -	-	225	-	-	126	-	-	-	59	-	-	
Mov Cap-2 Maneuver	· -	-	-	-	-	-	-	-	-	-	-	-	
Stage 1	-	-	-	-	-	-	-	-	-	-	-	-	
Stage 2	-	-	-	-	-	-	-	-	-	-	-	-	
A										00			

Approach	EB	WB	NB	SB	
HCM Control Delay, s	22	41.6	0	0.4	
HCM LOS	С	E			

Minor Lane/Major Mvmt	NBT	NBR I	EBLn1V	VBLn1	SBL	SBT	SBR
Capacity (veh/h)	-	-	225	126	59	-	-
HCM Lane V/C Ratio	-	-	0.059	0.224	0.182	-	-
HCM Control Delay (s)	-	-	22	41.6	79.1	-	-
HCM Lane LOS	-	-	С	Е	F	-	-
HCM 95th %tile Q(veh)	-	-	0.2	0.8	0.6	-	-

8: I-805 NB Ramps/Mira Sorrento PI & Vista Sorrento Pkwy

timing Plan: PM PEAK

	٠	-	7	*	•	•	1	t	1	1	ŧ	~
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	<u>††</u>	1	24	<b>††</b>	1	ሻሻ	•	1	2	et.	1
Traffic Volume (veh/h)	450	200	130	180	1920	210	800	80	20	100	260	480
Future Volume (veh/h)	450	200	130	180	1920	210	800	80	20	100	260	480
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.98	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	489	217	141	196	2087	228	860	86	22	132	560	487
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.93	0.93	0.93	0.76	0.76	0.76
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	266	531	460	741	1479	660	486	175	145	392	335	283
Arrive On Green	0.15	0.15	0.15	0.42	0.42	0.42	0.05	0.03	0.03	0.22	0.18	0.18
Sat Flow, veh/h	1781	3554	1585	1781	3554	1585	3456	1870	1552	1781	1870	1580
Grp Volume(v), veh/h	489	217	141	196	2087	228	860	86	22	132	560	487
Grp Sat Flow(s),veh/h/ln	1781	1777	1585	1781	1777	1585	1728	1870	1552	1781	1870	1580
Q Serve(g_s), s	26.9	10.0	12.5	13.0	74.9	17.7	25.3	8.1	2.5	11.2	32.2	32.2
Cycle Q Clear(g_c), s	26.9	10.0	12.5	13.0	74.9	17.7	25.3	8.1	2.5	11.2	32.2	32.2
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	266	531	460	741	1479	660	486	175	145	392	335	283
V/C Ratio(X)	1.84	0.41	0.31	0.26	1.41	0.35	1.77	0.49	0.15	0.34	1.67	1.72
Avail Cap(c_a), veh/h	266	531	460	741	1479	660	486	397	329	392	335	283
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	0.33	0.33	0.33	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	0.09	0.09	0.09	0.71	0.71	0.71	1.00	1.00	1.00
Uniform Delay (d), s/veh	76.5	69.3	49.8	34.5	52.5	35.8	85.8	83.0	80.3	59.2	73.9	73.9
Incr Delay (d2), s/veh	390.9	0.2	0.1	0.0	185.5	0.0	352.7	0.6	0.1	0.2	316.0	340.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/In	41.2	4.6	5.0	5.6	70.5	6.9	35.6	4.0	1.0	5.0	44.6	39.5
Unsig. Movement Delay, s/veh	I											
LnGrp Delay(d),s/veh	467.5	69.5	49.9	34.5	238.0	35.8	438.5	83.6	80.4	59.3	389.9	413.9
LnGrp LOS	F	E	D	С	F	D	F	F	F	Е	F	F
Approach Vol, veh/h		847			2511			968			1179	
Approach Delay, s/veh		296.0			203.8			398.9			362.8	
Approach LOS		F			F			F			F	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	30.0	38.0		80.0	45.4	22.6		32.0				
Change Period (Y+Rc), s	* 4.7	5.8		5.1	5.8	* 5.8		5.1				
Max Green Setting (Gmax), s	* 25	32.2		74.9	19.3	* 38		26.9				
Max Q Clear Time (g_c+I1), s	27.3	34.2		76.9	13.2	10.1		28.9				
Green Ext Time (p_c), s	0.0	0.0		0.0	0.0	0.1		0.0				
Intersection Summary												
HCM 6th Ctrl Delay			286.3									
HCM 6th LOS			F									
N1 /												

## Notes

User approved volume balancing among the lanes for turning movement.

User approved ignoring U-Turning movement.

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

	۲	<b>→</b>	7	4	+	*	1	t	1	1	ţ	4	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ኘኘ	<b>^</b>	1	A	朴朴		ኘኘ	ħ		ሻሻ	ţ,	11	
Traffic Volume (veh/h)	340	750	420	100	890	100	530	160	30	90	320	620	
Future Volume (veh/h)	340	750	420	100	890	100	530	160	30	90	320	620	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.99	1.00		0.99	1.00		0.99	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac	ch	No			No			No			No		
Adj Sat Flow, veh/h/ln	1870	2116	1870	1870	2116	1870	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	362	798	447	104	927	104	570	172	32	99	352	681	
Peak Hour Factor	0.94	0.94	0.94	0.96	0.96	0.96	0.93	0.93	0.93	0.91	0.91	0.91	
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2	
Cap, veh/h	890	916	360	390	989	111	694	308	57	848	445	1567	
Arrive On Green	0.34	0.30	0.30	0.07	0.06	0.06	0.20	0.20	0.20	0.24	0.24	0.24	
Sat Flow, veh/h	3456	4021	1579	1781	5268	589	3456	1532	285	3563	1870	3150	
Grp Volume(v), veh/h	362	798	447	104	677	354	570	0	204	99	352	681	
Grp Sat Flow(s), veh/h/li		2011	1579	1781	1926	2005	1728	0	1817	1781	1870	1575	
Q Serve(g_s), s	14.4	33.8	41.0	9.9	31.5	31.7	28.4	0.0	18.2	3.9	31.8	0.0	
Cycle Q Clear(g_c), s	14.4	33.8	41.0	9.9	31.5	31.7	28.4	0.0	18.2	3.9	31.8	0.0	
Prop In Lane	1.00		1.00	1.00	••	0.29	1.00		0.16	1.00	••	1.00	
Lane Grp Cap(c), veh/h		916	360	390	723	376	694	0	365	848	445	1567	
V/C Ratio(X)	0.41	0.87	1.24	0.27	0.94	0.94	0.82	0.00	0.56	0.12	0.79	0.43	
Avail Cap(c_a), veh/h	890	916	360	390	723	376	808	0.00	425	1162	610	1844	
HCM Platoon Ratio	1.33	1.33	1.33	0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	0.93	0.93	0.93	0.34	0.34	0.34	1.00	0.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/vel		60.2	62.7	69.8	83.3	83.4	68.8	0.0	64.7	53.7	64.4	29.2	
Incr Delay (d2), s/veh	0.3	10.5	129.5	0.0	9.3	16.0	8.0	0.0	3.5	0.1	6.1	0.3	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh		17.6	28.5	4.7	17.3	18.8	13.4	0.0	8.8	1.8	15.9	9.6	
Unsig. Movement Delay			20.0		11.0	10.0	10.1	0.0	0.0	1.0	10.0	0.0	
LnGrp Delay(d),s/veh	48.9	70.7	192.2	69.9	92.7	99.4	76.8	0.0	68.2	53.8	70.4	29.4	
LnGrp LOS	D	E	F	E	52.7 F	F	E	A	E	D	E	C	
Approach Vol, veh/h		1607			1135			774			1132	<u> </u>	
Approach Delay, s/veh		99.6			92.7			74.6			44.3		
Approach LOS		99.0 F			52.7 F			74.0 E			44.3 D		
											U		
Timer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Rc)		47.0		48.1	50.8	40.0		41.1					
Change Period (Y+Rc),		6.0		5.3	4.4	6.2		4.9					
Max Green Setting (Gm		41.0		58.7	24.6	33.8		42.1					
Max Q Clear Time (g_c		43.0		33.8	16.4	33.7		30.4					
Green Ext Time (p_c), s	s 0.0	0.0		9.1	0.8	0.1		5.4					
Intersection Summary													
HCM 6th Ctrl Delay			80.3										
HCM 6th LOS			F										
Notes	holor			lance f	on 4		mort						
User approved volume	palanci	ina amo	ona the	ianes fo	or turnir	ia move	inent.						

User approved volume balancing among the lanes for turning movement. User approved ignoring U-Turning movement.

Movement         EBL         EBL         EBR         WBL         WBL         WBL         NBL         NBL         NBT         NBL         SBL         SBL         SBR           Lane Configurations         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1		٠	-	7	4	+	•	1	Ť	1	4	Ŧ	~	
Lane Configurations         Ap         Total Configurations         Ap         Total Configurations         Ap         Total Configurations           Tradic Volume (veh/h)         100         680         100         290         660         60         280         330         970         230         1390         240           Initial Q(2b), veh         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 </th <th>Movement</th> <th>EBL</th> <th>EBT</th> <th>EBR</th> <th>WBL</th> <th>WBT</th> <th>WBR</th> <th>NBL</th> <th>NBT</th> <th>NBR</th> <th>SBL</th> <th>SBT</th> <th>SBR</th> <th></th>	Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Traffic Volume (veh/h)       100       580       100       290       660       60       280       330       970       230       1390       240         Initial Q (Qb), veh       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0			<b>4</b> 16											
Future Volume (veh/h)       100       580       100       290       660       60       280       330       970       230       1390       240         Initial Q (2b), veh       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0	-			100			60	-						
Initial Q (Ob), weh       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0														
Ped-Bike Adj(A, pbT)       1.00       0.09       1.00       0.08       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00 <th< td=""><td>( )</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	( )													
Parking Bus, Adj       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.0			-						-			-		
Work Zone On Åppraach         No         No         No         No           Adj Sat Flow, vehnhin         1870         2116         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1873 <t< td=""><td></td><td></td><td>1.00</td><td></td><td></td><td>1.00</td><td></td><td></td><td>1.00</td><td></td><td></td><td>1.00</td><td></td><td></td></t<>			1.00			1.00			1.00			1.00		
Adj Sat Flow, veh/h/ln       1870       2116       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       <														
Adj Flow Rate, veh/h       109       630       109       315       717       65       292       344       1010       253       1527       264         Peak Hour Factor       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.90       0.69       0.69       0.69       0.69       0.69       0.69       0.69       0.69       0.69       0.69       0.69       0.69       0.69       0.69       0.69       0.69       0.69       0.69       0.69       0.69       0.69       0.69       0.69       0.69       0.69       0.69       0.69       0.69       0.69       0.69       0.69       0.69       0.69       0.69       0.69       0.69       0.69       0.69       0.69       0.69       0.69       0.69       0.69       0.69       0.69       0.69       0.69 <td< td=""><td></td><td></td><td></td><td>1870</td><td>1870</td><td></td><td>1870</td><td>1870</td><td></td><td>1870</td><td>1870</td><td></td><td>1870</td><td></td></td<>				1870	1870		1870	1870		1870	1870		1870	
Peak Hour Factor       0.92       0.92       0.92       0.92       0.92       0.92       0.96       0.96       0.91       0.91       0.91         Percent Heavy Veh, %       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2														
Percent Heavy Veh, %       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       4       100       105       1057       1057       1057       1057       1057       1057       1057       1057       1050       100       100       100       100       100       100       100       100       100       100       100       100 </td <td></td>														
Cap, veh/h       49       653       113       1325       2058       186       224       1110       936       165       964       803         Arrive On Green       0.01       0.06       0.60       0.13       0.18       0.18       0.13       0.59       0.59       0.06       0.69       0.69         Sat Flow, veh/h       1781       3425       591       3456       3720       337       1781       1870       1578       3456       1870       1557         Grp Volume(v), veh/h       109       369       370       315       337       395       292       344       1010       253       1527       264         Grp Sat Flow(s), veh/h/Int781       2011       2066       1728       2012       2046       165       77.3       8.6       92.8       12.4         Cycle Q Clear(g, c), s       0.33       0.33       114.8       30.3       30.3       22.4       110       936       165       964       803         V/C Ratio(X)       2.20       0.96       0.97       0.24       0.35       0.33       1.31       1.32       1.11       1132       224       1110       936       165       964       803														
Arrive On Green       0.01       0.06       0.13       0.18       0.13       0.13       0.59       0.59       0.60       0.69         Sat Flow, veh/h       1781       3425       591       3456       370       337       7781       1870       1578       3456       1557         Grp Volume(V), veh/h       109       369       370       315       387       395       292       344       1010       253       1527       264         Grp Sat Flow(s), veh/h       109       360       331       14.8       30.3       30.3       22.6       16.5       77.3       8.6       92.8       12.4         Cycle Q Clear(g, c), s       5.0       33.0       331       14.8       30.3       30.3       22.6       16.5       77.3       8.6       92.8       12.4         Cycle Q Clear(g, c), s       5.0       33.0       331       14.8       30.3       30.3       12.4       1100       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00														
Sat Flow, veh/h       1781       3425       591       3456       3720       337       1781       1870       1578       3456       1670       1557         Grp Volume(v), veh/h       109       369       370       315       387       395       292       344       1010       253       1527       264         Grp Sat Flow(s), veh/h1n1781       2011       2006       1728       2011       2046       168       1773       8.6       92.8       12.4         Qserve(g.s), s       5.0       33.0       33.1       14.8       30.3       30.3       22.6       16.5       77.3       8.6       92.8       12.4         Cycle Q Clear(g.c), s       5.0       33.0       33.1       14.8       30.3       32.2       110.0       1.00       1.00       1.00       1.00         Lane Grp Cap(c), veh/h       49       383       382       1325       1113       1132       224       1123       948       165       964       803         ViC Ratio(X)       2.0       0.80       0.97       0.24       0.35       0.33       1.00       1.00       1.00       1.03       1.33       1.33         Upstram Filter(I)       0.73	• *													
Grp Volume(v), veh/h       109       369       370       315       387       395       292       344       1010       253       1527       264         Grp Sat Flow(s), veh/huln1781       2011       2006       1728       2011       2046       1781       1870       1577       1870       1557         Q Serve(g, s), s       5.0       33.0       33.1       14.8       30.3       30.2       22.6       16.5       77.3       8.6       92.8       12.4         Cycle Q Clear(g, c), s       5.0       33.0       33.1       14.8       30.3       30.3       22.6       16.5       77.3       8.6       92.8       12.4         Prop In Lane       1.00       0.29       1.00       0.16       1.00       1.00       1.00       1.00         Lane Grp Cap(c), veh/h       49       383       382       1325       1113       1132       224       1123       948       165       964       803         VIC Ratio(X)       2.0       0.96       0.97       0.24       0.51       1.00       1.00       1.03       1.33       1.33       1.33       1.33       1.33       1.33       1.33       1.33       1.33       1.33														
Grp Sat Flow(s),veh/h/In1781       2011       2006       1728       2011       2046       1781       1870       1578       1728       1870       1557         Q Serve(g.s), s       5.0       33.0       33.1       14.8       30.3       30.3       22.6       16.5       77.3       8.6       92.8       12.4         Prop In Lane       1.00       0.29       1.00       0.16       1.00       1.00       1.00       1.00         Lane Grp Cap(c), veh/h       49       383       382       1325       1113       1132       224       1110       936       165       964       803         V/C Ratio(X)       2.20       0.96       0.97       0.24       0.35       0.33       1.01       1.00       1.00       1.00       1.03       1.33       1.33       1.33       1.33       1.33       1.33       1.33       1.33       1.33       1.33       1.33       1.33       1.33       1.33       1.33       1.33       1.33       1.33       1.33       1.33       1.33       1.33       1.33       1.33       1.33       1.33       1.33       1.33       1.33       1.33       1.33       1.33       1.33       1.33       1.33       1	· ·													
Q Serve(g_s), s       5.0       33.0       33.1       14.8       30.3       30.3       22.6       16.5       77.3       8.6       92.8       12.4         Cycle Q Clear(g_c), s       5.0       33.0       33.1       14.8       30.3       30.3       22.6       16.5       77.3       8.6       92.8       12.4         Prop In Lane       1.00       0.29       1.00       0.16       1.00       1.00       1.00       1.00         Lane Grp Cap(c), veh/h       49       383       382       1325       1113       1132       224       1100       1.08       1.53       1.58       0.33         Avail Cap(c_a), veh/h       49       383       382       1325       1113       1132       224       1100       1.00       1.00       1.03       1.33       1.33         Upstream Filter(1)       0.73       0.73       0.51       0.51       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00														
Cycle Q Clear(g_c), s       5.0       33.0       33.1       14.8       30.3       30.3       22.6       16.5       77.3       8.6       92.8       12.4         Prop In Lane       1.00       0.29       1.00       0.16       1.00       1.00       1.00       1.00         Lane Grp Cap(c), veh/h       49       383       382       1325       1113       1132       224       1110       936       165       964       803         V/C Ratio(X)       2.20       0.96       0.97       0.24       0.35       0.35       1.31       1.08       1.53       1.58       0.33         Avail Cap(c_a), veh/h       49       383       382       1325       1113       1132       224       1100       1.00       1.00       1.03       1.33       1.33         HCM Platoon Ratio       0.33       0.33       0.33       0.33       1.03       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00														
Prop In Lane       1.00       0.29       1.00       0.16       1.00       1.00       1.00       1.00         Lane Grp Cap(c), veh/h       49       383       382       1325       1113       1132       224       1110       936       165       964       803         V/C Ratio(X)       2.20       0.96       0.97       0.24       0.35       0.35       1.31       0.31       1.08       1.53       1.58       0.33         Avail Cap(c. a), veh/h       49       383       382       1325       1113       1132       224       1123       948       165       964       803         HCM Platoon Ratio       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00	,													
Lane Grp Cap(c), veh/h 49 383 382 1325 1113 1132 224 1110 936 165 964 803 V/C Ratio(X) 2.20 0.96 0.97 0.24 0.35 0.35 1.31 0.31 1.08 1.53 1.58 0.33 Avail Cap(c_a), veh/h 49 383 382 1325 1113 1132 224 1123 948 165 964 803 HCM Platoon Ratio 0.33 0.33 0.33 0.33 0.33 0.33 1.00 1.00			33.0			JU.J			10.3			92.0		
V/C Ratio (X)       2.20       0.96       0.97       0.24       0.35       0.35       1.31       0.31       1.08       1.53       1.58       0.33         Avail Cap(c_a), veh/h       49       383       382       1325       1113       1132       224       1123       948       165       964       803         HCM Platoon Ratio       0.33       0.33       0.33       0.33       0.33       0.33       0.33       1.00       1.00       1.00       1.03       1.33       1.33         Upstream Filter(I)       0.73       0.73       0.51       0.51       1.01       1.00       1.00       1.00       0.09       0.09       0.09         Unform Delay (d), s/veh 586.2       31.3       32.0       0.0       0.4       0.4       166.0       0.1       53.1       243.2       263.1       0.0         Initial Q Delay (d), s/veh       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0 <th< td=""><td></td><td></td><td>202</td><td></td><td></td><td>4440</td><td></td><td></td><td>4440</td><td></td><td></td><td>004</td><td></td><td></td></th<>			202			4440			4440			004		
Avail Cap(c_a), veh/h       49       383       382       1325       1113       1132       224       1123       948       165       964       803         HCM Platoon Ratio       0.33       0.33       0.33       0.33       0.33       0.33       1.00       1.00       1.00       1.33       1.33       1.33         Upstream Filter(I)       0.73       0.73       0.73       0.51       0.51       0.51       1.00       1.00       1.00       0.09       0.09         Uniform Delay (d), s/veh 89.2       83.7       83.8       54.9       45.2       45.2       78.7       18.2       19.2       84.3       28.3       15.7         Incr Delay (d2), s/veh 89.2       81.3       32.0       0.0       4.0       4       166.0       0.1       53.1       242.3       263.1       0.0         Initial Q Delay (d3), s/veh       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0 <td> ,</td> <td></td>	,													
HCM Platoon Ratio 0.33 0.33 0.33 0.33 0.33 0.33 0.33 0.3	( )													
Upstream Filter(I)       0.73       0.73       0.73       0.51       0.51       1.00       1.00       1.00       0.09       0.09       0.09         Uniform Delay (d), s/veh 89.2       83.7       83.8       54.9       45.2       45.2       78.7       18.2       19.2       84.3       28.3       15.7         Incr Delay (d2), s/veh 586.2       31.3       32.0       0.0       0.4       0.4       166.0       0.1       53.1       242.3       263.1       0.0         Initial Q Delay (d3), s/veh 0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0	,													
Uniform Delay (d), s/veh 89.2 83.7 83.8 54.9 45.2 45.2 78.7 18.2 19.2 84.3 28.3 15.7 Incr Delay (d2), s/veh 586.2 31.3 32.0 0.0 0.4 0.4 166.0 0.1 53.1 242.3 263.1 0.0 Initial Q Delay(d3),s/veh 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.														
Incr Delay (d2), s/veh       586.2       31.3       32.0       0.0       0.4       0.4       166.0       0.1       53.1       242.3       263.1       0.0         Initial Q Delay(d3), s/veh       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0 </td <td></td>														
Initial Q Delay(d3),s/veh       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>														
%ile BackOfQ(50%),veh/lft0.4       21.3       21.3       6.9       16.5       16.9       20.6       7.2       40.0       9.3       103.3       4.0         Unsig. Movement Delay, s/veh       Intersection Summary       115.1       115.8       55.0       45.7       45.7       244.7       18.3       72.3       326.6       291.4       15.7         LnGrp Delay(d),s/veh 675.4       115.1       115.8       55.0       45.7       45.7       244.7       18.3       72.3       326.6       291.4       15.7         LnGrp LOS       F       F       F       D       D       F       B       F       F       F       B         Approach Vol, veh/h       848       1097       1646       2044       2044       2044       2044       2044       2044       2044       2044       2044       2044       2044       2044       2044       2044       2044       2044       2044       2044       2044       2044       2044       2044       2044       2044       2040       2044       2044       2040       2044       2040       2044       2040       2044       2040       2044       2044       2040       2044       2040       2044	• • •													
Unsig. Movement Delay, s/veh         LnGrp Delay(d), s/veh       675.4       115.1       115.8       55.0       45.7       45.7       244.7       18.3       72.3       326.6       291.4       15.7         LnGrp LOS       F       F       F       D       D       D       F       B       F       F       F       B         Approach Vol, veh/h       848       1097       1646       2044         Approach Delay, s/veh       187.4       48.3       91.6       260.1         Approach LOS       F       D       F       B       F       F       F         Timer - Assigned Phs       1       2       3       4       5       6       7       8         Phs Duration (G+Y+Rc), \$7.0       40.0       27.0       99.0       9.4       107.6       13.0       113.0         Change Period (Y+Rc), \$6.2       * 5.7       4.4       6.2       4.4       * 6.2       4.4       * 6.2         Max Green Setting (Gmax), 6       * 34       22.6       92.8       5.0       38.4       8.6* 1.1E2         Max Q Clear Time (p_c), s       0.0       0.0       0.0       0.9       0.0       1.3         Intersecti														
LnGrp Delay(d),s/veh       675.4       115.1       115.8       55.0       45.7       45.7       244.7       18.3       72.3       326.6       291.4       15.7         LnGrp LOS       F       F       F       D       D       D       F       B       F       F       F       B         Approach Vol, veh/h       848       1097       1646       2044         Approach Delay, s/veh       187.4       48.3       91.6       260.1         Approach LOS       F       D       F       B       F       F       F         Timer - Assigned Phs       1       2       3       4       5       6       7       8         Phs Duration (G+Y+Rc), \$7.0       40.0       27.0       99.0       9.4       107.6       13.0       113.0         Change Period (Y+Rc), \$7.0       40.0       27.0       99.0       9.4       107.6       13.0       113.0         Change Period (Y+Rc), \$6.2       *5.7       4.4       6.2       4.4       *6.2         Max Green Setting (Gmax9, \$6       *34       22.6       92.8       5.0       38.4       8.6* 1.1E2         Max Q Clear Time (p_c), \$       0.0       0.0       0.0	. ,			21.3	6.9	16.5	16.9	20.6	7.2	40.0	9.3	103.3	4.0	
LnGrp LOS       F       F       F       D       D       D       F       B       F       F       F       B         Approach Vol, veh/h       848       1097       1646       2044         Approach Delay, s/veh       187.4       48.3       91.6       260.1         Approach LOS       F       D       F       F       F         Timer - Assigned Phs       1       2       3       4       5       6       7       8         Timer - Assigned Phs       1       2       3       4       5       6       7       8         Phs Duration (G+Y+Rc), \$7.0       40.0       27.0       99.0       9.4       107.6       13.0       113.0         Change Period (Y+Rc), \$6.2       *5.7       4.4       6.2       4.4       *6.2       4.4       *6.2         Max Green Setting (Gmax%.6       *34       22.6       92.8       5.0       38.4       8.6* 1.1E2         Max Q Clear Time (p_c), \$       0.0       0.0       0.0       0.0       1.3       Intersection Summary         HCM 6th Ctrl Delay       158.7       HCM 6th Ctrl Delay       158.7         HCM 6th LOS       F       F       F <td< td=""><td><b>v</b> ,</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	<b>v</b> ,													
Approach Vol, veh/h       848       1097       1646       2044         Approach Delay, s/veh       187.4       48.3       91.6       260.1         Approach LOS       F       D       F       F         Timer - Assigned Phs       1       2       3       4       5       6       7       8         Timer - Assigned Phs       1       2       3       4       5       6       7       8         Phs Duration (G+Y+Rc), \$7.0       40.0       27.0       99.0       9.4       107.6       13.0       113.0         Change Period (Y+Rc), \$6.2       *5.7       4.4       6.2       4.4       *6.2         Max Green Setting (Gmax%).6       *34       22.6       92.8       5.0       38.4       8.6* 1.1E2         Max Q Clear Time (g_c+ffl6).8s       35.1       24.6       94.8       7.0       32.3       10.6       79.3         Green Ext Time (p_c), \$ 0.0       0.0       0.0       0.9       0.0       1.3       11.3         Intersection Summary       HCM 6th Ctrl Delay       158.7       HCM 6th LOS       F       158.7	,													
Approach Delay, s/veh       187.4       48.3       91.6       260.1         Approach LOS       F       D       F       F         Timer - Assigned Phs       1       2       3       4       5       6       7       8         Phs Duration (G+Y+Rc), \$7.0       40.0       27.0       99.0       9.4       107.6       13.0       113.0         Change Period (Y+Rc), \$6.2       * 5.7       4.4       6.2       4.4       * 6.2         Max Green Setting (Gmax9, \$6       * 34       22.6       92.8       5.0       38.4       8.6* 1.1E2         Max Q Clear Time (g_c+I116, \$5       35.1       24.6       94.8       7.0       32.3       10.6       79.3         Green Ext Time (p_c), \$0.0       0.0       0.0       0.0       0.9       0.0       1.3         Intersection Summary       HCM 6th Ctrl Delay       158.7       F       F         HCM 6th LOS       F       F       F       F		F		F	D		D	F		F	F		В	
Approach LOS       F       D       F       F         Timer - Assigned Phs       1       2       3       4       5       6       7       8         Phs Duration (G+Y+Rc), \$7.0       40.0       27.0       99.0       9.4       107.6       13.0       113.0         Change Period (Y+Rc), \$6.2       * 5.7       4.4       6.2       4.4       * 6.2         Max Green Setting (Gmax%, \$6       * 34       22.6       92.8       5.0       38.4       8.6* 1.1E2         Max Q Clear Time (g_c+I116, \$8       35.1       24.6       94.8       7.0       32.3       10.6       7 9.3         Green Ext Time (p_c), \$0.0       0.0       0.0       0.0       0.9       0.0       1.3         Intersection Summary       HCM 6th Ctrl Delay       158.7       F       F         HCM 6th LOS       F       F       F       F	Approach Vol, veh/h													
Timer - Assigned Phs       1       2       3       4       5       6       7       8         Phs Duration (G+Y+Rc), \$7.0       40.0       27.0       99.0       9.4       107.6       13.0       113.0         Change Period (Y+Rc), \$6.2       * 5.7       4.4       6.2       4.4       6.2       4.4       * 6.2         Max Green Setting (Gmax9.6       * 34       22.6       92.8       5.0       38.4       8.6* 1.1E2         Max Q Clear Time (g_c+H16.8       35.1       24.6       94.8       7.0       32.3       10.6       79.3         Green Ext Time (p_c), \$       0.0       0.0       0.0       0.9       0.0       1.3         Intersection Summary       HCM 6th Ctrl Delay       158.7       F       F			187.4			48.3			91.6			260.1		
Phs Duration (G+Y+Rc), \$7.0       40.0       27.0       99.0       9.4       107.6       13.0       113.0         Change Period (Y+Rc), \$6.2       * 5.7       4.4       6.2       4.4       * 6.2         Max Green Setting (Gmax%), \$6       * 34       22.6       92.8       5.0       38.4       8.6*       1.1E2         Max Q Clear Time (g_c+f116, \$5       35.1       24.6       94.8       7.0       32.3       10.6       79.3         Green Ext Time (p_c), \$       0.0       0.0       0.0       0.9       0.0       1.3         Intersection Summary       HCM 6th Ctrl Delay       158.7       F         HCM 6th LOS       F       F       F	Approach LOS		F			D			F			F		
Change Period (Y+Rc), s 6.2       * 5.7       4.4       6.2       4.4       * 6.2         Max Green Setting (Gmax9,6       * 34       22.6       92.8       5.0       38.4       8.6* 1.1E2         Max Q Clear Time (g_c+H16,8s       35.1       24.6       94.8       7.0       32.3       10.6       79.3         Green Ext Time (p_c), s       0.0       0.0       0.0       0.9       0.0       1.3         Intersection Summary       HCM 6th Ctrl Delay       158.7       HCM 6th LOS       F	Timer - Assigned Phs	1	2	3	4	5	6	7	8					
Change Period (Y+Rc), s 6.2       * 5.7       4.4       6.2       4.4       * 6.2         Max Green Setting (Gmax9,6       * 34       22.6       92.8       5.0       38.4       8.6* 1.1E2         Max Q Clear Time (g_c+H16,8s       35.1       24.6       94.8       7.0       32.3       10.6       79.3         Green Ext Time (p_c), s       0.0       0.0       0.0       0.9       0.0       1.3         Intersection Summary       HCM 6th Ctrl Delay       158.7       HCM 6th LOS       F	Phs Duration (G+Y+Rc)	, <b>3</b> 7.0	40.0	27.0	99.0	9.4	107.6	13.0	113.0					
Max Green Setting (Gmax9,6 * 34       22.6       92.8       5.0       38.4       8.6* 1.1E2         Max Q Clear Time (g_c+ftl6,8 35.1       24.6       94.8       7.0       32.3       10.6       79.3         Green Ext Time (p_c), s       0.0       0.0       0.0       0.9       0.0       1.3         Intersection Summary       HCM 6th Ctrl Delay       158.7         HCM 6th LOS       F														
Max Q Clear Time (g_c+Hl6, & 35.1 24.6 94.8 7.0 32.3 10.6 79.3         Green Ext Time (p_c), s 0.0 0.0 0.0 0.0 0.0 0.9 0.0 1.3         Intersection Summary         HCM 6th Ctrl Delay       158.7         HCM 6th LOS       F														
Green Ext Time (p_c), s         0.0         0.0         0.0         0.0         1.3           Intersection Summary         Intersection Summary	<b>U</b> (													
HCM 6th Ctrl Delay 158.7 HCM 6th LOS F														
HCM 6th Ctrl Delay 158.7 HCM 6th LOS F	Intersection Summary													
HCM 6th LOS F				158 7										

	۶	<b>→</b>	7	4	+	*	1	t	1	1	ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	à	<b>^</b>	1	à	<b>^</b>	1	A	<b>†</b>	1	ካካ	<b>†</b>	1	
Traffic Volume (veh/h)	100	1180	150	410	820	370	160	130	1000	1690	710	230	
Future Volume (veh/h)	100	1180	150	410	820	370	160	130	1000	1690	710	230	
Initial Q (Qb), veh	0	0	0	0	0_0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	Ū	0.95	1.00	Ū	1.00	1.00	v	0.99	1.00	Ŭ	0.99	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No	1.00	1.00	No	1.00	1.00	No	1.00	1.00	No	1.00	
Adj Sat Flow, veh/h/ln	1870	2116	1870	1841	2083	1841	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	109	1283	163	441	882	0	198	160	1235	1817	763	247	
Peak Hour Factor	0.92	0.92	0.92	0.93	0.93	0.93	0.81	0.81	0.81	0.93	0.93	0.93	
Percent Heavy Veh, %	2	2	2	4	4	4	2	2	2	0.55	0.55	2	
Cap, veh/h	128	923	346	769	2389	4	170	600	504	799	862	727	
Arrive On Green	0.02	923	0.08	0.44	0.60	0.00	0.10	0.32	0.32	0.23	0.46	0.46	
Sat Flow, veh/h	1781	4021	1509	1753	3958	1560	1781	1870	1572	3456	1870	1576	
Grp Volume(v), veh/h	109	1283	163	441	882	0	198	160	1235	1817	763	247	
Grp Sat Flow(s),veh/h/l		2011	1509	1753	1979	1560	1781	1870	1572	1728	1870	1576	
Q Serve(g_s), s	11.0	41.3	23.2	33.9	20.5	0.0	17.2	11.4	57.7	41.6	66.8	18.0	
Cycle Q Clear(g_c), s	11.0	41.3	23.2	33.9	20.5	0.0	17.2	11.4	57.7	41.6	66.8	18.0	
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Lane Grp Cap(c), veh/h		923	346	769	2389		170	600	504	799	862	727	
V/C Ratio(X)	0.85	1.39	0.47	0.57	0.37		1.16	0.27	2.45	2.28	0.88	0.34	
Avail Cap(c_a), veh/h	132	923	346	769	2389		170	600	504	799	862	727	
HCM Platoon Ratio	0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	0.09	0.09	0.09	0.30	0.30	0.00	1.00	1.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/ve	h 86.9	83.2	112.6	37.9	18.2	0.0	81.4	45.4	61.1	69.2	44.1	31.0	
Incr Delay (d2), s/veh	4.7	176.4	0.4	0.2	0.1	0.0	119.7	0.1	659.1	577.8	10.5	0.1	
Initial Q Delay(d3),s/vel	h 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),ve	h/In5.4	45.0	9.6	14.3	9.1	0.0	13.5	5.4	114.9	82.5	33.5	6.9	
Unsig. Movement Delay		1											
LnGrp Delay(d),s/veh			113.0	38.1	18.3	0.0	201.1	45.5	720.2	647.0	54.6	31.1	
LnGrp LOS	F	F	F	D	В		F	D	F	F	D	С	
Approach Vol, veh/h		1555			1323	А		1593			2827		
Approach Delay, s/veh		232.4			24.9	~		587.9			433.3		
Approach LOS		F			24.0 C			607.5			+00.0 F		
					-			•					
Timer - Assigned Phs	1	2	3	4	5	6	7	8					
Phs Duration (G+Y+Rc	), <b>8</b> 6.5	47.0	21.6	87.9	17.3	116.2	46.5	63.0					
Change Period (Y+Rc),	s 5.7	* 5.7	4.4	4.9	4.4	5.7	4.9	* 5.3					
Max Green Setting (Gn	na <b>%9,.6</b>	* 41	17.2	82.5	13.3	47.6	41.6	* 58					
Max Q Clear Time (g_c	+1315,9s	43.3	19.2	68.8	13.0	22.5	43.6	59.7					
Green Ext Time (p_c),		0.0	0.0	1.9	0.0	1.9	0.0	0.0					
Intersection Summary													
HCM 6th Ctrl Delay			350.2										
HCM 6th LOS			F										
Notes													

User approved ignoring U-Turning movement.

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Unsignalized Delay for [WBR] is excluded from calculations of the approach delay and intersection delay.

	٠	<b>→</b>	7	1	+	*	1	t	1	4	ŧ	4	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	5	<b>^</b>	1	3	<b>^</b>	1	٦	र्भ	1	٦	<b>↑</b>	1	
Traffic Volume (veh/h)	260	2810	340	10	810	10	790	10	50	20	10	340	
Future Volume (veh/h)	260	2810	340	10	810	10	790	10	50	20	10	340	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		0.98	1.00		0.98	1.00		0.99	1.00		0.95	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Nork Zone On Approac	h	No			No			No			No		
Adj Sat Flow, veh/h/ln	1841	2083	1841	1841	2083	1841	1870	1870	1796	1870	1870	1870	
Adj Flow Rate, veh/h	271	2927	354	11	880	11	1139	0	71	26	13	436	
Peak Hour Factor	0.96	0.96	0.96	0.92	0.92	0.92	0.70	0.70	0.70	0.78	0.78	0.78	
Percent Heavy Veh, %	4	4	4	4	4	4	2	2	2	2	2	2	
Cap, veh/h	490	2350	910	21	1291	501	912	0	387	49	52	485	
Arrive On Green	0.19	0.40	0.40	0.02	0.65	0.65	0.26	0.00	0.26	0.03	0.03	0.03	
Sat Flow, veh/h	1753	3958	1533	1753	3958	1535	3563	0	1513	1781	1870	1499	
Grp Volume(v), veh/h	271	2927	354	11	880	11	1139	0	71	26	13	436	
Grp Sat Flow(s), veh/h/li		1979	1533	1753	1979	1535	1781	0	1513	1781	1870	1499	
Q Serve(g_s), s	25.2	106.9	29.6	1.1	25.1	0.5	46.1	0.0	6.6	2.6	1.2	5.0	
Cycle Q Clear(g_c), s	25.2	106.9	29.6	1.1	25.1	0.5	46.1	0.0	6.6	2.6	1.2	5.0	
Prop In Lane	1.00	100.0	1.00	1.00	20.1	1.00	1.00	0.0	1.00	1.00	1.2	1.00	
_ane Grp Cap(c), veh/h		2350	910	21	1291	501	912	0	387	49	52	485	
//C Ratio(X)	0.55	1.25	0.39	0.53	0.68	0.02	1.25	0.00	0.18	0.53	0.25	0.90	
Avail Cap(c_a), veh/h	490	2350	910	49	1291	501	912	0.00	387	49	52	485	
HCM Platoon Ratio	0.67	0.67	0.67	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	
Jpstream Filter(I)	0.09	0.09	0.09	0.82	0.82	0.82	1.00	0.00	1.00	1.00	1.00	1.00	
Jniform Delay (d), s/vel		54.2	30.9	87.4	25.5	21.2	66.9	0.00	52.3	86.3	85.7	59.8	
ncr Delay (d2), s/veh	0.4	110.8	0.1	6.4	2.4	0.1	120.9	0.0	0.1	5.0	0.9	19.1	
nitial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),vel		90.0	11.6	0.0	8.2	0.0	36.4	0.0	2.6	1.3	0.6	21.7	
Jnsig. Movement Delay			11.0	0.0	0.2	0.2	00.4	0.0	2.0	1.0	0.0	21.1	
_nGrp Delay(d),s/veh	63.4	165.0	31.0	93.8	27.9	21.2	187.9	0.0	52.3	91.3	86.6	78.9	
InGrp LOS	E	F	01.0 C	55.0 F	21.5 C	C	107.5	0.0 A	02.0 D	51.5 F	50.0 F	70.5 E	
Approach Vol, veh/h	<u> </u>	3552	<u> </u>		902	<u> </u>	1	1210	<u> </u>		475	<u> </u>	
Approach Delay, s/veh		143.9			28.6			179.9			79.8		
Approach LOS		F			20.0 C			F			73.0 E		
		-									-		
Timer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Rc)				9.9	54.7	64.4		51.0					
Change Period (Y+Rc),		5.7		4.9	4.4	5.7		4.9					
Max Green Setting (Gm				5.0	50.3	58.7		46.1					
/lax Q Clear Time (g_c				7.0	27.2	27.1		48.1					
Green Ext Time (p_c), s	s 0.0	0.0		0.0	0.1	1.9		0.0					
Intersection Summary													
HCM 6th Ctrl Delay			129.1										
HCM 6th LOS			F										
Notes													
User approved volume	halanc	ing amo	na the	lanes fr	or turnir		ement						
Jser approved volume					ກັບເປເ	iy move	SINCIIL.						

	۶	-	7	-	+	•	1	t	1	4	Ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	A	<b>^</b>	1	3	<b>^</b>	1	٦	1	1	٦	1	1	
Traffic Volume (veh/h)	280	2070	50	50	360	120	50	260	390	370	50	480	
Future Volume (veh/h)	280	2070	50	50	360	120	50	260	390	370	50	480	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	-	0.98	1.00		0.97	1.00	-	1.00	1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No			No			No			No		
Adj Sat Flow, veh/h/ln	1841	2083	1841	1841	2083	1841	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	292	2156	52	54	391	130	61	317	476	430	58	558	
Peak Hour Factor	0.96	0.96	0.96	0.92	0.92	0.92	0.82	0.82	0.82	0.86	0.86	0.86	
Percent Heavy Veh, %	4	4	4	4	4	4	2	2	2	2	2	2	
Cap, veh/h	601	1831	708	215	961	368	77	396	335	333	670	567	
Arrive On Green	0.46	0.62	0.62	0.25	0.49	0.49	0.04	0.21	0.21	0.19	0.36	0.36	
	1753	3958	1531	1753	3958	1517	1781	1870	1583	1781	1870	1584	
Sat Flow, veh/h													
Grp Volume(v), veh/h	292	2156	52	54	391	130	61	317	476	430	58	558	
Grp Sat Flow(s),veh/h/l		1979	1531	1753	1979	1517	1781	1870	1583	1781	1870	1584	
Q Serve(g_s), s	21.0	83.3	2.4	4.5	11.4	9.6	6.1	29.0	38.1	33.6	3.7	33.5	
Cycle Q Clear(g_c), s	21.0	83.3	2.4	4.5	11.4	9.6	6.1	29.0	38.1	33.6	3.7	33.5	
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Lane Grp Cap(c), veh/h		1831	708	215	961	368	77	396	335	333	670	567	
V/C Ratio(X)	0.49	1.18	0.07	0.25	0.41	0.35	0.80	0.80	1.42	1.29	0.09	0.98	
Avail Cap(c_a), veh/h	601	1831	708	215	961	368	127	396	335	333	670	567	
HCM Platoon Ratio	1.33	1.33	1.33	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	0.09	0.09	0.09	0.87	0.87	0.87	1.00	1.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/ve	h 37.9	34.6	18.7	61.2	38.0	37.5	85.4	67.3	70.9	73.2	38.3	16.2	
Incr Delay (d2), s/veh	0.0	80.3	0.0	0.2	1.1	2.3	6.9	10.4	206.0	152.6	0.0	33.4	
Initial Q Delay(d3),s/vel	h 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),vel		54.2	0.9	1.9	5.0	3.5	3.0	15.1	34.7	29.5	1.8	17.5	
Unsig. Movement Dela													
LnGrp Delay(d),s/veh	37.9	114.9	18.8	61.4	39.1	39.8	92.2	77.7	277.0	225.8	38.3	49.7	
LnGrp LOS	D	F	B	E	D	D	F	E	F	F	D	D	
Approach Vol, veh/h		2500			575			854			1046		
Approach Delay, s/veh		103.9			41.4			189.8			121.4		
Approach LOS		103.9 F			41.4 D			109.0 F			121.4 F		
Approach LOS		Г			U			F			Г		
Timer - Assigned Phs	1	2	3	4	5	6	7	8					
Phs Duration (G+Y+Rc	), 27.0	89.0	12.1	69.4	66.6	49.4	38.5	43.0					
Change Period (Y+Rc)		5.7	4.4	4.9	4.4	5.7	4.9	* 4.9					
Max Green Setting (Gr		83.3	12.8	58.9	45.2	43.7	33.6	* 38					
Max Q Clear Time (g_c		85.3	8.1	35.5	23.0	13.4	35.6	40.1					
Green Ext Time (p_c),		0.0	0.0	0.5	0.1	0.8	0.0	0.0					
Intersection Summary	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0					
			115 1										
HCM 6th Ctrl Delay			115.1										
HCM 6th LOS			F										
Notes													

	٠	-	7	-	+	*	1	Ť	1	4	Ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	A	<b>^</b>	1	à	<b>^</b>	1	٦	र्भ	1	٦	<b>↑</b>	1	
Traffic Volume (veh/h)	210	1560	490	40	250	60	280	130	160	220	230	120	
Future Volume (veh/h)	210	1560	490	40	250	60	280	130	160	220	230	120	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		0.98	1.00		0.99	1.00		0.99	1.00		0.99	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No			No			No			No		
Adj Sat Flow, veh/h/ln	1841	2083	1841	1841	2083	1841	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	219	1625	510	43	272	65	236	270	184	310	324	169	
Peak Hour Factor	0.96	0.96	0.96	0.92	0.92	0.92	0.87	0.87	0.87	0.71	0.71	0.71	
Percent Heavy Veh, %	4	4	4	4	4	4	2	2	2	2	2	2	
Cap, veh/h	473	1717	663	183	1055	413	287	301	253	335	351	296	
Arrive On Green	0.54	0.87	0.87	0.21	0.53	0.53	0.16	0.16	0.16	0.19	0.19	0.19	
Sat Flow, veh/h	1753	3958	1528	1753	3958	1549	1781	1870	1573	1781	1870	1575	
Grp Volume(v), veh/h	219	1625	510	43	272	65	236	270	184	310	324	169	
Grp Sat Flow(s), veh/h/l		1979	1528	43 1753	1979	1549	1781	1870	1573	1781	324 1870	1575	
Q Serve(g_s), s	13.8	54.7	23.9	3.7	6.7	3.8	23.1	25.5	20.0	30.8	30.6	17.6	
,	13.8	54.7 54.7	23.9	3.7	6.7	3.8	23.1	25.5	20.0	30.8	30.6	17.6	
Cycle Q Clear(g_c), s Prop In Lane	1.00	34.7	1.00	1.00	0.7	3.0 1.00	1.00	20.0	1.00	1.00	30.0	1.00	
		1717	663	183	1055	413	287	301	253	335	351	296	
Lane Grp Cap(c), veh/h													
V/C Ratio(X)	0.46	0.95	0.77	0.23	0.26	0.16	0.82	0.90 395	0.73 332	0.93	0.92 395	0.57 332	
Avail Cap(c_a), veh/h	473	1717	663	183	1055	413	376			376			
HCM Platoon Ratio	2.00	2.00	2.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	0.09	0.09	0.09	0.99	0.99	0.99	1.00	1.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/ve		10.4	8.3	65.2	32.4	31.7	73.0	74.0	71.7	71.9	71.8	66.5	
Incr Delay (d2), s/veh	0.0	1.6	0.8	0.2	0.6	0.8	8.3	16.1	3.3	25.7	24.0	0.8	
Initial Q Delay(d3),s/vel		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),vel		5.5	3.3	1.6	3.1	1.5	11.2	13.5	8.3	16.5	17.1	7.1	
Unsig. Movement Delay			0.4	0F F	20.0	20 F	04.0	00.4	75.0	07.0	05.0	07.0	
LnGrp Delay(d),s/veh	33.4	11.9	9.1	65.5	32.9	32.5	81.3	90.1	75.0	97.6	95.8	67.3	
LnGrp LOS	С	B	A	E	C	С	F	F	E	F	F	E	
Approach Vol, veh/h		2354			380			690			803		
Approach Delay, s/veh		13.3			36.6			83.1			90.5		
Approach LOS		В			D			F			F		
Timer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Rc	,.	83.8		38.7	53.0	54.0		34.3					
Change Period (Y+Rc),		5.7		4.9	4.4	6.0		5.3					
Max Green Setting (Gm	1ax <b>5</b> ,. <b>6</b>	78.1		38.0	35.4	48.0		38.0					
Max Q Clear Time (g_c		56.7		32.8	15.8	8.7		27.5					
Green Ext Time (p_c),	s 0.0	4.5		0.6	0.1	0.5		0.5					
Intersection Summary													
HCM 6th Ctrl Delay			41.5										
HCM 6th LOS			D										
Notes													
l lser approved volume	halanoi	ing amo	ng tho	lanos fo	r turnir		mont						

User approved volume balancing among the lanes for turning movement. User approved ignoring U-Turning movement.

	٠	<b>→</b>	7	1	+	•	1	t	1	4	ŧ	4	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	٦		1	1	<b>^</b>	1	ሻሻ	<b>↑</b>	1	٦	ţ,		
Traffic Volume (veh/h)	100	1570	400	260	200	200	90	460	480	360	470	40	
Future Volume (veh/h)	100	1570	400	260	200	200	90	460	480	360	470	40	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		0.96	1.00		0.97	1.00		1.00	1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No	4044	1011	No	4044	4070	No	4700	4070	No	4070	
Adj Sat Flow, veh/h/ln	1841	2083	1841	1841	2083	1841	1870	1870	1796	1870	1870	1870 42	
Adj Flow Rate, veh/h Peak Hour Factor	102 0.98	1602 0.98	408 0.98	283 0.92	217 0.92	217 0.92	134 0.67	687 0.67	716 0.67	375 0.96	490 0.96	42 0.96	
Percent Heavy Veh, %	0.90	0.90	0.90	0.92	0.92	0.92	0.07	0.67	0.67	0.90	0.96	0.96	
Cap, veh/h	184	1187	449	182	1183	452	640	500	406	391	512	44	
Arrive On Green	0.14	0.40	0.40	0.03	0.10	0.10	0.19	0.27	0.27	0.22	0.30	0.30	
Sat Flow, veh/h	1753	3958	1496	1753	3958	1511	3456	1870	1518	1781	1698	146	
Grp Volume(v), veh/h	102	1602	408	283	217	217	134	687	716	375	0	532	
Grp Sat Flow(s), veh/h/lr		1979	1496	1753	1979	1511	1728	1870	1518	1781	0	1844	
Q Serve(g_s), s	9.8	54.0	46.3	18.7	9.1	24.5	5.9	48.1	48.1	37.5	0.0	51.0	
Cycle Q Clear(g_c), s	9.8	54.0	46.3	18.7	9.1	24.5	5.9	48.1	48.1	37.5	0.0	51.0	
Prop In Lane	1.00	54.0	1.00	1.00	J.I	1.00	1.00	40.1	1.00	1.00	0.0	0.08	
Lane Grp Cap(c), veh/h		1187	449	182	1183	452	640	500	406	391	0	556	
V/C Ratio(X)	0.55	1.35	0.91	1.55	0.18	0.48	0.21	1.37	1.76	0.96	0.00	0.96	
Avail Cap(c_a), veh/h	184	1187	449	182	1183	452	640	500	406	392	0.00	833	
HCM Platoon Ratio	1.33	1.33	1.33	0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	0.49	0.49	0.49	0.95	0.95	0.95	1.00	1.00	1.00	1.00	0.00	1.00	
Uniform Delay (d), s/veł		54.1	51.8	86.9	61.0	67.9	62.2	65.9	65.9	69.5	0.0	61.8	
Incr Delay (d2), s/veh	1.1	160.0	14.5	272.4	0.3	3.4	0.1	180.9	354.1	34.7	0.0	14.1	
Initial Q Delay(d3),s/veh	n 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh		51.1	18.6	22.7	4.7	10.5	2.6	48.1	58.6	20.9	0.0	26.1	
Unsig. Movement Delay	, s/veh	1											
LnGrp Delay(d),s/veh	74.5	214.1	66.3	359.3	61.3	71.3	62.2	246.8	420.1	104.2	0.0	75.9	
LnGrp LOS	Е	F	E	F	E	E	E	F	F	F	А	Е	
Approach Vol, veh/h		2112			717			1537			907		
Approach Delay, s/veh		178.8			182.0			311.4			87.6		
Approach LOS		F			F			F			F		
Timer - Assigned Phs	1	2	3	4	5	6	7	8					
Phs Duration (G+Y+Rc)	, 23.1	60.0	37.7	59.1	23.3	59.8	43.9	53.0					
Change Period (Y+Rc),	s 4.4	6.0	4.4	4.9	4.4	6.0	4.4	4.9					
Max Green Setting (Gm		54.0	6.4	81.3	18.8	53.8	39.6	48.1					
Max Q Clear Time (g_c-	+1210,75	56.0	7.9	53.0	11.8	26.5	39.5	50.1					
Green Ext Time (p_c), s	s 0.0	0.0	0.0	1.2	0.0	0.5	0.0	0.0					
Intersection Summary													
HCM 6th Ctrl Delay			202.2										
HCM 6th LOS			F										

	۲	-	¥	-	+	*	1	t	1	4	ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	A	<b>^</b>	1	٦	<b>^</b>	1	à	<b>^</b>	1	<u>ሕ</u> ካ	<b>^</b>	1	
Traffic Volume (veh/h)	70	2450	100	120	470	110	140	280	390	280	170	50	
Future Volume (veh/h)	70	2450	100	120	470	110	140	280	390	280	170	50	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	-	0.98	1.00		0.98	1.00		1.00	1.00		0.99	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No			No			No			No		
Adj Sat Flow, veh/h/ln	1841	2083	1841	1811	2049	1811	1575	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	75	2634	108	130	511	120	152	304	424	304	185	54	
Peak Hour Factor	0.93	0.93	0.93	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	
Percent Heavy Veh, %	4	4	4	6	6	6	2	2	2	2	2	2	
Cap, veh/h	169	2141	828	102	1925	745	317	762	432	242	253	112	
Arrive On Green	0.13	0.72	0.72	0.12	0.99	0.99	0.07	0.07	0.07	0.07	0.07	0.07	
Sat Flow, veh/h	1753	3958	1530	1725	3894	1508	1500	3554	1581	3456	3554	1572	
Grp Volume(v), veh/h	75	2634	108	130	511	120	152	304	424	304	185	54	
Grp Sat Flow(s), veh/h/lr		1979	1530	1725	1947	1508	1500	1777	1581	1728	1777	1572	
Q Serve(g_s), s	7.1	97.4	1.6	10.6	0.4	0.2	17.6	14.7	36.0	12.6	9.2	5.9	
	7.1	97.4 97.4	1.6	10.6	0.4	0.2	17.6	14.7	36.0	12.0	9.2	5.9	
Cycle Q Clear(g_c), s	1.00	97.4	1.00	1.00	0.4	1.00	1.00	14.7	1.00	12.0	9.2	1.00	
Prop In Lane		2141	828	102	1925	745	317	762	432	242	253	112	
Lane Grp Cap(c), veh/h				1.28								0.48	
V/C Ratio(X)	0.44	1.23	0.13		0.27	0.16	0.48	0.40	0.98	1.26	0.73		
Avail Cap(c_a), veh/h	169	2141	828	102	1925	745	317	829	462	242	744	329	
HCM Platoon Ratio	1.33	1.33	1.33	2.00	2.00	2.00	0.33	0.33	0.33	1.00	1.00	1.00	
Upstream Filter(I)	0.09	0.09	0.09	0.97	0.97	0.97	0.70	0.70	0.70	1.00	1.00	1.00	
Uniform Delay (d), s/vel		25.2	2.1	79.4	0.5	0.5	74.2	72.5	48.7	83.7	81.9	80.4	
Incr Delay (d2), s/veh	0.1	104.0	0.0	180.7	0.3	0.4	0.3	0.1	28.9	144.6	1.5	1.2	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh		65.3	1.3	9.5	0.2	0.1	7.1	7.1	18.7	10.4	4.2	2.4	
Unsig. Movement Delay			0.4	000 4	0.0	4.0	745	70.0		000.0	00 5	04.0	
LnGrp Delay(d),s/veh	74.0	129.2	2.1	260.1	0.8	1.0	74.5	72.6	77.7	228.3	83.5	81.6	
LnGrp LOS	E	F	A	F	A	A	E	E	E	F	F	F	
Approach Vol, veh/h		2817			761			880			543		
Approach Delay, s/veh		122.9			45.1			75.4			164.4		
Approach LOS		F			D			E			F		
Timer - Assigned Phs	1	2	3	4	5	6	7	8					
Phs Duration (G+Y+Rc)	). \$5.0	103.4	42.4	19.2	23.4	95.0	17.0	44.6					
Change Period (Y+Rc),		6.0	4.4	6.4	6.0	* 6	4.4	6.0					
Max Green Setting (Gm		94.0	16.5	37.7	15.6	* 89	12.6	42.0					
Max Q Clear Time (g_c		99.4	19.6	11.2	9.1	2.4	14.6	38.0					
Green Ext Time (p_c), s		0.0	0.0	0.3	0.0	1.0	0.0	0.4					
Intersection Summary													
HCM 6th Ctrl Delay			107.2										
HCM 6th LOS			F										
Notes													

	٠	-	7	-	+	*	1	Ť	1	1	ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ä	††	1	à	<b>^</b>	1		र्स	1	٦	1	1	
Traffic Volume (veh/h)	170	2710	70	50	640	50	40	40	80	50	0	30	
Future Volume (veh/h)	170	2710	70	50	640	50	40	40	80	50	0	30	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	Ū	0.97	1.00	Ū	0.97	0.99	v	0.98	0.99	v	0.98	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach		No	1.00		No		1.00	No	1.00	1.00	No		
	1811	2049	1811	1811	2049	1739	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	177	2823	73	54	696	54	58	58	116	68	0	41	
Peak Hour Factor	0.96	0.96	0.96	0.92	0.92	0.92	0.69	0.69	0.69	0.74	0.74	0.74	
Percent Heavy Veh, %	6	6	6	6	6	6	2	2	2	2	2	2	
Cap, veh/h	370	2846	1089	54	2098	772	141	132	239	145	286	239	
Arrive On Green	0.43	1.00	1.00	0.06	1.00	1.00	0.15	0.15	0.15	0.15	0.00	0.15	
Sat Flow, veh/h	1725	3894	1490	1725	3894	1432	726	862	1560	1199	1870	1560	
Grp Volume(v), veh/h	177	2823	73	54	696	54	116	002	116	68	0	41	
Grp Sat Flow(s), veh/h/ln		2823 1947	1490	54 1725	090 1947	54 1432	1587	0	1560	1199	0 1870	4 I 1560	
				5.6		0.0	9.8	0.0	12.2	9.9	0.0	4.1	
Q Serve(g_s), s	13.3 13.3	0.0 0.0	0.0 0.0	5.6	0.0 0.0		9.0 11.8		12.2	9.9 21.7	0.0	4.1	
Cycle Q Clear(g_c), s		0.0			0.0	0.0		0.0			0.0		
Prop In Lane	1.00	0046	1.00	1.00	2000	1.00	0.50	٥	1.00	1.00	000	1.00	
Lane Grp Cap(c), veh/h		2846	1089	54	2098	772	273	0	239	145	286	239	
V/C Ratio(X)	0.48	0.99	0.07	1.01	0.33	0.07	0.43	0.00	0.49	0.47	0.00	0.17	
Avail Cap(c_a), veh/h	370	2846	1089	54	2098	772	338	0	303	195	364	303	
HCM Platoon Ratio	2.00	2.00	2.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	0.09	0.09	0.09	0.98	0.98	0.98	1.00	0.00	1.00	1.00	0.00	1.00	
Uniform Delay (d), s/veh		0.0	0.0	84.4	0.0	0.0	69.4	0.0	69.8	79.4	0.0	66.3	
Incr Delay (d2), s/veh	0.0	3.5	0.0	123.4	0.4	0.2	0.4	0.0	0.6	0.9	0.0	0.1	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh		1.4	0.0	4.2	0.1	0.0	5.0	0.0	5.0	3.1	0.0	1.7	
Unsig. Movement Delay			0.0	007.0	0.4	0.0	00.0	0.0	70.0	00.0	0.0	00.4	
LnGrp Delay(d),s/veh	44.2	3.5		207.8	0.4	0.2	69.8	0.0	70.3	80.3	0.0	66.4	
LnGrp LOS	D	A	A	F	A	A	E	A	E	F	A	<u> </u>	
Approach Vol, veh/h		3073			804			232			109		
Approach Delay, s/veh		5.8			14.3			70.1			75.1		
Approach LOS		А			В			E			E		
Timer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Rc)	, \$0.0	137.6		32.4	44.6	103.0		32.4					
Change Period (Y+Rc),		6.0		4.9	6.0	* 6		4.9					
Max Green Setting (Gm				35.0	32.7	* 97		35.0					
Max Q Clear Time (g_c+				23.7	15.3	2.0		14.2					
Green Ext Time (p_c), s				0.1	0.2	8.8		0.6					
Intersection Summary													
HCM 6th Ctrl Delay			12.8										
HCM 6th LOS			B										

	۶	+	>	1	+	•	•	t	1	4	Ţ	1	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	A	<b>^</b>	1	A	<b>^</b>	1		4		٦	1	1	
Traffic Volume (veh/h)	30	2820	20	50	700	70	10	10	40	70	10	10	
Future Volume (veh/h)	30	2820	20	50	700	70	10	10	40	70	10	10	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.97	0.99		0.98	0.99		0.97	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac	ch	No			No			No			No		
Adj Sat Flow, veh/h/ln	1811	2049	1739	1811	2049	1739	1870	1870	1870	1870	1870	1796	
Adj Flow Rate, veh/h	31	2938	21	52	722	72	13	13	51	119	17	17	
Peak Hour Factor	0.96	0.96	0.96	0.97	0.97	0.97	0.78	0.78	0.78	0.59	0.59	0.59	
Percent Heavy Veh, %	6	6	6	6	6	6	2	2	2	2	2	2	
Cap, veh/h	190	2685	985	155	2600	955	46	50	143	204	254	200	
Arrive On Green	0.22	1.00	1.00	0.09	0.67	0.67	0.14	0.14	0.14	0.14	0.14	0.14	
Sat Flow, veh/h	1725	3894	1429	1725	3894	1431	169	370	1057	1322	1870	1478	
Grp Volume(v), veh/h	31	2938	21	52	722	72	77	0	0	119	17	17	
Grp Sat Flow(s),veh/h/l		1947	1429	1725	1947	1431	1596	0	0	1322	1870	1478	
Q Serve(g_s), s	2.6	124.1	0.0	5.1	13.6	3.2	0.0	0.0	0.0	10.0	1.4	1.8	
Cycle Q Clear(g_c), s	2.6	124.1	0.0	5.1	13.6	3.2	7.6	0.0	0.0	17.6	1.4	1.8	
Prop In Lane	1.00		1.00	1.00		1.00	0.17		0.66	1.00		1.00	
Lane Grp Cap(c), veh/h	190	2685	985	155	2600	955	240	0	0	204	254	200	
V/C Ratio(X)	0.16	1.09	0.02	0.34	0.28	0.08	0.32	0.00	0.00	0.58	0.07	0.08	
Avail Cap(c_a), veh/h	190	2685	985	155	2600	955	332	0	0	282	364	287	
HCM Platoon Ratio	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	0.19	0.19	0.19	0.85	0.85	0.85	1.00	0.00	0.00	1.00	1.00	1.00	
Uniform Delay (d), s/vel	h 63.5	0.0	0.0	76.8	12.2	10.5	70.5	0.0	0.0	75.5	67.9	68.0	
Incr Delay (d2), s/veh	0.0	43.9	0.0	0.4	0.2	0.1	0.3	0.0	0.0	1.0	0.0	0.1	
Initial Q Delay(d3),s/vel	n 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),vel	h/In1.1	16.4	0.0	2.3	5.8	1.0	3.3	0.0	0.0	5.4	0.7	0.7	
Unsig. Movement Delay													
LnGrp Delay(d),s/veh	63.5	43.9	0.0	77.2	12.4	10.6	70.8	0.0	0.0	76.5	67.9	68.1	
LnGrp LOS	E	F	А	E	В	В	E	А	Α	E	E	E	
Approach Vol, veh/h		2990			846			77			153		
Approach Delay, s/veh		43.8			16.2			70.8			74.6		
Approach LOS		D			В			E			E		
Timer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Rc)	), 20.6	130.1		29.3	24.2	126.5		29.3					
Change Period (Y+Rc),		6.0		4.9	4.4	6.3		4.9					
Max Green Setting (Gr	1ax5,.6	124.1		35.0	9.2	120.2		35.0					
Max Q Clear Time (g_c		126.1		19.6	4.6	15.6		9.6					
Green Ext Time (p_c), s	s 0.0	0.0		0.2	0.0	6.7		0.2					
Intersection Summary													
HCM 6th Ctrl Delay			39.7										
HCM 6th LOS			D										
Nataa													

	٠	-	7	1	+	*	1	t	1	1	ţ	1	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	A	<b>≜</b> †₽		à	<b>≜</b> †₽		٦	1	1	٦	<b>†</b>	1	
Traffic Volume (veh/h)	250	2000	630	60	620	50	140	180	60	20	80	110	
Future Volume (veh/h)	250	2000	630	60	620	50	140	180	60	20	80	110	
nitial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.97	1.00		0.98	1.00		0.99	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Nork Zone On Approac		No			No			No			No		
Adj Sat Flow, veh/h/ln	1811	2049	1811	1811	2049	1811	1870	1870	1870	1870	1870	1870	
dj Flow Rate, veh/h	263	2105	663	65	667	54	161	207	69	24	96	133	
Peak Hour Factor	0.95	0.95	0.95	0.93	0.93	0.93	0.87	0.87	0.87	0.83	0.83	0.83	
ercent Heavy Veh, %	6	6	6	6	6	6	2	2	2	2	2	2	
Cap, veh/h	282	1830	542	134	1986	161	135	302	250	31	193	161	
Arrive On Green	0.16	0.62	0.62	0.16	1.00	1.00	0.08	0.16	0.16	0.02	0.10	0.10	
at Flow, veh/h	1725	2939	870	1725	3639	294	1781	1870	1550	1781	1870	1567	
Grp Volume(v), veh/h	263	1349	1419	65	357	364	161	207	69	24	96	133	
Srp Sat Flow(s),veh/h/lr		1947	1862	1725	1947	1986	1781	1870	1550	1781	1870	1567	
Serve(g_s), s	27.1	112.1	112.1	6.2	0.0	0.0	13.6	18.8	5.9	2.4	8.7	15.0	
ycle Q Clear(g_c), s	27.1	112.1	112.1	6.2	0.0	0.0	13.6	18.8	5.9	2.4	8.7	15.0	
rop In Lane	1.00	112.1	0.47	1.00	0.0	0.15	1.00	10.0	1.00	1.00	0.7	1.00	
ane Grp Cap(c), veh/h		1212	1160	134	1063	1084	135	302	250	31	193	161	
C Ratio(X)	0.93	1.11	1.22	0.49	0.34	0.34	1.20	0.69	0.28	0.79	0.50	0.82	
vail Cap(c_a), veh/h	418	1212	1160	134	1063	1084	135	376	312	63	301	252	
CM Platoon Ratio	1.00	1.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	
	0.09	0.09	0.09	0.94	0.94	0.94	1.00	1.00	1.00	1.00	1.00	1.00	
pstream Filter(I)		33.9	34.0	72.8		0.94	83.2	71.2	45.9	88.1	76.3	79.1	
niform Delay (d), s/veh					0.0			2.2				6.3	
cr Delay (d2), s/veh	2.4	51.8	101.6	1.0	0.8	0.8	139.8		0.2	15.0	0.7		
itial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
ile BackOfQ(50%),veh		65.9	79.1	2.7	0.2	0.2	11.6	9.3	2.3	1.3	4.3	6.4	
nsig. Movement Delay		85.7	125.6	70 7	0 0	0.8	<u> </u>	72 /	16 1	103.1	77 4	85.4	
nGrp Delay(d),s/veh	76.7		135.6	73.7	0.8			73.4	46.1		77.1		
nGrp LOS	E	F	F	E	A	A	F	E	D	F	<u>E</u>	F	
pproach Vol, veh/h		3031			786			437			253		
pproach Delay, s/veh		108.3 F			6.8			124.2			83.9		
oproach LOS		F			A			F			F		
mer - Assigned Phs	1	2	3	4	5	6	7	8					
hs Duration (G+Y+Rc)	, 20.5	118.1	18.0	23.4	33.8	104.8	7.5	34.0					
hange Period (Y+Rc),		* 6	4.4	4.9	4.4	6.5	4.4	4.9					
ax Green Setting (Gm			13.6	29.0	43.6	73.6	6.4	36.2					
lax Q Clear Time (g_c-			15.6	17.0	29.1	2.0	4.4	20.8					
reen Ext Time (p_c), s		0.0	0.0	0.4	0.3	5.0	0.0	0.8					
<i>u</i> = <i>V</i>													
ntersection Summary			00.0										
ICM 6th Ctrl Delay			90.8										
ICM 6th LOS			F										
lotes													
	11.7												

	۶	-	7	-	-	•	1	Ť	1	4	Ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	A	<b>≜</b> î,		A	<b>^</b>	1	٦	A		٦	<b>≜</b> †}		
Traffic Volume (veh/h)	40	1450	200	60	540	30	140	60	30	20	50	20	
Future Volume (veh/h)	40	1450	200	60	540	30	140	60	30	20	50	20	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		0.98	1.00		0.98	1.00		0.96	1.00		0.96	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac	ch	No			No			No			No		
Adj Sat Flow, veh/h/ln	1811	2049	1811	1781	2016	1781	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	42	1526	211	65	587	33	161	69	34	22	54	22	
Peak Hour Factor	0.95	0.95	0.95	0.92	0.92	0.92	0.87	0.87	0.87	0.92	0.92	0.92	
Percent Heavy Veh, %	6	6	6	8	8	8	2	2	2	2	2	2	
Cap, veh/h	358	1761	239	342	1943	751	185	243	110	127	177	67	
Arrive On Green	0.41	1.00	1.00	0.40	1.00	1.00	0.10	0.10	0.10	0.07	0.07	0.07	
Sat Flow, veh/h	1725	3434	467	1697	3830	1480	1781	2339	1059	1781	2487	941	
Grp Volume(v), veh/h	42	854	883	65	587	33	161	51	52	22	37	39	
Grp Sat Flow(s), veh/h/l		1947	1954	1697	1915	1480	1781	1777	1622	1781	1777	1652	
Q Serve(g_s), s	2.7	0.0	0.0	4.5	0.0	0.0	16.0	4.8	5.3	2.1	3.6	4.0	
Cycle Q Clear( $g_c$ ), s	2.7	0.0	0.0	4.5	0.0	0.0	16.0	4.8	5.3	2.1	3.6	4.0	
Prop In Lane	1.00	0.0	0.24	1.00	0.0	1.00	1.00	1.0	0.65	1.00	0.0	0.57	
Lane Grp Cap(c), veh/h		998	1002	342	1943	751	185	185	168	127	126	117	
V/C Ratio(X)	0.12	0.86	0.88	0.19	0.30	0.04	0.87	0.28	0.31	0.17	0.30	0.33	
Avail Cap(c_a), veh/h	358	998	1002	342	1943	751	238	238	217	337	337	313	
HCM Platoon Ratio	2.00	2.00	2.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	0.09	0.09	0.09	0.85	0.85	0.85	1.00	1.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/ve		0.0	0.0	44.2	0.0	0.0	79.5	74.4	74.7	78.6	79.3	79.5	
Incr Delay (d2), s/veh	0.0	0.9	1.2	0.1	0.3	0.1	24.4	1.0	1.3	1.0	2.0	2.5	
Initial Q Delay(d3),s/vel		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),vel		0.3	0.3	1.8	0.1	0.0	8.7	2.3	2.3	1.0	1.7	1.8	
Unsig. Movement Delay			0.0		0.1	0.0	0.1	2.0	2.0		•••	1.0	
LnGrp Delay(d),s/veh	42.6	0.9	1.2	44.3	0.3	0.1	103.9	75.4	76.0	79.6	81.3	82.0	
LnGrp LOS	μ <u>2.</u> 0	A	A	0 D	A	A	F	E	70.0 E	70.0 E	61.0 F	62.0 F	
Approach Vol, veh/h		1779	, ,		685	, (		264		_	98		
Approach Delay, s/veh		2.0			4.5			92.9			81.2		
Approach LOS		2.0 A			A.			52.5 F			51.2 F		
Timer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Rc	) \$ 0 7	98.0		17.7	41.7	97.0		23.6					
Change Period (Y+Rc),		5.7		4.9	41.7	5.7		4.9					
Max Green Setting (Gr		92.3		34.1	10.6	91.3		24.1					
Max Q Clear Time (g_c		92.3 2.0		6.0	4.7	2.0		18.0					
Green Ext Time (p_c),		41.2		0.0	4.7	8.0		0.7					
м <i>=</i> 7	3 0.0	71.2		0.7	0.0	0.0		0.1					
Intersection Summary													
HCM 6th Ctrl Delay			13.9										
HCM 6th LOS			В										
N													

	٠	<b>→</b>	7	1	+	*	1	t	1	4	ŧ	4	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	A	<b>^</b>	1	<u>ሕ</u> ካ	<b>^</b>	1	٦	<b>↑</b>	1	٦	ţ,		
Traffic Volume (veh/h)	820	690	30	20	280	310	20	180	20	420	150	270	
Future Volume (veh/h)	820	690	30	20	280	310	20	180	20	420	150	270	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		0.98	1.00		0.95	0.99		0.97	0.99		0.98	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No			No			No			No		
Adj Sat Flow, veh/h/ln	1781	2016	1710	1781	2016	1710	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	891	750	33	22	304	337	21	189	21	477	170	307	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.95	0.95	0.95	0.88	0.88	0.88	
Percent Heavy Veh, %	8	8	8	8	8	8	2	2	2	2	2	2	
Cap, veh/h	647	1832	679	155	581	208	163	718	591	406	227	409	
Arrive On Green	0.51	0.64	0.64	0.05	0.15	0.15	0.38	0.38	0.38	0.38	0.38	0.38	
Sat Flow, veh/h	1697	3830	1419	3291	3830	1370	912	1870	1538	1162	590	1066	
Grp Volume(v), veh/h	891	750	33	22	304	337	21	189	21	477	0	477	
Grp Sat Flow(s), veh/h/li		1915	1419	1646	1915	1370	912	1870	1538	1162	0	1656	
Q Serve(g_s), s	68.6	17.3	1.6	1.2	13.2	27.3	3.7	12.5	1.5	56.6	0.0	44.9	
Cycle Q Clear( $g_c$ ), s	68.6	17.3	1.6	1.2	13.2	27.3	48.5	12.5	1.5	69.1	0.0	44.9	
Prop In Lane	1.00	11.0	1.00	1.00	10.2	1.00	1.00	12.0	1.00	1.00	0.0	0.64	
Lane Grp Cap(c), veh/h		1832	679	155	581	208	163	718	591	406	0	636	
V/C Ratio(X)	1.38	0.41	0.05	0.14	0.52	1.62	0.13	0.26	0.04	1.18	0.00	0.75	
Avail Cap(c_a), veh/h	647	1832	679	179	581	208	163	718	591	406	0.00	636	
HCM Platoon Ratio	1.33	1.33	1.33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	0.64	0.64	0.64	0.95	0.95	0.95	1.00	1.00	1.00	1.00	0.00	1.00	
Uniform Delay (d), s/vel		20.2	17.4	82.3	70.4	76.3	69.0	38.0	34.6	64.5	0.0	48.0	
Incr Delay (d2), s/veh		0.4	0.1	0.1	3.2	299.8	0.1	0.1	0.0	102.3	0.0	4.4	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),vel		6.9	0.5	0.5	6.7	26.8	0.9	5.9	0.6	30.6	0.0	19.5	
Unsig. Movement Delay			0.0	0.0	0.1	20.0	0.0	0.0	0.0	00.0	0.0	10.0	
LnGrp Delay(d),s/veh		20.7	17.5	82.4	73.5	376.2	69.1	38.1	34.6	166.8	0.0	52.4	
LnGrp LOS	F	C	B	52.1	E	F	E	D	C	F	A	D	
Approach Vol, veh/h	•	1674	_	·	663		_	231	•	· · ·	954		
Approach Delay, s/veh		127.1			227.7			40.6			109.6		
Approach LOS		F			F			-0.0 D			F		
					-								
Timer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Rc)		91.8		74.0	73.0	33.0		74.0					
Change Period (Y+Rc),		* 5.7		4.9	4.4	5.7		4.9					
Max Green Setting (Grr		* 86		69.1	68.6	27.3		69.1					
Max Q Clear Time (g_c		19.3		71.1	70.6	29.3		50.5					
Green Ext Time (p_c), s	s 0.0	7.7		0.0	0.0	0.0		0.7					
Intersection Summary													
HCM 6th Ctrl Delay			135.6										
HCM 6th LOS			F										
Notes													

	۶	<b>→</b>	7	-	+	٠	1	t	1	4	ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	<u>ሕ</u> ካ	<b>≜</b> †₽		ሕካ	<b>^</b>	1	à	<b>^</b>	1	ካካ	<b>^</b>	1	
Traffic Volume (veh/h)	50	1270	10	370	540	830	20	350	320	1070	160	20	
Future Volume (veh/h)	50	1270	10	370	540	830	20	350	320	1070	160	20	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		0.96	1.00		0.98	1.00	-	0.90	1.00	-	0.94	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No			No			No			No		
Adj Sat Flow, veh/h/ln	1500	2016	1781	1500	2016	1781	1550	1841	1841	1811	1811	1739	
Adj Flow Rate, veh/h	52	1323	10	402	587	902	22	380	348	1163	174	22	
Peak Hour Factor	0.96	0.96	0.96	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	
Percent Heavy Veh, %	8	8	8	8	8	8	4	4	4	6	6	6	
Cap, veh/h	62	1428	11	1279	3116	1198	26	1061	298	718	1420	575	
Arrive On Green	0.01	0.12	0.12	0.77	1.00	1.00	0.02	0.21	0.21	0.21	0.41	0.41	
Sat Flow, veh/h	2772	3895	29	2772	3830	1472	1476	5025	1412	3346	3441	1392	
	52	650	683	402	587	902	22	380	348	1163	174	22	
Grp Volume(v), veh/h													
Grp Sat Flow(s),veh/h/l		1915	2009	1386	1915	1472	1476	1675	1412	1673	1721	1392	
Q Serve(g_s), s	3.4	60.5	60.5	7.9	0.0	0.0	2.7	11.6	38.0	38.6	5.6	1.7	
Cycle Q Clear(g_c), s	3.4	60.5	60.5	7.9	0.0	0.0	2.7	11.6	38.0	38.6	5.6	1.7	
Prop In Lane	1.00		0.01	1.00		1.00	1.00		1.00	1.00		1.00	
Lane Grp Cap(c), veh/h		702	737	1279	3116	1198	26	1061	298	718	1420	575	
V/C Ratio(X)	0.84	0.93	0.93	0.31	0.19	0.75	0.86	0.36	1.17	1.62	0.12	0.04	
Avail Cap(c_a), veh/h	62	702	737	1279	3116	1198	57	1061	298	718	1420	575	
HCM Platoon Ratio	0.33	0.33	0.33	1.67	1.67	1.67	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	0.65	0.65	0.65	0.35	0.35	0.35	1.00	1.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/ve		76.7	76.7	12.0	0.0	0.0	88.2	60.6	71.0	70.7	32.7	31.5	
Incr Delay (d2), s/veh	44.8	14.5	14.1	0.0	0.0	1.6	24.8	0.4	105.6	285.7	0.1	0.0	
Initial Q Delay(d3),s/vel		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),ve	h/In1.6	34.2	35.8	2.2	0.0	0.5	1.2	5.0	22.4	44.9	2.4	0.6	
Unsig. Movement Delay	y, s/veh	1											
LnGrp Delay(d),s/veh	133.8	91.2	90.8	12.0	0.0	1.6	113.0	60.9	176.6	356.4	32.8	31.6	
LnGrp LOS	F	F	F	В	А	А	F	Е	F	F	С	С	
Approach Vol, veh/h		1385			1891			750			1359		
Approach Delay, s/veh		92.6			3.3			116.1			309.7		
Approach LOS		F			А			F			F		
Timer - Assigned Phs	1	2	3	4	5	6	7	8					
Phs Duration (G+Y+Rc	) 90 0	71.8	7.5	80.0	8.4		44.3	43.2					
Change Period (Y+Rc)		* 5.8	4.4	5.7	4.4	5.7	5.7	* 5.2					
Max Green Setting (Gn		* 66	7.0	69.1	4.0	79.7	38.6	* 38					
Max Q Clear Time (g_c		62.5	4.7	7.6	4.0 5.4	2.0	40.6	40.0					
Green Ext Time (p_c),		3.0	0.0	1.9	0.0	39.8	40.0	40.0					
Intersection Summary													
HCM 6th Ctrl Delay			119.3										
HCM 6th LOS			119.3 F										
			I.										
Notes													

	۶	-	7	-	-	*	1	Ť	1	4	ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	5	<b>†</b> †	1	٦	<b>≜</b> †₽		ň	4		5	<b>†</b>	1	
Traffic Volume (veh/h)	200	2190	120	10	1820	10	120	10	10	10	10	220	
Future Volume (veh/h)	200	2190	120	10	1820	10	120	10	10	10	10	220	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	-	0.97	1.00		0.97	1.00		0.97	1.00	-	0.97	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No			No			No			No		
Adj Sat Flow, veh/h/ln	1500	2016	1781	1811	2049	1811	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	204	2235	122	11	1978	11	140	12	12	11	11	247	
Peak Hour Factor	0.98	0.98	0.98	0.92	0.92	0.92	0.86	0.86	0.86	0.89	0.89	0.89	
Percent Heavy Veh, %	8	8	8	6	6	6	2	2	2	2	2	2	
Cap, veh/h	224	2344	898	16	1826	10	154	75	75	327	349	287	
Arrive On Green	0.31	1.00	1.00	0.02	0.92	0.92	0.09	0.09	0.09	0.18	0.19	0.19	
Sat Flow, veh/h	1429	3830	1467	1725	3969	22	1781	844	844	1781	1870	1538	
Grp Volume(v), veh/h	204	2235	122	11	969	1020	140	0	24	11	11	247	
Grp Sat Flow(s), veh/h/l		1915	1467	1725	1947	2045	1781	0	1687	1781	1870	1538	
Q Serve(g_s), s	24.7	0.0	0.0	1.1	82.8	82.8	14.0	0.0	2.4	0.9	0.9	28.0	
Cycle Q Clear(g_c), s	24.7	0.0	0.0	1.1	82.8	82.8	14.0	0.0	2.4	0.9	0.9	28.0	
Prop In Lane	1.00	0.0	1.00	1.00	•=••	0.01	1.00		0.50	1.00	0.0	1.00	
Lane Grp Cap(c), veh/h		2344	898	16	896	941	154	0	150	327	349	287	
V/C Ratio(X)	0.91	0.95	0.14	0.68	1.08	1.08	0.91	0.00	0.16	0.03	0.03	0.86	
Avail Cap(c_a), veh/h	224	2344	898	38	896	941	154	0	457	327	405	333	
HCM Platoon Ratio	2.00	2.00	2.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	0.09	0.09	0.09	0.74	0.74	0.74	1.00	0.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/ve		0.0	0.0	88.0	7.2	7.2	81.5	0.0	75.7	60.3	59.9	71.0	
Incr Delay (d2), s/veh	5.6	1.3	0.0	12.8	51.1	51.5	45.2	0.0	0.2	0.0	0.0	16.3	
Initial Q Delay(d3),s/vel		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),vel		0.4	0.0	0.6	16.1	17.0	8.4	0.0	1.0	0.4	0.4	12.4	
Unsig. Movement Delay		1											
LnGrp Delay(d),s/veh	66.2	1.3	0.0	100.8	58.3	58.7	126.7	0.0	75.9	60.3	59.9	87.3	
LnGrp LOS	Е	А	А	F	F	F	F	А	Е	Е	Е	F	
Approach Vol, veh/h		2561			2000			164			269		
Approach Delay, s/veh		6.4			58.7			119.3			85.0		
Approach LOS		А			Е			F			F		
Timer - Assigned Phs	1	2	3	4	5	6	7	8					
Phs Duration (G+Y+Rc	) s6 1		20.0	38.4	33.5	88.1	37.5	21.0					
Change Period (Y+Rc),		5.3	4.4	4.9	5.3	* 5.3	4.4	4.9					
Max Green Setting (Gr			15.6	39.0	23.6	* 83	5.9	48.7					
Max Q Clear Time (g_c		2.0	16.0	30.0	26.7	84.8	2.9	40.7					
Green Ext Time (p_c), s		76.7	0.0	0.3	0.0	0.0	0.0	0.1					
~ ~ /·	0.0	10.1	0.0	0.0	0.0	0.0	0.0	0.1					
Intersection Summary			25.0										
HCM 6th Ctrl Delay			35.3										
HCM 6th LOS			D										
Notes													

	٠	+	*	4	Ļ	•	1	t	1	4	ţ	4	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	à	<b>≜</b> †₽		A	<b>≜</b> †₽		٦	ħ		٦	÷.	1	
Traffic Volume (veh/h)	40	2050	50	160	1140	130	70	230	80	130	160	20	
Future Volume (veh/h)	40	2050	50	160	1140	130	70	230	80	130	160	20	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	•	0.97	1.00	•	0.97	1.00	•	0.96	1.00	•	0.96	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No	1.00	1.00	No	1.00	1.00	No	1.00	1.00	No	1.00	
Adj Sat Flow, veh/h/ln	1811	2049	1811	1811	2049	1811	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	41	2092	51	170	1213	138	83	274	95	159	195	24	
Peak Hour Factor	0.98	0.98	0.98	0.94	0.94	0.94	0.84	0.84	0.84	0.82	0.82	0.82	
	0.90	0.90	0.90	0.94	0.94	0.94	2	2	2	0.02	0.02	0.02	
Percent Heavy Veh, %	230	1719	42	266	1631	185	278	205	71	247	259	211	
Cap, veh/h										0.14	259 0.14		
Arrive On Green	0.27	0.89	0.89	0.31	0.93	0.93	0.16	0.16	0.16			0.14	
Sat Flow, veh/h	1725	3881	94	1725	3511	398	1781	1313	455	1781	1870	1521	
Grp Volume(v), veh/h	41	1044	1099	170	671	680	83	0	369	159	195	24	
Grp Sat Flow(s),veh/h/l		1947	2029	1725	1947	1963	1781	0	1768	1781	1870	1521	
Q Serve(g_s), s	3.3	79.7	79.7	15.3	14.2	14.5	7.4	0.0	28.1	15.2	18.0	2.5	
Cycle Q Clear(g_c), s	3.3	79.7	79.7	15.3	14.2	14.5	7.4	0.0	28.1	15.2	18.0	2.5	
Prop In Lane	1.00		0.05	1.00		0.20	1.00		0.26	1.00		1.00	
ane Grp Cap(c), veh/h	230	862	898	266	904	912	278	0	276	247	259	211	
//C Ratio(X)	0.18	1.21	1.22	0.64	0.74	0.75	0.30	0.00	1.34	0.64	0.75	0.11	
Avail Cap(c_a), veh/h	230	862	898	266	904	912	278	0	276	367	386	313	
ICM Platoon Ratio	2.00	2.00	2.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	
Jpstream Filter(I)	0.43	0.43	0.43	0.81	0.81	0.81	1.00	0.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/vel		10.3	10.3	57.9	3.9	3.9	67.2	0.0	76.0	73.3	74.6	67.9	
ncr Delay (d2), s/veh	0.1	99.9	105.1	3.2	4.5	4.5	0.2	0.0	174.0	1.1	1.9	0.1	
nitial Q Delay(d3),s/vel		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),vel		28.7	31.2	6.1	3.3	3.4	3.5	0.0	26.3	7.1	8.9	1.0	
Jnsig. Movement Delay			01.2	0.1	0.0	0.4	0.0	0.0	20.0	1.1	0.0	1.0	
_nGrp Delay(d),s/veh	58.5	110.2	115.4	61.1	8.4	8.5	67.4	0.0	250.0	74.4	76.4	67.9	
InGrp LOS	50.5 E	F	115.4 F	E	0.4 A	0.5 A	07.4 E	0.0 A	200.0 F	74.4 E	70.4 E	67.9 E	
	E		Г	E		А	Ē		Г	Ľ		E	
Approach Vol, veh/h		2184			1521			452			378		
Approach Delay, s/veh		111.8			14.3			216.5			75.0		
Approach LOS		F			В			F			E		
Timer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Rc)	). 32.2	85.0		29.8	28.4	88.8		33.0					
Change Period (Y+Rc),		5.3		4.9	4.4	5.2		4.9					
Max Green Setting (Gm		79.7		37.1	11.8	83.6		28.1					
Max Q Clear Time (g_c		81.7		20.0	5.3	16.5		30.1					
Green Ext Time (p_c), s		0.0		0.9	0.0	30.5		0.0					
<i>u</i> = <i>7</i> ·	5 0.0	0.0		0.5	0.0	00.0		0.0					
Intersection Summary													
HCM 6th Ctrl Delay			86.5										
HCM 6th LOS			F										
Notoo													
Notes													
User approved volume					or turnir	ng move	ement.						

	۶	-	7	*	+	1	1	t	1	4	ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	1	<b>≜</b> î,		A	<b>≜</b> †₽			र्स	1		4		
Traffic Volume (veh/h)	40	1870	240	30	1280	20	200	50	20	10	20	20	
Future Volume (veh/h)	40	1870	240	30	1280	20	200	50	20	10	20	20	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	•	0.97	1.00		0.99	1.00		0.98	1.00	•	0.98	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach		No			No			No			No		
Adj Sat Flow, veh/h/ln	1811	2049	1811	1525	2049	1811	1870	1870	1796	1870	1870	1870	
Adj Flow Rate, veh/h	41	1928	247	33	1391	22	215	54	22	13	26	26	
Peak Hour Factor	0.97	0.97	0.97	0.92	0.92	0.92	0.93	0.93	0.93	0.78	0.78	0.78	
Percent Heavy Veh, %	6	6	6	6	6	6	2	2	2	2	2	2	
Cap, veh/h	103	2140	267	52	2327	37	136	25	398	24	46	31	
Arrive On Green	0.12	1.00	1.00	0.07	1.00	1.00	0.27	0.27	0.27	0.27	0.27	0.27	
Sat Flow, veh/h	1725	3471	433	1452	3923	62	374	94	1488	0.27	171	114	
Grp Volume(v), veh/h	41	1060	1115	33	690	723	269	0	22	65	0	0	
Grp Sat Flow(s), veh/h/l		1947	1957	33 1452	1947	2038	468	0	1488	285	0	0	
• • • • •				4.0		2038	400	0.0	2.0	0.0	0.0	0.0	
Q Serve(g_s), s	4.0 4.0	0.0 0.0	0.0 0.0	4.0	0.0 0.0	0.0	48.2	0.0	2.0	48.2	0.0	0.0	
Cycle Q Clear(g_c), s		0.0			0.0			0.0			0.0		
Prop In Lane	1.00	1001	0.22	1.00	1155	0.03	0.80	0	1.00	0.20	٥	0.40	
Lane Grp Cap(c), veh/h		1201	1207	52	1155	1209	161	0	398	100	0	0	
V/C Ratio(X)	0.40	0.88	0.92	0.64	0.60	0.60	1.67	0.00	0.06	0.65	0.00	0.00	
Avail Cap(c_a), veh/h	103	1201	1207	52	1155	1209	161	0	398	100	0	0	
HCM Platoon Ratio	2.00	2.00	2.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	0.09	0.09	0.09	0.92	0.92	0.92	1.00	0.00	1.00	1.00	0.00	0.00	
Uniform Delay (d), s/ve		0.0	0.0	82.5	0.0	0.0	71.3	0.0	49.0	54.6	0.0	0.0	
Incr Delay (d2), s/veh	0.1	1.0	1.6	17.2	2.1	2.0	326.0	0.0	0.0	10.8	0.0	0.0	
Initial Q Delay(d3),s/vel		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),vel		0.3	0.5	1.7	0.7	0.7	22.2	0.0	0.8	2.6	0.0	0.0	
Unsig. Movement Delay													
LnGrp Delay(d),s/veh	76.3	1.0	1.6	99.7	2.1	2.0	397.3	0.0	49.0	65.5	0.0	0.0	
LnGrp LOS	E	A	A	F	A	A	F	A	D	E	Α	A	
Approach Vol, veh/h		2216			1446			291			65		
Approach Delay, s/veh		2.7			4.3			370.9			65.5		
Approach LOS		А			А			F			E		
Timer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Rc)		116.1		53.1	15.2	111.7		53.1					
Change Period (Y+Rc),	s 4.4	5.1		4.9	4.4	4.9		4.9					
Max Green Setting (Gr		111.0		48.2	10.8	106.8		48.2					
Max Q Clear Time (g_c		2.0		50.2	6.0	2.0		50.2					
Green Ext Time (p_c),		60.2		0.0	0.0	20.8		0.0					
Intersection Summary													
HCM 6th Ctrl Delay			30.9										
HCM 6th LOS			С										
Notos													

	۶	-	7	1	+	*	1	t	1	4	ŧ	~		
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR		
Lane Configurations	A	<b>≜</b> î,		à	<b>≜</b> †₽			र्स	1		र्स	1		
Traffic Volume (veh/h)	20	1560	10	40	920	190	10	20	50	80	10	30		
Future Volume (veh/h)	20	1560	10	40	920	190	10	20	50	80	10	30		
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0		
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.97	1.00		0.99	1.00		0.99		
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Work Zone On Approac	ch	No			No			No			No			
Adj Sat Flow, veh/h/ln	1811	2049	1811	1525	2049	1811	1870	1870	1796	1870	1870	1796		
Adj Flow Rate, veh/h	21	1625	10	43	989	204	13	26	65	105	13	39		
Peak Hour Factor	0.96	0.96	0.96	0.93	0.93	0.93	0.77	0.77	0.77	0.76	0.76	0.76		
Percent Heavy Veh, %	6	6	6	6	6	6	2	2	2	2	2	2		
Cap, veh/h	73	2530	16	103	2130	438	27	42	320	38	1	320		
Arrive On Green	0.08	1.00	1.00	0.14	1.00	1.00	0.21	0.21	0.21	0.21	0.21	0.21		
Sat Flow, veh/h	1725	3967	24	1452	3198	658	0	196	1513	0	5	1513		
Grp Volume(v), veh/h	21	797	838	43	601	592	39	0	65	118	0	39		
Grp Sat Flow(s),veh/h/l		1947	2044	1452	1947	1909	196	0	1513	5	0	1513		
Q Serve(g_s), s	2.1	0.0	0.0	4.9	0.0	0.0	0.0	0.0	6.4	0.0	0.0	3.8		
Cycle Q Clear(g_c), s	2.1	0.0	0.0	4.9	0.0	0.0	38.1	0.0	6.4	38.1	0.0	3.8		
Prop In Lane	1.00		0.01	1.00		0.34	0.33		1.00	0.89		1.00		
Lane Grp Cap(c), veh/h		1242	1304	103	1297	1272	68	0	320	39	0	320		
V/C Ratio(X)	0.29	0.64	0.64	0.42	0.46	0.47	0.57	0.00	0.20	3.03	0.00	0.12		
Avail Cap(c_a), veh/h	73	1242	1304	103	1297	1272	68	0	320	39	0	320		
HCM Platoon Ratio	2.00	2.00	2.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00		
Upstream Filter(I)	0.42	0.42	0.42	0.73	0.73	0.73	1.00	0.00	1.00	1.00	0.00	1.00		
Uniform Delay (d), s/vel		0.0	0.0	73.8	0.0	0.0	60.4	0.0	58.4	88.9	0.0	57.4		
Incr Delay (d2), s/veh	0.3	1.1	1.0	0.7	0.9	0.9	7.2	0.0	0.1	980.2	0.0	0.1		
Initial Q Delay(d3),s/vel		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
%ile BackOfQ(50%),vel		0.4	0.4	1.8	0.3	0.3	1.6	0.0	2.5	12.4	0.0	1.5		
Unsig. Movement Delay														
LnGrp Delay(d),s/veh	80.2	1.1	1.0	74.5	0.9	0.9	67.6	0.0	58.61	1069.1	0.0	57.5		
LnGrp LOS	F	A	A	E	A	A	E	A	E	F	A	E		
Approach Vol, veh/h		1656			1236			104			157			
Approach Delay, s/veh		2.1			3.4			61.9			817.8			
Approach LOS		A			A			E			F			
Timer - Assigned Phs	1	2		4	5	6		8						
Phs Duration (G+Y+Rc)	) \$72			43.0		125.0		43.0						
Change Period (Y+Rc),		5.0		4.9	4.4	5.1		4.9						
Max Green Setting (Gr				38.1		119.9		38.1						
Max Q Clear Time (g_c		2.0		40.1	4.1	2.0		40.1						
Green Ext Time (p_c), s		50.7		0.0	0.0	27.4		0.0						
· · · · · · · ·	0.0	00.1		0.0	5.0			0.0						
Intersection Summary			45.0											
HCM 6th Ctrl Delay			45.2											
HCM 6th LOS			D											
N1 (														
Movement         EBL         EBT         EBR         WBL         WBT         WBL         NBL         NBT         NBL         SBL         SBL         SBR           Lane Configurations         110         120         1130         220         460         750         140         330         1070         490         260         680         160           Future Volume (veh/h)         210         1130         220         460         750         140         330         1070         490         260         680         160           Initial Q(Db), veh         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0<		٠	-	7	-	+	*	1	t	1	1	ŧ	~	
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------	------------------	-------	------	------	------	------	------	------	------	------	------	------	--
Lane Configurations <b>1 4 7 5 4 7 5 6 7 5 6 7 6 7 7 7 7 7 7 7 7 7 7</b>	Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Traffic Volume (veh/h)       210       1130       220       460       750       140       330       1070       490       260       680       160         Future Volume (veh/h)       210       1130       220       460       750       140       330       1070       490       260       680       160         Initial Q (20), veh       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0										_				
Future Volume (veh/h)       210       1130       220       460       750       140       330       1070       490       260       680       160         Initial Q(D), veh       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0	-													
Initial Q (Qb), veh       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0														
Ped-Bike Adj(A_pbT)       1.00       0.96       1.00       0.97       1.00       0.98       1.00       0.98         Parking Bus, Adj       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01       1.01	· · · · · ·													
Parking Bus, Adj       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.0			U			U			U			U		
Work Zone On Ápproach         No         No         No         No         No         No           Adj Sat Flow, vehr/h         1252         2049         1811         1575         2116         1870         1856         1856         1856         1856         1856         1856           Adj Flow Rate, vehr/h         223         1202         234         500         815         152         359         1163         533         265         694         163           Percent Heavy Veh, %         6         6         6         2         2         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3			1 00			1 00			1 00			1 00		
Adj Sat Flow, veh/h/ln       1525       2049       1811       1575       2116       1870       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       1856       <	<b>v</b>			1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Adj       Flow Rate, veh/h       223       1202       234       500       815       152       359       1163       533       265       694       163         Peak Hour Factor       0.94       0.94       0.94       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.93       0.83       0.64       0.71       0.67       0.67       0.67       0.67       0.67       0.61       0.62       0.61       0.61       0.6				1811	1575		1870	1856		1856	1856		1856	
Peak Hour Factor       0.94       0.94       0.94       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.92       0.67       0.67        Sat Flow (vb/m      201      147      147      147      143      10.01      147      13.6      19.4      5.7														
Percent Heavy Veh, %       6       6       6       2       2       2       3       3       3       3       3       3       3         Cap, veh/h       373       967       544       554       1235       610       396       1254       546       288       1178       514         Arrive On Green       0.18       0.33       0.33       0.06       0.10       0.02       0.71       0.17       0.67       0.67         Sat Flow, veh/h       2818       3894       1478       2910       4021       1538       3428       3526       1535       3428       3526       1539         Grp Volume(v), veh/h       223       1202       234       500       815       152       359       1163       13.6       19.4       5.7         Cycle Q Clear(g_c), s       13.1       44.7       11.8       30.7       35.1       0.0       18.3       50.4       59.1       13.6       19.4       5.7         Cycle Q Clear(g_c), veh/h       73       967       544       554       1235       610       396       1254       546       298       1178       514         V/C Ratio(X)       0.60       1.24       0.4														
Cap, veh/h       373       967       544       554       1235       610       396       1254       546       298       1178       514         Arrive On Green       0.18       0.33       0.33       0.06       0.10       0.10       0.23       0.71       0.71       0.17       0.67       0.67         Sat Flow, veh/h       2818       3894       1478       2910       4021       1538       3428       3526       1535       3428       3526       1539         Grp Volume(v), veh/h       223       234       500       815       152       359       1163       1535       1714       1763       1539         Grp Volume(v), veh/h       917       1478       1478       1455       2011       1538       1714       1763       1539       163       154       5.7         Cycle Q Clear(g_c), s       13.1       44.7       11.8       30.7       35.1       0.0       18.3       50.4       59.1       13.6       19.4       5.7         Prop In Lane       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       <														
Arrive On Green       0.18       0.33       0.33       0.06       0.10       0.10       0.23       0.71       0.71       0.17       0.67       0.67         Sat Flow, veh/h       2818       3894       1478       2910       4021       1538       3428       3526       1535       3428       3526       1535       3428       3526       1535       3428       3526       1539         Grp Volume(v), veh/h       223       1202       234       500       815       152       353       1535       314       163         Grp Sat Flow(s), veh/h/l/n1409       1947       1478       1455       2011       1538       1714       1763       1535       1714       1763       1539         Q Serve(g_s), s       13.1       144.7       11.8       30.7       35.1       0.0       18.3       50.4       591       13.6       19.4       5.7         Prop In Lane       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00 <td></td>														
Sat Flow, veh/h       2818       3894       1478       2910       4021       1538       3428       3526       1535       3428       3526       1539         Grp Volume(v), veh/h       223       1202       234       500       815       152       359       1163       533       265       694       163         Grp Sat Flow(s), veh/h/ln1409       1947       1478       1475       2011       1538       1714       1763       1535       1714       1763       1539         Q Serve(g_s), s       13.1       44.7       11.8       30.7       35.1       0.0       18.3       50.4       59.1       13.6       19.4       5.7         Oycle Q Clear(g_c), s       13.1       44.7       11.8       30.7       35.1       0.0       1.83       50.4       59.1       13.6       19.4       5.7         Prop In Lane       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00 </td <td></td>														
Grp Volume(v), veh/h       223       1202       234       500       815       152       359       1163       533       265       694       163         Grp Sat Flow(s),veh/h/ln1409       1947       1478       1455       2011       1538       1714       1763       1535       1714       1763       1535       1714       1763       1535       1714       1763       1535       1714       1763       1535       1714       1763       1535       1714       1763       1535       1714       1763       1535       1714       1763       1535       1714       1763       1535       1714       1763       1535       1714       1763       1535       1714       1763       1535       1714       1763       1535       1714       1763       1535       1714       1763       1535       1714       1763       1536       194       557       131       144       57         Prop In Lane       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00<														
Grp Sat Flow(s), weh/h/In1409       1947       1478       1455       2011       1538       1714       1763       1535       1714       1763       1539         Q Serve(g_s), s       13.1       44.7       11.8       30.7       35.1       0.0       18.3       50.4       59.1       13.6       19.4       5.7         Cycle Q Clear(g_c), s       13.1       44.7       11.8       30.7       35.1       0.0       18.3       50.4       59.1       13.6       19.4       5.7         Prop In Lane       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.02       1														
Q Serve(g_s), s       13.1       44.7       11.8       30.7       35.1       0.0       18.3       50.4       59.1       13.6       19.4       5.7         Cycle Q Clear(g_c), s       13.1       44.7       11.8       30.7       35.1       0.0       18.3       50.4       59.1       13.6       19.4       5.7         Prop In Lane       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00<														
Cycle Q Clear(g_c), s       13.1       44.7       11.8       30.7       35.1       0.0       18.3       50.4       59.1       13.6       19.4       5.7         Prop In Lane       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00														
Prop In Lane       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00 <td></td>														
Lane Grp Cap(c), veh/h       373       967       544       554       1235       610       396       1254       546       298       1178       514         V/C Ratio(X)       0.60       1.24       0.43       0.90       0.66       0.25       0.91       0.93       0.98       0.89       0.59       0.32         Avail Cap(c_a), veh/h       373       967       544       554       1235       610       549       1279       557       316       1178       514         HCM Platoon Ratio       1.33       1.33       0.33       0.33       0.33       2.00       2.00       2.00       2.00       2.00         Upstream Filter(I)       0.81       0.81       0.81       0.78       0.78       0.64       0.64       0.64       0.82       0.82       0.82         Uniform Delay (d), s/veh       9.7       60.3       17.0       82.7       71.8       48.9       68.3       24.0       25.3       73.5       23.1       10.8         Incr Delay (d2), s/veh       1.5       116.6       2.0       14.6       2.2       0.8       8.5       8.0       24.5       19.9       0.6       0.2         Initial Q Delay(d3),s/veh <td< td=""><td>Cycle Q Clear(g_c), s</td><td></td><td>44.7</td><td></td><td></td><td>35.1</td><td></td><td></td><td>50.4</td><td></td><td></td><td>19.4</td><td></td><td></td></td<>	Cycle Q Clear(g_c), s		44.7			35.1			50.4			19.4		
V/C Ratio(X)       0.60       1.24       0.43       0.90       0.66       0.25       0.91       0.93       0.98       0.89       0.59       0.32         Avail Cap(c_a), veh/h       373       967       544       554       1235       610       549       1279       557       316       1178       514         HCM Platcon Ratio       1.33       1.33       0.33       0.33       0.33       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00 <td>Prop In Lane</td> <td></td> <td></td> <td></td> <td>1.00</td> <td></td> <td>1.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1.00</td> <td></td>	Prop In Lane				1.00		1.00						1.00	
Avail Cap(c_a), veh/h       373       967       544       554       1235       610       549       1279       557       316       1178       514         HCM Platoon Ratio       1.33       1.33       1.33       0.33       0.33       0.33       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00	Lane Grp Cap(c), veh/ł	1 373	967	544	554	1235	610	396	1254	546	298	1178	514	
HCM Platoon Ratio       1.33       1.33       1.33       0.33       0.33       0.33       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.00       2.	V/C Ratio(X)	0.60	1.24	0.43	0.90	0.66	0.25	0.91	0.93	0.98	0.89	0.59	0.32	
Upstream Filter(I)       0.81       0.81       0.78       0.78       0.78       0.64       0.64       0.64       0.82       0.82       0.82         Uniform Delay (d), s/veh 69.7       60.3       17.0       82.7       71.8       48.9       68.3       24.0       25.3       73.5       23.1       10.8         Incr Delay (d2), s/veh       1.5       116.6       2.0       14.6       2.2       0.8       8.5       8.0       24.5       19.9       0.6       0.2         Initial Q Delay(d3),s/veh       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0 <td>Avail Cap(c_a), veh/h</td> <td>373</td> <td>967</td> <td>544</td> <td>554</td> <td>1235</td> <td>610</td> <td>549</td> <td>1279</td> <td>557</td> <td>316</td> <td>1178</td> <td>514</td> <td></td>	Avail Cap(c_a), veh/h	373	967	544	554	1235	610	549	1279	557	316	1178	514	
Uniform Delay (d), s/veh 69.7       60.3       17.0       82.7       71.8       48.9       68.3       24.0       25.3       73.5       23.1       10.8         Incr Delay (d2), s/veh       1.5       116.6       2.0       14.6       2.2       0.8       8.5       8.0       24.5       19.9       0.6       0.2         Initial Q Delay(d3), s/veh       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0	HCM Platoon Ratio	1.33	1.33	1.33	0.33	0.33	0.33	2.00	2.00	2.00	2.00	2.00	2.00	
Incr Delay (d2), s/veh       1.5       116.6       2.0       14.6       2.2       0.8       8.5       8.0       24.5       19.9       0.6       0.2         Initial Q Delay(d3),s/veh       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0	Upstream Filter(I)	0.81	0.81	0.81	0.78	0.78	0.78	0.64	0.64	0.64	0.82	0.82	0.82	
Incr Delay (d2), s/veh       1.5       116.6       2.0       14.6       2.2       0.8       8.5       8.0       24.5       19.9       0.6       0.2         Initial Q Delay(d3), s/veh       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0	Uniform Delay (d), s/ve	h 69.7	60.3	17.0	82.7	71.8	48.9	68.3	24.0	25.3	73.5	23.1	10.8	
Initial Q Delay(d3),s/veh       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0 <t< td=""><td></td><td></td><td>116.6</td><td>2.0</td><td>14.6</td><td>2.2</td><td>0.8</td><td>8.5</td><td>8.0</td><td>24.5</td><td>19.9</td><td>0.6</td><td>0.2</td><td></td></t<>			116.6	2.0	14.6	2.2	0.8	8.5	8.0	24.5	19.9	0.6	0.2	
%ile BackOfQ(50%),veh/In4.7       36.6       3.9       13.3       19.5       6.2       7.7       14.7       17.3       6.3       6.0       2.6         Unsig. Movement Delay, s/veh       LnGrp Delay(d),s/veh       71.2       176.9       19.0       97.3       74.0       49.7       76.8       32.0       49.8       93.4       23.6       11.0         LnGrp Delay(d),s/veh       71.2       176.9       19.0       97.3       74.0       49.7       76.8       32.0       49.8       93.4       23.6       11.0         LnGrp LOS       E       F       B       F       E       D       E       C       D       F       C       B         Approach Vol, veh/h       1659       1467       2055       1122            38.3                 38.3               38.3	,	h 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Unsig. Movement Delay, s/veh         LnGrp Delay(d),s/veh       71.2       176.9       19.0       97.3       74.0       49.7       76.8       32.0       49.8       93.4       23.6       11.0         LnGrp Dolay(d),s/veh       71.2       176.9       19.0       97.3       74.0       49.7       76.8       32.0       49.8       93.4       23.6       11.0         LnGrp LOS       E       F       B       F       E       D       E       C       D       F       C       B         Approach Vol, veh/h       1659       1467       2055       1122          Approach Delay, s/veh       140.4       79.4       44.5       38.3         D       D       D       D                     38.3         D       D       D       D <td></td>														
LnGrp Delay(d),s/veh       71.2       176.9       19.0       97.3       74.0       49.7       76.8       32.0       49.8       93.4       23.6       11.0         LnGrp LOS       E       F       B       F       E       D       E       C       D       F       C       B         Approach Vol, veh/h       1659       1467       2055       1122         Approach Delay, s/veh       140.4       79.4       44.5       38.3         Approach LOS       F       E       D       D       D         Timer - Assigned Phs       1       2       3       4       5       6       7       8         Phs Duration (G+Y+Rc), <b>3</b> 8.6       50.0       25.2       66.2       28.2       60.4       21.7       69.7         Change Period (Y+Rc), s 4.4       5.3       4.4       6.0       4.4       5.1       6.0       * 5.7	. ,													
LnGrp LOS       E       F       B       F       E       D       E       C       D       F       C       B         Approach Vol, veh/h       1659       1467       2055       1122         Approach Delay, s/veh       140.4       79.4       44.5       38.3         Approach LOS       F       E       D       D         Timer - Assigned Phs       1       2       3       4       5       6       7       8         Phs Duration (G+Y+Rc), <b>3</b> 8.6       50.0       25.2       66.2       28.2       60.4       21.7       69.7         Change Period (Y+Rc), s 4.4       5.3       4.4       6.0       4.4       5.1       6.0       * 5.7	<b>v</b>			19.0	97.3	74.0	49.7	76.8	32.0	49.8	93.4	23.6	11.0	
Approach Vol, veh/h       1659       1467       2055       1122         Approach Delay, s/veh       140.4       79.4       44.5       38.3         Approach LOS       F       E       D       D         Timer - Assigned Phs       1       2       3       4       5       6       7       8         Phs Duration (G+Y+Rc), <b>3</b> 8.6       50.0       25.2       66.2       28.2       60.4       21.7       69.7         Change Period (Y+Rc), s 4.4       5.3       4.4       6.0       4.4       5.1       6.0       * 5.7														
Approach Delay, s/veh       140.4       79.4       44.5       38.3         Approach LOS       F       E       D       D         Timer - Assigned Phs       1       2       3       4       5       6       7       8         Phs Duration (G+Y+Rc), <b>3</b> 8.6       50.0       25.2       66.2       28.2       60.4       21.7       69.7         Change Period (Y+Rc), s 4.4       5.3       4.4       6.0       4.4       5.1       6.0       * 5.7	•													
Approach LOS         F         E         D         D           Timer - Assigned Phs         1         2         3         4         5         6         7         8           Phs Duration (G+Y+Rc), <b>3</b> 8.6         50.0         25.2         66.2         28.2         60.4         21.7         69.7           Change Period (Y+Rc), s         4.4         5.1         6.0         * 5.7														
Timer - Assigned Phs         1         2         3         4         5         6         7         8           Phs Duration (G+Y+Rc), <b>3</b> 8.6         50.0         25.2         66.2         28.2         60.4         21.7         69.7           Change Period (Y+Rc), s         4.4         5.1         6.0         * 5.7														
Phs Duration (G+Y+Rc), <b>3</b> 8.6 50.0 25.2 66.2 28.2 60.4 21.7 69.7 Change Period (Y+Rc), s 4.4 5.3 4.4 6.0 4.4 5.1 6.0 * 5.7	Approach 200		Г			E			U			U		
Change Period (Y+Rc), s 4.4 5.3 4.4 6.0 4.4 5.1 6.0 * 5.7	Timer - Assigned Phs	1	2	3	4	5	6	7	8					
Change Period (Y+Rc), s 4.4 5.3 4.4 6.0 4.4 5.1 6.0 * 5.7	Phs Duration (G+Y+Rc	;), <b>3</b> 8.6	50.0	25.2	66.2	28.2	60.4	21.7	69.7					
		<i>,</i> ·												
Max Q Clear Time (g_c+B02,7s 46.7 20.3 21.4 15.1 37.1 15.6 61.1														
Green Ext Time ( $p_c$ ), s 0.1 0.0 0.5 4.8 0.2 9.6 0.1 2.9														
Intersection Summary	u = 7*		0.0	0.0	1.0	5.2	0.0	0.1	2.0					
HCM 6th Ctrl Delay 76.8				76.8										
HCM 6th LOS E														
Notes				E										

note

	٠	<b>→</b>	7	1	•	*	1	t	1	4	Ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	<u>ሕ</u> ግ	4111		ልካ	<b>†</b> ††	1	<u>ሕ</u> ካ	<b>≜</b> †⊅	1	ኘኘኘ	1	1	
Traffic Volume (veh/h)	150	1550	110	1270	1050	570	340	580	1380	520	410	70	
Future Volume (veh/h)	150	1550	110	1270	1050	570	340	580	1380	520	410	70	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		0.96	1.00		0.98	1.00		0.94	1.00		0.93	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach	h	No			No			No			No		
	1575	2116	1870	1563	2100	1856	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	156	1615	115	1380	1141	620	382	652	1551	559	441	75	
Peak Hour Factor	0.96	0.96	0.96	0.92	0.92	0.92	0.89	0.89	0.89	0.93	0.93	0.93	
Percent Heavy Veh, %	2	2	2	3	3	3	2	2	2	2	2	2	
Cap, veh/h	344	1359	97	908	2226	758	447	527	843	519	485	381	
Arrive On Green	0.12	0.19	0.19	0.53	0.65	0.65	0.13	0.28	0.28	0.10	0.26	0.26	
	2910	6970	496	2887	5732	1534	3563	1870	2995	5023	1870	1470	
Grp Volume(v), veh/h	156	1265	465	1380	1141	620	382	652	1551	559	441	75	
Grp Sat Flow(s), veh/h/ln		1820	2006	1444	1911	1534	1781	1870	1497	1674	1870	1470	
Q Serve(g_s), s	9.0	35.1	35.1	56.6	18.9	20.0	18.9	50.7	24.7	18.6	41.1	7.2	
Cycle Q Clear(g_c), s	9.0	35.1	35.1	56.6	18.9	20.0	18.9	50.7	24.7	18.6	41.1	7.2	
Prop In Lane	1.00	00.1	0.25	1.00	10.0	1.00	1.00	00.1	1.00	1.00		1.00	
Lane Grp Cap(c), veh/h		1065	391	908	2226	758	447	527	843	519	485	381	
V/C Ratio(X)	0.45	1.19	1.19	1.52	0.51	0.82	0.85	1.24	1.84	1.08	0.91	0.20	
Avail Cap(c_a), veh/h	352	1065	391	908	2226	758	447	527	843	519	537	422	
HCM Platoon Ratio	1.00	1.00	1.00	1.67	1.67	1.67	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	0.09	0.09	0.09	0.32	0.32	0.32	1.00	1.00	1.00	0.99	0.99	0.99	
Uniform Delay (d), s/veh		72.4	72.5	42.7	22.7	17.8	77.1	64.7	15.3	80.7	64.6	52.0	
Incr Delay (d2), s/veh	0.0	85.6	87.5	235.9	0.3	3.3	14.2	122.5	382.1	61.6	19.2	0.4	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh		24.8	27.5	47.5	7.1	10.9	9.5	41.8	53.1	11.0	22.0	2.7	
Unsig. Movement Delay			21.0	.7.0			0.0		00.1	11.0			
LnGrp Delay(d),s/veh	74.0	158.0	160.0	278.6	22.9	21.1	91.3	187.1	397.5	142.3	83.8	52.4	
LnGrp LOS	E	F	F	F	C	C	F	F	F	F	F	D	
Approach Vol, veh/h		1886			3141			2585			1075		
Approach Delay, s/veh		151.5			134.9			299.2			112.0		
Approach LOS		F			F			F			F		
Timer - Assigned Phs	1	2	3	4	5	6	7	8					
Phs Duration (G+Y+Rc).	61.0	40.0		52.0	26.2	74.8	-						
Change Period (Y+Rc),		40.0 4.9	27.0 4.4	52.0 5.3	26.2 4.9	74.8 * 4.9	23.0 4.4	56.0 5.3					
Max Green Setting (Gma		4.9 35.1		5.3 51.7	4.9 21.8		4.4 18.6	5.3 50.7					
		35.1 37.1	17.6 20.9	43.1	21.8 11.0	* 70 22.0	20.6	50.7 52.7					
Max Q Clear Time (g_c+		0.0	20.9	43.1 2.8	0.2	22.0 38.5	20.6 0.0	52.7 0.0					
Green Ext Time (p_c), s	0.0	0.0	0.0	2.0	0.2	30.3	0.0	0.0					
Intersection Summary													
HCM 6th Ctrl Delay			184.6										
HCM 6th LOS			F										
Notae													

User approved volume balancing among the lanes for turning movement.

User approved ignoring U-Turning movement.

	٠	+	7	1	Ļ	*	1	1	1	4	ţ	4	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	٦	***	11		***	1				ሻሻ		77	
Traffic Volume (veh/h)	0	2310	800	0	1510	320	0	0	0	40	0	1490	
Future Volume (veh/h)	0	2310	800	0	1510	320	0	0	0	40	0	1490	
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.96				1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00	
Work Zone On Approac		No			No						No		
Adj Sat Flow, veh/h/ln	1856	2100	1856	0	2100	1856				1870	0	1870	
Adj Flow Rate, veh/h	0	2381	0	0	1641	348				43	0	1602	
Peak Hour Factor	0.97	0.97	0.97	0.92	0.92	0.92				0.93	0.93	0.93	
Percent Heavy Veh, %	3	3	3	0	3	3				2	0	2	
Cap, veh/h	974	5114		0	1762	537				160	0	1667	
Arrive On Green	0.00	1.00	0.00	0.00	0.61	0.61				0.05	0.00	0.05	
Sat Flow, veh/h	1767	5732	2768	0	5921	1510				3456	0	2790	
Grp Volume(v), veh/h	0	2381	0	0	1641	348				43	0	1602	
Grp Sat Flow(s),veh/h/li		1911	1384	0	1911	1510				1728	0	1395	
Q Serve(g_s), s	0.0	0.0	0.0	0.0	46.5	27.7				2.2	0.0	0.0	
Cycle Q Clear(g_c), s	0.0	0.0	0.0	0.0	46.5	27.7				2.2	0.0	0.0	
Prop In Lane	1.00		1.00	0.00		1.00				1.00		1.00	
Lane Grp Cap(c), veh/h		5114		0	1762	537				160	0	1667	
V/C Ratio(X)	0.00	0.47		0.00	0.93	0.65				0.27	0.00	0.96	
Avail Cap(c_a), veh/h	974	5114		0	1911	576				305	0	1785	
HCM Platoon Ratio	2.00	2.00	2.00	1.00	2.00	2.00				1.00	1.00	1.00	
Upstream Filter(I)	0.00	0.09	0.00	0.00	0.73	0.73				1.00	0.00	1.00	
Uniform Delay (d), s/vel		0.0	0.0	0.0	33.0	25.9				82.9	0.0	34.2	
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.0	8.0	4.4				0.3	0.0	12.6	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0	
%ile BackOfQ(50%),veh		0.0	0.0	0.0	18.0	9.1				1.0	0.0	42.9	
Unsig. Movement Delay			0.0	0.0	44.0	20.0				00.0	0.0	40.0	
LnGrp Delay(d),s/veh	0.0	0.0	0.0	0.0	41.0	30.3				83.2	0.0	46.8	
LnGrp LOS	A	A	•	A	D	С				F	A	D	
Approach Vol, veh/h		2381	А		1989						1645		
Approach Delay, s/veh		0.0			39.1						47.7		
Approach LOS		А			D						D		
Timer - Assigned Phs		2		4	5	6							
Phs Duration (G+Y+Rc)		166.6		13.4	105.3	61.3							
Change Period (Y+Rc),		6.0		5.1	6.0	* 6							
Max Green Setting (Gm				15.9	88.3	* 60							
Max Q Clear Time (g_c				4.2	0.0	48.5							
Green Ext Time (p_c), s	S	27.5		4.2	0.0	6.9							
Intersection Summary													
HCM 6th Ctrl Delay			26.0										
HCM 6th LOS			С										

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier. Unsignalized Delay for [EBR] is excluded from calculations of the approach delay and intersection delay.

#### 

	1.0	•	•			1			1.1	•	2000	
Movement EE	L EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	- ***	7	5	***	1	ሻሻ		77				
Traffic Volume (veh/h)	0 1210		0	1510	790	90	0	1490	0	0	0	
Future Volume (veh/h)	0 1210	1440	0	1510	790	90	0	1490	0	0	0	
Initial Q (Qb), veh	0 0	0	0	0	0	0	0	0				
Ped-Bike Adj(A_pbT) 1.0	0	0.96	1.00		1.00	1.00		1.00				
Parking Bus, Adj 1.0	0 1.00	1.00	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	0 1856	1856	1856	1856	1856	1870	0	1870				
Adj Flow Rate, veh/h	0 1222		0	1641	0	99	0	1637				
Peak Hour Factor 0.9	9 0.99	0.99	0.92	0.92	0.92	0.91	0.91	0.91				
Percent Heavy Veh, %	0 3		3	3	3	2	0	2				
Cap, veh/h	0 1295		1022	4394		245	0	1812				
Arrive On Green 0.0			0.00	0.87	0.00	0.07	0.00	0.07				
Sat Flow, veh/h	0 5233	1512	1767	5066	1572	3456	0	2790				
Grp Volume(v), veh/h	0 1222	1455	0	1641	0	99	0	1637				
Grp Sat Flow(s),veh/h/ln	0 1689	1512	1767	1689	1572	1728	0	1395				
Q Serve(g_s), s 0	0 42.2	46.0	0.0	11.4	0.0	4.9	0.0	0.0				
Cycle Q Clear(g_c), s 0	0 42.2	46.0	0.0	11.4	0.0	4.9	0.0	0.0				
Prop In Lane 0.0	0	1.00	1.00		1.00	1.00		1.00				
Lane Grp Cap(c), veh/h	0 1295	498	1022	4394		245	0	1812				
V/C Ratio(X) 0.0	0 0.94	2.92	0.00	0.37		0.40	0.00	0.90				
Avail Cap(c_a), veh/h	0 1295	498	1022	4394		1572	0	2883				
HCM Platoon Ratio 1.0	0 1.33	1.33	1.00	1.00	1.00	1.00	1.00	1.00				
Upstream Filter(I) 0.0	0 0.88	0.88	0.00	1.00	0.00	1.00	0.00	1.00				
Uniform Delay (d), s/veh 0	0 58.2	49.9	0.0	2.3	0.0	80.0	0.0	26.8				
Incr Delay (d2), s/veh 0	0 13.4	869.2	0.0	0.2	0.0	0.4	0.0	1.8				
Initial Q Delay(d3),s/veh 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
%ile BackOfQ(50%),veh/In0	.0 18.9	143.1	0.0	2.9	0.0	2.2	0.0	41.4				
Unsig. Movement Delay, s/	reh											
LnGrp Delay(d),s/veh 0	0 71.6	919.1	0.0	2.6	0.0	80.4	0.0	28.6				
LnGrp LOS	A E	<u> </u>	A	A		F	Α	С				
Approach Vol, veh/h	2677	•		1641	А		1736					
Approach Delay, s/veh	532.3			2.6			31.5					
Approach LOS	F			А			С					
Timer - Assigned Phs	1 2		4		6							
Phs Duration (G+Y+Rc)1\$0			17.9		162.1							
Change Period (Y+Rc), s 6			5.1		6.0							
Max Green Setting (Gma36			81.9		87.0							
Max Q Clear Time (g_c+I10)			6.9		13.4							
Green Ext Time (p_c), s 0			5.8		11.5							
<i>w</i> = <i>Y</i> ·			0.0									
Intersection Summary		045.4										
HCM 6th Ctrl Delay		245.1										
HCM 6th LOS		F										
NI-1												

### Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier. Unsignalized Delay for [WBR] is excluded from calculations of the approach delay and intersection delay.

	٠	-	7	4	+	•	1	t	1	1	ţ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		é.	1	ካካ	ţ,	1	A	<b>^</b>	1	ልካ	<b>†</b> ††	1	
Traffic Volume (veh/h)	0	20	10	560	20	380	120	1690	630	250	1010	0	
Future Volume (veh/h)	0	20	10	560	20	380	120	1690	630	250	1010	0	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.98	1.00		0.98	1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac	h	No			No			No			No		
Adj Sat Flow, veh/h/ln	1870	1870	1796	1870	1870	1870	1563	1856	1856	1856	1856	1856	
Adj Flow Rate, veh/h	0	40	20	615	0	433	126	1779	663	272	1098	0	
Peak Hour Factor	0.50	0.50	0.50	0.91	0.91	0.91	0.95	0.95	0.95	0.92	0.92	0.92	
Percent Heavy Veh, %	2	2	2	2	2	2	3	3	3	3	3	3	
Cap, veh/h	0	67	53	661	0	574	140	2175	1247	210	2958	918	
Arrive On Green	0.00	0.04	0.04	0.19	0.00	0.19	0.19	1.00	1.00	0.06	0.58	0.00	
Sat Flow, veh/h	0	1870	1482	3563	0	3092	1488	3526	1548	3428	5066	1572	
Grp Volume(v), veh/h	0	40	20	615	0	433	126	1779	663	272	1098	0	
Grp Sat Flow(s),veh/h/lr		1870	1482	1781	0	1546	1488	1763	1548	1714	1689	1572	
Q Serve(g_s), s	0.0	3.8	2.4	30.6	0.0	23.9	14.9	0.0	0.0	11.0	20.7	0.0	
Cycle Q Clear(g_c), s	0.0	3.8	2.4	30.6	0.0	23.9	14.9	0.0	0.0	11.0	20.7	0.0	
Prop In Lane	0.00	0.0	1.00	1.00	0.0	1.00	1.00	0.0	1.00	1.00	20.1	1.00	
Lane Grp Cap(c), veh/h		67	53	661	0	574	140	2175	1247	210	2958	918	
V/C Ratio(X)	0.00	0.60	0.38	0.93	0.00	0.75	0.90	0.82	0.53	1.30	0.37	0.00	
Avail Cap(c_a), veh/h	0.00	405	321	693	0.00	601	228	2175	1247	210	2958	918	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00	
Upstream Filter(I)	0.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	
Uniform Delay (d), s/veh		85.5	84.8	72.2	0.00	69.4	72.2	0.0	0.0	84.5	19.9	0.00	
Incr Delay (d2), s/veh	0.0	3.1	1.6	18.3	0.0	4.5	15.1	3.6	1.6	164.7	0.4	0.0	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	
		1.9	0.0	15.4	0.0	9.7	5.7	1.1	0.0	9.6	8.1	0.0	
%ile BackOfQ(50%),veh Unsig. Movement Delay			0.9	13.4	0.0	9.1	5.7	1.1	0.0	9.0	0.1	0.0	
LnGrp Delay(d),s/veh	, s/ven 0.0	88.6	86.4	90.5	0.0	73.9	87.3	3.6	1.6	249.2	20.3	0.0	
LnGrp LOS	0.0 A	00.0 F	00.4 F	90.5 F	0.0 A	73.9 E	07.3 F	3.0 A	1.6 A	249.2 F	20.3 C		
	A		Г	Г		E	Г		A	Г		A	
Approach Vol, veh/h		60 87.0			1048			2568			1370		
Approach Delay, s/veh		87.9			83.6			7.2			65.7		
Approach LOS		F			F			A			E		
Timer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Rc)				10.5	21.0	111.2		37.4					
Change Period (Y+Rc),		6.1		4.0	4.0	* 6.1		4.0					
Max Green Setting (Gm		76.9		39.0	27.6	* 61		35.0					
Max Q Clear Time (g_c-		2.0		5.8	16.9	22.7		32.6					
Green Ext Time (p_c), s	6.0	32.1		0.1	0.1	8.7		0.8					
Intersection Summary													
HCM 6th Ctrl Delay			39.9										
HCM 6th LOS			D										

User approved volume balancing among the lanes for turning movement.

User approved ignoring U-Turning movement.

	٠	-	7	-	←	*	1	Ť	1	1	Ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ኘካ	<b>†</b> ††	1	<u>ሕ</u> ካ	<b>^</b>	1	٦	ţ,		A	र्स	11	
Traffic Volume (veh/h)	1520	1250	140	20	810	30	100	40	10	40	10	1780	
Future Volume (veh/h)	1520	1250	140	20	810	30	100	40	10	40	10	1780	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	Ū	0.98	1.00	v	0.98	1.00	v	1.00	1.00	U	0.99	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approa		No	1.00	1.00	No	1.00	1.00	No	1.00	1.00	No	1.00	
Adj Sat Flow, veh/h/ln	1796	2033	1796	1525	2049	1811	1870	1870	1870	1575	1870	1870	
Adj Flow Rate, veh/h	1583	1302	146	22	880	33	141	56	14	30	36	2070	
Peak Hour Factor	0.96	0.96	0.96	0.92	0.92	0.92	0.71	0.71	0.71	0.86	0.86	0.86	
Percent Heavy Veh, %	0.00	0.50	0.50	6	6	6	2	2	2	2	2	2	
Cap, veh/h	1617	3665	989	288	1585	426	166	135	34	33	42	1614	
Arrive On Green	0.49	0.66	0.66	0.10	0.28	420	0.09	0.09	0.09	0.02	0.02	0.02	
Sat Flow, veh/h	3319	5549	1498	2818	5595	1503	1781	1443	361	1500	1870	3127	
Grp Volume(v), veh/h	1583	1302	146	22	880	33	141	0	70	30	36	2070	
Grp Sat Flow(s),veh/h/l		1850	1498	1409	1865	1503	1781	0	1804	1500	1870	1564	
Q Serve(g_s), s	84.2	18.7	6.6	1.3	24.1	2.9	14.0	0.0	6.6	3.6	3.5	4.0	
Cycle Q Clear(g_c), s	84.2	18.7	6.6	1.3	24.1	2.9	14.0	0.0	6.6	3.6	3.5	4.0	
Prop In Lane	1.00		1.00	1.00		1.00	1.00	•	0.20	1.00		1.00	
Lane Grp Cap(c), veh/h		3665	989	288	1585	426	166	0	168	33	42	1614	
V/C Ratio(X)	0.98	0.36	0.15	0.08	0.56	0.08	0.85	0.00	0.42	0.90	0.87	1.28	
Avail Cap(c_a), veh/h	1652	3665	989	288	1585	426	317	0	321	33	42	1614	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	1.00	1.00	0.98	0.98	0.98	1.00	0.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/ve		13.5	11.5	73.1	54.9	47.3	80.4	0.0	77.0	87.8	87.7	44.2	
Incr Delay (d2), s/veh	17.0	0.3	0.3	0.0	1.4	0.3	4.6	0.0	0.6	114.8	88.8	131.9	
Initial Q Delay(d3),s/ve		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),ve	h/ <b>B</b> 6.9	7.6	2.2	0.5	11.4	1.1	6.7	0.0	3.1	2.5	2.7	65.2	
Unsig. Movement Dela	y, s/veh	1											
LnGrp Delay(d),s/veh	62.2	13.8	11.8	73.1	56.2	47.6	84.9	0.0	77.6	202.6	176.6	176.0	
LnGrp LOS	E	В	В	E	E	D	F	Α	Ε	F	F	F	
Approach Vol, veh/h		3031			935			211			2136		
Approach Delay, s/veh		39.0			56.3			82.5			176.4		
Approach LOS		D			Е			F			F		
Timer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Rc	), 84, 1			9.5	92.1	56.7		21.7					
Change Period (Y+Rc)		* 5.8		5.5	4.4	5.7		4.9					
Max Green Setting (Gn				4.0	89.6	33.9		32.0					
Max Q Clear Time (g_c				6.0	86.2	26.1		16.0					
Green Ext Time (p_c),		30.1		0.0	1.6	5.1		0.4					
а — <i>У</i> -	0.0	00.1		0.0	1.0	0.1		0.7					
Intersection Summary													
HCM 6th Ctrl Delay			89.5										
HCM 6th LOS			F										

User approved volume balancing among the lanes for turning movement.

User approved ignoring U-Turning movement.

Lane Configurations       St       ++P		٨	<b>→</b>	7	4	+	•	1	t	1	4	ţ	4	
Traffic Volume (veh/h)       90       1110       50       50       650       30       120       30       70       50       20       90         Future Volume (veh/h)       90       1110       50       50       650       30       120       30       70       50       20       90         Ped-Bike Adj(A_pbT)       1.00       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0	Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Traffic Volume (veh/h)       90       1110       50       50       650       30       120       30       70       50       20       90         Future Volume (veh/h)       90       1110       50       50       650       30       120       30       70       50       20       90         Ped-Bike Adj(A_pbT)       1.00       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0	Lane Configurations	35	<b>**1</b>		1	朴朴ኈ			÷.	1		÷.	1	
Initial Q (Qb), veh       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0	Traffic Volume (veh/h)			50			30	120		-	50			
Ped-Bike Adj(A_pbT)       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00	Future Volume (veh/h)	90	1110	50	50	650	30	120	30	70	50	20	90	
Parking Bus, Adj       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       No       No         Adj Sat Flow, veh/h       14       1525       2049       1811       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1873       56       100 <t< td=""><td>Initial Q (Qb), veh</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td></td></t<>	Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Work Zone On Ápproach         No         No         No         No         No           Adj Sat Flow, veh/h/         11         1525         2049         1811         1525         2049         1811         1870         1796         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         187	Ped-Bike Adj(A_pbT)	1.00		0.98	1.00		0.99	1.00		1.00	1.00		1.00	
Adj Sat Flow, veh/h/ln       1525       2049       1811       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       <	Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Adj       Flow Rate, veh/h       94       1156       52       57       739       34       128       32       74       65       26       117         Peak Hour Factor       0.96       0.96       0.88       0.88       0.88       0.94       0.94       0.94       0.77       0.77       0.77       0.77         Percent Heavy Veh,%       6       6       6       6       6       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2 <td>Work Zone On Approac</td> <td>h</td> <td>No</td> <td></td> <td></td> <td>No</td> <td></td> <td></td> <td>No</td> <td></td> <td></td> <td>No</td> <td></td> <td></td>	Work Zone On Approac	h	No			No			No			No		
Peak Hour Factor       0.96       0.96       0.88       0.88       0.88       0.94       0.94       0.94       0.77       0.77       0.77         Percent Heavy Veh, %       6       6       6       6       6       6       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2	Adj Sat Flow, veh/h/ln	1525	2049	1811	1525	2049	1811	1870	1870	1796	1870	1870	1870	
Percent Heavy Veh, %       6       6       6       6       6       6       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2 <th2< th="">       2       <th2< th=""></th2<></th2<>	Adj Flow Rate, veh/h	94	1156	52	57	739	34	128	32	74	65	26	117	
Cap, veh/h       124       2436       110       196       2983       137       36       1       498       34       8       519         Arrive On Green       0.09       0.89       0.27       1.00       1.00       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.34	Peak Hour Factor	0.96	0.96	0.96	0.88	0.88	0.88	0.94	0.94	0.94	0.77	0.77	0.77	
Arrive On Green       0.09       0.89       0.89       0.27       1.00       1.00       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33       0.33	Percent Heavy Veh, %	6	6	6	6	6	6	2	2	2	2	2	2	
Sat Flow, veh/h       281       5481       246       1452       5479       251       0       3       1516       0       25       1579         Grp Volume(v), veh/h       94       786       422       57       502       271       160       0       74       91       0       117         Grp Sat Flow(s), veh/h       1465       1998       1452       1865       2000       3       0       1516       25       0       1579         Q Serve(g_s), s       5.9       7.3       7.3       5.6       0.0       0.0       0.0       6.2       59.1       0.0       9.7         Cycle Q Clear(g_c), s       5.9       7.3       7.3       5.6       0.0       0.0       59.1       0.0       6.2       59.1       0.0       9.7         Prop In Lane       1.00       0.12       1.00       0.13       1089       37       0       498       43       0       519         V/C Ratio(X)       0.76       0.47       0.47       0.29       0.25       0.25       4.32       0.00       0.10       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00	Cap, veh/h	124	2436	110	196	2983	137	36	1	498	34	8	519	
Grp Volume(v), veh/h       94       786       422       57       502       271       160       0       74       91       0       117         Grp Sat Flow(s), veh/h/ln1409       1865       1998       1452       1865       2000       3       0       1516       25       0       1579         Q Serve(g_s), s       5.9       7.3       7.3       5.6       0.0       0.0       0.0       6.2       0.0       0.97         Cycle Q Clear(g_c), s       5.9       7.3       7.3       5.6       0.0       0.13       0.80       1.00       0.71       1.00         Lane Grp Cap(c), veh/h       124       1658       888       196       2031       1089       37       0       498       43       0       519         V/C Ratio(X)       0.76       0.47       0.47       0.29       0.25       0.25       4.32       0.00       0.10       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00<	Arrive On Green	0.09	0.89	0.89	0.27	1.00	1.00	0.33	0.33	0.33	0.33	0.33	0.33	
Grp Sat Flow(s),veh/h/ln1409       1865       1998       1452       1865       2000       3       0       1516       25       0       1579         Q Serve(g_s), s       5.9       7.3       7.3       5.6       0.0       0.0       0.0       6.2       0.0       0.0       9.7         Cycle Q Clear(g_c), s       5.9       7.3       7.3       5.6       0.0       0.0       5.9.1       0.0       6.2       5.9.1       0.0       9.7         Prop In Lane       1.00       0.12       1.00       0.13       0.80       1.00       0.71       1.00         Lane Grp Cap(c), veh/h       124       1658       888       1089       37       0       498       43       0       519         V/C Ratio(X)       0.76       0.47       0.47       0.29       0.25       4.32       0.00       1.00       1.00       0.00       0.23         Avail Cap(c_a), veh/h       322       1658       888       207       2031       1089       37       0       498       43       0       519         HCM Platoon Ratio       2.00       2.00       2.00       1.00       1.00       1.00       1.00       1.00       1.00<	Sat Flow, veh/h	2818	5481	246	1452	5479	251	0	3	1516	0	25	1579	
Grp Sat Flow(s),veh/h/ln1409       1865       1998       1452       1865       2000       3       0       1516       25       0       1579         Q Serve(g_s), s       5.9       7.3       7.3       5.6       0.0       0.0       0.0       6.2       0.0       0.0       9.7         Cycle Q Clear(g_c), s       5.9       7.3       7.3       5.6       0.0       0.0       5.9       1.00       0.71       1.00         Lane Grp Cap(c), veh/h       124       1658       888       1089       37       0       498       43       0       519         V/C Ratio(X)       0.76       0.47       0.47       0.29       0.25       0.25       4.32       0.00       0.15       2.14       0.00       0.23         Avail Cap(c_a), veh/h       322       1658       888       207       2031       1089       37       0       498       43       0       519         V/C Ratio(X)       0.76       0.47       0.47       0.29       0.25       0.20       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00	Grp Volume(v), veh/h	94	786	422	57	502	271	160	0	74	91	0	117	
Q Serve(g_s), s       5.9       7.3       7.3       5.6       0.0       0.0       0.0       6.2       0.0       0.0       9.7         Cycle Q Clear(g_c), s       5.9       7.3       7.3       5.6       0.0       0.0       59.1       0.0       6.2       59.1       0.0       9.7         Prop In Lane       1.00       0.12       1.00       0.13       0.80       1.00       0.71       1.00         Lane Grp Cap(c), veh/h       124       1658       888       196       2031       1089       37       0       498       43       0       519         V/C Ratio(X)       0.76       0.47       0.29       0.25       0.25       4.32       0.00       0.10       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00		n1409		1998	1452	1865		3	0	1516	25	0	1579	
Cycle Q Clear(g_c), s       5.9       7.3       7.3       5.6       0.0       0.0       59.1       0.0       6.2       59.1       0.0       9.7         Prop In Lane       1.00       0.12       1.00       0.13       0.80       1.00       0.71       1.00         Lane Grp Cap(c), veh/h       124       1658       888       196       2031       1089       37       0       488       43       0       519         V/C Ratio(X)       0.76       0.47       0.47       0.29       0.25       0.25       4.32       0.00       0.15       2.14       0.00       0.23         Avail Cap(c_a), veh/h       322       1658       888       207       201       1009       37       0       498       43       0       519         MCM Platoon Ratio       2.00       2.00       2.00       2.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00								0.0	0.0		0.0	0.0		
Prop In Lane       1.00       0.12       1.00       0.13       0.80       1.00       0.71       1.00         Lane Grp Cap(c), veh/h       124       1658       888       196       2031       1089       37       0       498       43       0       519         V/C Ratio(X)       0.76       0.47       0.47       0.29       0.25       0.25       4.32       0.00       0.15       2.14       0.00       0.23         Avail Cap(c_a), veh/h       322       1658       888       207       2031       1089       37       0       498       43       0       519         MCM Platoon Ratio       2.00       2.00       2.00       2.00       2.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00<	,	5.9	7.3	7.3	5.6	0.0	0.0	59.1	0.0	6.2	59.1	0.0	9.7	
V/C Ratio(X)       0.76       0.47       0.47       0.29       0.25       0.25       4.32       0.00       0.15       2.14       0.00       0.23         Avail Cap(c_a), veh/h       322       1658       888       207       2031       1089       37       0       498       43       0       519         HCM Platoon Ratio       2.00       2.00       2.00       2.00       2.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00	Prop In Lane	1.00		0.12	1.00		0.13	0.80		1.00	0.71		1.00	
V/C Ratio(X)       0.76       0.47       0.47       0.29       0.25       0.25       4.32       0.00       0.15       2.14       0.00       0.23         Avail Cap(c_a), veh/h       322       1658       888       207       2031       1089       37       0       498       43       0       519         HCM Platoon Ratio       2.00       2.00       2.00       2.00       2.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00		124	1658	888	196	2031	1089	37	0	498	43	0	519	
HCM Platon Ratio       2.00       2.00       2.00       2.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.0	V/C Ratio(X)		0.47	0.47	0.29	0.25	0.25	4.32	0.00	0.15	2.14	0.00	0.23	
HCM Platoon Ratio       2.00       2.00       2.00       2.00       2.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.	( )	322	1658	888	207	2031	1089	37	0	498	43	0	519	
Uniform Delay (d), s/veh 81.2       6.0       6.0       58.9       0.0       0.0       88.4       0.0       42.7       78.5       0.0       43.9         Incr Delay (d2), s/veh       3.4       0.9       1.7       0.3       0.3       0.5 1555.5       0.0       0.1       581.1       0.0       0.3         Initial Q Delay(d3),s/veh       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0	HCM Platoon Ratio	2.00	2.00	2.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	
Incr Delay (d2), s/veh       3.4       0.9       1.7       0.3       0.3       0.5 1555.5       0.0       0.1       581.1       0.0       0.3         Initial Q Delay(d3),s/veh       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0	Upstream Filter(I)	0.95	0.95	0.95	0.99	0.99	0.99	1.00	0.00	1.00	1.00	0.00	1.00	
Initial Q Delay(d3),s/veh 0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0	Uniform Delay (d), s/vel	h 81.2	6.0	6.0	58.9	0.0	0.0	88.4	0.0	42.7	78.5	0.0	43.9	
%ile BackOfQ(50%),veh/In2.1       2.2       2.5       2.0       0.1       0.2       17.7       0.0       2.4       8.9       0.0       3.9         Unsig. Movement Delay, s/veh       LnGrp Delay(d),s/veh       84.6       6.9       7.7       59.2       0.3       0.5 1643.8       0.0       42.8       659.7       0.0       44.2         LnGrp DOS       F       A       A       E       A       A       F       A       D       F       A       D         Approach Vol, veh/h       1302       830       234       208         Approach Delay, s/veh       12.8       4.4       1137.5       313.5         Approach LOS       B       A       F       F       F         Timer - Assigned Phs       1       2       4       5       6       8         Phs Duration (G+Y+Rc), <b>3</b> 0.0       86.0       64.0       12.3       103.7       64.0       64.0         Change Period (Y+Rc), s 5.7       * 6       4.9       4.4       5.7       4.9       44         Max Green Setting (Gma25, 6       * 80       59.1       20.6       85.3       59.1       59.1       6       85.3       59.1       30.0       61.1	Incr Delay (d2), s/veh	3.4	0.9	1.7	0.3	0.3	0.5	1555.5	0.0	0.1	581.1	0.0	0.3	
Unsig. Movement Delay, s/veh         LnGrp Delay(d),s/veh       84.6       6.9       7.7       59.2       0.3       0.5 1643.8       0.0       42.8       659.7       0.0       44.2         LnGrp LOS       F       A       A       E       A       A       F       A       D       F       A       D         Approach Vol, veh/h       1302       830       234       208         Approach Delay, s/veh       12.8       4.4       1137.5       313.5         Approach LOS       B       A       F       F       F         Timer - Assigned Phs       1       2       4       5       6       8         Phs Duration (G+Y+Rc), \$0.0       86.0       64.0       12.3       103.7       64.0       64.0         Change Period (Y+Rc), \$ 5.7       * 6       4.9       4.4       5.7       4.9       44         Max Green Setting (Gmax, 6 e       * 80       59.1       20.6       85.3       59.1       49.4         Green Ext Time (p_c), \$ 0.0       20.9       0.0       0.1       12.2       0.0       12.2       10.0         Intersection Summary       HCM 6th Ctrl Delay       136.6       HCM 6th LOS       F	Initial Q Delay(d3),s/veh	n 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
LnGrp Delay(d),s/veh       84.6       6.9       7.7       59.2       0.3       0.5 1643.8       0.0       42.8       659.7       0.0       44.2         LnGrp LOS       F       A       A       E       A       A       F       A       D       F       A       D         Approach Vol, veh/h       1302       830       234       208         Approach Delay, s/veh       12.8       4.4       1137.5       313.5         Approach LOS       B       A       F       F       F         Timer - Assigned Phs       1       2       4       5       6       8         Phs Duration (G+Y+Rc), 30.0       86.0       64.0       12.3       103.7       64.0       64.0       12.3       103.7       64.0       64.0       12.3       103.7       64.0       65.3       59.1       20.6       85.3       59.1       20.6       85.3       59.1       20.6       85.3       59.1       30.0       61.1       Green Ext Time (p_c), s       0.0       0.1       12.2       0.0       11       12.2       0.0       11       12.2       0.0       11       12.2       0.0       11       12.2       0.0       11       12.2	%ile BackOfQ(50%),veh	n/In2.1	2.2	2.5	2.0	0.1	0.2	17.7	0.0	2.4	8.9	0.0	3.9	
LnGrp LOS         F         A         A         E         A         F         A         D         F         A         D           Approach Vol, veh/h         1302         830         234         208           Approach Delay, s/veh         12.8         4.4         1137.5         313.5           Approach LOS         B         A         F         F         F           Timer - Assigned Phs         1         2         4         5         6         8           Timer - Assigned Phs         1         2         4         5         6         8           Phs Duration (G+Y+Rc), <b>3</b> 0.0         86.0         64.0         12.3         103.7         64.0         64.0         12.3         103.7         64.0         64.0         12.3         103.7         64.0         64.0         12.3         103.7         64.0         64.0         12.3         103.7         64.0         64.0         12.3         103.7         64.0         64.0         12.3         103.7         64.0         64.0         12.3         103.7         64.0         64.0         12.3         10.1         7.9         1.0         61.1         61.1         61.1         61.1         61.1	Unsig. Movement Delay	/, s/veh	1											
LnGrp LOS         F         A         A         E         A         F         A         D         F         A         D           Approach Vol, veh/h         1302         830         234         208           Approach Delay, s/veh         12.8         4.4         1137.5         313.5           Approach LOS         B         A         F         F         F           Timer - Assigned Phs         1         2         4         5         6         8           Phs Duration (G+Y+Rc), <b>\$0.0</b> 86.0         64.0         12.3         103.7         64.0         64.0           Change Period (Y+Rc), <b>\$ 5.7</b> * 6         4.9         4.4         5.7         4.9           Max Green Setting (Gma25.6         * 80         59.1         20.6         85.3         59.1           Max Q Clear Time (g_c+I17,6s         9.3         61.1         7.9         2.0         61.1           Green Ext Time (p_c), s         0.0         20.9         0.0         0.1         12.2         0.0           Intersection Summary         HCM 6th Ctrl Delay         136.6         HCM 6th LOS         F	LnGrp Delay(d),s/veh			7.7	59.2	0.3	0.5	1643.8	0.0	42.8	659.7	0.0	44.2	
Approach Delay, s/veh       12.8       4.4       1137.5       313.5         Approach LOS       B       A       F       F         Timer - Assigned Phs       1       2       4       5       6       8         Phs Duration (G+Y+Rc), \$0.0       86.0       64.0       12.3       103.7       64.0       64.0         Change Period (Y+Rc), \$5.7       * 6       4.9       4.4       5.7       4.9         Max Green Setting (Gma25,6       * 80       59.1       20.6       85.3       59.1         Max Q Clear Time (g_c+I17),6s       9.3       61.1       7.9       2.0       61.1         Green Ext Time (p_c), s       0.0       20.9       0.0       0.1       12.2       0.0         Intersection Summary       HCM 6th Ctrl Delay       136.6       F       F	LnGrp LOS	F	Α	А	E	А	А	F	А	D	F	Α	D	
Approach LOS         B         A         F         F           Timer - Assigned Phs         1         2         4         5         6         8           Phs Duration (G+Y+Rc), \$0.0         86.0         64.0         12.3         103.7         64.0           Change Period (Y+Rc), \$ 5.7         * 6         4.9         4.4         5.7         4.9           Max Green Setting (Gma25,6         * 80         59.1         20.6         85.3         59.1           Max Q Clear Time (g_c+I17),6s         9.3         61.1         7.9         2.0         61.1           Green Ext Time (p_c), s         0.0         20.9         0.0         0.1         12.2         0.0           Intersection Summary         HCM 6th Ctrl Delay         136.6         F         F	Approach Vol, veh/h		1302			830			234			208		
Approach LOS       B       A       F       F         Timer - Assigned Phs       1       2       4       5       6       8         Phs Duration (G+Y+Rc), \$0.0       86.0       64.0       12.3       103.7       64.0         Change Period (Y+Rc), \$5.7       * 6       4.9       4.4       5.7       4.9         Max Green Setting (Gma25,6       * 80       59.1       20.6       85.3       59.1         Max Q Clear Time (g_c+I17),6s       9.3       61.1       7.9       2.0       61.1         Green Ext Time (p_c), s       0.0       20.9       0.0       0.1       12.2       0.0         Intersection Summary       HCM 6th Ctrl Delay       136.6       F       F       F	Approach Delay, s/veh		12.8			4.4		1	137.5			313.5		
Phs Duration (G+Y+Rc), \$0.0       86.0       64.0       12.3       103.7       64.0         Change Period (Y+Rc), s 5.7       * 6       4.9       4.4       5.7       4.9         Max Green Setting (Gma25, 6       * 80       59.1       20.6       85.3       59.1         Max Q Clear Time (g_c+I17, 6s       9.3       61.1       7.9       2.0       61.1         Green Ext Time (p_c), s       0.0       20.9       0.0       0.1       12.2       0.0         Intersection Summary       HCM 6th Ctrl Delay       136.6       F       F	Approach LOS		В			А			F			F		
Change Period (Y+Rc), s 5.7 * 6       4.9       4.4       5.7       4.9         Max Green Setting (Gma25.6 * 80       59.1       20.6       85.3       59.1         Max Q Clear Time (g_c+I17,6s       9.3       61.1       7.9       2.0       61.1         Green Ext Time (p_c), s       0.0       20.9       0.0       0.1       12.2       0.0         Intersection Summary       HCM 6th Ctrl Delay       136.6       F       F	Timer - Assigned Phs	1	2		4	5	6		8					
Change Period (Y+Rc), s 5.7 * 6       4.9       4.4       5.7       4.9         Max Green Setting (Gma25.6 * 80       59.1       20.6       85.3       59.1         Max Q Clear Time (g_c+I17,6s       9.3       61.1       7.9       2.0       61.1         Green Ext Time (p_c), s       0.0       20.9       0.0       0.1       12.2       0.0         Intersection Summary       HCM 6th Ctrl Delay       136.6       F       F			86.0		64.0	12.3	103.7		64.0					
Max Green Setting (Gma25,6 * 80         59.1         20.6         85.3         59.1           Max Q Clear Time (g_c+I17,6 9.3         61.1         7.9         2.0         61.1           Green Ext Time (p_c), s         0.0         20.9         0.0         0.1         12.2         0.0           Intersection Summary         HCM 6th Ctrl Delay         136.6         F         F         56.6			* 6		4.9	4.4	5.7		4.9					
Green Ext Time (p_c), s         0.0         0.0         0.1         12.2         0.0           Intersection Summary         HCM 6th Ctrl Delay         136.6         136.6         F			* 80		59.1	20.6	85.3		59.1					
Intersection Summary HCM 6th Ctrl Delay I36.6 HCM 6th LOS F			9.3			7.9								
HCM 6th Ctrl Delay 136.6 HCM 6th LOS F	Green Ext Time (p_c), s	s 0.0	20.9		0.0	0.1	12.2		0.0					
HCM 6th LOS F	Intersection Summary													
	HCM 6th Ctrl Delay			136.6										J
Notes	HCM 6th LOS													
	Notes													

メッチメンイ

Movement EE	BL EBT	BT WBT	WBR	SBL	SBR
Lane Configurations	<u> አ</u>	ት ትትት	1	5	1
· · · · · · · · · · · · · · · · · · ·	0 1180			90	60
	1180			90	60
Initial Q (Qb), veh		0 0		0	0
Ped-Bike Adj(A_pbT) 1.0			0.98	1.00	1.00
Parking Bus, Adj 1.0		00 1.00		1.00	1.00
Work Zone On Approach	No			No	
Adj Sat Flow, veh/h/ln 181				1870	1870
	13 1283			129	86
Peak Hour Factor 0.9				0.70	0.70
Percent Heavy Veh, %		6 7		2	2
Cap, veh/h 64				150	134
Arrive On Green 0.7				0.08	0.08
Sat Flow, veh/h 172				1781	1585
	3 1283			129	86
Grp Sat Flow(s),veh/h/In172		65 1850	1487	1781	1585
Q Serve(g_s), s 1	.2 0.0	.0 20.8	6.7	12.9	9.5
Cycle Q Clear(g_c), s 1	.2 0.0	.0 20.8	6.7	12.9	9.5
Prop In Lane 1.0	)0		1.00	1.00	1.00
Lane Grp Cap(c), veh/h 64	2 4787	37 2516	674	150	134
V/C Ratio(X) 0.0	0.27	27 0.29	0.09	0.86	0.64
Avail Cap(c_a), veh/h 64				575	512
HCM Platoon Ratio 2.0				1.00	1.00
Upstream Filter(I) 0.9				1.00	1.00
Uniform Delay (d), s/veh 14				81.3	79.8
Incr Delay (d2), s/veh 0				5.4	1.9
				0.0	0.0
Initial Q Delay(d3),s/veh 0					
%ile BackOfQ(50%),veh/Ir0		.1 10.4	2.6	6.2	8.3
Unsig. Movement Delay, s/		4 = 4 =	4= 0	00 <del>-</del>	04 -
LnGrp Delay(d),s/veh 14				86.7	81.7
		A D		F	F
Approach Vol, veh/h	1326			215	
Approach Delay, s/veh	0.6	.6 50.5		84.7	
Approach LOS	ŀ	A D		F	
Timer - Assigned Phs		2	4	5	6
Phs Duration (G+Y+Rc), s	159.9		20.1	72.9	87.0
Change Period (Y+Rc), s	5.9		4.9	5.9	* 5.4
Max Green Setting (Gmax),			58.1	25.6	* 82
• • • •			14.9	3.2	22.8
Max Q Clear Time (g_c+l1)					
Green Ext Time (p_c), s	37.9	.9	0.3	0.0	18.1
Intersection Summary					
HCM 6th Ctrl Delay		25.2			
HCM 6th LOS		C			

Notes

User approved ignoring U-Turning movement.

#### メュート 44

Movement EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	<b>†</b> ††	<b>^</b>	1	٦	1
Traffic Volume (veh/h) 60	1230	690	70	80	80
Future Volume (veh/h) 60	1230	690	70	80	80
Initial Q (Qb), veh 0	0	0.00	0	0	0
Ped-Bike Adj(A_pbT) 1.00	U	0	0.98	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	1.00	No	1.00
Adj Sat Flow, veh/h/ln 1796	2033	2033	1796	1870	1870
			74	91	91
Adj Flow Rate, veh/h 65	1337	734			
Peak Hour Factor 0.92	0.92	0.94	0.94	0.88	0.88
Percent Heavy Veh, % 7	7	7	7	2	2
Cap, veh/h 649	4850	2577	692	123	110
Arrive On Green 0.76	1.00	0.93	0.93	0.07	0.07
Sat Flow, veh/h 1711	5732	5732	1489	1781	1585
Grp Volume(v), veh/h 65	1337	734	74	91	91
Grp Sat Flow(s),veh/h/ln1711	1850	1850	1489	1781	1585
Q Serve(g_s), s 1.8	0.0	2.3	0.7	9.0	10.2
Cycle Q Clear( $g_c$ ), s 1.8	0.0	2.3	0.7	9.0	10.2
Prop In Lane 1.00	0.0	2.0	1.00	1.00	1.00
Lane Grp Cap(c), veh/h 649	4850	2577	692	123	110
V/C Ratio(X) 0.10	0.28	0.28	0.11	0.74	0.83
Avail Cap(c_a), veh/h 649	4850	2577	692	491	437
HCM Platoon Ratio 2.00	2.00	2.00	2.00	1.00	1.00
Upstream Filter(I) 0.96	0.96	0.09	0.09	1.00	1.00
Uniform Delay (d), s/veh 13.7	0.0	3.5	3.5	82.2	82.7
Incr Delay (d2), s/veh 0.0	0.1	0.0	0.0	3.2	5.9
Initial Q Delay(d3),s/veh 0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/lr0.7	0.1	0.8	0.2	4.3	9.0
Unsig. Movement Delay, s/veh	1				
LnGrp Delay(d),s/veh 13.7	0.1	3.5	3.5	85.4	88.6
LnGrp LOS B	A	A	A	F	55.5 F
· · ·	1402	808		182	
Approach Vol, veh/h					
Approach Delay, s/veh	0.8	3.5		87.0	
Approach LOS	A	А		F	
Timer - Assigned Phs	2		4	5	6
Phs Duration (G+Y+Rc), s	163.1		16.9	74.1	89.0
Change Period (Y+Rc), s	5.8		4.4	5.8	* 5.4
Max Green Setting (Gmax), s			49.6	32.6	* 84
Max Q Clear Time (g_c+l1), s	2.0		49.0	32.0	4.3
Green Ext Time (p_c), s	28.7		0.3	0.1	11.8
Intersection Summary					
HCM 6th Ctrl Delay		8.3			
HCM 6th LOS		A			

Notes

	٠	<b>→</b>	7	1	+	•	1	t	1	4	ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	3	<b>^</b>	1	1	<b>*†</b>		7	1	1		4		
Traffic Volume (veh/h)	40	380	1030	650	60	110	620	Ō	640	140	0	10	
Future Volume (veh/h)	40	380	1030	650	60	110	620	0	640	140	0	10	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.98	1.00		1.00	1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac	h	No			No			No			No		
Adj Sat Flow, veh/h/ln	1796	2033	1796	1796	2033	1796	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	42	400	1084	670	62	113	756	0	780	197	0	14	
Peak Hour Factor	0.95	0.95	0.95	0.97	0.97	0.97	0.82	0.82	0.82	0.71	0.71	0.71	
Percent Heavy Veh, %	7	7	7	7	7	7	2	2	2	2	2	2	
Cap, veh/h	98	1514	403	405	1683	766	694	760	643	311	0	19	
Arrive On Green	0.02	0.09	0.09	0.24	0.46	0.46	0.41	0.00	0.41	0.41	0.00	0.41	
Sat Flow, veh/h	1711	5549	1477	1711	3699	1683	1400	1870	1583	671	0	48	
Grp Volume(v), veh/h	42	400	1084	670	62	113	756	0	780	211	0	0	
Grp Sat Flow(s),veh/h/l	n1711	1850	1477	1711	1850	1683	1400	1870	1583	719	0	0	
Q Serve(g_s), s	4.4	12.1	49.1	42.6	1.7	7.1	28.7	0.0	73.1	44.4	0.0	0.0	
Cycle Q Clear(g_c), s	4.4	12.1	49.1	42.6	1.7	7.1	73.1	0.0	73.1	44.4	0.0	0.0	
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	0.93		0.07	
Lane Grp Cap(c), veh/h	98	1514	403	405	1683	766	694	760	643	331	0	0	
V/C Ratio(X)	0.43	0.26	2.69	1.65	0.04	0.15	1.09	0.00	1.21	0.64	0.00	0.00	
Avail Cap(c_a), veh/h	98	1514	403	405	1683	766	694	760	643	331	0	0	
HCM Platoon Ratio	0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	0.96	0.96	0.96	0.99	0.99	0.99	1.00	0.00	1.00	1.00	0.00	0.00	
Uniform Delay (d), s/vel	h 85.4	65.1	81.9	68.7	27.2	28.7	53.8	0.0	53.5	44.9	0.0	0.0	
Incr Delay (d2), s/veh	1.1	0.4	767.8	305.4	0.0	0.4	61.1	0.0	110.0	3.1	0.0	0.0	
Initial Q Delay(d3),s/vel	0.0 ו	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),vel	n/In2.0	6.0	105.5	52.6	0.7	2.9	43.5	0.0	47.9	8.3	0.0	0.0	
Unsig. Movement Delay	/, s/veh	I											
LnGrp Delay(d),s/veh	86.5	65.5	849.7	374.1	27.2	29.1	114.9	0.0	163.4	48.1	0.0	0.0	
LnGrp LOS	F	Е	F	F	С	С	F	А	F	D	А	А	
Approach Vol, veh/h		1526			845			1536			211		
Approach Delay, s/veh		623.1			302.5			139.5			48.1		
Approach LOS		F			F			F			D		
Timer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Rc)	. 47.0	55.0		78.0	14.7	87.3		78.0					
Change Period (Y+Rc),		5.9		4.9	4.4	5.4		4.9					
Max Green Setting (Gr		49.1		73.1	10.3	81.9		73.1					
Max Q Clear Time (g_c				46.4	6.4	9.1		75.1					
Green Ext Time (p_c), s		0.0		2.0	0.0	2.4		0.0					
	5.0	0.0		2.0	5.0			5.5					
Intersection Summary													
HCM 6th Ctrl Delay			347.5										
HCM 6th LOS			F										

User approved ignoring U-Turning movement.

	٠	-	7	*	+	*	1	t	1	1	Ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	à	<b>†</b> ††		٦	<b>†</b> ††	1				5	4	1	
Traffic Volume (veh/h)	20	1260	0	10	690	150	0	0	0	530	0	30	
Future Volume (veh/h)	20	1260	0	10	690	150	0	0	0	530	0	30	
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.98				1.00	-	0.99	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00	
Work Zone On Approac		No			No						No		
Adj Sat Flow, veh/h/ln	1796	2033	0	1870	2033	1796				1870	1870	1870	
Adj Flow Rate, veh/h	21	1340	0	10	711	155				599	0	22	
Peak Hour Factor	0.94	0.94	0.94	0.97	0.97	0.97				0.90	0.90	0.90	
Percent Heavy Veh, %	7	7	0	2	7	7				2	2	2	
Cap, veh/h	26	2599	0	457	3978	1345				652	0	287	
Arrive On Green	0.03	0.94	0.00	0.26	0.72	0.72				0.18	0.00	0.18	
Sat Flow, veh/h	1711	5732	0.00	1781	5549	1488				3563	0.00	1569	
Grp Volume(v), veh/h	21	1340	0	10	711	155				599	0	22	
Grp Sat Flow(s), veh/h/l		1850	0	1781	1850	1488				1781	0	1569	
Q Serve(g_s), s	2.2	5.3	0.0	0.8	7.5	2.1				29.7	0.0	2.1	
Cycle Q Clear(g_c), s	2.2	5.3	0.0	0.8	7.5	2.1				29.7	0.0	2.1	
Prop In Lane	1.00	0.0	0.00	1.00	1.5	1.00				1.00	0.0	1.00	
Lane Grp Cap(c), veh/h		2599	0.00	457	3978	1345				652	0	287	
,	0.81	0.52	0.00	457	0.18	0.12				0.92	0.00	0.08	
V/C Ratio(X)	110	2599			3978	1345				1407		620	
Avail Cap(c_a), veh/h			0	457							0		
HCM Platoon Ratio	2.00	2.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00	
Upstream Filter(I)	0.71	0.71	0.00	0.99	0.99	0.99				0.93	0.00	0.93	
Uniform Delay (d), s/ve		3.2	0.0	50.0	8.3	1.0				72.2	0.0	60.9	
Incr Delay (d2), s/veh	14.4	0.5	0.0	0.0	0.1	0.2				2.2	0.0	0.0	
Initial Q Delay(d3),s/vel		0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0	
%ile BackOfQ(50%),ve		1.4	0.0	0.3	2.8	1.9				13.8	0.0	2.0	
Unsig. Movement Delay	•		0.0	F0 0	• •	4.0				744	0.0	04.0	
LnGrp Delay(d),s/veh		3.7	0.0	50.0	8.4	1.2				74.4	0.0	61.0	
LnGrp LOS	F	A	A	D	A	A				E	A	E	
Approach Vol, veh/h		1361			876						621		
Approach Delay, s/veh		5.2			7.6						74.0		
Approach LOS		А			A						E		
Timer - Assigned Phs	1	2		4	5	6							
Phs Duration (G+Y+Rc		90.0		37.8	7.1	135.0							
Change Period (Y+Rc),		* 5.7		4.9	4.4	6.0							
Max Green Setting (Gn		* 84		71.1	11.6	82.0							
Max Q Clear Time (g_c		7.3		31.7	4.2	9.5							
Green Ext Time (p_c),	s 0.0	24.8		1.2	0.0	9.5							
Intersection Summary													
HCM 6th Ctrl Delay			20.9										
HCM 6th LOS			С										
•• /													

User approved volume balancing among the lanes for turning movement.

User approved ignoring U-Turning movement.

	٠	<b>→</b>	F	+	•	4	~
Movement	EBL	EBT	WBU	WBT	WBR	SBL	SBR
Lane Configurations	1	<b>†</b> ††	đ	***	1	Y	
Traffic Volume (veh/h)	20	2030	0	920	20	30	30
Future Volume (veh/h)	20	2030	0	920	20	30	30
Initial Q (Qb), veh	0	0		0	0	0	0
Ped-Bike Adj(A_pbT)	1.00				0.98	1.00	1.00
Parking Bus, Adj	1.00	1.00		1.00	1.00	1.00	1.00
Work Zone On Approa	ch	No		No		No	
Adj Sat Flow, veh/h/ln	1796	2033		2033	1796	1870	1870
Adj Flow Rate, veh/h	20	2051		948	21	34	34
Peak Hour Factor	0.99	0.99		0.97	0.97	0.89	0.89
Percent Heavy Veh, %		7		7	7	2	2
Cap, veh/h	25	4966		4763	1276	42	42
Arrive On Green	0.03	1.00		1.00	1.00	0.05	0.05
Sat Flow, veh/h	1711	5732		5732	1487	828	828
Grp Volume(v), veh/h	20	2051		948	21	69	0
Grp Sat Flow(s), veh/h/		1850		1850	1487	1680	0
Q Serve(g_s), s	2.1	0.0		0.0	0.0	7.3	0.0
	2.1	0.0		0.0			
Cycle Q Clear(g_c), s		0.0		0.0	0.0	7.3	0.0
Prop In Lane	1.00	1000		1700	1.00	0.49	0.49
Lane Grp Cap(c), veh/l		4966		4763	1276	85	0
V/C Ratio(X)	0.81	0.41		0.20	0.02	0.81	0.00
Avail Cap(c_a), veh/h	124	4966		4763	1276	299	0
HCM Platoon Ratio	2.00	2.00		2.00	2.00	1.00	1.00
Upstream Filter(I)	0.90	0.90		0.98	0.98	1.00	0.00
Uniform Delay (d), s/ve		0.0		0.0	0.0	84.6	0.0
Incr Delay (d2), s/veh	18.7	0.2		0.1	0.0	6.8	0.0
Initial Q Delay(d3),s/ve		0.0		0.0	0.0	0.0	0.0
%ile BackOfQ(50%),ve		0.1		0.0	0.0	3.4	0.0
Unsig. Movement Dela							
LnGrp Delay(d),s/veh	105.9	0.2		0.1	0.0	91.4	0.0
LnGrp LOS	F	Α		Α	Α	F	Α
Approach Vol, veh/h		2071		969		69	
Approach Delay, s/veh		1.2		0.1		91.4	
Approach LOS		А		А		F	
Timer - Assigned Phs		2		4	5	6	
Phs Duration (G+Y+Ro	c) s	166.9		13.1		160.3	
Change Period (Y+Rc)		* 5.8		4.0	4.0	5.8	
Max Green Setting (Gr				32.0		121.2	
Max Q Clear Time (g_c		1.4⊑Z 2.0		9.3	4.1	2.0	
		2.0 82.5		9.3 0.1	4.1 0.0	2.0	
Green Ext Time (p_c),	5	02.3		0.1	0.0	17.7	
Intersection Summary							
HCM 6th Ctrl Delay			2.9				
HCM 6th LOS			A				

User approved volume balancing among the lanes for turning movement.

User approved ignoring U-Turning movement.

	٨	<b>→</b>	7	4	+	*	1	t	1	4	ŧ	4	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ሻ	<b>†††</b>			<b>†</b> ††	1				٦		1	
Traffic Volume (veh/h)	50	2040	0	10	850	30	0	0	0	100	0	60	
Future Volume (veh/h)	50	2040	0	10	850	30	0	0	0	100	0	60	
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.97				1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00	
Work Zone On Approac		No			No						No		
Adj Sat Flow, veh/h/ln	1796	2033	0	1870	2033	1796				1870	0	1870	
Adj Flow Rate, veh/h	54	2217	0	10	885	31				145	0	87	
Peak Hour Factor	0.92	0.92	0.92	0.96	0.96	0.96				0.69	0.69	0.69	
Percent Heavy Veh, %	7	7	0	2	7	7				2	0	2	
Cap, veh/h	398	3576	0	316	3255	870				166	0	517	
Arrive On Green	0.47	1.00	0.00	0.35	1.00	1.00				0.09	0.00	0.09	
Sat Flow, veh/h	1711	5732	0	1781	5549	1483				1781	0	1585	
Grp Volume(v), veh/h	54	2217	0	10	885	31				145	0	87	
Grp Sat Flow(s),veh/h/li		1850	0	1781	1850	1483				1781	0	1585	
Q Serve(g_s), s	3.2	0.0	0.0	0.7	0.0	0.0				14.5	0.0	0.0	
Cycle Q Clear(g_c), s	3.2	0.0	0.0	0.7	0.0	0.0				14.5	0.0	0.0	
Prop In Lane	1.00		0.00	1.00		1.00				1.00		1.00	
Lane Grp Cap(c), veh/h		3576	0	316	3255	870				166	0	517	
V/C Ratio(X)	0.14	0.62	0.00	0.03	0.27	0.04				0.87	0.00	0.17	
Avail Cap(c_a), veh/h	398	3576	0	316	3255	870				407	0	731	
HCM Platoon Ratio	2.00	2.00	1.00	2.00	2.00	2.00				1.00	1.00	1.00	
Upstream Filter(I)	0.91	0.91	0.00	0.97	0.97	0.97				1.00	0.00	1.00	
Uniform Delay (d), s/vel		0.0	0.0	48.0	0.0	0.0				80.5	0.0	43.2	
Incr Delay (d2), s/veh	0.1	0.7	0.0	0.0	0.2	0.1				5.4	0.0	0.1	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0	
%ile BackOfQ(50%),veh		0.2	0.0	0.3	0.1	0.0				7.0	0.0	4.4	
Unsig. Movement Delay			0.0	40.0	• •	0.4				00.0	0.0	40.0	
LnGrp Delay(d),s/veh	37.8	0.7	0.0	48.0	0.2	0.1				86.0	0.0	43.3	
LnGrp LOS	D	A	A	D	A	A				F	<u>A</u>	D	
Approach Vol, veh/h		2271			926						232		
Approach Delay, s/veh		1.6			0.7						70.0		
Approach LOS		A			A						E		
Timer - Assigned Phs	1	2		4	5	6							
Phs Duration (G+Y+Rc)	), <b>3</b> 6.3	122.0		21.7	46.3	112.0							
Change Period (Y+Rc),		6.0		4.9	4.4	6.4							
Max Green Setting (Gm		116.0		41.1	17.6	105.6							
Max Q Clear Time (g_c		2.0		16.5	5.2	2.0							
Green Ext Time (p_c), s	s 0.0	55.6		0.3	0.0	9.6							
Intersection Summary													
HCM 6th Ctrl Delay			6.0										
HCM 6th LOS			А										

#### Notes

User approved ignoring U-Turning movement.

	٠	-	7	*	+	*	1	t	1	1	Ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	à	<b>†</b> ††		٦	<b>†</b> ††	1				5	4		
Traffic Volume (veh/h)	160	2040	0	30	800	200	0	0	0	250	0	90	
Future Volume (veh/h)	160	2040	0	30	800	200	0	0	0	250	0	90	
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0	
Ped-Bike Adj(A_pbT)	1.00	-	1.00	1.00	-	0.98				1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00	
Work Zone On Approac		No			No						No		
Adj Sat Flow, veh/h/ln	1796	2033	0	1575	2033	1796				1870	1870	1870	
Adj Flow Rate, veh/h	168	2147	0	32	860	215				193	127	102	
Peak Hour Factor	0.95	0.95	0.95	0.93	0.93	0.93				0.88	0.88	0.88	
Percent Heavy Veh, %	7	7	0.00	2	7	7				2	2	2	
Cap, veh/h	489	4112	0	39	2620	701				264	142	114	
Arrive On Green	0.57	1.00	0.00	0.03	0.47	0.47				0.15	0.15	0.15	
Sat Flow, veh/h	1711	5732	0.00	1500	5549	1485				1781	958	770	
	168	2147	0	32	860	215				193		229	
Grp Volume(v), veh/h Grp Sat Flow(s),veh/h/l		2147 1850		32 1500	1850	1485				1781	0 0	229 1728	
,			0										
Q Serve(g_s), s	9.4	0.0	0.0	3.8	17.4	16.1				18.6	0.0	23.4	
Cycle Q Clear(g_c), s	9.4	0.0	0.0	3.8	17.4	16.1				18.6	0.0	23.4	
Prop In Lane	1.00	1110	0.00	1.00	0000	1.00				1.00	0	0.45	
Lane Grp Cap(c), veh/h		4112	0	39	2620	701				264	0	256	
V/C Ratio(X)	0.34	0.52	0.00	0.83	0.33	0.31				0.73	0.00	0.89	
Avail Cap(c_a), veh/h	489	4112	0	113	2620	701				427	0	414	
HCM Platoon Ratio	2.00	2.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00	
Upstream Filter(I)	0.84	0.84	0.00	0.92	0.92	0.92				1.00	0.00	1.00	
Uniform Delay (d), s/ve		0.0	0.0	87.3	29.7	29.3				73.2	0.0	75.3	
Incr Delay (d2), s/veh	0.1	0.4	0.0	13.8	0.3	1.0				1.5	0.0	8.9	
Initial Q Delay(d3),s/vel		0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0	
%ile BackOfQ(50%),ve		0.2	0.0	1.6	7.7	5.9				8.7	0.0	11.1	
Unsig. Movement Delay	y, s/veh												
LnGrp Delay(d),s/veh	29.7	0.4	0.0	101.0	30.0	30.4				74.7	0.0	84.2	
LnGrp LOS	С	A	Α	F	С	С				E	A	F	
Approach Vol, veh/h		2315			1107						422		
Approach Delay, s/veh		2.5			32.1						79.9		
Approach LOS		А			С						Е		
Timer - Assigned Phs	1	2		4	5	6							
Phs Duration (G+Y+Rc		139.4		31.6	57.4	91.0							
Change Period (Y+Rc),		6.0		4.9	6.0	* 6							
Max Green Setting (Gr				43.1	36.6	* 85							
Max Q Clear Time (g_c		2.0		25.4	11.4	19.4							
Green Ext Time (p_c),		63.0		1.0	0.2	14.3							
Intersection Summary													
HCM 6th Ctrl Delay			19.5										
HCM 6th LOS			В										
N1 /													

User approved volume balancing among the lanes for turning movement.

User approved ignoring U-Turning movement.

	۶	-	+	•	4	~
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	ኘኘ	<b>†</b> ††	<b>†</b> †Ъ	1	<u>ሕ</u> ሻ	11
Traffic Volume (veh/h)	490	1890	940	580	360	190
Future Volume (veh/h)	490	1890	940	580	360	190
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			0.98	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approac		No	No		No	
Adj Sat Flow, veh/h/ln	1796	2033	2033	1796	1550	1841
Adj Flow Rate, veh/h	533	2054	861	683	387	204
Peak Hour Factor	0.92	0.92	0.96	0.96	0.93	0.93
Percent Heavy Veh, %	7	7	7	7	4	4
Cap, veh/h	578	4379	2400	1756	429	890
Arrive On Green	0.17	0.79	1.00	1.00	0.15	0.15
Sat Flow, veh/h	3319	5732	4065	2974	2864	2745
Grp Volume(v), veh/h	533	2054	861	683	387	204
Grp Sat Flow(s),veh/h/l	n1659	1850	2033	1487	1432	1373
Q Serve(g_s), s	28.4	22.3	0.0	0.0	23.9	9.8
Cycle Q Clear(g_c), s	28.4	22.3	0.0	0.0	23.9	9.8
Prop In Lane	1.00			1.00	1.00	1.00
Lane Grp Cap(c), veh/h	n 578	4379	2400	1756	429	890
V/C Ratio(X)	0.92	0.47	0.36	0.39	0.90	0.23
Avail Cap(c_a), veh/h	933	4379	2400	1756	700	1150
HCM Platoon Ratio	1.00	1.00	2.00	2.00	1.00	1.00
Upstream Filter(I)	0.81	0.81	0.32	0.32	0.96	0.96
Uniform Delay (d), s/ve	h 73.1	6.4	0.0	0.0	75.2	44.4
Incr Delay (d2), s/veh	5.4	0.3	0.1	0.2	5.8	0.0
Initial Q Delay(d3),s/vel	h 0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),vel	h/11h2.3	7.5	0.0	0.1	9.0	8.6
Unsig. Movement Delay	y, s/veh	1				
LnGrp Delay(d),s/veh	78.5	6.6	0.1	0.2	81.0	44.5
LnGrp LOS	Е	А	А	А	F	D
Approach Vol, veh/h		2587	1544		591	
Approach Delay, s/veh		21.5	0.2		68.4	
Approach LOS		С	Α		E	
Timer - Assigned Phs		2		4	5	6
Phs Duration (G+Y+Rc	). s	148.0		32.0		112.3
Change Period (Y+Rc),		6.0		5.0	4.4	* 6
Max Green Setting (Gr		125.0		44.0	50.6	* 70
Max Q Clear Time (g_c		24.3		25.9	30.4	2.0
Green Ext Time (p_c),		44.8		1.1	0.9	22.7
$(p_0), $	•	11.0		1.1	0.0	22.1

Intersection Summary	
HCM 6th Ctrl Delay	20.4
HCM 6th LOS	С

User approved volume balancing among the lanes for turning movement.

User approved ignoring U-Turning movement.

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

	٠	-	7	-	+	*	1	Ť	1	4	ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	à	<b>^</b>	1	ልካ			7	4	1		4	1	
Traffic Volume (veh/h)	150	1900	140	130	1150	200	300	360	340	420	260	100	
Future Volume (veh/h)	150	1900	140	130	1150	200	300	360	340	420	260	100	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	Ū	1.00	1.00	Ū	0.98	1.00	v	1.00	1.00	v	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No	1.00		No			No			No		
Adj Sat Flow, veh/h/ln	1796	2033	1796	1513	2033	1796	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	161	2043	151	141	1250	217	306	367	347	477	295	114	
Peak Hour Factor	0.93	0.93	0.93	0.92	0.92	0.92	0.98	0.98	0.98	0.88	0.88	0.88	
Percent Heavy Veh, %	7	7	7	7	7	7	2	2	2	2	2	2	
Cap, veh/h	371	2559	702	118	1327	230	387	406	343	362	224	511	
Arrive On Green	0.22	0.46	0.46	0.01	0.09	0.09	0.22	0.22	0.22	0.32	0.32	0.32	
Sat Flow, veh/h	1711	5549	1522	2795	4740	823	1781	1870	1581	1121	693	1582	
Grp Volume(v), veh/h	161	2043	151	141	976	491	306	367	347	772	0	114	
Grp Sat Flow(s),veh/h/l		1850	1522	1397	1850	1863	1781	1870	1581	1814	0	1582	
Q Serve(g_s), s	14.6	56.5	10.7	7.6	47.2	47.2	29.2	34.4	39.1	58.1	0.0	9.5	
Cycle Q Clear(g_c), s	14.6	56.5	10.7	7.6	47.2	47.2	29.2	34.4	39.1	58.1	0.0	9.5	
Prop In Lane	1.00	0==0	1.00	1.00	1000	0.44	1.00	100	1.00	0.62	•	1.00	
Lane Grp Cap(c), veh/h		2559	702	118	1036	522	387	406	343	586	0	511	
V/C Ratio(X)	0.43	0.80	0.22	1.19	0.94	0.94	0.79	0.90	1.01	1.32	0.00	0.22	
Avail Cap(c_a), veh/h	371	2559	702	118	1036	522	387	406	343	586	0	511	
HCM Platoon Ratio	1.00	1.00	1.00	0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	0.83	0.83	0.83	0.59	0.59	0.59	1.00	1.00	1.00	1.00	0.00	1.00	
Uniform Delay (d), s/ve		41.4	29.0	88.7	80.2	80.2	66.6	68.6	70.4	61.0	0.0	44.5	
Incr Delay (d2), s/veh	0.2	2.3	0.6	126.1	11.5	19.1	9.8	22.4	51.3	155.0	0.0	0.1	
Initial Q Delay(d3),s/vel		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),vel	h/ln6.4	26.0	4.1	4.9	25.3	26.6	14.5	19.2	20.9	52.0	0.0	3.8	
Unsig. Movement Delay	y, s/veh	1											
LnGrp Delay(d),s/veh	61.2	43.6		214.8	91.8	99.3	76.4	91.1	121.7	215.9	0.0	44.6	
LnGrp LOS	E	D	С	F	F	F	E	F	F	F	Α	D	
Approach Vol, veh/h		2355			1608			1020			886		
Approach Delay, s/veh		43.9			104.9			97.1			193.9		
Approach LOS		D			F			F			F		
Timer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Rc	), \$2.0	89.0		63.0	45.0	56.0		44.0					
Change Period (Y+Rc),		5.2		4.9	5.2	* 5.6		4.9					
Max Green Setting (Gr		55.8		58.1	12.6	* 50		39.1					
Max Q Clear Time (g_c		58.5		60.1	16.6	49.2		41.1					
Green Ext Time (p_c),		0.0		0.0	0.0	1.1		0.0					
w = 7	0.0	0.0		5.0	0.0			0.0					
Intersection Summary			00.5										
HCM 6th Ctrl Delay			92.5										
HCM 6th LOS			F										
Mataa													

User approved volume balancing among the lanes for turning movement.

User approved ignoring U-Turning movement.

### ノューベンイ

	~	2010-00-00			0.000	Chevron
	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	3	<b>†</b> ††	<b>†</b> ††	1	٦Y	1
	500	2190	1210	260	780	300
· · · · · ·	500	2190	1210	260	780	300
Initial Q (Qb), veh	0	0	0	0	0	0
<u>, , , , , , , , , , , , , , , , , , , </u>	1.00			0.97	1.00	1.00
<b>0</b> , <b>1</b>	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
	1796	2033	2033	1796	1563	1856
	515	2258	1247	268	857	330
Peak Hour Factor (	0.97	0.97	0.97	0.97	0.91	0.91
Percent Heavy Veh, %	7	7	7	7	3	3
Cap, veh/h	524	3512	1688	450	922	487
Arrive On Green (	0.61	1.00	0.20	0.20	0.31	0.31
Sat Flow, veh/h 1	1711	5732	5732	1478	2976	1572
Grp Volume(v), veh/h	515	2258	1247	268	857	330
Grp Sat Flow(s),veh/h/ln1		1850	1850	1478	1488	1572
,	52.7	0.0	37.9	29.6	50.2	33.0
(0= ):	52.7	0.0	37.9	29.6	50.2	33.0
	1.00			1.00	1.00	1.00
		3512	1688	450	922	487
• • • • • •	0.98	0.64	0.74	0.60	0.93	0.68
	570	3512	1688	450	967	511
	2.00	2.00	0.67	0.67	1.00	1.00
	0.09	0.09	0.80	0.80	0.71	0.71
Uniform Delay (d), s/veh3		0.0	65.0	61.6	60.2	54.3
Incr Delay (d2), s/veh	7.3	0.1	2.4	4.6	11.3	2.8
, ,,		0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/f		0.0	18.7	12.0	20.5	28.3
Unsig. Movement Delay,			10.7	12.0	20.0	20.0
	41.7	0.1	67.3	66.2	71.5	57.0
LnGrp LOS	D	A	E	E	E	E
Approach Vol, veh/h		2773	1515		1187	
Approach Delay, s/veh		7.8	67.1		67.5	
Approach LOS		7.0 A	E		07.5 E	
			L			
Timer - Assigned Phs		2		4	5	6
Phs Duration (G+Y+Rc),		119.7		60.3	59.2	60.6
Change Period (Y+Rc), s		* 5.8		4.5	4.0	5.8
Max Green Setting (Gma		1.1E2		58.5	60.0	47.2
Max Q Clear Time (g_c+l	l1), s	2.0		52.2	54.7	39.9
Green Ext Time (p_c), s		87.5		3.5	0.5	5.9
Intersection Summary						
			27.0			
HCM 6th Ctrl Delay			37.2			
HCM 6th LOS			D			

#### Notes

User approved volume balancing among the lanes for turning movement.

User approved ignoring U-Turning movement.

	٢	-	7	-	+	•	1	t	1	4	ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	à	<b>^</b>	1	A	<b>^</b>	1	ኘካ	-¢†	1	<u>ሕ</u> ካ	<b>≜</b> t}		
Traffic Volume (veh/h)	210	1790	900	460	910	280	400	750	120	510	850	140	
Future Volume (veh/h)	210	1790	900	460	910	280	400	750	120	510	850	140	
Initial Q (Qb), veh	0	0	0	00+00	0	200	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	U	0.99	1.00	U	0.99	1.00	U	0.98	1.00	U	0.98	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
		No	1.00	1.00	No	1.00	1.00	No	1.00	1.00	No	1.00	
Work Zone On Approac			1706	1706	2033	1724	1070		1070	1070		1870	
Adj Sat Flow, veh/h/ln	1796	2033	1796	1796			1870	1870	1870	1870	1870		
Adj Flow Rate, veh/h	219	1865	938	500	989	304	449	843	135	573	955	157	
Peak Hour Factor	0.96	0.96	0.96	0.92	0.92	0.92	0.89	0.89	0.89	0.89	0.89	0.89	
Percent Heavy Veh, %	7	7	7	7	7	7	2	2	2	2	2	2	
Cap, veh/h	238	1652	789	319	1915	502	792	831	346	666	587	96	
Arrive On Green	0.05	0.10	0.10	0.37	0.69	0.69	0.22	0.22	0.22	0.19	0.19	0.19	
Sat Flow, veh/h	1711	5549	1513	1711	5549	1454	3563	3741	1559	3456	3045	500	
Grp Volume(v), veh/h	219	1865	938	500	989	304	449	843	135	573	557	555	
Grp Sat Flow(s),veh/h/l	n1711	1850	1513	1711	1850	1454	1781	1870	1559	1728	1777	1768	
Q Serve(g_s), s	23.0	53.6	53.6	33.6	15.4	20.0	20.2	40.0	13.3	28.9	34.7	34.7	
Cycle Q Clear(g_c), s	23.0	53.6	53.6	33.6	15.4	20.0	20.2	40.0	13.3	28.9	34.7	34.7	
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.28	
Lane Grp Cap(c), veh/h		1652	789	319	1915	502	792	831	346	666	343	341	
V/C Ratio(X)	0.92	1.13	1.19	1.57	0.52	0.61	0.57	1.01	0.39	0.86	1.63	1.63	
Avail Cap(c_a), veh/h	276	1652	789	319	1915	502	792	831	346	666	343	341	
HCM Platoon Ratio	0.33	0.33	0.33	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	0.58	0.58	0.58	1.00	1.00	1.00	1.00	1.00	1.00	0.76	0.76	0.76	
Uniform Delay (d), s/ve		81.2	43.1	56.4	20.6	21.4	62.3	70.0	59.6	70.3	72.7	72.7	
Incr Delay (d2), s/veh	20.0	63.0	92.7	269.3	1.0	5.4	02.5	34.8	0.4	8.4	291.8	292.6	
Initial Q Delay(d3), s/vel		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.0	0.0	
		36.5	58.9	36.2	5.1	5.4	9.1					43.3	
%ile BackOfQ(50%),vel			00.9	30.Z	J. I	5.4	9.1	22.9	5.3	13.5	43.5	43.3	
Unsig. Movement Delay	•		100.0	205 7	04.0	00 7	60.0	104.0	60.0	70.7	264.4	265.2	
LnGrp Delay(d),s/veh					21.6	26.7	63.0	104.8	60.0	78.7	364.4	365.3	
LnGrp LOS	F	F	F	F	C	С	E	F	E	E	F	F	
Approach Vol, veh/h		3022			1793			1427			1685		
Approach Delay, s/veh		138.7			107.3			87.4			267.5		
Approach LOS		F			F			F			F		
Timer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Rc	), 38.0	59.5		40.0	29.5	68.0		46.0					
Change Period (Y+Rc)		* 5.8		5.3	4.4	5.8		6.0					
Max Green Setting (Gn		* 50		34.7	29.0	54.8		40.0					
Max Q Clear Time (g_c				36.7	25.0	22.0		42.0					
Green Ext Time (p_c),		0.0		0.0	0.1	10.1		0.0					
а — <i>У</i> -	0.0	0.0		0.0	0.1	10.1		0.0					
Intersection Summary			110.0										
HCM 6th Ctrl Delay			149.8										
HCM 6th LOS			F										
Notos													

User approved volume balancing among the lanes for turning movement.

User approved ignoring U-Turning movement.

	۲	<b>→</b>	7	4	+	•	1	t	1	4	ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	3	<b>^</b>	1		<b>^</b>	11				ኘኘ		11	
Traffic Volume (veh/h)	0	1070	2390	0	950	490	0	0	0	160	0	320	
Future Volume (veh/h)	0	1070	2390	0	950	490	0	0	0	160	0	320	
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00				1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00	
Work Zone On Approa	ch	No			No						No		
Adj Sat Flow, veh/h/ln	1796	2033	1796	0	2033	1796				1870	0	1870	
Adj Flow Rate, veh/h	0	1081	0	0	960	0				168	0	337	
Peak Hour Factor	0.99	0.99	0.99	0.99	0.99	0.99				0.95	0.95	0.95	
Percent Heavy Veh, %	7	7	7	0	7	7				2	0	2	
Cap, veh/h	1	3025		0	3025					536	0	360	
Arrive On Green	0.00	1.00	0.00	0.00	0.78	0.00				0.16	0.00	0.16	
Sat Flow, veh/h	1711	3862	1522	0	3964	2679				3456	0	2790	
Grp Volume(v), veh/h	0	1081	0	0	960	0				168	0	337	
Grp Sat Flow(s),veh/h/l		1931	1522	0	1931	1340				1728	0	1395	
Q Serve(g_s), s	0.0	0.0	0.0	0.0	12.9	0.0				7.8	0.0	26.2	
Cycle Q Clear(g_c), s	0.0	0.0	0.0	0.0	12.9	0.0				7.8	0.0	26.2	
Prop In Lane	1.00		1.00	0.00		1.00				1.00		1.00	
Lane Grp Cap(c), veh/ł		3025		0	3025					536	0	360	
V/C Ratio(X)	0.00	0.36		0.00	0.32					0.31	0.00	0.94	
Avail Cap(c_a), veh/h	297	3025		0	3025					536	0	360	
HCM Platoon Ratio	1.67	1.67	1.67	1.00	1.00	1.00				1.00	1.00	1.00	
Upstream Filter(I)	0.00	1.00	0.00	0.00	0.97	0.00				1.00	0.00	1.00	
Uniform Delay (d), s/ve		0.0	0.0	0.0	5.6	0.0				67.5	0.0	112.0	
Incr Delay (d2), s/veh	0.0	0.3	0.0	0.0	0.3	0.0				0.1	0.0	31.3	
Initial Q Delay(d3),s/ve	h 0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0	
%ile BackOfQ(50%),ve		0.1	0.0	0.0	4.8	0.0				3.5	0.0	1.6	
Unsig. Movement Dela													
LnGrp Delay(d),s/veh	0.0	0.3	0.0	0.0	5.9	0.0				67.7	0.0	143.4	
LnGrp LOS	A	A		A	A					E	A	F	
Approach Vol, veh/h		1081	А		960	А					505		
Approach Delay, s/veh		0.3			5.9						118.2		
Approach LOS		A			A						F		
Timer - Assigned Phs		2		4	5	6							
Phs Duration (G+Y+Rc	c), s	147.0		33.0		147.0							
Change Period (Y+Rc)		6.0		5.1	* 4.7	6.0							
Max Green Setting (Gr				27.9		105.0							
Max Q Clear Time (g_c	,.	2.0		28.2	0.0	14.9							
Green Ext Time (p_c),		5.7		0.0	0.0	4.5							
Intersection Summary													
HCM 6th Ctrl Delay			25.8										
HCM 6th LOS			С										

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier. Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.

# クッシュナベル インシャイ

Movement         EBL         EBR         WBL         WBT         WBR         NBR         SBL         S		20030		•				100	· (		•		
Traffic Volume (vehh)       0       10       1710       0       940       80       100       0       1550       0       0       0       0         Initial Q (Qb), veh       0       0       10       1100       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00 <th< th=""><th>Movement EBI</th><th>. EBT</th><th>EBR</th><th>WBL</th><th></th><th>WBR</th><th></th><th>NBT</th><th></th><th>SBL</th><th>SBT</th><th>SBR</th><th></th></th<>	Movement EBI	. EBT	EBR	WBL		WBR		NBT		SBL	SBT	SBR	
Traffic Volume (vehh)       0       10       1710       0       940       80       100       0       1550       0       0       0         Initial Q (Qb), veh       0       0       10       1710       940       80       100       1550       0       0       0       0         Petture Volume (vehh)       0       100       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00 <th1< td=""><td>Lane Configurations</td><td>- ++</td><td>1</td><td>٦</td><td>tttt</td><td>1</td><td>ሻሻ</td><td></td><td>77</td><td></td><td></td><td></td><td></td></th1<>	Lane Configurations	- ++	1	٦	tttt	1	ሻሻ		77				
Initial Q(Qb), veh       0       0       0       0       0       0       0       0         Perd-Bike Adj(A, pbT)       1.00       1.00       1.00       1.00       1.00       1.00       1.00         Parking Bus, Adj       1.00       1.00       1.00       1.00       1.00       1.00       1.00         Adj Sat Flow, Veh/h       0       1796       1796       1796       1796       1796       1870       1870         Adj Flow Rate, veh/h       0       10       0.0       0.01       1.00       1.00       1.00       1.00         Peak Hour Factor       0.97       0.97       0.93       0.93       0.95       0.95       0.95         Percent Heavy Veh, %       0       7       7       7       7       2       0       2         Cap, veh/h       0       503       1522       1711       1719       1725       0       1355         Grp Volume(v), veh/h       0       100       1.00       1.00       1.00       1.00       1.00       1.00         Grp Sat Flow, veh/h       0       13802       1711       16179       17122       3456       0       2790         Grp Volke Qa(S),	Traffic Volume (veh/h)		1710	0		80		0	1550	0	0	0	
Ped-Bike Adj(A_pbT)       1.00       1.00       1.00       1.00       1.00       1.00       1.00         Parking Bus, Adj       1.00       1.00       1.00       1.00       1.00       1.00       1.00         Adj Sat Flow, veh/h/ln       0       1796       1796       1796       1796       1870       0       1870         Adj Flow Rate, veh/h       0       10       0       0       101       105       0       1632         Percent Heavy Veh, %       0       7       7       7       7       2       0       2         Cap, veh/h       0       1601       5       2899       507       0       0       152         Sat Flow, veh/h       0       100       0       0       1011       0       0       0       152         Grp Volume(V), veh/h       0       100       0       0       1011       105       0       1632         Grp Sat Flow, veh/h       0       100       0       0       1011       0       0       5.0       0       5.0         Cycle Q Clearig c.), s       0.0       1.00       0.0       3.5       0.0       0.0       5.0       0       5.0 </td <td></td> <td></td> <td>1710</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> <td>0</td> <td>0</td> <td></td>			1710							0	0	0	
Parking Bus, Adj       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00         Work Zone On Approach       No       No       No       No       No       No         Adj Sat Flow, vehh/n       0       10       0       0       1011       0       105       0       1632         Peak Hour Factor       0.97       0.97       0.93       0.93       0.95       0.95       0.95         Percent Heavy Veh, %       0       7       7       7       7       2       0       2         Cap, veh/h       0       1601       5       2899       507       0       0       1.15         Sat Flow, veh/h       0       100       0.00       0.01       1.00       0.01       1.55       0       1.632         Grp Volume(/), veh/h       0       10       0.00       1.55       0.0       0.1       0.00       0.05       0       1.03       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00 <td< td=""><td>(X + P)</td><td></td><td></td><td></td><td>0</td><td></td><td></td><td>0</td><td></td><td></td><td></td><td></td><td></td></td<>	(X + P)				0			0					
Work Zone On Ápproach         No         No         No         No           Adj Sat Flow, veh/hin         0         1796         1796         1870         0         1870           Adj Flow Rate, veh/h         0         100         0         1011         0         105         0         1632           Peak Hour Factor         0.97         0.97         0.97         0.93         0.93         0.95         0.95         0.95           Cap, veh/h         0         1601         5         2899         507         0         0           Grp Volume(v), veh/h         0         1601         5         2899         507         0         0           Grp Volume(v), veh/h         0         3503         1522         1711         6179         1522         3456         2790           Grp Volume(v), veh/h         0         0         0         1011         0         100         1632           Grp Volume(v), veh/h         0         100         0         350         0         9         0         5.0           Qrela C Lear(g. s), s         0         0         1.00         1.00         1.00         1.00         1.00         1.00	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,												
Adj Sat Flow, veh/h/ln       0       1796       1796       1796       1870       0       1870         Adj Flow Rate, veh/h       0       10       0       0       1011       0       105       0       1632         Percent Heavy Veh, %       0       7       7       7       7       7       2       0       2         Cap, veh/h       0       1601       5       2899       507       0       0       0.15         Sat Flow, veh/h       0       1601       5       2899       507       0       0       0.15         Grp Volume(v), veh/h       0       1601       0       0       1011       0       1522       3456       0       2790         Grp Volume(v), veh/h/ln       0       1706       1522       1711       1545       1522       1728       0       1395         Q Serve(g.s), s       0.0       0.1       0.0       0.35       0.0       0.0       5.0         Cycle O Clear(g.c), s       0.0       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00         Lane Grp Cap(c), veh/h       0       1802       2898       2937       507<	<b>3</b>		1.00	1.00	1.00	1.00	1.00		1.00				
Adj Flow Rate, veh/h       0       10       0       0       1011       0       105       0       1632         Peak Hour Factor       0.97       0.97       0.93       0.93       0.95       0.95       0.95         Percent Heavy Veh,%       0       7       7       7       7       2       0       2         Cap, veh/h       0       1601       5       2899       507       0       0         Grip Volume(v), veh/h       0       100       0       0.0111       0       0.0       1.5       0.00       0.15         Gar Poster(g.s), s       0.0       0.1       0       0       0.111       0       0.5       1632         Grip Volume(v), veh/h       0       100       0       0.111       0       105       0       1632         Grip Volume(v), veh/h       0       100       0       3.5       0.0       0.5       5.0         Qycle Q Clear(g.c), s       0.0       1.00       1.00       1.00       1.00       1.00       1.00         Lane Grip Cap(c), veh/h       0       18302       888       29337       507       0       -90         V/C Ratio(X)       0.00													
Peak Hour Factor       0.97       0.97       0.97       0.97       0.93       0.93       0.95       0.95       0.95         Percent Heavy Veh, %       0       7       7       7       7       7       2       0       2         Cap, veh/h       0       1601       5       2899       507       0       0         Arrive On Green       0.00       0.47       0.00       0.01       5       0.00       0.15         Sat Flow, veh/h       0       100       0.00       101       0       105       0       1632         Grp Volume(v), veh/h       0       170       1522       1711       1545       1522       1728       0       1395         Q Serve(g.s), s       0.0       0.1       1.00       1.00       1.00       1.00       1.00       1.00         Lane Grp Cap(c), veh/h       0       1601       5       2899       507       0       -90         HCM Platoon Ratio       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00         Uniform Delay (d), s/veh 0.0       4.8       0.0       0.0       0.0       0.0       0.0       0.0       0.0			1796	1796				0					
Percent Heavy Veh, %       0       7       7       7       7       7       2       0       2         Cap, veh/h       0       1601       5       2899       507       0       0         Arrive On Green       0.00       0.47       0.00       0.00       0.15       50.00       0.15         Satt Flow, veh/h       0       100       0       1011       0       105       0       1632         Grp Volume(v), veh/h       0       100       0       1011       0       105       0       1632         Grp Sat Flow(s), veh/h       0       100       0.0       3.5       0.0       9.0       5.0         Cycle Q Clear(g, c), s       0.0       0.1       0.0       0.35       0.0       9.0       5.0         Cycle Q Clear(g, c), s       0.0       1.00       1.00       1.00       1.00       1.00       1.00         Lane Grp Cap(c), veh/h       0       1601       5       2899       507       0       -90         V/C Ratio (X)       0.00       0.00       0.00       0.00       1.00       1.00       1.00       1.00         Upstream Fitler(f)       0.00       0.00       0.0													
Cap, veh/h       0       1601       5       2899       507       0       0         Arrive On Green       0.00       0.47       0.00       0.00       0.47       0.00       0.015       0.00       0.15         Sat Flow, veh/h       0       3503       1522       1711       6179       1522       3456       0       2790         Grp Volume(v), veh/h       0       10       0       0       1011       0       1632         Grp Sat Flow(s), veh/h/ln       0       1706       1522       1711       1545       1522       1728       0       1395         Q Serve(g_s), s       0.0       0.1       0.0       0.3       5.0       0.9       0.0       5.0         Prop In Lane       0.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00         V/C Ratio(X)       0.00       0.01       0.00       0.35       0.21       0.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00													
Arrive On Green       0.00       0.47       0.00       0.01       50.00       0.15         Sat Flow, veh/h       0       3503       1522       1711       6179       1522       3456       0       2790         Grp Volume(v), veh/h       0       10       0       0       1011       0       105       0       1632         Grp Sat Flow, veh/h       0       100       0.00       3.5       0.0       0.9       0.0       5.0         Cycle C Clear(g. c), s       0.0       1.00       1.00       1.00       1.00       1.00       1.00         Lane Grp Cap(c), veh/h       0       1601       5       2899       507       0       -90         V/C Ratio(X)       0.00       0.01       1.00       1.00       1.00       1.00       1.00         Upstream Fitter(I)       0.00       0.00       0.00       1.00       1.00       1.00       1.00         Unifial Q Delay(d3),s/veh       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0         Unifial Q Delay(d3),s/veh       0.0       4.8       0.0       0.0       0.0       0.0       0.0       0.0         UnGrp Delay(			7			7							
Sat Flow, veh/h         0         3503         1522         1711         6179         1522         3456         0         2790           Grp Volume(v), veh/h         0         10         0         0         1011         0         105         0         1632           Grp Sat Flow(s), veh/h/ln         0         1706         1522         1711         1545         1522         1728         0         1395           Q Serve(g.s), s         0.0         0.1         0.0         0.0         3.5         0.0         0.9         0.0         5.0           Prop In Lane         0.00         1.00         1.00         1.00         1.00         1.00         1.00           Lane Grp Cap(c), veh/h         0         1601         5         2899         507         0         -90           V/C Ratic(X)         0.00         0.01         0.00         1.00         1.00         1.00         1.00         1.00           Upsteam Filter(1)         0.01         1.00         1.00         1.00         1.00         1.00         1.00         1.00           Upsteam Filter(1)         0.0         0.0         0.0         0.0         0.0         0.0         1.00         1.00													
Grp Volume(v), veh/h       0       10       0       0       1011       0       105       0       1632         Grp Sat Flow(s), veh/h/in       0       1706       1522       1711       1545       1522       1728       0       1395         Q Serve(g_s), s       0.0       0.1       0.0       0.3       5       0.0       0.9       0.0       5.0         Cycle Q. Clar(g_c), s       0.0       0.1       0.0       0.3       5       0.0       0.9       0.0       5.0         Cycle Q. Clar(g_c), s       0.0       0.1       0.0       0.5       0.0       1.00       1.00       1.00         Lane       0.00       1.00       1.00       1.00       1.00       1.00       1.00         V/C Ratio(X)       0.00       0.01       0.00       0.35       0.21       0.00       1.814         Avail Cap(c, a), veh/h       0       1.80       1.00       1.00       1.00       1.00       1.00         Upstream Filter(I)       0.00       0.00       0.00       1.00       1.00       1.00       1.00       1.00         Uniform Delay (d), siveh       0.0       0.0       0.0       0.0       0.0													
Grp Sat Flow(s),veh/h/ln       0       1706       1522       1711       1545       1522       1728       0       1395         Q Serve(gs), s       0.0       0.1       0.0       0.0       3.5       0.0       0.9       0.0       5.0         Cycle Q Clear(gC), s       0.0       0.1       0.0       0.0       3.5       0.0       0.9       0.0       5.0         Prop In Lane       0.00       1.00       1.00       1.00       1.00       1.00       1.00         Lane Grp Cap(c), veh/h       0       1601       5       2899       507       0       -90         V/C Ratio(X)       0.00       0.01       0.00       1.00       1.00       1.00       1.00       1.00         Upstream Fitter(1)       0.01       0.00       0.00       0.00       0.0       0.0       0.0       0.0         Uniform Delay (d), s/veh 0.0       4.8       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> <td></td> <td></td> <td></td> <td></td> <td></td>								0					
Q Serve(g.s), s       0.0       0.1       0.0       0.0       3.5       0.0       0.9       0.0       5.0         Cycle Q Clear(g_c), s       0.0       1.00       1.00       1.00       1.00       1.00         Lane Gro Cap(c), veh/h       0       1601       5       2899       507       0       -90         V/C Ratio(X)       0.00       0.01       0.00       0.35       0.21       0.00       -18.14         Avail Cap(c_a), veh/h       0       13802       898       29337       507       0       -90         HCM Platoon Ratio       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00         Upstream Filter(I)       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00								0					
Cycle Q Clear(g_c), s       0.0       0.1       0.0       0.0       3.5       0.0       0.9       0.0       5.0         Prop In Lane       0.00       1.00       1.00       1.00       1.00       1.00         Lane Grp Cap(c), veh/h       0       1601       5       2899       507       0       -90         V/C Ratio(X)       0.00       0.01       0.00       0.35       0.21       0.00       -18.14         Avail Cap(c_a), veh/h       0       1.00       1.00       1.00       1.00       1.00       1.00       1.00         Upstream Filter(I)       0.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td></td<>								-					
Prop In Lane         0.00         1.00         1.00         1.00         1.00         1.00           Lane Grp Cap(c), veh/h         0         1601         5         2899         507         0         -90           V/C Ratio(X)         0.00         0.01         0.00         0.35         0.21         0.00         -80           V/C Ratio(X)         0.00         0.01         0.00         0.35         0.21         0.00         -80           V/C Ratio(X)         0.00         0.01         0.00         0.00         1.00         1.00         -90           HCM Platoon Ratio         1.00         1.00         1.00         1.00         1.00         1.00         1.00           Upstream Filter(I)         0.00         1.00         0.00         0.00         1.00         1.00           Uniform Delay (d), s/veh         0.0         0.0         0.0         0.0         0.0         0.0           Uniform Delay (d2), s/veh         0.0         0.0         0.0         0.0         0.0         0.0           Unsig. Movement Delay, s/veh         0.0         0.0         0.0         0.0         0.0         0.0           LGGrp LOS         A         A         A													
Lane Grp Cap(c), veh/h       0       1601       5       2899       507       0       -90         V/C Ratio(X)       0.00       0.01       0.00       0.35       0.21       0.00       -814         Avail Cap(c, a), veh/h       0       13802       898       29337       507       0       -90         HCM Platoon Ratio       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00         Upstream Filter(I)       0.00       0.00       0.00       0.00       0.00       1.00       1.00         Uniform Delay (d), s/veh       0.0       0.0       0.0       0.0       0.0       0.0       1.00         Incr Delay (d2), s/veh       0.0       0.0       0.0       0.0       0.0       0.0       0.0         Intial Q Delay(d3), s/veh       0.0       0.0       0.0       0.0       0.0       0.0       0.0         Unsig. Movement Delay, s/veh       LnGrp Delay(d), s/veh       0.0       0.0       5.8       0.0       12.9       0.0       0.0         LnGrp Delay (b), veh/h       10       A       1011       A       1737       Approach LOS       A       A       A       A       A					3.5			0.0					
V/C Ratio (X)       0.00       0.01       0.00       0.35       0.21       0.00       -18.14         Avail Cap(c a), veh/h       0 13802       898       29337       507       0       -90         HCM Platoon Ratio       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00         Upstream Filter(I)       0.00       0.00       0.00       1.00       0.00       1.00       1.00         Uniform Delay (d), s/veh       0.0       0.0       0.0       0.0       0.0       0.0       0.0       1.00         Intial Q Delay(d), s/veh       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0         Intial Q Delay(d), s/veh       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0<			1.00			1.00							
Avail Cap(c_a), veh/h       0       13802       898       29337       507       0       -90         HCM Platoon Ratio       1.00       1.00       1.00       1.00       1.00       1.00       1.00         Upstream Filter(I)       0.00       1.00       0.00       1.00       1.00       1.00       1.00         Uniform Delay (d), s/veh       0.0       0.0       0.0       0.0       0.0       0.0       0.0         Incr Delay (d2), s/veh       0.0       0.0       0.0       0.0       0.0       0.0       0.0         Initial Q Delay (d3), s/veh       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0         Unsig. Movement Delay, s/veh       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0         Unsig. Movement Delay, s/veh       0.0       4.8       0.0       0.5       8       0.0       12.9       0.0       0.0         Unsig. Movement Delay, s/veh       4.8       5.8       0.0       12.9       0.0       0.0         LnGrp Delay(d), s/veh /h       10       A       1011       A       1737         Approach LOS       A       A       A	• • • • • •												
HCM Platoon Ratio       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.	( )												
Upstream Filter(I)       0.00       1.00       0.00       1.00       0.00       1.00         Uniform Delay (d), s/veh       0.0       4.8       0.0       0.0       5.7       0.0       12.8       0.0       0.0         Incr Delay (d2), s/veh       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0         Intra Delay (d3), s/veh       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0         Initial Q Delay(d3), s/veh       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0         Wite BackOfQ (50%), veh/lr0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0         Unsig. Movement Delay, s/veh       Unsig.       Novement Delay, s/veh       0.0       12.9       0.0       0.0         LnGrp LOS       A       A       A       B       A       A         Approach Vol, veh/h       10       A       1011       A       1737         Approach LOS       A       A       A       A       A         Phs Duration (G+Y+Rc), s0.0       23.0       23.0       11.1       11.1 <t< td=""><td>1 ( = );</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	1 ( = );												
Uniform Delay (d), s/veh       0.0       4.8       0.0       0.0       5.7       0.0       12.8       0.0       0.0         Incr Delay (d2), s/veh       0.0       0.0       0.0       0.0       0.0       0.0       0.0         Initial Q Delay(d3), s/veh       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0         %ile BackOfQ(50%), veh/ln0.       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0         Unsig. Movement Delay, s/veh													
Incr Delay (d2), s/veh       0.0       0.0       0.0       0.0       0.1       0.0       0.0         Initial Q Delay(d3), s/veh       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0         %ile BackOfQ(50%), veh/Ir0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0         Unsig. Movement Delay, s/veh       0.0       0.0       0.0       5.8       0.0       12.9       0.0       0.0         LnGrp Delay(d), s/veh       0.0       4.8       0.0       0.0       5.8       0.0       12.9       0.0       0.0         LnGrp Delay, s/veh       4.8       0.0       0.0       5.8       0.0       12.9       0.0       0.0         LnGrp LOS       A       A       A       B       A       A         Approach Vol, veh/h       10       A       1011       A       1737         Approach LOS       A       A       A       A       A         Timer - Assigned Phs       1       2       6       8         Phs Duration (G+Y+Rc), s0.0       23.0       23.0       11.1         Change Period (Y+Rc), s 6.1       7.0       7.0       <													
Initial Q Delay(d3),s/veh       0.0       0.0       0.0       0.0       0.0       0.0       0.0         %ile BackOfQ(50%),veh/IrD.0       0.0       0.0       0.0       0.4       0.0       0.3       0.0       0.0         Unsig. Movement Delay, s/veh       0.0       0.0       0.0       5.8       0.0       12.9       0.0       0.0         LnGrp Delay(d),s/veh       0.0       4.8       0.0       0.0       5.8       0.0       12.9       0.0       0.0         LnGrp Delay, d/),s/veh       0.0       4.8       0.0       0.0       5.8       0.0       12.9       0.0       0.0         LnGrp Delay, s/veh       4.8       0.0       12.9       0.0       0.0       0.0         LnGrp LOS       A       A       A       B       A       A         Approach Vol, veh/h       10       A       1011       A       1737         Approach LOS       A       A       A       A       A         Timer - Assigned Phs       1       2       6       8         Phs Duration (G+Y+Rc), s0.0       23.0       23.0       11.1         Change Period (Y+Rc), s 6.1       7.0       7.0       6.1													
%ile BackOfQ(50%),veh/In0.0       0.0       0.0       0.4       0.0       0.3       0.0       0.0         Unsig. Movement Delay, s/veh       0.0       4.8       0.0       0.0       5.8       0.0       12.9       0.0       0.0         LnGrp DOS       A       A       A       B       A       A         Approach Vol, veh/h       10       A       1011       A       1737         Approach Delay, s/veh       4.8       5.8       0.8         Approach LOS       A       A       A       A         Timer - Assigned Phs       1       2       6       8         Phs Duration (G+Y+Rc), s0.0       23.0       23.0       11.1         Change Period (Y+Rc), s 6.1       7.0       7.0       6.1         Max Green Setting (Gmax/7, \$ 137.9       161.9       5.0         Max Q Clear Time (g_c+10, (s       2.1       5.5       7.0         Green Ext Time (p_c), s       0.0       4.9       0.0         Intersection Summary       4.9       0.0       14.9													
Unsig. Movement Delay, s/veh         LnGrp Delay(d),s/veh       0.0       4.8       0.0       0.0       5.8       0.0       12.9       0.0       0.0         LnGrp LOS       A       A       A       B       A       A         Approach Vol, veh/h       10       A       1011       A       1737         Approach Delay, s/veh       4.8       5.8       0.8         Approach LOS       A       A       A         Timer - Assigned Phs       1       2       6       8         Phs Duration (G+Y+Rc), s0.0       23.0       23.0       11.1         Change Period (Y+Rc), s 6.1       7.0       7.0       6.1         Max Green Setting (Gma <b>X</b> ), <b>\$</b> 137.9       161.9       5.0         Max Q Clear Time (g_c+I10), (s       2.1       5.5       7.0         Green Ext Time (p_c), s       0.0       4.9       0.0         Intersection Summary       HCM 6th Ctrl Delay       2.6													
LnGrp Delay(d),s/veh       0.0       4.8       0.0       0.0       5.8       0.0       12.9       0.0       0.0         LnGrp LOS       A       A       A       A       B       A       A         Approach Vol, veh/h       10       A       1011       A       1737         Approach Delay, s/veh       4.8       5.8       0.8         Approach LOS       A       A       A         Timer - Assigned Phs       1       2       6       8         Phs Duration (G+Y+Rc), s0.0       23.0       23.0       11.1         Change Period (Y+Rc), s 6.1       7.0       7.0       6.1         Max Green Setting (Gma <b>X</b> ), <b>S</b> 137.9       161.9       5.0         Max Q Clear Time (g_c+I10, <b>G</b> 2.1       5.5       7.0         Green Ext Time (p_c), s       0.0       4.9       0.0         Intersection Summary       4.9       0.0       14.9       0.0			0.0	0.0	0.4	0.0	0.3	0.0	0.0				
LnGrp LOS       A       A       A       A       B       A       A         Approach Vol, veh/h       10       A       1011       A       1737         Approach Delay, s/veh       4.8       5.8       0.8         Approach LOS       A       A       A         Timer - Assigned Phs       1       2       6       8         Phs Duration (G+Y+Rc), s0.0       23.0       23.0       11.1         Change Period (Y+Rc), s 6.1       7.0       7.0       6.1         Max Green Setting (Gmat), s       137.9       161.9       5.0         Max Q Clear Time (g_c+I10, Gs       2.1       5.5       7.0         Green Ext Time (p_c), s       0.0       4.9       0.0         Intersection Summary       2.6       2.6													
Approach Vol, veh/h       10       A       1011       A       1737         Approach Delay, s/veh       4.8       5.8       0.8         Approach LOS       A       A       A         Timer - Assigned Phs       1       2       6       8         Phs Duration (G+Y+Rc), s0.0       23.0       23.0       11.1         Change Period (Y+Rc), s 6.1       7.0       7.0       6.1         Max Green Setting (Gma <b>X</b> ), <b>\$</b> 137.9       161.9       5.0         Max Q Clear Time (g_c+I10), (s       2.1       5.5       7.0         Green Ext Time (p_c), s       0.0       4.9       0.0         Intersection Summary       2.6       4.9       4.9			0.0			0.0							
Approach Delay, s/veh       4.8       5.8       0.8         Approach LOS       A       A       A         Timer - Assigned Phs       1       2       6       8         Phs Duration (G+Y+Rc), s0.0       23.0       23.0       11.1         Change Period (Y+Rc), s 6.1       7.0       7.0       6.1         Max Green Setting (Gmat/), \$ 137.9       161.9       5.0         Max Q Clear Time (g_c+I10), \$ 2.1       5.5       7.0         Green Ext Time (p_c), s       0.0       4.9       0.0         Intersection Summary       2.6       1.4       1.4				A			В		A				
Approach LOS       A       A       A         Timer - Assigned Phs       1       2       6       8         Phs Duration (G+Y+Rc), s0.0       23.0       23.0       11.1         Change Period (Y+Rc), s 6.1       7.0       7.0       6.1         Max Green Setting (Gmatr, s 137.9       161.9       5.0         Max Q Clear Time (g_c+I10, s 2.1       5.5       7.0         Green Ext Time (p_c), s 0.0       0.0       4.9       0.0         Intersection Summary       2.6			A			A							
Timer - Assigned Phs       1       2       6       8         Phs Duration (G+Y+Rc), s0.0       23.0       23.0       11.1         Change Period (Y+Rc), s       6.1       7.0       6.1         Max Green Setting (Gma <b>k)</b> , <b>3</b> 137.9       161.9       5.0         Max Q Clear Time (g_c+l10), <b>b</b> 2.1       5.5       7.0         Green Ext Time (p_c), s       0.0       4.9       0.0         Intersection Summary         HCM 6th Ctrl Delay       2.6													
Phs Duration (G+Y+Rc), s0.0       23.0       23.0       11.1         Change Period (Y+Rc), s       6.1       7.0       6.1         Max Green Setting (Gma <b>k7</b> , <b>9</b> 161.9       5.0         Max Q Clear Time (g_c+l10, 0s       2.1       5.5       7.0         Green Ext Time (p_c), s       0.0       4.9       0.0         Intersection Summary       2.6	Approach LOS	A			A			A					
Change Period (Y+Rc), s 6.1       7.0       7.0       6.1         Max Green Setting (Gma <b>X</b> ), <b>s</b> 137.9       161.9       5.0         Max Q Clear Time (g_c+110, 0s       2.1       5.5       7.0         Green Ext Time (p_c), s       0.0       4.9       0.0         Intersection Summary       2.6       2.6	Timer - Assigned Phs	2				6		8					
Change Period (Y+Rc), s 6.1       7.0       7.0       6.1         Max Green Setting (Gma <b>X</b> ), <b>s</b> 137.9       161.9       5.0         Max Q Clear Time (g_c+110, 0s       2.1       5.5       7.0         Green Ext Time (p_c), s       0.0       4.9       0.0         Intersection Summary       2.6       2.6	Phs Duration (G+Y+Rc), s0.0	) 23.0				23.0		11.1					
Max Green Setting (Gma <b>x</b> ), <b>3</b> 137.9       161.9       5.0         Max Q Clear Time (g_c+I10), <b>3</b> 2.1       5.5       7.0         Green Ext Time (p_c), s       0.0       4.9       0.0         Intersection Summary       2.6       2.6													
Max Q Clear Time (g_c+l10,0s         2.1         5.5         7.0           Green Ext Time (p_c), s         0.0         4.9         0.0           Intersection Summary         2.6         2.6	• • • •					161.9		5.0					
Green Ext Time (p_c), s         0.0         4.9         0.0           Intersection Summary         2.6         2.6         2.6													
HCM 6th Ctrl Delay 2.6	(0- ):												
HCM 6th Ctrl Delay 2.6	Intersection Summary												
			26										
			A										

#### Notes

Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.

	٠	-	7	-	+	*	1	Ť	1	4	ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ň	<b>†</b>	1	٦	<b>†</b>	1	5	<b>^</b>	1	A	<b>†</b> †	1	
Traffic Volume (veh/h)	230	260	450	170	60	150	120	1420	160	110	1120	60	
Future Volume (veh/h)	230	260	450	170	60	150	120	1420	160	110	1120	60	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	•	0.98	1.00		0.98	1.00	•	0.98	1.00	•	0.98	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach		No			No			No			No		
	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	271	306	529	210	74	185	140	1651	186	124	1258	67	
Peak Hour Factor	0.85	0.85	0.85	0.81	0.81	0.81	0.86	0.86	0.86	0.89	0.89	0.89	
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2	
Cap, veh/h	327	343	427	238	250	208	159	1649	931	170	1696	1030	
Arrive On Green	0.06	0.06	0.06	0.13	0.13	0.13	0.09	0.46	0.46	0.19	0.95	0.95	
Sat Flow, veh/h	1781	1870	1558	1781	1870	1552	1781	3554	1550	1781	3554	1549	
Grp Volume(v), veh/h	271	306	529	210	74	185	140	1651	186	124	1258	67	
Grp Sat Flow(s), veh/h/ln		1870	1558	1781	1870	1552	1781	1777	1550	1781	1250	1549	
Q Serve(g_s), s	27.1	29.2	33.0	20.8	6.4	21.1	14.0	83.5	9.9	11.8	9.9	0.3	
Cycle Q Clear(g_c), s	27.1	29.2	33.0	20.8	6.4	21.1	14.0	83.5	9.9	11.8	9.9	0.3	
Prop In Lane	1.00	29.2	1.00	1.00	0.4	1.00	14.0	00.0	9.9 1.00	1.00	9.9	1.00	
Lane Grp Cap(c), veh/h		343	427	238	250	208	159	1649	931	170	1696	1030	
V/C Ratio(X)	0.83	0.89	1.24	0.88	0.30	0.89	0.88	1.00	0.20	0.73	0.74	0.07	
Avail Cap(c_a), veh/h	327	343	427	287	301	250	297	1649	931	170	1696	1030	
HCM Platoon Ratio	0.33	0.33	427	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00	
Upstream Filter(I)	0.33	0.33	0.83	1.00	1.00	1.00	1.00	1.00	1.00	0.70	0.70	0.70	
• • • • • • • • • • • • • • • • • • • •		0.83 82.8	74.2	76.5	70.3	76.7	81.0	48.3	16.5	70.6	2.4	0.70	
Uniform Delay (d), s/veh	13.3	20.5	122.9	22.6	0.6	26.8	5.9	40.5	0.5	9.2	2.4	0.9	
Incr Delay (d2), s/veh		20.5	0.0	0.0	0.0	20.0	0.0	0.0	0.0	9.2 0.0	0.0	0.1	
Initial Q Delay(d3),s/veh		16.8	33.7	11.1	3.1	10.0	6.7	41.2	5.1	0.0 5.4	1.8	0.0	
%ile BackOfQ(50%),veh			JJ.1	11.1	J. I	10.0	0.7	41.Z	J. I	5.4	1.0	0.2	
Unsig. Movement Delay			107.0	00.1	70.0	103.5	86.9	70.0	17.0	70.0	1 5	1.0	
LnGrp Delay(d),s/veh	95.1	103.3		99.1	70.9			70.8	17.0	79.8	4.5		
LnGrp LOS	F	F	F	F	E	F	F	F	В	E	A	A	
Approach Vol, veh/h		1106			469			1977			1449		
Approach Delay, s/veh		146.1			96.4			66.9			10.7		
Approach LOS		F			F			E			В		
Timer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Rc)	. 82.9	89.2		38.9	20.5	91.6		29.0					
Change Period (Y+Rc),		* 5.7		5.9	4.4	5.7		4.9					
Max Green Setting (Gm		* 84		33.0	30.0	67.1		29.0					
Max Q Clear Time (g_c+		85.5		35.0	16.0	11.9		23.1					
Green Ext Time (p_c), s		0.0		0.0	0.1	18.8		0.9					
Intersection Summary													
HCM 6th Ctrl Delay			70.9										
HCM 6th LOS			E										
Notes													

	٠	-	7	-	+	*	1	Ť	1	4	ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		-۠	1		.¶∳	1	ä	<b>†</b> ††	1	à	<b>†</b> ††	1	
Traffic Volume (veh/h)	110	490	870	30	40	20	410	910	560	60	240	50	
Future Volume (veh/h)	110	490	870	30	40	20	410	910	560	60	240	50	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		0.98	1.00		0.97	1.00		0.98	1.00		0.99	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No			No			No			No		
Adj Sat Flow, veh/h/ln	1870	1870	1796	1870	1870	1796	1870	1870	1870	1575	1870	1870	
Adj Flow Rate, veh/h	131	583	1036	35	47	23	461	1022	629	70	279	58	
Peak Hour Factor	0.84	0.84	0.84	0.86	0.86	0.86	0.89	0.89	0.89	0.86	0.86	0.86	
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2	
Cap, veh/h	242	1146	575	68	101	70	672	1450	443	259	394	121	
Arrive On Green	0.38	0.38	0.38	0.05	0.05	0.05	0.38	0.28	0.28	0.06	0.03	0.03	
Sat Flow, veh/h	631	2985	1498	1437	2139	1478	1781	5106	1560	1500	5106	1567	
Grp Volume(v), veh/h	382	332	1036	44	38	23	461	1022	629	70	279	58	_
Grp Sat Flow(s),veh/h/lr		1777	1498	1799	1777	1478	1781	1702	1560	1500	1702	1567	
Q Serve(g_s), s	29.1	25.5	69.1	4.3	3.8	2.7	39.2	32.3	51.1	8.0	9.8	6.6	
Cycle Q Clear(g_c), s	29.1	25.5	69.1	4.3	3.8	2.7	39.2	32.3	51.1	8.0	9.8	6.6	
Prop In Lane	0.34		1.00	0.80		1.00	1.00		1.00	1.00		1.00	
Lane Grp Cap(c), veh/h		682	575	85	84	70	672	1450	443	259	394	121	
V/C Ratio(X)	0.54	0.49	1.80	0.51	0.45	0.33	0.69	0.71	1.42	0.27	0.71	0.48	
Avail Cap(c_a), veh/h	706	682	575	330	326	271	672	1450	443	259	672	206	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.33	0.33	0.33	
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	0.55	0.55	0.55	0.86	0.86	0.86	
Uniform Delay (d), s/veł		42.0	55.4	83.7	83.5	83.0	47.1	57.7	64.5	74.0	85.7	84.1	
Incr Delay (d2), s/veh	1.9	1.5	367.8	12.6	10.1	7.3	1.5	1.6	196.5	0.2	8.9	11.2	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh		11.6	84.6	2.3	2.0	1.2	17.3	13.9	44.0	3.2	4.7	3.1	
Unsig. Movement Delay	, s/veh	l .											
LnGrp Delay(d),s/veh	45.0	43.5	423.3	96.3	93.6	90.3	48.6	59.3	260.9	74.2	94.6	95.4	
LnGrp LOS	D	D	F	F	F	F	D	E	F	Е	F	F	
Approach Vol, veh/h		1750			105			2112			407		
Approach Delay, s/veh		268.7			94.0			117.0			91.2		
Approach LOS		F			F			F			F		
Timer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Rc)	. <b>3</b> 5.5	57.1		74.0	72.3	20.3		13.4					
Change Period (Y+Rc),		6.0		4.9	4.4	6.4		4.9					
Max Green Setting (Gm		51.1		69.1	33.6	23.7		33.0					
Max Q Clear Time (g_c-		53.1		71.1	41.2	11.8		6.3					
Green Ext Time (p_c), s		0.0		0.0	0.0	1.5		1.0					
Intersection Summary													
HCM 6th Ctrl Delay			174.7										
HCM 6th LOS			F										
N													

User approved ignoring U-Turning movement.

	۶	-	7	-	+	*	1	t	1	1	Ŧ	~
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ኘኘ	<b>†</b> ††	1	ሻሻ	<b>^</b>	11	ኘኘ	<b>†</b> ††	1	ኘካ	<b>^</b>	1
Traffic Volume (veh/h)	520	1180	280	280	1220	660	310	1380	380	100	820	280
Future Volume (veh/h)	520	1180	280	280	1220	660	310	1380	380	100	820	280
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	•	1.00	1.00	•	1.00	1.00	•	1.00	1.00	•	0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approac		No	1.00	1.00	No	1.00	1.00	No	1.00	1.00	No	1.00
Adj Sat Flow, veh/h/ln	1885	2116	1885	1870	2116	1870	1841	1841	1870	1870	1841	1767
Adj Flow Rate, veh/h	565	1283	304	304	1326	717	337	1500	413	109	891	304
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	1	2	1	2	2	2	4	4	2	2	4	4
Cap, veh/h	626	1894	831	266	1300	538	654	2442	770	2	1224	628
Arrive On Green	0.18	0.33	0.33	0.08	0.22	0.22	0.19	0.49	0.49	0.00	0.24	0.24
Sat Flow, veh/h	3483	5778	1598	3456	5778	2790	3401	5025	1584	3456	5025	1471
	565	1283	304	304	1326	717	337	1500	413	109	891	304
Grp Volume(v), veh/h												
Grp Sat Flow(s),veh/h/l		1926	1598	1728	1926	1395	1700	1675	1584	1728	1675	1471
Q Serve(g_s), s	22.2	26.9	0.0	10.8	31.5	31.5	12.4	30.6	17.9	0.1	22.8	9.4
Cycle Q Clear(g_c), s	22.2	26.9	0.0	10.8	31.5	31.5	12.4	30.6	17.9	0.1	22.8	9.4
Prop In Lane	1.00	4004	1.00	1.00	4000	1.00	1.00	0440	1.00	1.00	4004	1.00
Lane Grp Cap(c), veh/h		1894	831	266	1300	538	654	2442	770	2	1224	628
V/C Ratio(X)	0.90	0.68	0.37	1.14	1.02	1.33	0.52	0.61	0.54	44.16	0.73	0.48
Avail Cap(c_a), veh/h	863	1894	831	501	1300	538	654	2442	770	230	1364	668
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	0.39	0.39	0.39	1.00	1.00	1.00
Uniform Delay (d), s/ve		40.7	19.9	64.6	54.3	75.6	50.7	26.4	12.5	70.0	48.7	10.7
Incr Delay (d2), s/veh	8.2	2.0	1.2	81.3	30.1	162.1	0.1	0.5		9580.5	3.8	2.7
Initial Q Delay(d3),s/vel		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),ve		13.1	6.2	7.8	18.9	12.1	5.3	12.0	6.5	6.8	9.7	3.2
Unsig. Movement Delay			<u>.</u>	445 0	<u></u>	00 <del>7 7</del>	<b>FO O</b>	00.0	10 -		F0 F	40.0
LnGrp Delay(d),s/veh	64.4	42.6	21.1	145.9	84.4	237.7	50.8	26.8		9650.5	52.5	13.3
LnGrp LOS	E	D	С	F	F	F	D	С	В	F	D	В
Approach Vol, veh/h		2152			2347			2250			1304	
Approach Delay, s/veh		45.3			139.2			28.0			1681.5	
Approach LOS		D			F			С			F	
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc	) \$0.0	73.9	15.3	50.8	32.8	41.1	30.1	36.0				
Change Period (Y+Rc),	, ·	5.9	4.5	4.9	5.9	*7	4.9	4.5				
Max Green Setting (Gr		44.7	20.3	4.9	15.0	* 38	34.7	31.5				
Max Q Clear Time (g_c		32.6	20.3	45.9	14.4	24.8	24.2	0.0				
Green Ext Time (p_c),		10.8	0.0	0.1	0.0	24.0 9.2	0.9	0.0				
м <i>=</i> 7	5 0.0	10.0	0.0	0.1	0.0	9.2	0.9	0.0				
Intersection Summary			000 0									
HCM 6th Ctrl Delay			332.8									
HCM 6th LOS			F									
Notes												

	٠	<b>→</b>	7	1	+	*	1	t	1	4	ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		4			र्स	1	3	<b>≜</b> †₽		٦	<b>≜</b> †₽		
Traffic Volume (veh/h)	20	190	100	60	0	250	210	690	150	730	370	170	
Future Volume (veh/h)	20	190	100	60	0	250	210	690	150	730	370	170	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00	-	1.00	1.00		1.00	1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approa		No			No			No			No		
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1841	1841	1841	1841	1841	1841	
Adj Flow Rate, veh/h	29	271	143	71	0	298	228	750	163	753	381	175	
Peak Hour Factor	0.70	0.70	0.70	0.84	0.84	0.84	0.92	0.92	0.92	0.97	0.97	0.97	
Percent Heavy Veh, %		2	2	2	2	2	4	4	4	4	4	4	
Cap, veh/h	21	81	39	92	0	1053	247	961	209	756	1473	667	
Arrive On Green	0.23	0.23	0.23	0.23	0.00	0.23	0.14	0.34	0.34	0.43	0.63	0.63	
Sat Flow, veh/h	0.23	347	165	224	0.00	1581	1753	2855	620	1753	2338	1059	
Grp Volume(v), veh/h	443	0	0	71	0	298	228	459	454	753	2330	272	
1 X //													
Grp Sat Flow(s),veh/h/l		0	0	224	0	1581	1753	1749	1727	1753	1749	1648	
Q Serve(g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	23.1	42.5	42.6	77.1	12.9	13.2	
Cycle Q Clear(g_c), s	42.1	0.0	0.0	42.1	0.0	0.0	23.1	42.5	42.6	77.1	12.9	13.2	
Prop In Lane	0.07	•	0.32	1.00	•	1.00	1.00		0.36	1.00	4400	0.64	
Lane Grp Cap(c), veh/ł		0	0	92	0	1053	247	588	581	756	1102	1038	
V/C Ratio(X)	3.14	0.00	0.00	0.77	0.00	0.28	0.92	0.78	0.78	1.00	0.26	0.26	
Avail Cap(c_a), veh/h	141	0	0	92	0	1053	366	588	581	756	1102	1038	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	1.00	0.68	0.68	0.68	0.71	0.71	0.71	
Uniform Delay (d), s/ve		0.0	0.0	74.5	0.0	12.4	76.4	53.7	53.7	51.1	14.7	14.8	
Incr Delay (d2), s/veh	981.6	0.0	0.0	29.2	0.0	0.1	13.2	4.8	4.9	26.6	0.4	0.4	
Initial Q Delay(d3),s/ve	h 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),ve	eh/¥n4.0	0.0	0.0	4.1	0.0	5.0	11.3	19.4	19.2	38.1	5.1	4.9	
Unsig. Movement Dela	y, s/veh	1											
LnGrp Delay(d),s/veh ?	1043.7	0.0	0.0	103.7	0.0	12.5	89.5	58.6	58.6	77.7	15.1	15.2	
LnGrp LOS	F	А	А	F	А	В	F	Е	E	Е	В	В	
Approach Vol, veh/h		443			369			1141			1309		
Approach Delay, s/veh		1043.7			30.0			64.8			51.1		
Approach LOS		F			С			E			D		
	1	2		4	5	6		8					
Timer - Assigned Phs												_	
Phs Duration (G+Y+Rc		65.6		47.0		118.5		47.0					
Change Period (Y+Rc)		* 5		4.9	4.4	5.0		4.9					
Max Green Setting (Gn		* 46		42.1	37.6	86.0		42.1					
Max Q Clear Time (g_c		44.6		44.1	25.1	15.2		44.1					
Green Ext Time (p_c),	s 0.0	0.9		0.0	0.2	5.5		0.0					
Intersection Summary													
HCM 6th Ctrl Delay			188.3										
HCM 6th LOS			F										
Notes													

note

51: Carroll Canyon Rd/I-805 SB Ramps & Sorrento Valley Rd

timing Plan: PM PEAK

	۲	<b>→</b>	7	1	+	*	1	Ť	1	1	ţ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		<b>†</b> ††	1	٦	<b>^</b>	11	ኘኘ		11	ኘኘ	<b>^</b>	1	
Traffic Volume (veh/h)	0	1270	200	230	1050	1710	120	0	1580	880	110	30	
Future Volume (veh/h)	0	1270	200	230	1050	1710	120	0	1580	880	110	30	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approact	h	No			No			No			No		
Adj Sat Flow, veh/h/ln	0	1870	1870	1870	1870	1870	1885	0	1885	1870	1870	1796	
Adj Flow Rate, veh/h	0	1411	222	250	1141	1859	126	0	1663	1143	143	39	
Peak Hour Factor	0.90	0.90	0.90	0.92	0.92	0.92	0.95	0.95	0.95	0.77	0.77	0.77	
Percent Heavy Veh, %	0	2	2	2	2	2	1	0	1	2	2	2	
Cap, veh/h	0	1970	761	268	2026	2542	329	0	0	1179	756	324	
Arrive On Green	0.00	0.39	0.39	0.15	0.57	0.57	0.09	0.00	0.00	0.34	0.21	0.21	
Sat Flow, veh/h	0	5274	1585	1781	3554	2790	3483	126		3456	3554	1522	
Grp Volume(v), veh/h	0	1411	222	250	1141	1859	126	76.6		1143	143	39	
Grp Sat Flow(s),veh/h/lr	n 0	1702	1585	1781	1777	1395	1742	Е		1728	1777	1522	
Q Serve(g_s), s	0.0	42.2	15.2	25.0	36.6	32.0	6.1			58.6	5.9	3.7	
Cycle Q Clear(g_c), s	0.0	42.2	15.2	25.0	36.6	32.0	6.1			58.6	5.9	3.7	
Prop In Lane	0.00		1.00	1.00		1.00	1.00			1.00		1.00	
Lane Grp Cap(c), veh/h	0	1970	761	268	2026	2542	329			1179	756	324	
V/C Ratio(X)	0.00	0.72	0.29	0.93	0.56	0.73	0.38			0.97	0.19	0.12	
Avail Cap(c_a), veh/h	0	1970	761	444	2026	2542	385			1469	997	427	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00			1.00	1.00	1.00	
Upstream Filter(I)	0.00	1.00	1.00	1.00	1.00	1.00	0.21			1.00	1.00	1.00	
Uniform Delay (d), s/veh	n 0.0	46.9	28.3	75.6	24.5	2.1	76.6			58.4	58.1	57.2	
Incr Delay (d2), s/veh	0.0	2.3	1.0	12.9	1.1	1.9	0.1			14.2	0.0	0.1	
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	
%ile BackOfQ(50%),veh		18.1	6.0	12.3	15.4	3.1	2.7			27.4	2.7	1.4	
Unsig. Movement Delay													
LnGrp Delay(d),s/veh	0.0	49.2	29.2	88.5	25.7	4.0	76.6			72.5	58.2	57.3	
LnGrp LOS	A	D	С	F	С	A	E			E	E	E	
Approach Vol, veh/h		1633			3250						1325		
Approach Delay, s/veh		46.5			18.1						70.5		
Approach LOS		D			В						E		
	1		2	Λ		6	7				_		
Timer - Assigned Phs Phs Duration (G+Y+Rc)	83.0 I	<u>2</u> 77.9	3 23.1	45.8		6 111.1	68.9						
Change Period (Y+Rc),		8.5	6.1	45.0		8.5	7.5						
Max Green Setting (Gm		36.5	19.9	50.5		87.5	76.5						
Max Q Clear Time (g c		36.5 44.2	8.1	50.5 7.9		87.5 38.6	76.5 60.6						
Green Ext Time (p_c), s		44.Z 0.0	0.1	0.3		30.0 6.0	0.0						
<i>u</i> = <i>V</i>	0.1	0.0	0.1	0.3		0.0	0.0						
Intersection Summary			07.0										
HCM 6th Ctrl Delay			37.6										
HCM 6th LOS			D										

	٠	<b>→</b>	7	4	+	٩	1	1	1	4	ţ	4	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ኘኘ	***		٦	***	1		•	777	٦		77	
Traffic Volume (veh/h)	400	920	0	0	1880	300	0	110	540	10	0	620	
Future Volume (veh/h)	400	920	0	0	1880	300	0	110	540	10	0	620	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.99	1.00		1.00	1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No			No			No			No		
	1870	2116	0	1870	2116	1870	0	1870	1870	1870	0	1870	
Adj Flow Rate, veh/h	440	1011	0	0	2022	323	0	122	600	14	0	838	
Peak Hour Factor	0.91	0.91	0.91	0.93	0.93	0.93	0.90	0.90	0.90	0.74	0.74	0.74	
Percent Heavy Veh, %	2	2	0	2	2	2	0	2	2	2	0	2	
Cap, veh/h	478	4168	0	1	3218	952	0	228	345	90	0	0	
Arrive On Green	0.14	0.72	0.00	0.00	1.00	1.00	0.00	0.12	0.12	0.05	0.00	0.00	
	3456	5968	0	1781	5778	1565	0	1870	3614	1781	14		
Grp Volume(v), veh/h	440	1011	0	0	2022	323	0	122	600	14	81.8		
Grp Sat Flow(s),veh/h/In		1926	0	1781	1926	1565	0	1870	1205	1781	F		
Q Serve(g_s), s	22.6	10.6	0.0	0.0	0.0	0.0	0.0	11.0	21.9	1.4			
Cycle Q Clear(g_c), s	22.6	10.6	0.0	0.0	0.0	0.0	0.0	11.0	21.9	1.4			
Prop In Lane	1.00		0.00	1.00		1.00	0.00		1.00	1.00			
Lane Grp Cap(c), veh/h		4168	0	1	3218	952	0	228	345	90			
V/C Ratio(X)	0.92	0.24	0.00	0.00	0.63	0.34	0.00	0.54	1.74	0.16			
Avail Cap(c_a), veh/h	697	4168	0	142	3218	952	0	228	345	227			
HCM Platoon Ratio	1.00	1.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	1.00	1.00	0.00	0.00	0.68	0.68	0.00	1.00	1.00	0.09			
Uniform Delay (d), s/veh		8.5	0.0	0.0	0.0	0.0	0.0	74.3	126.5	81.8			
Incr Delay (d2), s/veh	10.8	0.1	0.0	0.0	0.6	0.7	0.0	1.3	343.7	0.0			
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh		4.3	0.0	0.0	0.2	0.2	0.0	5.3	11.0	0.6			
Unsig. Movement Delay			0.0	0.0	0.0	0.7	0.0	75.0	470.0	04.0			
LnGrp Delay(d),s/veh	87.4	8.6	0.0	0.0	0.6	0.7	0.0	75.6	470.2	81.8			
LnGrp LOS	F	<u>A</u>	A	A	A	A	A	E	F	F			
Approach Vol, veh/h		1451			2345			722					
Approach Delay, s/veh		32.5			0.6			403.5					
Approach LOS		С			A			F					
Timer - Assigned Phs	1	2			5	6	7	8					
Phs Duration (G+Y+Rc)		136.8			29.6	107.3	15.2	28.0					
Change Period (Y+Rc),		7.0			* 4.7	7.0	6.1	6.1					
Max Green Setting (Gm		97.0			* 36	75.0	22.9	21.9					
Max Q Clear Time (g_c+		12.6			24.6	2.0	3.4	23.9					
Green Ext Time (p_c), s	0.0	2.5			0.3	7.6	0.0	0.0					
Intersection Summary													
HCM 6th Ctrl Delay			75.3										
HCM 6th LOS			Е										

	4	*	t	1	4	ţ		
Movement	WBL	WBR	NBT	NBR	SBL	SBT		
Lane Configurations	5	11	<b>≜</b> †∌		ኘኘ	1		
Traffic Volume (veh/h)	420	2610	480	210	250	40		
Future Volume (veh/h)	420	2610	480	210	250	40		
Initial Q (Qb), veh	0	0	0	0	0	0		
Ped-Bike Adj(A_pbT)	1.00	1.00		0.97	1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		
Work Zone On Approac			No			No		
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870		
Adj Flow Rate, veh/h	462	2868	533	233	278	44		
Peak Hour Factor	0.91	0.91	0.90	0.90	0.90	0.90		
Percent Heavy Veh, %	2	2	2	2	2	2		
Cap, veh/h	387	861	1445	629	316	1351		
Arrive On Green	0.22	0.22	0.61	0.61	0.09	0.72		
Sat Flow, veh/h	1781	2790	2477	1038	3456	1870		
Grp Volume(v), veh/h	462	2868	397	369	278	44		
Grp Sat Flow(s), veh/h/li		1395	1777	1645	1728	1870		
Q Serve( $g_s$ ), s	39.1	39.1	20.4	20.5	14.3	1.2		
Cycle Q Clear(g_c), s	39.1	39.1	20.4	20.5	14.3	1.2		
Prop In Lane	1.00	1.00	20.4	0.63	1.00	1.2		
Lane Grp Cap(c), veh/h		861	1077	997	316	1351		
V/C Ratio(X)	1.19	3.33	0.37	0.37	0.88	0.03		
Avail Cap(c_a), veh/h	387	861	1077	997	1759	1351		
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.09	0.09		
Uniform Delay (d), s/vel		62.2	18.0	18.0	80.8	7.1		
• • •			10.0	10.0	00.0 0.3	0.0		
Incr Delay (d2), s/veh			0.0			0.0		
Initial Q Delay(d3),s/vel		0.0	0.0 8.4	0.0 7.9	0.0 6.3			
%ile BackOfQ(50%),veh			0.4	1.9	0.3	0.5		
Unsig. Movement Delay			10.0	10.0	01 1	74		
LnGrp Delay(d),s/veh			18.9	19.0	81.1	7.1		
LnGrp LOS	F	F	B	В	F	<u>A</u>		 _
Approach Vol, veh/h	3330		766			322		
Approach Delay, s/veh			19.0			71.0		
Approach LOS	F		В			E		
Timer - Assigned Phs	1	2				6	8	
Phs Duration (G+Y+Rc)		115.1				136.0	44.0	
Change Period (Y+Rc),		6.0				6.0	4.9	
Max Green Setting (Gm		34.0				130.0	39.1	
Max Q Clear Time (g_c						3.2	41.1	
Green Ext Time (p_c), s	s 0.2	1.2				0.1	0.0	
Intersection Summary								
HCM 6th Ctrl Delay			750.4					
HCM 6th LOS			F					

F

	٠	+	*	4	ł	•	1	t	1	4	ţ	4	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ኘኘ	ţ,		24	4			\$			ŧ	1	
Traffic Volume (veh/h)	100	280	30	20	150	60	120	50	110	250	0	1040	
Future Volume (veh/h)	100	280	30	20	150	60	120	50	110	250	0	1040	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.97	1.00		1.00	1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac	h	No			No			No			No		
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	149	418	45	22	169	67	226	94	208	269	0	1118	
Peak Hour Factor	0.67	0.67	0.67	0.89	0.89	0.89	0.53	0.53	0.53	0.93	0.93	0.93	
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2	
Cap, veh/h	1487	437	47	563	190	75	29	0	0	307	0	1209	
Arrive On Green	0.43	0.26	0.26	0.32	0.15	0.15	0.33	0.33	0.33	0.33	0.00	0.33	
Sat Flow, veh/h	3456	1653	178	1781	1263	501	0	0	0	799	0	1578	
Grp Volume(v), veh/h	149	0	463	22	0	236	528	0	0	269	0	1118	
Grp Sat Flow(s),veh/h/lr	n1728	0	1831	1781	0	1764	0	0	0	799	0	1578	
Q Serve(g_s), s	4.6	0.0	44.8	1.5	0.0	23.6	0.0	0.0	0.0	0.0	0.0	24.6	
Cycle Q Clear(g_c), s	4.6	0.0	44.8	1.5	0.0	23.6	60.1	0.0	0.0	60.1	0.0	24.6	
Prop In Lane	1.00		0.10	1.00		0.28	0.43		0.39	1.00		1.00	
Lane Grp Cap(c), veh/h	1487	0	484	563	0	265	29	0	0	307	0	1209	
V/C Ratio(X)	0.10	0.00	0.96	0.04	0.00	0.89	18.49	0.00	0.00	0.88	0.00	0.92	
Avail Cap(c_a), veh/h	1487	0	999	563	0	346	29	0	0	307	0	1209	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	0.00	1.00	0.56	0.00	0.56	1.00	0.00	0.00	0.89	0.00	0.89	
Uniform Delay (d), s/vel	h 30.5	0.0	65.2	42.6	0.0	75.0	90.0	0.0	0.0	60.2	0.0	17.0	
Incr Delay (d2), s/veh	0.0	0.0	31.5	0.0	0.0	10.5	7935.2	0.0	0.0	20.8	0.0	10.7	
Initial Q Delay(d3),s/veh	n 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh	n/In1.9	0.0	24.7	0.7	0.0	11.4	64.3	0.0	0.0	13.9	0.0	35.7	
Unsig. Movement Delay	/, s/veh												
LnGrp Delay(d),s/veh	30.6	0.0	96.7	42.6	0.0	85.58	8025.2	0.0	0.0	81.0	0.0	27.7	
LnGrp LOS	С	А	F	D	А	F	F	А	А	F	А	С	
Approach Vol, veh/h		612			258			528			1387		
Approach Delay, s/veh		80.6			81.9		8	3025.2			38.0		
Approach LOS		F			F			F			D		
Timer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Rc)	), 61.3	53.3		65.4	81.8	32.8		65.4					
Change Period (Y+Rc),		5.7		5.3	4.4	5.7		* 5.3					
Max Green Setting (Gm		98.2		59.7	69.6	35.3		* 60					
Max Q Clear Time (g_c		46.8		62.1	6.6	25.6		62.1					
Green Ext Time (p_c), s		0.7		0.0	0.1	0.3		0.0					
Intersection Summary													
HCM 6th Ctrl Delay		1	1565.7										
HCM 6th LOS			F										

### ノュートトイ

					053466	00000
Movement EE		EBT	WBT	WBR	SBL	SBR
		<b>††</b>		1	ኘቸ	1
Traffic Volume (veh/h) 16		530	2100	220	120	930
Future Volume (veh/h) 16		530	2100	220	120	930
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT) 1.0				0.98	1.00	1.00
Parking Bus, Adj 1.0		1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln 188	85 21	133	2133	1885	1870	1870
Adj Flow Rate, veh/h 17	'8 5	589	2258	237	125	969
Peak Hour Factor 0.9	0 0	0.90	0.93	0.93	0.96	0.96
Percent Heavy Veh, %	1	1	1	1	2	2
Cap, veh/h 18	87 27	745	2417	930	478	851
Arrive On Green 0.0		0.68	0.79	0.79	0.27	0.27
Sat Flow, veh/h 348		160	4160	1561	1781	3170
Grp Volume(v), veh/h 17		589	2258	237	125	969
Grp Sat Flow(s), veh/h/ln174		027	2027	1561	1781	1585
		9.9	80.1	7.1	9.9	48.3
			80.1		9.9	48.3
		9.9	00.1	7.1		
Prop In Lane 1.0		745	0447	1.00	1.00	1.00
Lane Grp Cap(c), veh/h 18		745	2417	930	478	851
V/C Ratio(X) 0.9		).21	0.93	0.25	0.26	1.14
Avail Cap(c_a), veh/h 18		745	2441	940	478	851
HCM Platoon Ratio 1.0		1.00	1.33	1.33	1.00	1.00
Upstream Filter(I) 0.9		0.98	0.09	0.09	1.00	1.00
Uniform Delay (d), s/veh 84		11.0	15.8	8.3	51.8	65.8
Incr Delay (d2), s/veh 50		0.2	0.9	0.1	0.3	76.7
Initial Q Delay(d3),s/veh 0		0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/Ir5		4.4	24.8	2.2	4.6	45.9
Unsig. Movement Delay, s/						
LnGrp Delay(d),s/veh 135		11.1	16.7	8.3	52.1	142.6
LnGrp LOS	F	В	В	Α	D	F
Approach Vol, veh/h	7	767	2495		1094	
Approach Delay, s/veh	3	39.9	15.9		132.3	
Approach LOS		D	В		F	
		0		4	F	6
Timer - Assigned Phs	40	2			5	6
Phs Duration (G+Y+Rc), s		26.8		53.2		112.2
Change Period (Y+Rc), s		4.9		4.9	4.9	* 4.9
Max Green Setting (Gmax)				48.3		1.1E2
Max Q Clear Time (g_c+I1)		11.9		50.3	11.2	82.1
Green Ext Time (p_c), s		8.8		0.0	0.0	25.2
Intersection Summary						
HCM 6th Ctrl Delay			49.4			
HCM 6th LOS			49.4 D			
Nataa						

### Notes

User approved volume balancing among the lanes for turning movement. * HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

### ノューヘンイ

	363555			142		00000
Movement EBL	EBT		WBT	WBR	SBL	SBR
Lane Configurations	1	tions 🍡 🎙	- 11	1	M	1
Traffic Volume (veh/h) 80	650		740	640	1960	510
Future Volume (veh/h) 80	650	· /	740	640	1960	510
Initial Q (Qb), veh 0	0	eh C	0	0	0	0
Ped-Bike Adj(A_pbT) 1.00				0.97	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 1885	2133	eh/h/ln 1885	2133	1885	1870	1870
Adj Flow Rate, veh/h 86	699		937	810	2513	654
Peak Hour Factor 0.93	0.93		0.79	0.79	0.78	0.78
Percent Heavy Veh, % 1	1		1	1	2	2
Cap, veh/h 619	1400		1133	434	1064	1493
Arrive On Green 0.34	0.66		0.28	0.28	0.60	0.60
Sat Flow, veh/h 1795	2133		4160	1553	1781	1585
Grp Volume(v), veh/h 86	699		937	810	2513	654
Grp Sat Flow(s), veh/h/ln1795	2133		2027	1553	1781	1585
Q Serve(g_s), s 5.9	30.2		39.0	50.3		0.0
				50.3		0.0
Cycle Q Clear(g_c), s 5.9	30.2	<u> </u>	39.0	1.00	107.5 1.00	0.0 1.00
Prop In Lane 1.00	1400		4400			
Lane Grp Cap(c), veh/h 619	1400		1133	434	1064	1493
V/C Ratio(X) 0.14	0.50		0.83	1.87	2.36	0.44
Avail Cap(c_a), veh/h 619	1400		1133	434	1064	1493
HCM Platoon Ratio 1.00	1.00		1.00	1.00	1.00	1.00
Upstream Filter(I) 1.00	1.00	<b>\</b> /	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh 40.6	15.8		60.8	64.8	36.2	0.5
Incr Delay (d2), s/veh 0.0	1.3		7.0	398.7	615.9	0.2
Initial Q Delay(d3),s/veh 0.0	0.0		0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/In2.6	14.7		20.9	67.6	226.4	32.8
Unsig. Movement Delay, s/vel						
LnGrp Delay(d),s/veh 40.6	17.1			463.5	652.2	0.7
LnGrp LOS D	В	<u> </u>	E	F	F	Α
Approach Vol, veh/h	785	reh/h	1747		3167	
Approach Delay, s/veh			251.3		517.6	
Approach LOS	В		F		F	
••						•
Timer - Assigned Phs	2			4	5	6
Phs Duration (G+Y+Rc), s	125.5			114.0	69.5	56.0
Change Period (Y+Rc), s	5.7	<b>v</b> 7.		6.5	5.7	* 5.7
Max Green Setting (Gmax), s	60.3			107.5	6.0	* 50
Max Q Clear Time (g_c+I1), s				109.5	7.9	52.3
Green Ext Time (p_c), s	9.5	(p_c), s		0.0	0.0	0.0
Intersection Summary		nmarv				
			267 4			
HCM 6th Ctrl Delay		eidy	367.4			
HCM 6th LOS			F			

#### Notes

User approved volume balancing among the lanes for turning movement.

User approved ignoring U-Turning movement.

	۶	+	¥	4	+	•	1	t	1	4	ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	۲	1	1	1	ţ,		۲	1	1	٦	Þ		
Traffic Volume (veh/h)	150	340	240	40	430	30	100	170	70	50	340	360	
Future Volume (veh/h)	150	340	240	40	430	30	100	170	70	50	340	360	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A pbT)	1.00		0.98	1.00		0.96	1.00		0.97	1.00		0.99	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approa		No			No			No			No		
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	174	395	279	43	457	32	109	185	76	69	472	500	
Peak Hour Factor	0.86	0.86	0.86	0.94	0.94	0.94	0.92	0.92	0.92	0.72	0.72	0.72	
Percent Heavy Veh, %		2	2	2	2	2	2	2	2	2	2	2	
Cap, veh/h	192	414	344	209	406	28	354	237	194	745	286	303	
Arrive On Green	0.11	0.22	0.22	0.12	0.24	0.24	0.20	0.13	0.13	0.70	0.58	0.58	
Sat Flow, veh/h	1781	1870	1553	1781	1722	121	1781	1870	1535	1781	826	875	
Grp Volume(v), veh/h	174	395	279	43	0	489	109	185	76	69	0	972	
Grp Sat Flow(s), veh/h/l		1870	1553	1781	0	1842	1781	1870	1535	1781	0	1701	
Q Serve(g_s), s	17.4	37.5	30.7	3.9	0.0	42.4	9.4	17.3	8.2	2.2	0.0	62.3	
Cycle Q Clear(g_c), s	17.4	37.5	30.7	3.9	0.0	42.4	9.4	17.3	8.2	2.2	0.0	62.3	
Prop In Lane	1.00	01.0	1.00	1.00	0.0	0.07	1.00	17.5	1.00	1.00	0.0	0.51	
Lane Grp Cap(c), veh/ł		414	344	209	0	434	354	237	194	745	0	589	
V/C Ratio(X)	0.90	0.95	0.81	0.21	0.00	1.13	0.31	0.78	0.39	0.09	0.00	1.65	
Avail Cap(c_a), veh/h	293	631	524	209	0.00	434	354	772	634	745	0.00	589	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.67	1.67	1.67	
Upstream Filter(I)	1.00	1.00	1.00	0.55	0.00	0.55	0.55	0.55	0.55	0.74	0.00	0.74	
Uniform Delay (d), s/ve		69.2	66.5	71.9	0.00	68.8	61.6	76.2	72.2	16.1	0.00	38.0	
Incr Delay (d2), s/veh	16.3	15.9	3.0	0.1	0.0	73.0	01.0	13.2	3.2	0.0	0.0	298.7	
Initial Q Delay(d3), s/ven		0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),ve		19.9	12.5	1.8	0.0	28.8	4.2	9.1	3.4	0.0	0.0	69.5	
Unsig. Movement Dela			12.0	1.0	0.0	20.0	4.2	9.1	5.4	0.9	0.0	09.5	
LnGrp Delay(d),s/veh	y, s/ven 95.7	85.0	69.5	72.0	0.0	141.8	61.7	89.4	75.5	16.1	0.0	336.6	
LnGrp LOS	95.7 F	65.0 F	69.5 E	72.0 E	0.0 A	141.0 F	61.7 E	09.4 F	75.5 E	10.1 B	0.0 A	330.0 F	
Approach Vol, veh/h	Г	<u>г</u> 848	E	E	532	Г	E	л 370	E	D	1041	Г	
		82.1			532 136.1			78.3			315.4		
Approach Delay, s/veh		82.1 F			130.1 F			78.3 E			315.4 F		
Approach LOS		Г			Г			E			Г		
Timer - Assigned Phs	1	2	3	4	5	6	7	8					
Phs Duration (G+Y+Ro	:), <b>द्व</b> 9.7	28.5	26.7	45.2	40.2	68.0	23.8	48.0					_
Change Period (Y+Rc)		5.7	5.6	* 5.3	4.4	5.7	4.4	5.6					
Max Green Setting (Gr		74.3	11.6	* 61	25.6	62.3	29.6	42.4					
Max Q Clear Time (g_c		19.3	5.9	39.5	11.4	64.3	19.4	44.4					
Green Ext Time (p_c),	<i>, , , ,</i>	0.3	0.0	0.3	0.0	0.0	0.1	0.0					
Intersection Summary													
HCM 6th Ctrl Delay			178.9										
HCM 6th LOS			F										
			1										
Notes													

	٠	-	~	1	+	*	1	t	1	4	Ţ	4	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	A	<b>†</b> †	1	A	<b>≜</b> †₽		٦	<b>†</b>	1		र्स	1	
Traffic Volume (veh/h)	40	350	30	400	390	150	10	10	120	0	320	90	
Future Volume (veh/h)	40	350	30	400	390	150	10	10	120	0	320	90	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
	1.00		0.97	1.00		0.97	1.00		0.99	1.00		0.99	
<u>, , , , , , , , , , , , , , , , , , , </u>	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach		No			No			No			No		
	1575	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	47	407	35	533	520	200	18	18	211	0	471	132	
	0.86	0.86	0.86	0.75	0.75	0.75	0.57	0.57	0.57	0.68	0.68	0.68	
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2	
Cap, veh/h	57	513	532	553	1035	396	350	367	308	0	448	376	
	0.04	0.14	0.14	0.10	0.14	0.14	0.20	0.20	0.20	0.00	0.24	0.24	
Sat Flow, veh/h	1500	3554	1530	1781	2486	951	1781	1870	1566	0	1870	1569	
Grp Volume(v), veh/h	47	407	35	533	371	349	18	18	211	0	471	132	
Grp Sat Flow(s), veh/h/ln		1777	1530	1781	1777	1660	1781	1870	1566	0	1870	1569	
Q Serve(g_s), s	5.6	19.9	2.8	53.6	34.8	35.1	1.5	1.4	22.5	0.0	43.1	12.6	
Cycle Q Clear(g_c), s	5.6	19.9	2.8	53.6	34.8	35.1	1.5	1.4	22.5	0.0	43.1	12.6	
,	1.00		1.00	1.00	••	0.57	1.00		1.00	0.00		1.00	
Lane Grp Cap(c), veh/h	57	513	532	553	740	691	350	367	308	0	448	376	
	0.82	0.79	0.07	0.96	0.50	0.51	0.05	0.05	0.69	0.00	1.05	0.35	
Avail Cap(c_a), veh/h	99	614	576	570	759	709	350	367	308	0	448	376	
	1.00	1.00	1.00	0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00	
	0.09	0.09	0.09	0.99	0.99	0.99	0.65	0.65	0.65	0.00	1.00	1.00	
Uniform Delay (d), s/veh		74.4	40.0	79.8	60.3	60.4	58.7	58.7	67.2	0.0	68.4	56.8	
Incr Delay (d2), s/veh	1.0	0.7	0.0	27.9	0.9	1.0	0.2	0.2	7.9	0.0	56.8	0.2	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/		9.1	1.4	30.2	16.9	16.0	0.7	0.7	9.7	0.0	27.7	5.0	
Unsig. Movement Delay,										5.5			
	87.0	75.1	40.0	107.7	61.2	61.4	58.9	58.8	75.0	0.0	125.2	57.0	
LnGrp LOS	F	E	D	F	E	E	E	E	E	A	F	E	
Approach Vol, veh/h		489			1253			247	-		603		
Approach Delay, s/veh		73.8			81.0			72.7			110.3		
Approach LOS		E			F			E			F		
Timer - Assigned Phs		2	3	4		6	7	8					
Phs Duration (G+Y+Rc),	S	40.3	60.3	31.5		48.0	11.3	80.5					
Change Period (Y+Rc), s		4.9	4.4	5.5		4.9	4.4	* 5.5					
Max Green Setting (Gma		28.5	57.6	31.1		43.1	11.9	* 77					
Max Q Clear Time (g_c+		24.5	55.6	21.9		45.1	7.6	37.1					
Green Ext Time (p_c), s	,, 3	0.6	0.2	2.6		0.0	0.0	8.7					
Intersection Summary		0.0	0.2	2.0		0.0	0.0	0.1					
HCM 6th Ctrl Delay			85.7										
HCM 6th LOS			85.7 F										
			Г										
Notes													

	٠	-+	~	1	+	*	•	t	-	4	Ţ	1	
Movement	EBL	EBT	EBR	▼ WBL	WBT	WBR	NBL	NBT	NBR	SBL	• SBT	SBR	
Lane Configurations				<u></u>	100 I	VUDIN		۱۵۱ ۴		JDL	4	JUIN	
Traffic Volume (veh/h)	70	440	60	1230	410	0	10	<b>শ</b> 10	160	0	10	0	
Future Volume (veh/h)	70	440	60	1230	410	0	10	10	160	0	10	0	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	U	0.98	1.00	U	1.00	1.00	U	0.95	1.00	U	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No	1.00	1.00	No	1.00	1.00	No	1.00	1.00	No	1.00	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	81	512	70	1577	526	0	11	1070	184	0	40	0	
Peak Hour Factor	0.86	0.86	0.86	0.78	0.78	0.78	0.87	0.87	0.87	0.25	0.25	0.25	
Percent Heavy Veh, %	2	0.00	0.00	2	2	2	0.07	2	0.07	0.25	0.25	0.25	
Cap, veh/h	99	862	377	798	2255	0	240	252	203	0	125	0	
Arrive On Green	0.02	0.08	0.08	0.45	0.63	0.00	0.13	0.13	0.13	0.00	0.07	0.00	
Sat Flow, veh/h	1781	3554	1554	1781	3647	0.00	1781	1870	1508	0.00	1870	0.00	
						-				-			
Grp Volume(v), veh/h	81	512	70	1577	526	0	11	1070	184	0	40	0	
Grp Sat Flow(s),veh/h/li		1777	1554	1781	1777	0	1781	1870	1508	0	1870	0	
Q Serve(g_s), s	8.2	25.0	7.6	80.6	11.4	0.0	1.0	0.9	21.7	0.0	3.7	0.0	
Cycle Q Clear(g_c), s	8.2	25.0	7.6	80.6	11.4	0.0	1.0	0.9	21.7	0.0	3.7	0.0	
Prop In Lane	1.00	000	1.00	1.00	0055	0.00	1.00	050	1.00	0.00	105	0.00	
Lane Grp Cap(c), veh/h		862	377	798	2255	0	240	252	203	0	125	0	
V/C Ratio(X)	0.82	0.59	0.19	1.98	0.23	0.00	0.05	0.04	0.91	0.00	0.32	0.00	
Avail Cap(c_a), veh/h	185	862	377	798	2255	0	247	260	209	0	270	0	
HCM Platoon Ratio	0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	0.69	0.69	0.69	1.00	1.00	0.00	1.00	1.00	1.00	0.00	1.00	0.00	
Uniform Delay (d), s/vel		74.2	66.2	49.7	14.1	0.0	67.8	67.8	76.8	0.0	80.1	0.0	
Incr Delay (d2), s/veh	4.2	2.1	0.8	444.2	0.2	0.0	0.3	0.2	40.8	0.0	0.5	0.0	
Initial Q Delay(d3),s/vel		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh		12.3	3.2	133.5	4.7	0.0	0.5	0.5	10.7	0.0	1.8	0.0	
Unsig. Movement Delay			0= f	100.0			<b>0C</b> 1	00.0	11- 0			• •	
LnGrp Delay(d),s/veh	91.7	76.3		493.9	14.3	0.0	68.1	68.0	117.6	0.0	80.6	0.0	
LnGrp LOS	F	E	E	F	В	A	E	E	F	A	F	A	
Approach Vol, veh/h		663			2103			206			40		
Approach Delay, s/veh		77.2			374.0			112.3			80.6		
Approach LOS		E			F			F			F		
Timer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Rc)		49.0		16.9	14.4	119.5		29.1					
Change Period (Y+Rc),		* 5.3		4.9	4.4	5.3		4.9					
Max Green Setting (Gm		* 29		26.0	18.7	90.8		25.0					
Max Q Clear Time (g_c		27.0		5.7	10.2	13.4		23.7					
Green Ext Time (p_c), s	s 0.0	1.1		0.1	0.0	7.1		0.2					
Intersection Summary													
HCM 6th Ctrl Delay			286.9										
HCM 6th LOS			F										
NI (													

#### Notes

User approved volume balancing among the lanes for turning movement.

User approved ignoring U-Turning movement.

## メッチメント

		No. of Co.		200	000000	101.016
Movement EE		EBT	WBT	WBR	SBL	SBR
	٦	<b>††</b>	<b>†</b> Ъ		٦	1
	50	350	1260	120	100	360
	50	350	1260	120	100	360
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT) 1.0				0.97	1.00	1.00
Parking Bus, Adj 1.0	00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln 188		1885	1885	1885	1870	1870
	63	443	1416	135	200	720
Peak Hour Factor 0.7	79	0.79	0.89	0.89	0.50	0.50
Percent Heavy Veh, %	1	1	1	1	2	2
Cap, veh/h 44	42	2509	1409	133	436	388
Arrive On Green 0.2	25	0.70	0.85	0.85	0.25	0.25
Sat Flow, veh/h 179	95	3676	3392	312	1781	1585
Grp Volume(v), veh/h	63	443	765	786	200	720
Grp Sat Flow(s),veh/h/ln179		1791	1791	1819	1781	1585
•	.9	7.6	76.4	76.9	17.2	44.1
	.9	7.6	76.4	76.9	17.2	44.1
Prop In Lane 1.0				0.17	1.00	1.00
Lane Grp Cap(c), veh/h 44		2509	765	778	436	388
V/C Ratio(X) 0.		0.18	1.00	1.01	0.46	1.85
		2509	1105	1123	436	388
HCM Platoon Ratio 1.0		1.00	2.00	2.00	1.00	1.00
Upstream Filter(I) 0.9		0.94	0.20	0.20	1.00	1.00
Uniform Delay (d), s/veh 53		9.2	13.0	13.1	57.8	67.9
	.1	0.1	14.3	17.3		394.1
<b>2</b> ( <i>)</i> ?	.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/lr2		2.9	8.5	9.3	7.8	76.6
Unsig. Movement Delay, s/		2.0	0.0	0.0	1.0	10.0
LnGrp Delay(d),s/veh 53		9.4	27.3	30.4	58.1	462.1
	D	A.	C	F	E	F
Approach Vol, veh/h	5	506	1551		920	
Approach Delay, s/veh		14.8	28.9		374.3	
Approach LOS		14.0 B	20.9 C		574.5 F	
••			U		- T	
Timer - Assigned Phs		2		4	5	6
Phs Duration (G+Y+Rc), s		131.0		49.0	44.4	86.6
Change Period (Y+Rc), s		4.9		4.9	4.9	* 4.9
Max Green Setting (Gmax)	, S ´	126.1		44.1	10.6*	1.1E2
Max Q Clear Time (g_c+I1)	, S	9.6		46.1	6.9	78.9
Green Ext Time (p_c), s		1.8		0.0	0.0	7.6
Internection Cummers						
Intersection Summary			400.0			
HCM 6th Ctrl Delay			133.2			
HCM 6th LOS			F			

#### Notes

Movement         EBL         EBR         NBL         NBT         SBT         SBF           Lane Configurations         Image: Configurations
Traffic Volume (veh/h)310803301102201400Future Volume (veh/h)310803301102201400Initial Q (Qb), veh000000Ped-Bike Adj(A_pbT)1.001.001.001.001.00Parking Bus, Adj1.001.001.001.001.00Parking Bus, Adj1.001.001.001.001.00Work Zone On Approach NoNoNoNoAdj Sat Flow, veh/h/In1870187018701870Adj Flow Rate, veh/h33787388129242Peak Hour Factor0.920.920.850.850.91Percent Heavy Veh, %22222Cap, veh/h2782474001687142Arrive On Green0.160.160.220.900.650.65Sat Flow, veh/h178115851781187001612Q Serve(g_s), s28.18.838.91.30.0117.0Cycle Q Clear(g_c), s28.18.838.91.30.0117.0Prop In Lane1.001.001.000.86Lane Grp Cap(c), veh/h27824740016870V/C Ratio(X)1.210.350.970.080.001.70Avail Cap(c_a), veh/h27824740016870HCM Platoon Ratio1.001.001.00<
Traffic Volume (veh/h)       310       80       330       110       220       1400         Future Volume (veh/h)       310       80       330       110       220       1400         Initial Q (Qb), veh       0       0       0       0       0       0       0         Ped-Bike Adj(A_pbT)       1.00       1.00       1.00       1.00       1.00       1.00       1.00         Parking Bus, Adj       1.00       1.00       1.00       1.00       1.00       1.00       1.00         Work Zone On Approach No       No       No       No       No       No       Adj Sat Flow, veh/h/In       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870
Future Volume (veh/h)       310       80       330       110       220       1400         Initial Q (Qb), veh       0       0       0       0       0       0       0       0       0         Ped-Bike Adj(A_pbT)       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00         Parking Bus, Adj       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00         Work Zone On Approach No       No       No       No       No       No       No         Adj Sat Flow, veh/h/In       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870       1870
Initial Q (Qb), veh         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0
Ped-Bike Adj(A_pbT)         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00 </td
Parking Bus, Adj1.001.001.001.001.001.001.00Work Zone On Approach NoNoNoNoNoAdj Sat Flow, veh/h/ln18701870187018701870Adj Flow Rate, veh/h337873881292421538Peak Hour Factor0.920.920.850.850.910.91Percent Heavy Veh, %222222Cap, veh/h2782474001687142905Arrive On Green0.160.160.220.900.650.65Sat Flow, veh/h17811585178118702191393Grp Volume(v), veh/h3378738812901780Grp Sat Flow(s),veh/h/ln178115851781187001612Q Serve(g_s), s28.18.838.91.30.0117.0Cycle Q Clear(g_c), s28.18.838.91.30.0117.0Prop In Lane1.001.001.000.860.001.70Avail Cap(c_a), veh/h278247400168701048V/C Ratio(X)1.210.350.970.080.001.70Avail Cap(c_a), veh/h278247400168701048HCM Platoon Ratio1.001.001.001.001.001.00
Work Zone On Approach NoNoAdj Sat Flow, veh/h/ln18701870187018701870Adj Flow Rate, veh/h337873881292421538Peak Hour Factor0.920.920.850.850.910.91Percent Heavy Veh, %222222Cap, veh/h2782474001687142905Arrive On Green0.160.160.220.900.650.65Sat Flow, veh/h17811585178118702191393Grp Volume(v), veh/h3378738812901780Grp Sat Flow(s),veh/h/ln178115851781187001612Q Serve(g_s), s28.18.838.91.30.0117.0Cycle Q Clear(g_c), s28.18.838.91.30.0117.0Prop In Lane1.001.001.000.860.001.70Avail Cap(c_a), veh/h278247400168701048HCM Platoon Ratio1.001.001.001.001.001.00
Adj Sat Flow, veh/h/ln1870187018701870187018701870Adj Flow Rate, veh/h337873881292421538Peak Hour Factor0.920.920.850.850.910.91Percent Heavy Veh, %222222Cap, veh/h2782474001687142905Arrive On Green0.160.160.220.900.650.65Sat Flow, veh/h17811585178118702191393Grp Volume(v), veh/h3378738812901780Grp Sat Flow(s), veh/h/ln178115851781187001612Q Serve(g_s), s28.18.838.91.30.0117.0Cycle Q Clear(g_c), s28.18.838.91.30.0117.0Prop In Lane1.001.001.000.861.0416870V/C Ratio(X)1.210.350.970.080.001.70Avail Cap(c_a), veh/h278247400168701048HCM Platoon Ratio1.001.001.001.001.001.00
Adj Flow Rate, veh/h       337       87       388       129       242       1538         Peak Hour Factor       0.92       0.92       0.85       0.85       0.91       0.91         Percent Heavy Veh, %       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2
Peak Hour Factor         0.92         0.92         0.85         0.85         0.91         0.91           Percent Heavy Veh, %         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2
Percent Heavy Veh, %         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2
Cap, veh/h         278         247         400         1687         142         905           Arrive On Green         0.16         0.16         0.22         0.90         0.65         0.65           Sat Flow, veh/h         1781         1585         1781         1870         219         1393           Grp Volume(v), veh/h         337         87         388         129         0         1780           Grp Sat Flow(s),veh/h/In1781         1585         1781         1870         0         1612           Q Serve(g_s), s         28.1         8.8         38.9         1.3         0.0         117.0           Cycle Q Clear(g_c), s         28.1         8.8         38.9         1.3         0.0         117.0           Prop In Lane         1.00         1.00         1.00         0.86         1.44         0.46           Lane Grp Cap(c), veh/h         278         247         400         1687         0         1048           V/C Ratio(X)         1.21         0.35         0.97         0.08         0.00         1.70           Avail Cap(c_a), veh/h         278         247         400         1687         0         1048           HCM Platoon Ratio
Arrive On Green         0.16         0.16         0.22         0.90         0.65         0.65           Sat Flow, veh/h         1781         1585         1781         1870         219         1393           Grp Volume(v), veh/h         337         87         388         129         0         1780           Grp Sat Flow(s), veh/h/ln1781         1585         1781         1870         0         1612           Q Serve(g_s), s         28.1         8.8         38.9         1.3         0.0         117.0           Cycle Q Clear(g_c), s         28.1         8.8         38.9         1.3         0.0         117.0           Prop In Lane         1.00         1.00         1.00         0.08         0.00         1.70           V/C Ratio(X)         1.21         0.35         0.97         0.08         0.00         1.70           Avail Cap(c_a), veh/h         278         247         400         1687         0         1048           HCM Platoon Ratio         1.00         1.00         1.00         1.00         1.00         1.00
Sat Flow, veh/h         1781         1585         1781         1870         219         1393           Grp Volume(v), veh/h         337         87         388         129         0         1780           Grp Sat Flow(s),veh/h/ln1781         1585         1781         1870         0         1612           Q Serve(g_s), s         28.1         8.8         38.9         1.3         0.0         117.0           Cycle Q Clear(g_c), s         28.1         8.8         38.9         1.3         0.0         117.0           Prop In Lane         1.00         1.00         1.00         0.86         1.00         1.00         0.86           Lane Grp Cap(c), veh/h         278         247         400         1687         0         1048           V/C Ratio(X)         1.21         0.35         0.97         0.08         0.00         1.70           Avail Cap(c_a), veh/h         278         247         400         1687         0         1048           HCM Platoon Ratio         1.00         1.00         1.00         1.00         1.00         1.00
Grp Volume(v), veh/h         337         87         388         129         0         1780           Grp Sat Flow(s),veh/h/ln1781         1585         1781         1870         0         1612           Q Serve(g_s), s         28.1         8.8         38.9         1.3         0.0         117.0           Cycle Q Clear(g_c), s         28.1         8.8         38.9         1.3         0.0         117.0           Prop In Lane         1.00         1.00         1.00         0.86           Lane Grp Cap(c), veh/h         278         247         400         1687         0         1048           V/C Ratio(X)         1.21         0.35         0.97         0.08         0.00         1.70           Avail Cap(c_a), veh/h         278         247         400         1687         0         1048           HCM Platoon Ratio         1.00         1.00         1.00         1.00         1.00         1.00
Grp Sat Flow(s),veh/h/ln1781         1585         1781         1870         0         1612           Q Serve(g_s), s         28.1         8.8         38.9         1.3         0.0         117.0           Cycle Q Clear(g_c), s         28.1         8.8         38.9         1.3         0.0         117.0           Prop In Lane         1.00         1.00         1.00         0.08         0.00         1.70           Lane Grp Cap(c), veh/h         278         247         400         1687         0         1048           V/C Ratio(X)         1.21         0.35         0.97         0.08         0.00         1.70           Avail Cap(c_a), veh/h         278         247         400         1687         0         1048           HCM Platoon Ratio         1.00         1.00         1.00         1.00         1.00         1.00
Q Serve(g_s), s         28.1         8.8         38.9         1.3         0.0         117.0           Cycle Q Clear(g_c), s         28.1         8.8         38.9         1.3         0.0         117.0           Prop In Lane         1.00         1.00         1.00         0.0         117.0           Lane Grp Cap(c), veh/h         278         247         400         1687         0         1048           V/C Ratio(X)         1.21         0.35         0.97         0.08         0.00         1.70           Avail Cap(c_a), veh/h         278         247         400         1687         0         1048           HCM Platoon Ratio         1.00         1.00         1.00         1.00         1.00         1.00
Cycle Q Clear(g_c), s         28.1         8.8         38.9         1.3         0.0         117.0           Prop In Lane         1.00         1.00         1.00         0.86           Lane Grp Cap(c), veh/h         278         247         400         1687         0         1048           V/C Ratio(X)         1.21         0.35         0.97         0.08         0.00         1.70           Avail Cap(c_a), veh/h         278         247         400         1687         0         1048           HCM Platoon Ratio         1.00         1.00         1.00         1.00         1.00         1.00
Cycle Q Clear(g_c), s         28.1         8.8         38.9         1.3         0.0         117.0           Prop In Lane         1.00         1.00         1.00         0.86           Lane Grp Cap(c), veh/h         278         247         400         1687         0         1048           V/C Ratio(X)         1.21         0.35         0.97         0.08         0.00         1.70           Avail Cap(c_a), veh/h         278         247         400         1687         0         1048           HCM Platoon Ratio         1.00         1.00         1.00         1.00         1.00         1.00
Prop In Lane         1.00         1.00         1.00         1.00         0.86           Lane Grp Cap(c), veh/h         278         247         400         1687         0         1048           V/C Ratio(X)         1.21         0.35         0.97         0.08         0.00         1.70           Avail Cap(c_a), veh/h         278         247         400         1687         0         1048           HCM Platoon Ratio         1.00         1.00         1.00         1.00         1.00         1.00
Lane Grp Cap(c), veh/h         278         247         400         1687         0         1048           V/C Ratio(X)         1.21         0.35         0.97         0.08         0.00         1.70           Avail Cap(c_a), veh/h         278         247         400         1687         0         1048           HCM Platoon Ratio         1.00         1.00         1.00         1.00         1.00         1.00
V/C Ratio(X)         1.21         0.35         0.97         0.08         0.00         1.70           Avail Cap(c_a), veh/h         278         247         400         1687         0         1048           HCM Platoon Ratio         1.00         1.00         1.00         1.00         1.00         1.00
Avail Cap(c_a), veh/h         278         247         400         1687         0         1048           HCM Platoon Ratio         1.00         1.00         1.00         1.00         1.00         1.00
HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00
0.94 0.94 1.00 1.00 0.00 1.00
Uniform Delay (d), s/veh 76.0 67.8 69.2 0.9 0.0 31.5
Incr Delay (d2), s/veh 122.4 1.1 37.0 0.1 0.0 318.6
Initial Q Delay(d3),s/veh 0.0 0.0 0.0 0.0 0.0 0.0
%ile BackOfQ(50%),veh/22.2 8.1 21.9 0.3 0.0 136.4
Unsig. Movement Delay, s/veh
LnGrp Delay(d),s/veh 198.4 68.9 106.2 1.0 0.0 350.1
LnGrp LOS F E F A A F
Approach Vol, veh/h 424 517 1780
Approach Delay, s/veh 171.8 80.0 350.1
Approach LOS F E F
Timer - Assigned Phs 2 4 5 6
Phs Duration (G+Y+Rc), s 168.0 33.0 46.0 122.0
Change Period (Y+Rc), s 5.0 4.9 5.0 * 5
Max Green Setting (Gmax), s 142.0 28.1 20.6* 1.2E2
Max Q Clear Time (g_c+I1), s 3.3 30.1 40.9 119.0
Green Ext Time (p_c), s 1.1 0.0 0.0 0.0
Intersection Summary
HCM 6th Ctrl Delay 271.0
HCM 6th LOS F
Notes

## ノッチャッシイ

	·	2012			00,226	000000
Movement E	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	2	<b>^</b>	<b>≜</b> ↑₽		Y	
Traffic Volume (veh/h)	150	450	1210	380	670	1410
	150	450	1210	380	670	1410
Initial Q (Qb), veh	0	0	0	0	0	0
	1.00	v	Ū	0.97	1.00	1.00
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	1.00	No	No	1.00	No	1.00
	885	2133	2133	1885	1870	1870
	170	511	1476	463	905	1905
	.88	0.88	0.82	0.82	0.74	0.74
Percent Heavy Veh, %	1	1	1	1	2	2
Cap, veh/h	524	2488	890	263	303	638
Arrive On Green 0	).58	1.00	0.58	0.58	0.57	0.57
Sat Flow, veh/h 17	795	4160	3170	905	529	1114
	170	511	945	994	2811	0
Grp Sat Flow(s), veh/h/ln17		2027	2027	1941	1643	0
1 (7)			52.3	52.3	1043	0.0
	8.8	0.0				
<b>y</b> ( <b>u</b> = ),	8.8	0.0	52.3	52.3	103.1	0.0
	1.00			0.47	0.32	0.68
	524	2488	589	564	941	0
V/C Ratio(X) 0	).32	0.21	1.61	1.76	2.99	0.00
Avail Cap(c_a), veh/h	524	2488	589	564	941	0
	2.00	2.00	2.00	2.00	1.00	1.00
	).89	0.89	0.54	0.54	1.00	0.00
Uniform Delay (d), s/veh 2		0.0	37.7	37.7	38.5	0.0
	0.1		276.7	346.6	896.7	0.0
	0.0	0.2	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/Ir		0.1	64.7	72.9	275.1	0.0
Unsig. Movement Delay, s						
	28.5		314.4	384.3	935.1	0.0
LnGrp LOS	С	Α	F	F	F	Α
Approach Vol, veh/h		681	1939		2811	
Approach Delay, s/veh			350.3		935.1	
Approach LOS		A	F		F	
Timer - Assigned Phs		2		4	5	6
Phs Duration (G+Y+Rc), s	S	117.5		108.0	59.5	58.0
Change Period (Y+Rc), s		5.7		4.9	5.7	* 5.7
Max Green Setting (Gmax	x), s	66.3		103.1	9.6	* 52
Max Q Clear Time (g_c+l1		2.0		105.1	10.8	54.3
Green Ext Time (p_c), s	.,, 0	4.9		0.0	0.0	0.0
··· - /-		4.3		0.0	0.0	0.0
Intersection Summary						
HCM 6th Ctrl Delay			610.0			
HCM 6th LOS			F			
			'			
Notes						

User approved volume balancing among the lanes for turning movement. * HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.
## メーットナー くく イントナイ

	963	· •	· •			1	2008	1	2026	• <b>•</b>	2016
Movement EB	L EB	T EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations			7		11	5	***	1	24	<b>†</b> ††	
Traffic Volume (veh/h)	0	0 0	60	0	380	10	2260	160	260	1380	0
Future Volume (veh/h)	0	0 0	60	0	380	10	2260	160	260	1380	0
Initial Q (Qb), veh			0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)			1.00		1.00	1.00		0.97	1.00		1.00
Parking Bus, Adj			1.00	1.00	1.00	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	0	1870	1870	1856	1856	1856	1856	0
Adj Flow Rate, veh/h			68	0	432	11	2430	172	283	1500	0
Peak Hour Factor			0.88	0.88	0.88	0.93	0.93	0.93	0.92	0.92	0.92
Percent Heavy Veh, %			2	0	2	2	3	3	3	3	0
Cap, veh/h			300	0	471	17	2733	823	346	3750	0
Arrive On Green			0.17	0.00	0.17	0.01	0.54	0.54	0.39	1.00	0.00
Sat Flow, veh/h			1781	0	2790	1781	5066	1526	1767	5233	0
Grp Volume(v), veh/h			68	0	432	11	2430	172	283	1500	0
Grp Sat Flow(s),veh/h/ln			1781	0	1395	1781	1689	1526	1767	1689	0
Q Serve(g_s), s			5.9	0.0	27.4	1.1	76.4	10.5	25.8	0.0	0.0
Cycle Q Clear(g_c), s			5.9	0.0	27.4	1.1	76.4	10.5	25.8	0.0	0.0
Prop In Lane			1.00		1.00	1.00		1.00	1.00		0.00
Lane Grp Cap(c), veh/h			300	0	471	17	2733	823	346	3750	0
V/C Ratio(X)			0.23	0.00	0.92	0.66	0.89	0.21	0.82	0.40	0.00
Avail Cap(c_a), veh/h			323	0	505	55	2786	839	346	3750	0
HCM Platoon Ratio			1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	1.00
Upstream Filter(I)			1.00	0.00	1.00	0.09	0.09	0.09	1.00	1.00	0.00
Uniform Delay (d), s/veh			64.7	0.0	73.6	88.9	36.7	21.5	51.9	0.0	0.0
Incr Delay (d2), s/veh			0.6	0.0	21.7	1.5	0.5	0.1	13.4	0.3	0.0
Initial Q Delay(d3),s/veh			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/In			2.7	0.0	11.1	0.5	30.0	3.7	10.8	0.1	0.0
Unsig. Movement Delay, s/v	eh										
LnGrp Delay(d),s/veh			65.2	0.0	95.3	90.3	37.1	21.6	65.4	0.3	0.0
LnGrp LOS			E	Α	F	F	D	С	E	Α	Α
Approach Vol, veh/h				500			2613			1783	
Approach Delay, s/veh				91.2			36.3			10.6	
Approach LOS				F			D			В	
Timer - Assigned Phs	1	2		5	6		8				
Phs Duration (G+Y+Rc), \$1.					139.1		34.8				
Change Period (Y+Rc), s 5.		7		4.4	5.9		4.4				
Max Green Setting (Gma32).					127.1		32.6				
Max Q Clear Time (g_c+2),				3.1	2.0		29.4				
Green Ext Time (p_c), s 0.1				0.0	36.6		0.9				
·····	2 10.			0.0	50.0		0.9				
Intersection Summary											
HCM 6th Ctrl Delay		32.6									
HCM 6th LOS		С									
Notes											

#### Notes

User approved ignoring U-Turning movement.

	٠	-	7	-	-	*	1	Ť	1	1	Ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	3	<b>^</b>	1	٦	<b>†</b> †	1	A	<b>^</b>	1	A	<b>^</b>	1	
Traffic Volume (veh/h)	1220	110	60	20	70	20	130	1240	30	30	630	800	
Future Volume (veh/h)	1220	110	60	20	70	20	130	1240	30	30	630	800	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	Ū	0.98	1.00	v	0.97	1.00	Ŭ	0.98	1.00	v	0.98	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approa		No	1.00	1.00	No	1.00	1.00	No	1.00	1.00	No	1.00	
Adj Sat Flow, veh/h/ln	1870	1870	1796	1870	1870	1796	1563	1856	1856	1563	1856	1856	
Adj Flow Rate, veh/h	1258	113	62	27	95	27	137	1305	32	31	656	833	
Peak Hour Factor	0.97	0.97	0.97	0.74	0.74	0.74	0.95	0.95	0.95	0.96	0.96	0.96	
Percent Heavy Veh, %		0.97	0.97	2	2	2	0.95	0.95	0.95	0.90	0.90	0.90	
Cap, veh/h	709	1566	659	35	221	92	88	2031	620	37	1860	569	
• *	0.40		0.44	0.02		92 0.06	0.06	0.40	0.40	0.03		0.37	
Arrive On Green		0.44			0.06						0.37		
Sat Flow, veh/h	1781	3554	1497	1781	3554	1478	1488	5066	1547	1488	5066	1548	
Grp Volume(v), veh/h	1258	113	62	27	95	27	137	1305	32	31	656	833	
Grp Sat Flow(s),veh/h/		1777	1497	1781	1777	1478	1488	1689	1547	1488	1689	1548	
Q Serve(g_s), s	71.6	3.3	4.4	2.7	4.6	3.1	10.6	37.4	2.3	3.7	16.9	66.1	
Cycle Q Clear(g_c), s	71.6	3.3	4.4	2.7	4.6	3.1	10.6	37.4	2.3	3.7	16.9	66.1	
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Lane Grp Cap(c), veh/l		1566	659	35	221	92	88	2031	620	37	1860	569	
V/C Ratio(X)	1.78	0.07	0.09	0.78	0.43	0.29	1.56	0.64	0.05	0.83	0.35	1.47	
Avail Cap(c_a), veh/h	709	1887	795	69	612	254	88	2031	620	40	1860	569	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.94	0.94	0.94	
Uniform Delay (d), s/ve	h 54.2	29.1	29.4	87.9	81.3	80.6	84.7	43.5	33.0	87.4	41.4	56.9	
Incr Delay (d2), s/veh	354.7	0.1	0.2	13.1	3.6	4.8	301.4	1.6	0.2	69.4	0.5	218.3	
Initial Q Delay(d3),s/ve	h 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),ve	h/10-2.1	1.5	1.7	1.4	2.3	1.3	11.4	15.6	0.9	2.1	7.1	60.5	
Unsig. Movement Dela	y, s/veh	1											
LnGrp Delay(d),s/veh		29.1	29.6	101.0	84.9	85.4	386.1	45.1	33.1	156.7	41.9	275.2	
LnGrp LOS	F	С	С	F	F	F	F	D	С	F	D	F	
Approach Vol, veh/h		1433			149			1474			1520		
Approach Delay, s/veh		362.5			87.9			76.5			172.1		
Approach LOS		F			F			E			F		
		•						-					
Timer - Assigned Phs	1	2	3	4	5	6	7	8					
Phs Duration (G+Y+Ro		79.0	7.9	84.2	15.0	72.9	76.0	16.1					
Change Period (Y+Rc)		6.8	4.4	4.9	4.4	* 6.8	4.4	4.9					
Max Green Setting (Gr		52.1	7.0	95.6	10.6	* 47	71.6	31.0					
Max Q Clear Time (g_c	c+115),7s	39.4	4.7	6.4	12.6	68.1	73.6	6.6					
Green Ext Time (p_c),	s 0.0	6.6	0.0	2.5	0.0	0.0	0.0	1.3					
Intersection Summary													
HCM 6th Ctrl Delay			198.2										
HCM 6th LOS			F										
Notes													

NOTE

	٠	-	7	*	-	•	1	Ť	1	4	ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		4		٦	र्भ	1	5	<b>^</b>	1	٦	<b>^</b>	1	
Traffic Volume (veh/h)	10	0	20	30	10	40	20	1340	110	30	640	20	
Future Volume (veh/h)	10	0	20	30	10	40	20	1340	110	30	640	20	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	Ū	1.00	1.00	v	1.00	1.00	v	0.97	1.00	v	0.97	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approad		No	1.00	1.00	No	1.00	1.00	No	1.00	1.00	No	1.00	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1856	1856	1856	1856	1856	1856	
Adj Flow Rate, veh/h	20	0	40	28	33	54	21	1426	117	31	660	21	
Peak Hour Factor	0.50	0.50	0.50	0.74	0.74	0.74	0.94	0.94	0.94	0.97	0.97	0.97	
Percent Heavy Veh, %	0.50	0.50	0.50	2	2	2	0.94	0.94	0.94	0.97	0.97	0.97	
Cap, veh/h	25	0	50	79	83	106	178	2755	1193	40	2442	1060	
Arrive On Green	0.05	0.00	0.05	0.04	0.04	0.04	0.20	1.00	1.00	40 0.02	0.69	0.69	
Sat Flow, veh/h	548	0.00	1097	1781	1870	1585	1767	3526	1527	1767	3526	1529	
Grp Volume(v), veh/h	60	0	0	28	33	54	21	1426	117	31	660	21	
Grp Sat Flow(s),veh/h/l		0	0	1781	1870	1585	1767	1763	1527	1767	1763	1529	
Q Serve(g_s), s	6.5	0.0	0.0	2.7	3.1	5.9	1.8	0.0	0.0	3.1	12.7	0.8	
Cycle Q Clear(g_c), s	6.5	0.0	0.0	2.7	3.1	5.9	1.8	0.0	0.0	3.1	12.7	0.8	
Prop In Lane	0.33	•	0.67	1.00		1.00	1.00	0755	1.00	1.00	0440	1.00	
Lane Grp Cap(c), veh/h		0	0	79	83	106	178	2755	1193	40	2442	1060	
V/C Ratio(X)	0.81	0.00	0.00	0.36	0.40	0.51	0.12	0.52	0.10	0.78	0.27	0.02	
Avail Cap(c_a), veh/h	129	0	0	109	114	133	178	2755	1193	124	2442	1060	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	0.00	0.00	0.55	0.55	0.55	0.18	0.18	0.18	1.00	1.00	1.00	
Uniform Delay (d), s/ve		0.0	0.0	83.5	83.7	81.2	65.4	0.0	0.0	87.5	10.5	8.6	
Incr Delay (d2), s/veh	7.5	0.0	0.0	0.6	0.6	0.8	0.0	0.1	0.0	11.4	0.3	0.0	
Initial Q Delay(d3),s/vel		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),ve	h/ln2.9	0.0	0.0	1.3	1.5	2.5	0.8	0.0	0.0	1.5	4.8	0.3	
Unsig. Movement Delay													
LnGrp Delay(d),s/veh	92.6	0.0	0.0	84.1	84.3	81.9	65.4	0.1	0.0	98.9	10.7	8.6	
LnGrp LOS	F	Α	Α	F	F	F	E	Α	Α	F	В	А	
Approach Vol, veh/h		60			115			1564			712		
Approach Delay, s/veh		92.6			83.2			1.0			14.5		
Approach LOS		F			F			Α			В		
Timer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Rc	) \$8.5			13.0		131.0		13.0					
Change Period (Y+Rc),		4.9		4.9	4.9	* 6.3		5.0					
Max Green Setting (Gr				14.1		1.2E2		11.0					
Max Q Clear Time (g_c		2.0		8.5	3.8	14.7		7.9					
Green Ext Time (p_c),		37.7		0.0	0.0	2.7		0.1					
	3 0.0	51.1		0.1	0.0	2.1		0.1					
Intersection Summary													
HCM 6th Ctrl Delay			11.0										
HCM 6th LOS			В										
Notos													

User approved volume balancing among the lanes for turning movement. * HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

	۶	<b>→</b>	7	4	+	*	1	t	1	4	ŧ	~
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	ŧ,	1	٦	<b>≜</b> †₽		ሕካ	<b>≜</b> †₽		٦	<b>†</b> †	1
Traffic Volume (veh/h)	460	140	440	140	140	120	420	950	40	80	480	110
Future Volume (veh/h)	460	140	440	140	140	120	420	950	40	80	480	110
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.98	1.00		0.98	1.00		0.96	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approac	ch	No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1563	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	511	406	322	192	192	164	447	1011	43	87	522	120
Peak Hour Factor	0.90	0.90	0.90	0.73	0.73	0.73	0.94	0.94	0.94	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	3	3	3	3	3	3
Cap, veh/h	535	1011	842	340	1004	805	477	1098	47	355	1274	557
Arrive On Green	0.54	0.54	0.54	0.54	0.54	0.54	0.22	0.42	0.42	0.07	0.12	0.12
Sat Flow, veh/h	1023	1870	1558	727	1858	1489	2887	3438	146	1767	3526	1542
Grp Volume(v), veh/h	511	406	322	192	183	173	447	518	536	87	522	120
Grp Sat Flow(s),veh/h/li		1870	1558	727	1777	1571	1444	1763	1822	1767	1763	1542
Q Serve(g_s), s	87.1	22.9	21.6	37.9	9.5	10.2	27.4	50.0	50.0	8.4	24.7	12.7
Cycle Q Clear(g_c), s	97.3	22.9	21.6	60.9	9.5	10.2	27.4	50.0	50.0	8.4	24.7	12.7
Prop In Lane	1.00		1.00	1.00		0.95	1.00		0.08	1.00		1.00
Lane Grp Cap(c), veh/h	n 535	1011	842	340	960	849	477	563	582	355	1274	557
V/C Ratio(X)	0.96	0.40	0.38	0.56	0.19	0.20	0.94	0.92	0.92	0.24	0.41	0.22
Avail Cap(c_a), veh/h	535	1011	842	340	960	849	529	563	582	355	1274	557
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.33	1.33	1.33	0.33	0.33	0.33
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	0.45	0.45	0.45	0.98	0.98	0.98
Uniform Delay (d), s/vel	h 47.8	24.3	23.9	42.1	21.2	21.3	69.3	49.6	49.6	71.1	61.5	56.2
Incr Delay (d2), s/veh	27.7	0.1	0.1	1.4	0.0	0.0	12.5	12.4	12.1	0.1	1.0	0.9
Initial Q Delay(d3),s/vel	h 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),vel		10.5	8.3	7.1	4.1	4.0	10.6	22.9	23.6	4.0	12.0	5.4
Unsig. Movement Delay												
LnGrp Delay(d),s/veh	75.5	24.4	24.1	43.5	21.2	21.4	81.8	62.0	61.7	71.2	62.4	57.1
LnGrp LOS	Е	С	С	D	С	С	F	E	E	E	E	E
Approach Vol, veh/h		1239			548			1501			729	
Approach Delay, s/veh		45.4			29.1			67.7			62.6	
Approach LOS		D			С			Е			Е	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc)	), <b>\$</b> 2.1	63.0		102.2	34.2	70.9		102.2				
Change Period (Y+Rc),	,.	* 5.5		4.9	4.4	5.2		4.9				
Max Green Setting (Gm		* 58		97.3	33.0	35.2		97.3				
Max Q Clear Time (g_c		52.0		99.3	29.4	26.7		62.9				
Green Ext Time (p_c), s		3.9		0.0	0.4	3.6		2.9				
Intersection Summary												
HCM 6th Ctrl Delay			54.6									
HCM 6th LOS			54.6 D									
			U									
Notos												

User approved volume balancing among the lanes for turning movement.

User approved ignoring U-Turning movement.

	٠	-	7	-	+	*	1	Ť	1	4	Ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	5	ţ,		ሻሻ	<b>†</b>	1	à	<b>†</b> †	1	à	<b>†</b> †	1	
Traffic Volume (veh/h)	270	510	220	180	260	70	350	810	420	130	570	120	
Future Volume (veh/h)	270	510	220	180	260	70	350	810	420	130	570	120	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		0.98	1.00		0.98	1.00		0.96	1.00		0.94	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approa		No			No			No			No		
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1563	1856	1856	1856	1856	1856	
Adj Flow Rate, veh/h	303	573	247	196	283	76	372	862	447	141	620	130	
Peak Hour Factor	0.89	0.89	0.89	0.92	0.92	0.92	0.94	0.94	0.94	0.92	0.92	0.92	
Percent Heavy Veh, %	2	2	2	2	2	2	3	3	3	3	3	3	
Cap, veh/h	531	514	222	200	330	273	353	1091	465	193	648	273	
Arrive On Green	0.30	0.42	0.42	0.06	0.18	0.18	0.47	0.62	0.62	0.07	0.12	0.12	
Sat Flow, veh/h	1781	1233	531	3456	1870	1549	1488	3526	1504	1767	3526	1485	
Grp Volume(v), veh/h	303	0	820	196	283	76	372	862	447	141	620	130	
Grp Sat Flow(s), veh/h/l		0	1764	1728	1870	1549	1488	1763	1504	1767	1763	1485	
Q Serve(g_s), s	25.9	0.0	75.1	10.2	26.4	7.6	42.7	32.8	50.3	14.1	31.5	14.7	
Cycle Q Clear(g_c), s	25.9	0.0	75.1	10.2	26.4	7.6	42.7	32.8	50.3	14.1	31.5	14.7	
Prop In Lane	1.00	0.0	0.30	1.00	20.4	1.00	1.00	02.0	1.00	1.00	01.0	1.00	
Lane Grp Cap(c), veh/h		0	736	200	330	273	353	1091	465	193	648	273	
V/C Ratio(X)	0.57	0.00	1.11	0.98	0.86	0.28	1.05	0.79	0.96	0.73	0.96	0.48	
Avail Cap(c_a), veh/h	531	0.00	736	200	430	356	353	1091	465	193	648	273	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00	0.67	0.67	0.67	
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00	0.73	0.73	0.73	0.65	0.65	0.65	
Uniform Delay (d), s/ve		0.0	52.5	84.7	71.9	64.2	47.3	29.9	33.3	80.8	78.2	70.8	
Incr Delay (d2), s/veh	0.9	0.0	69.0	58.0	18.4	1.5	55.8	4.3	27.2	7.7	19.7	3.8	
Initial Q Delay(d3),s/vel		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),ve		0.0	47.3	6.2	14.4	3.2	18.6	11.1	17.6	7.0	16.4	6.1	
Unsig. Movement Dela			11.0	0.2	- 1 1.7	0.2	10.0		17.0	7.0	10.4	0.1	
LnGrp Delay(d),s/veh	54.4	0.0	121.5	142.7	90.3	65.7	103.1	34.3	60.4	88.5	97.9	74.7	
LnGrp LOS	D	A	F	F	50.5 F	E	F	0 C	E	60.5 F	57.5 F	E	
Approach Vol, veh/h		1123			555			1681			891		
Approach Delay, s/veh		103.4			105.5			56.5			93.0		
Approach LOS		100.4			F			55.5 F			50.0 F		
Timer - Assigned Phs	1	2	3	4	5	6	7	8					
Phs Duration (G+Y+Rc	) 84 1	61.1	14.8	80.0	47.1	38.1	58.0	36.8					
Change Period (Y+Rc)		5.4	4.4	4.9	4.4	5.0	4.4	5.0					
Max Green Setting (Gn		55.7	10.4	75.1	42.7	33.1	44.0	41.4					
Max Q Clear Time (g_c		52.3	12.2	77.1	44.7	33.5	27.9	28.4					
Green Ext Time (p_c),		2.6	0.0	0.0	0.0	0.0	0.4	3.0					
. ,	0.1	2.0	0.0	0.0	0.0	0.0	0.4	0.0					
Intersection Summary													
HCM 6th Ctrl Delay			82.9										
HCM 6th LOS			F										
NT (													

User approved ignoring U-Turning movement.

## ~ ~ + / > +

	Ŧ			· ·		•
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	٦	1	<b>^</b>	1	3	<b>^</b>
Traffic Volume (veh/h)	90	70	1500	160	130	840
Future Volume (veh/h)	90	70	1500	160	130	840
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		0.97	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approac			No			No
Adj Sat Flow, veh/h/ln	1870	1870	1856	1781	1563	1856
Adj Flow Rate, veh/h	110	85	1596	170	141	913
Peak Hour Factor	0.82	0.82	0.94	0.94	0.92	0.92
Percent Heavy Veh, %	2	2	3	3	3	3
Cap, veh/h	131	116	2617	1092	155	3071
Arrive On Green	0.07	0.07	1.00	1.00	0.21	1.00
Sat Flow, veh/h	1781	1585	3618	1471	1488	3618
Grp Volume(v), veh/h	110	85	1596	170	141	913
Grp Sat Flow(s),veh/h/li		1585	1763	1471	1488	1763
Q Serve(g_s), s	11.0	9.5	0.0	0.0	16.7	0.0
Cycle Q Clear(g_c), s	11.0	9.5	0.0	0.0	16.7	0.0
Prop In Lane	1.00	1.00		1.00	1.00	
Lane Grp Cap(c), veh/h	131	116	2617	1092	155	3071
V/C Ratio(X)	0.84	0.73	0.61	0.16	0.91	0.30
Avail Cap(c_a), veh/h	288	256	2617	1092	253	3071
HCM Platoon Ratio	1.00	1.00	2.00	2.00	2.00	2.00
Upstream Filter(I)	1.00	1.00	0.54	0.54	0.16	0.16
Uniform Delay (d), s/vel		81.6	0.0	0.0	70.4	0.0
Incr Delay (d2), s/veh	5.4	3.3	0.6	0.2	3.2	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh		4.0	0.2	0.0	5.9	0.0
Unsig. Movement Delay			0.2	0.0	0.0	0.0
LnGrp Delay(d),s/veh	87.7	84.9	0.6	0.2	73.6	0.0
LIGIP Delay(d), s/ven	67.7 F	04.9 F	0.0 A	A A	73.0 E	0.0 A
				A	<u> </u>	
Approach Vol, veh/h	195		1766			1054
Approach Delay, s/veh			0.5			9.9
Approach LOS	F		A			А
Timer - Assigned Phs	1	2				6
Phs Duration (G+Y+Rc)						161.9
Change Period (Y+Rc),		5.1				* 5.1
Max Green Setting (Gm					*	1.4E2
Max Q Clear Time (g_c		2.0				2.0
Green Ext Time (p_c), s		28.3				11.8
u = 7-	5 0.1	20.0				11.0
Intersection Summary						
HCM 6th Ctrl Delay			9.4			
HCM 6th LOS			А			
Notes						

Notes

User approved ignoring U-Turning movement.

	٠	-	¥	*	+	•	1	t	1	4	Ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	5	ţ,	1	٦	ţ,	1	A	<b>^</b>	1	à	<b>≜</b> †}		
Traffic Volume (veh/h)	290	120	500	30	150	170	270	1200	50	120	650	130	
Future Volume (veh/h)	290	120	500	30	150	170	270	1200	50	120	650	130	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.96	1.00		0.95	1.00		0.93	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No			No			No			No		
Adj Sat Flow, veh/h/ln	1870	1870	1796	1870	1870	1796	1563	1856	1781	1563	1856	1856	
Adj Flow Rate, veh/h	309	431	330	33	182	176	281	1250	52	130	707	141	
Peak Hour Factor	0.94	0.94	0.94	0.91	0.91	0.91	0.96	0.96	0.96	0.92	0.92	0.92	
Percent Heavy Veh, %	2	2	2	2	2	2	3	3	3	3	3	3	
Cap, veh/h	327	571	453	43	272	213	435	1653	672	146	776	155	
Arrive On Green	0.18	0.31	0.31	0.02	0.15	0.15	0.58	0.94	0.94	0.07	0.18	0.18	
Sat Flow, veh/h	1781	1870	1482	1781	1870	1461	1488	3526	1433	1488	2886	575	
· · · ·	309	431	330	33	182	176	281	1250	52	130	432	416	
Grp Volume(v), veh/h													
Grp Sat Flow(s),veh/h/l		1870	1482	1781	1870	1461	1488	1763	1433	1488	1763	1698	
Q Serve(g_s), s	30.8	37.4	17.9	3.3	16.6	21.1	22.7	13.6	0.4	15.6	43.2	43.3	
Cycle Q Clear(g_c), s	30.8	37.4	17.9	3.3	16.6	21.1	22.7	13.6	0.4	15.6	43.2	43.3	
Prop In Lane	1.00		1.00	1.00	070	1.00	1.00	1050	1.00	1.00	47.4	0.34	
Lane Grp Cap(c), veh/h		571	453	43	272	213	435	1653	672	146	474	457	
V/C Ratio(X)	0.94	0.75	0.73	0.78	0.67	0.83	0.65	0.76	0.08	0.89	0.91	0.91	
Avail Cap(c_a), veh/h	368	616	488	88	322	252	435	1653	672	177	504	486	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00	0.67	0.67	0.67	
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	0.09	0.09	0.09	0.95	0.95	0.95	
Uniform Delay (d), s/ve		56.4	14.0	87.4	72.8	74.7	31.1	3.4	3.0	83.1	71.7	71.7	
Incr Delay (d2), s/veh	30.0	5.5	5.8	10.6	4.6	18.2	0.2	0.3	0.0	30.5	23.3	24.1	
Initial Q Delay(d3),s/vel	h 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),vel	h/11h7.0	18.8	7.0	1.7	8.4	9.1	6.4	1.8	0.1	7.4	23.1	22.4	
Unsig. Movement Delay	y, s/veh												
LnGrp Delay(d),s/veh	102.5	61.9	19.7	98.0	77.4	92.9	31.4	3.7	3.0	113.6	94.9	95.8	
LnGrp LOS	F	Е	В	F	Е	F	С	А	А	F	F	F	
Approach Vol, veh/h		1070			391			1583			978		
Approach Delay, s/veh		60.7			86.1			8.6			97.8		
Approach LOS		E			F			A			F		
Timer - Assigned Phs	1	2	3	4	5	6	7	8					
Phs Duration (G+Y+Rc	) 82 0	89.4	8.7	59.9	57.6	53.8	37.5	31.1					
Change Period (Y+Rc)		5.0	4.4	4.9	57.0	* 5.4	4.4	4.9					
Max Green Setting (Gr		71.7	4.4 8.9	4.9 59.3	41.2	* 52	4.4 37.2	31.0					
0 (			0.9 5.3	39.3	41.Z 24.7	52 45.3	32.8	23.1					
Max Q Clear Time (g_c		15.6											
Green Ext Time (p_c),	S 0.1	22.2	0.0	6.2	0.3	3.1	0.2	1.3					
Intersection Summary													
HCM 6th Ctrl Delay			51.7										
HCM 6th LOS			D										

User approved volume balancing among the lanes for turning movement.

User approved ignoring U-Turning movement.

	٠	-	7	1	+	•	1	t	1	1	ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ኘካ	<b>≜</b> t}		ኘካ	<b>≜</b> †₽		ሻሻ	<b>^</b>	1	ኘካ	<b>^</b>	1	
Traffic Volume (veh/h)	520	1190	40	170	920	380	30	950	400	120	610	330	
Future Volume (veh/h)	520	1190	40	170	920	380	30	950	400	120	610	330	
Initial Q (Qb), veh	020	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	U	1.00	1.00	U	1.00	1.00	U	0.97	1.00	U	0.97	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approa		No	1.00	1.00	No	1.00	1.00	No	1.00	1.00	No	1.00	
Adj Sat Flow, veh/h/ln	1885	1885	1885	1885	1885	1885	1856	1856	1856	1563	1856	1856	
Adj Flow Rate, veh/h	812	1859	62	207	1122	463	33	1033	435	124	629	340	
Peak Hour Factor	0.64	0.64	0.64	0.82	0.82	0.82	0.92	0.92	0.92	0.97	0.97	0.97	
Percent Heavy Veh, %		0.04	0.04	0.02	0.02	0.02	0.92	0.92	0.92	0.97	0.97	3	
	389	1554	52	254	998	401	62	1169	507	138	1274	729	
Cap, veh/h								0.22	0.22			0.72	
Arrive On Green	0.11	0.44	0.44	0.10	0.53	0.53	0.01			0.10	0.72		
Sat Flow, veh/h	3483	3537	117	3483	2492	1000	3428	3526	1529	2887	3526	1531	
Grp Volume(v), veh/h	812	936	985	207	797	788	33	1033	435	124	629	340	
Grp Sat Flow(s),veh/h/		1791	1864	1742	1791	1701	1714	1763	1529	1444	1763	1531	
Q Serve(g_s), s	20.1	79.1	79.1	10.5	72.1	72.1	1.7	51.0	39.7	7.6	13.8	16.4	
Cycle Q Clear(g_c), s	20.1	79.1	79.1	10.5	72.1	72.1	1.7	51.0	39.7	7.6	13.8	16.4	
Prop In Lane	1.00		0.06	1.00		0.59	1.00		1.00	1.00		1.00	
Lane Grp Cap(c), veh/		787	819	254	717	681	62	1169	507	138	1274	729	
V/C Ratio(X)	2.09	1.19	1.20	0.82	1.11	1.16	0.54	0.88	0.86	0.90	0.49	0.47	
Avail Cap(c_a), veh/h	389	787	819	484	836	794	166	1169	507	138	1274	729	
HCM Platoon Ratio	1.00	1.00	1.00	1.33	1.33	1.33	0.67	0.67	0.67	2.00	2.00	2.00	
Upstream Filter(I)	1.00	1.00	1.00	0.09	0.09	0.09	0.45	0.45	0.45	0.70	0.70	0.70	
Uniform Delay (d), s/ve	h 79.9	50.4	50.5	80.1	42.0	42.0	88.2	66.6	42.9	81.0	17.8	12.7	
Incr Delay (d2), s/veh	498.2	97.8	102.7	0.7	52.1	71.9	1.2	4.8	8.5	36.6	1.0	1.5	
Initial Q Delay(d3),s/ve		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),ve		56.7	60.1	4.7	39.9	41.6	0.8	24.3	16.9	3.4	4.4	4.1	
Unsig. Movement Dela													
LnGrp Delay(d),s/veh		148.2	153.2	80.8	94.2	114.0	89.4	71.5	51.4	117.6	18.8	14.2	
LnGrp LOS	F	F	F	F	F	F	F	E	D	F	В	B	
Approach Vol, veh/h		2733			1792			1501			1093		
Approach Delay, s/veh		277.8			101.3			66.0			28.6		
Approach LOS		277.0 F			F			E			20.0 C		
					•						U		
Timer - Assigned Phs	1	2	3	4	5	6	7	8					
Phs Duration (G+Y+Ro	c), <b>\$</b> 3.0	64.9	18.1	84.0	7.6	70.3	25.0	77.1					
Change Period (Y+Rc)		* 5.2	5.0	4.9	4.4	5.2	4.9	5.0					
Max Green Setting (Gr	nax <b>§.6</b>	* 48	25.0	79.1	8.7	47.7	20.1	84.0					
Max Q Clear Time (g_o		53.0	12.5	81.1	3.7	15.8	22.1	0.0					
Green Ext Time (p_c),		0.0	0.6	0.0	0.0	5.6	0.0	0.0					
Intersection Summary													
HCM 6th Ctrl Delay			150.4										
HCM 6th LOS			F										
Notes													

NOTE

	٠	-	7	-	+	•	1	t	1	4	Ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	7	<b>^</b>	1	à	<b>≜</b> †₽			र्भ	1	٦	Þ		
Traffic Volume (veh/h)	10	1590	10	420	840	810	10	10	1100	420	10	10	
Future Volume (veh/h)	10	1590	10	420	840	810	10	10	1100	420	10	10	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.97	1.00		1.00	1.00		0.98	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach	۱	No			No			No			No		
	1885	1885	1810	1885	1885	1885	1870	1870	1796	1870	1870	1870	
Adj Flow Rate, veh/h	11	1674	11	438	875	844	11	11	1236	483	11	11	
Peak Hour Factor	0.95	0.95	0.95	0.96	0.96	0.96	0.89	0.89	0.89	0.87	0.87	0.87	
Percent Heavy Veh, %	1	1	1	1	1	1	2	2	2	2	2	2	
Cap, veh/h	17	1065	443	229	746	646	423	414	766	263	430	430	
Arrive On Green	0.01	0.40	0.40	0.21	0.69	0.69	0.51	0.51	0.51	0.51	0.51	0.51	
Sat Flow, veh/h	1795	3582	1492	1795	1794	1554	778	819	1514	445	850	850	
Grp Volume(v), veh/h	11	1674	11	438	873	846	22	0	1236	483	0	22	
Grp Sat Flow(s),veh/h/ln		1791	1492	1795	1791	1558	1597	0	1514	445	0	1700	
Q Serve(g_s), s	1.1	53.5	0.8	23.0	74.8	74.8	0.0	0.0	91.0	89.9	0.0	1.2	
Cycle Q Clear(g_c), s	1.1	53.5	0.8	23.0	74.8	74.8	1.1	0.0	91.0	91.0	0.0	1.2	
Prop In Lane	1.00		1.00	1.00		1.00	0.50		1.00	1.00		0.50	
Lane Grp Cap(c), veh/h	17	1065	443	229	744	647	837	0	766	263	0	859	
	0.65	1.57	0.02	1.91	1.17	1.31	0.03	0.00	1.61	1.84	0.00	0.03	
Avail Cap(c_a), veh/h	40	1065	443	229	744	647	837	0	766	263	0	859	
	1.33	1.33	1.33	1.67	1.67	1.67	1.00	1.00	1.00	1.00	1.00	1.00	
	0.09	0.09	0.09	0.09	0.09	0.09	1.00	0.00	1.00	1.00	0.00	1.00	
Uniform Delay (d), s/veh	88.6	54.4	38.5	70.8	27.5	27.5	22.3	0.0	44.5	51.9	0.0	22.3	
Incr Delay (d2), s/veh	1.4		0.0	410.6	79.3	139.0	0.0	0.0	282.5	392.2	0.0	0.0	
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/		61.1	0.3	36.1	41.0	46.4	0.5	0.0	94.2	41.0	0.0	0.5	
Unsig. Movement Delay,													
•			38.5	481.4	106.9	166.5	22.3	0.0	327.0	444.1	0.0	22.3	
LnGrp LOS	F	F	D	F	F	F	С	А	F	F	А	С	
Approach Vol, veh/h		1696			2157			1258			505		
Approach Delay, s/veh		309.2			206.3			321.7			425.7		
Approach LOS		F			F			F			F		
Timer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Rc),	27.0	58.0		95.0	5.7	79.3		95.0					
Change Period (Y+Rc), s		4.5		4.0	4.0	4.5		4.0					
Max Green Setting (Gma		53.5		91.0	4.0	72.5		91.0					
Max Q Clear Time (g_c+		55.5		93.0	3.1	76.8		93.0					
Green Ext Time (p_c), s		0.0		0.0	0.0	0.0		0.0					
Intersection Summary													
HCM 6th Ctrl Delay			283.0										
HCM 6th LOS			F										
Notos													

User approved ignoring U-Turning movement.

	٠	<b>→</b>	7	4	+	*	1	t	1	4	ŧ	~
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
ane Configurations	ኘኘ	1	1	٢	ef -	1	ኘኘ	<b>†</b> †	1	7	<b>†</b> ‡	
raffic Volume (veh/h)	170	270	740	60	70	40	530	1250	240	70	700	40
uture Volume (veh/h)	170	270	740	60	70	40	530	1250	240	70	700	40
nitial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.99	1.00		0.97	1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Vork Zone On Approach	h	No			No			No			No	
dj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1856	1856	1856	1856	1856	1856
dj Flow Rate, veh/h	680	1080	2960	78	91	52	576	1359	261	75	753	43
Peak Hour Factor	0.25	0.25	0.25	0.77	0.77	0.77	0.92	0.92	0.92	0.93	0.93	0.93
Percent Heavy Veh, %	2	2	2	2	2	2	3	3	3	3	3	3
Cap, veh/h	983	593	1115	64	129	108	1326	1430	618	240	526	30
Arrive On Green	0.28	0.32	0.32	0.04	0.07	0.07	0.77	0.81	0.81	0.18	0.21	0.21
Sat Flow, veh/h	3456	1870	1582	1781	1870	1571	3428	3526	1523	1767	3383	193
Grp Volume(v), veh/h	680	1080	2960	78	91	52	576	1359	261	75	392	404
Grp Sat Flow(s),veh/h/ln		1870	1582	1781	1870	1571	1714	1763	1523	1767	1763	1814
Q Serve(g_s), s	31.6	57.1	57.1	6.5	8.6	5.7	10.3	57.1	8.8	6.6	28.0	28.0
Cycle Q Clear(g_c), s	31.6	57.1	57.1	6.5	8.6	5.7	10.3	57.1	8.8	6.6	28.0	28.0
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.11
ane Grp Cap(c), veh/h		593	1115	64	129	108	1326	1430	618	240	274	282
//C Ratio(X)	0.69	1.82	2.66	1.21	0.71	0.48	0.43	0.95	0.42	0.31	1.43	1.43
vail Cap(c_a), veh/h	983	593	1115	64	314	264	1326	1655	715	240	274	282
ICM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00	1.33	1.33	1.33
Jpstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	0.52	0.52	0.52	0.79	0.79	0.79
Jniform Delay (d), s/veh		61.4	26.6	86.8	82.0	80.7	13.7	15.5	10.9	66.4	71.4	71.4
ncr Delay (d2), s/veh	2.1		747.5	180.3	2.6	1.2	0.0	8.9	1.1	0.2	209.5	209.5
nitial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
bile BackOfQ(50%),veh			246.5	6.3	4.3	2.4	3.1	9.9	2.6	3.0	28.1	28.9
nsig. Movement Delay							-		-			
nGrp Delay(d),s/veh		437.2	774.1	267.1	84.7	81.9	13.7	24.4	12.0	66.6	280.9	280.9
nGrp LOS	E	F	F	F	F	F	В	С	B	E	F	F
pproach Vol, veh/h		4720			221			2196			871	
pproach Delay, s/veh		594.0			148.4			20.1			262.5	
pproach LOS		F			F			C			F	
imer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc)	28.9	78.1	11.0	62.0	74.0	33.0	55.7	17.3				
Change Period (Y+Rc),		5.1	4.5	4.9	4.4	5.0	4.5	4.9				
Nax Green Setting (Gma		84.5	6.5	57.1	69.6	28.0	33.4	30.2				
/lax Q Clear Time (g_c+			8.5	59.1	12.3	30.0	33.6	10.6				
Green Ext Time (p_c), s		13.9	0.0	0.0	1.1	0.0	0.0	0.4				
tersection Summary												
ICM 6th Ctrl Delay			388.3									
ICM 6th LOS			F									
lotes												
or approved volume k	alars	ing or	ng the	lonoo fe	an tu une in		mont					

User approved volume balancing among the lanes for turning movement. User approved ignoring U-Turning movement.

73: Kearny Villa Rd & Black Mountain Rd & Carroll Center Rd

timing Plan: PM PEAK

	٨	+	7	4	Ļ	•	1	t	1	4	ţ	4	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ሻሻ	•	1	٦	<b>≜</b> †₽		٦		1	24	<b>^</b>	1	
Traffic Volume (veh/h)	670	210	210	410	80	410	30	710	240	160	400	200	
Future Volume (veh/h)	670	210	210	410	80	410	30	710	240	160	400	200	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.98	1.00		0.97	1.00		0.98	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No	1050	4070	No	1070	1070	No	1700	1050	No	1050	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1870	1870	1870	1870	1870	1796	1856	1856	1856	
Adj Flow Rate, veh/h	728	228	228	477	93	477	33	772	261	172	430	215	
Peak Hour Factor	0.92	0.92	0.92	0.86	0.86	0.86	0.92	0.92	0.92	0.93	0.93	0.93	
Percent Heavy Veh, %	3	3	3	2	2	2	2	2	2	3	3	3	
Cap, veh/h	778	289	237	606	491	427	43	1008	418	188	1291	924	
Arrive On Green	0.07	0.05	0.05	0.34	0.28	0.28	0.02	0.28	0.28	0.21	0.73	0.73	
Sat Flow, veh/h	3428	1856	1522	1781	1777	1548	1781	3554	1473	1767	3526	1547	
Grp Volume(v), veh/h	728	228	228	477	93	477	33	772	261	172	430	215	
Grp Sat Flow(s),veh/h/lr		1856	1522	1781	1777	1548	1781	1777	1473	1767	1763	1547	
Q Serve(g_s), s	38.0	21.9	24.4	43.5	7.2	49.7	3.3	35.8	12.3	17.1	7.8	5.9	
Cycle Q Clear(g_c), s	38.0	21.9	24.4	43.5	7.2	49.7	3.3	35.8	12.3	17.1	7.8	5.9	
Prop In Lane	1.00	000	1.00	1.00	404	1.00	1.00	4000	1.00	1.00	4004	1.00	
Lane Grp Cap(c), veh/h		289	237	606	491	427	43	1008	418	188	1291	924	
V/C Ratio(X)	0.94	0.79	0.96	0.79	0.19	1.12	0.78	0.77	0.62	0.91	0.33	0.23	
Avail Cap(c_a), veh/h	851	320	262	619	491	427	89	1008	418	202	1291	924	
HCM Platoon Ratio	0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00	
Upstream Filter(I)	0.26	0.26	0.26	1.00	1.00	1.00	0.09	0.09	0.09	0.09	0.09	0.09	
Uniform Delay (d), s/vel		82.4	69.5	53.6	49.8	65.2	87.4	59.0	11.1	70.0	16.3	6.8	
Incr Delay (d2), s/veh	5.4	3.1	18.5	6.0	0.3	79.0	1.0 0.0	0.5	0.6	5.8	0.1	0.1	
Initial Q Delay(d3),s/veh		0.0 11.3	0.0 11.3	0.0	0.0 3.3	0.0		0.0 16.1	0.0 4.2	0.0 7.3	0.0 2.7	0.0 1.7	
%ile BackOfQ(50%),veh			11.3	20.6	ა.ა	29.0	1.5	10.1	4.Z	1.3	Ζ.Ι	1.7	
Unsig. Movement Delay LnGrp Delay(d),s/veh		85.6	88.0	59.5	50.1	144.2	88.4	59.5	11.7	75.9	16.4	6.8	
• • • • •	87.3 F	65.0 F	00.0 F	59.5 E	50.1 D	144.Z F	00.4 F	59.5 E	н.7 В	75.9 E	10.4 B		
LnGrp LOS	Г		Г	E		Г	Г		D			A	
Approach Vol, veh/h		1184			1047 97.3			1066 48.7			817 26.4		
Approach Delay, s/veh Approach LOS		87.1 F			97.3 F			40.7 D			20.4 C		
											U		
Timer - Assigned Phs	1	2	3	4	5	6	7	8					
Phs Duration (G+Y+Rc)		56.6	66.1	33.8	8.7	71.4	45.3	54.6					
Change Period (Y+Rc),		5.5	4.9	* 5.7	4.4	* 5.5	4.4	4.9					
Max Green Setting (Gm		45.8	62.6	* 31	9.0	* 58	44.7	49.7					
Max Q Clear Time (g_c		37.8	45.5	26.4	5.3	9.8	40.0	51.7					
Green Ext Time (p_c), s	s 0.0	4.9	0.7	0.9	0.0	9.0	0.8	0.0					
Intersection Summary													
HCM 6th Ctrl Delay			67.7										
HCM 6th LOS			Е										

Notes

## Intersection

Int Delay, s/veh	0.8					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		<b>^</b>	<b>≜</b> ↑₽			1
Traffic Vol, veh/h	0	2100	1360	100	0	130
Future Vol, veh/h	0	2100	1360	100	0	130
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage	e, # -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	94	94	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	2234	1478	109	0	141

Major/Minor	Major1	N	Major2	Ν	/linor2	
Conflicting Flow All	-	0	-	0	-	794
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.94
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.32
Pot Cap-1 Maneuver	0	-	-	-	0	331
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	-	-	-	-	-	331
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Approach	EB		WB		SB	
HCM Control Delay, s	0		0		23.7	
HCM LOS	· ·				C	
					Ţ	
		FDT	WDT			
Minor Lane/Major Mvm	nt	EBT	WBT	WBR S		
Capacity (veh/h)		-	-	-	331	
HCM Lane V/C Ratio		-	-		0.427	
HCM Control Delay (s)		-	-	-	23.7	
HCM Lane LOS	<b>、</b>	-	-	-	C	
HCM 95th %tile Q(veh	)	-	-	-	2.1	

	٨	+	*	*	ł	*	1	1	1	1	Ŧ	~
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	٦	4			4		٦	1	1	٦	+	1
Traffic Volume (veh/h)	730	70	970	170	90	90	270	310	140	30	140	120
Future Volume (veh/h)	730	70	970	170	90	90	270	310	140	30	140	120
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.96	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	793	76	1054	274	145	145	293	337	152	33	152	130
Peak Hour Factor	0.92	0.92	0.92	0.62	0.62	0.62	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	3	3	3	3	3	3
Cap, veh/h	763	46	640	180	95	95	192	362	295	99	269	220
Arrive On Green	0.43	0.43	0.43	0.21	0.21	0.21	0.11	0.20	0.20	0.02	0.05	0.05
Sat Flow, veh/h	1781	108	1494	849	449	449	1767	1856	1513	1767	1856	1516
Grp Volume(v), veh/h	793	0	1130	564	0	0	293	337	152	33	152	130
Grp Sat Flow(s),veh/h/ln	1781	0	1601	1747	0	0	1767	1856	1513	1767	1856	1516
Q Serve(g_s), s	77.1	0.0	77.1	38.1	0.0	0.0	19.6	32.2	16.2	3.3	14.4	15.1
Cycle Q Clear(g_c), s	77.1	0.0	77.1	38.1	0.0	0.0	19.6	32.2	16.2	3.3	14.4	15.1
Prop In Lane	1.00		0.93	0.49		0.26	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	763	0	686	370	0	0	192	362	295	99	269	220
V/C Ratio(X)	1.04	0.00	1.65	1.53	0.00	0.00	1.52	0.93	0.51	0.33	0.56	0.59
Avail Cap(c_a), veh/h	763	0	686	370	0	0	192	407	332	99	269	220
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.33	0.33	0.33
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	0.00	0.41	0.41	0.41	0.79	0.79	0.79
Uniform Delay (d), s/veh	51.4	0.0	51.5	71.0	0.0	0.0	80.2	71.3	64.8	85.0	80.1	80.5
Incr Delay (d2), s/veh	43.2	0.0	297.8	249.7	0.0	0.0	245.9	17.6	2.6	1.1	6.6	8.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/In	43.2	0.0	87.3	42.7	0.0	0.0	22.1	17.1	6.5	1.6	7.8	6.8
Unsig. Movement Delay, s/veh		0.0	040.0	000 7	0.0	0.0	000 4	00.0	07.4	00.0	00.0	00.4
LnGrp Delay(d),s/veh	94.7	0.0	349.3	320.7	0.0	0.0	326.1	88.8	67.4	86.2	86.8	89.4
LnGrp LOS	F	A	F	F	A	A	F	F	E	F	F	F
Approach Vol, veh/h		1923			564			782			315	
Approach Delay, s/veh		244.3			320.7			173.6			87.8	
Approach LOS		F			F			F			F	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	15.0	40.0		82.0	24.0	31.0		43.0				
Change Period (Y+Rc), s	4.9	* 4.9		4.9	4.4	4.9		4.9				
Max Green Setting (Gmax), s	6.2	* 40		77.1	19.6	26.1		38.1				
Max Q Clear Time (g_c+I1), s	5.3	34.2		79.1	21.6	16.4		40.1				
Green Ext Time (p_c), s	0.0	1.0		0.0	0.0	0.3		0.0				
Intersection Summary												
HCM 6th Ctrl Delay			227.1									
HCM 6th LOS			F									

User approved volume balancing among the lanes for turning movement. * HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

	٨	+	7	1	Ļ	•	1	t	1	4	ţ	4	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		4		1	ર્સ	1	2		1	1	<b>≜</b> †₽		
Traffic Volume (veh/h)	20	10	20	70	10	20	30	460	160	30	340	10	
Future Volume (veh/h)	20	10	20	70	10	20	30	460	160	30	340	10	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		0.93	1.00		0.92	1.00		0.99	1.00		0.91	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac	h	No			No			No			No		
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	31	15	31	91	0	24	31	479	167	33	370	11	
Peak Hour Factor	0.65	0.65	0.65	0.85	0.85	0.85	0.96	0.96	0.96	0.92	0.92	0.92	
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2	
Cap, veh/h	74	36	74	350	0	143	973	2341	1036	42	461	14	
Arrive On Green	0.11	0.11	0.11	0.10	0.00	0.10	0.55	0.66	0.66	0.05	0.26	0.26	
Sat Flow, veh/h	666	322	666	3563	0	1454	1781	3554	1573	1781	3513	104	
Grp Volume(v), veh/h	77	0	0	91	0	24	31	479	167	33	187	194	
Grp Sat Flow(s),veh/h/lr	า1655	0	0	1781	0	1454	1781	1777	1573	1781	1777	1840	
Q Serve(g_s), s	7.8	0.0	0.0	4.3	0.0	2.7	1.4	9.6	7.3	3.3	17.6	17.8	
Cycle Q Clear(g_c), s	7.8	0.0	0.0	4.3	0.0	2.7	1.4	9.6	7.3	3.3	17.6	17.8	
Prop In Lane	0.40		0.40	1.00		1.00	1.00		1.00	1.00		0.06	
Lane Grp Cap(c), veh/h	184	0	0	350	0	143	973	2341	1036	42	233	241	
V/C Ratio(X)	0.42	0.00	0.00	0.26	0.00	0.17	0.03	0.20	0.16	0.78	0.80	0.81	
Avail Cap(c_a), veh/h	387	0	0	695	0	284	973	2341	1036	174	649	672	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00	
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	1.00	0.98	0.98	0.98	0.99	0.99	0.99	
Uniform Delay (d), s/veł		0.0	0.0	75.1	0.0	74.4	18.8	12.1	11.7	85.2	64.2	64.2	
Incr Delay (d2), s/veh	1.5	0.0	0.0	0.1	0.0	0.2	0.0	0.2	0.3	10.6	24.2	24.0	
Initial Q Delay(d3),s/veh	n 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh		0.0	0.0	2.0	0.0	1.0	0.6	3.9	2.7	1.6	8.7	9.0	
Unsig. Movement Delay		1											
LnGrp Delay(d),s/veh	76.1	0.0	0.0	75.3	0.0	74.6	18.8	12.3	12.0	95.8	88.3	88.2	
LnGrp LOS	E	A	A	E	A	E	В	В	В	F	F	F	
Approach Vol, veh/h		77			115			677			414		
Approach Delay, s/veh		76.1			75.1			12.5			88.9		
Approach LOS		E			E			B			F		
••	1	2		Λ		6		8					
Timer - Assigned Phs	0.07			4	102.7	6							
Phs Duration (G+Y+Rc)				24.9	103.7	28.9		22.6					
Change Period (Y+Rc),		5.3		4.9	5.3	* 5.3		4.9					
Max Green Setting (Gm		65.7		42.1	17.6	* 66		35.1					
Max Q Clear Time (g_c		11.6		9.8	3.4	19.8		6.3					
Green Ext Time (p_c), s	5 0.0	7.0		0.4	0.0	3.8		0.2					
Intersection Summary													
HCM 6th Ctrl Delay			46.6										
HCM 6th LOS			D										

User approved volume balancing among the lanes for turning movement.

User approved ignoring U-Turning movement.

	٠	<b>→</b>	¥	1	+	•	1	t	1	4	ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	1	4		٦	4		7	<b>≜</b> ↑₽		7	<b>≜</b> ↑₽		
Traffic Volume (veh/h)	60	0	220	0	0	0	120	610	0	0	370	20	
Future Volume (veh/h)	60	0	220	0	0	0	120	610	0	0	370	20	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		1.00	1.00		1.00	1.00		0.93	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac	ch	No			No			No			No		
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	74	0	272	0	0	0	128	649	0	0	398	22	
Peak Hour Factor	0.81	0.92	0.81	0.92	0.92	0.92	0.94	0.94	0.92	0.92	0.93	0.93	
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2	
Cap, veh/h	343	0	301	1	1	0	1031	2685	0	36	517	28	
Arrive On Green	0.19	0.00	0.19	0.00	0.00	0.00	0.58	0.76	0.00	0.00	0.15	0.15	
Sat Flow, veh/h	1781	0	1565	1781	1870	0	1781	3647	0	782	3409	188	
Grp Volume(v), veh/h	74	0	272	0	0	0	128	649	0	0	207	213	
Grp Sat Flow(s),veh/h/l	n1781	0	1565	1781	1870	0	1781	1777	0	782	1777	1820	
Q Serve(g_s), s	7.1	0.0	34.3	0.0	0.0	0.0	6.6	11.0	0.0	0.0	22.5	22.8	
Cycle Q Clear(g_c), s	7.1	0.0	34.3	0.0	0.0	0.0	6.6	11.0	0.0	0.0	22.5	22.8	
Prop In Lane	1.00		1.00	1.00		0.00	1.00		0.00	1.00		0.10	
Lane Grp Cap(c), veh/h	343	0	301	1	1	0	1031	2685	0	36	269	276	
V/C Ratio(X)	0.22	0.00	0.90	0.00	0.00	0.00	0.12	0.24	0.00	0.00	0.77	0.77	
Avail Cap(c_a), veh/h	525	0	461	159	167	0	1031	2685	0	149	528	540	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	0.98	0.00	0.98	0.00	0.00	0.00	0.09	0.09	0.00	0.00	0.99	0.99	
Uniform Delay (d), s/vel	h 68.7	0.0	79.7	0.0	0.0	0.0	19.3	7.4	0.0	0.0	82.2	82.3	
Incr Delay (d2), s/veh	0.4	0.0	16.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	7.1	
Initial Q Delay(d3),s/vel	n 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),vel		0.0	15.3	0.0	0.0	0.0	2.8	4.1	0.0	0.0	10.9	11.2	
Unsig. Movement Delay		1											
LnGrp Delay(d),s/veh	69.1	0.0	95.8	0.0	0.0	0.0	19.3	7.4	0.0	0.0	89.2	89.4	
LnGrp LOS	Е	А	F	А	А	А	В	А	А	А	F	F	
Approach Vol, veh/h		346			0			777			420		
Approach Delay, s/veh		90.1			0.0			9.4			89.3		
Approach LOS		F						A			F		
		2		Λ	F	6							
Timer - Assigned Phs	<b>\</b>			4	5	6		8					
Phs Duration (G+Y+Rc)		158.6		43.4		35.6		0.0					
Change Period (Y+Rc),		6.0		4.5	6.0	* 5		4.5					
Max Green Setting (Gr				59.5	47.0	* 60		18.0					
Max Q Clear Time (g_c		13.0		36.3	8.6	24.8		0.0					
Green Ext Time (p_c), s	S	8.1		2.6	0.2	4.0		0.0					
Intersection Summary													
HCM 6th Ctrl Delay			49.2										
HCM 6th LOS			D										

User approved volume balancing among the lanes for turning movement.

User approved ignoring U-Turning movement.

78: I-15 NB Off-ramp/I-15 NB On-ramp & Carroll Canyon Rd

timing Plan: PM PEAK

# ノーン・チャット イントナイ

		00.00	•	• <b>•</b>			<u>_</u>		· ·				
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	1	<b>^</b>			<b>†</b> ]-		1	4	1				
Traffic Volume (veh/h)	590	2030	0	0	1920	1000	200	10	870	0	0	0	
Future Volume (veh/h)	590	2030	0	0	1920	1000	200	10	870	0	0	0	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0				
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.97	1.00		1.00				
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00				
Work Zone On Approac		No			No			No					
Adj Sat Flow, veh/h/ln	1885	1885	0	0	1885	1885	1870	1870	1870				
Adj Flow Rate, veh/h	648	2231	0	0	2021	1053	547	0	3778				
Peak Hour Factor	0.91	0.91	0.91	0.95	0.95	0.95	0.25	0.25	0.25				
Percent Heavy Veh, %	1	1	0	0	1	1	2	2	2				
Cap, veh/h	364	2099	0	0	830	392	771	0	1372				
Arrive On Green	0.27	0.78	0.00	0.00	0.35	0.35	0.43	0.00	0.43				
Sat Flow, veh/h	1795	3676	0	0	2434	1103	1781	0	3170				
Grp Volume(v), veh/h	648	2231	0	0	1498	1576	547	0	3778				
Grp Sat Flow(s),veh/h/l	n1795	1791	0	0	1791	1652	1781	0	1585				
Q Serve(g_s), s	36.5	105.5	0.0	0.0	63.9	63.9	45.2	0.0	77.9				
Cycle Q Clear(g_c), s	36.5	105.5	0.0	0.0	63.9	63.9	45.2	0.0	77.9				
Prop In Lane	1.00		0.00	0.00		0.67	1.00		1.00				
Lane Grp Cap(c), veh/h	n 364	2099	0	0	636	586	771	0	1372				
V/C Ratio(X)	1.78	1.06	0.00	0.00	2.36	2.69	0.71	0.00	2.75				
Avail Cap(c_a), veh/h	364	2099	0	0	636	586	771	0	1372				
HCM Platoon Ratio	1.33	1.33	1.00	1.00	1.00	1.00	1.00	1.00	1.00				
Upstream Filter(I)	0.09	0.09	0.00	0.00	1.00	1.00	1.00	0.00	1.00				
Uniform Delay (d), s/ve	h 65.7	19.8	0.0	0.0	58.0	58.1	41.8	0.0	51.0				
Incr Delay (d2), s/veh		29.5	0.0	0.0	614.9	764.5	2.6	0.0	791.2				
Initial Q Delay(d3),s/vel		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
%ile BackOfQ(50%),vel		41.4	0.0	0.0	137.3	151.0	20.7	0.0	181.6				
Unsig. Movement Delay		1											
LnGrp Delay(d),s/veh		49.3	0.0	0.0	672.9	822.5	44.4	0.0	842.3				
LnGrp LOS	F	F	А	А	F	F	D	А	F				
Approach Vol, veh/h		2879			3074			4325					
Approach Delay, s/veh		132.2			749.6			741.4					
Approach LOS		F			F			F					
Timer - Assigned Phs		2			5	6		8					
Phs Duration (G+Y+Rc	). s	111.0			42.0	69.0		83.0					
Change Period (Y+Rc),		5.1			5.1	* 5.1		5.1					
Max Green Setting (Gr		91.9			23.3	* 64		77.9					
Max Q Clear Time (g_c					38.5	65.9		79.9					
Green Ext Time (p_c),		0.0			0.0	0.0		0.0					
Intersection Summary													
HCM 6th Ctrl Delay			573.2										
HCM 6th LOS			F										

## Notes

User approved volume balancing among the lanes for turning movement.

79: I-15 SB On-ramp/I-15 SB Off-ramp & Carroll Canyon Rd

timing Plan: PM PEAK

· * + + + * * * * * * * * + *	* + *
-------------------------------	-------

	0.000		· •				100			·••		
Movement EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	<b>†</b> ‡		٦	- 11					1	÷.	1	
Traffic Volume (veh/h) 0	2250	820	430	1860	0	0	0	0	170	10	590	
Future Volume (veh/h) 0	2250	820	430	1860	0	0	0	0	170	10	590	
Initial Q (Qb), veh 0	0	0	0	0	0				0	0	0	
Ped-Bike Adj(A_pbT) 1.00		0.98	1.00		1.00				1.00		1.00	
Parking Bus, Adj 1.00	1.00	1.00	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 0	1885	1885	1885	1885	0				1870	1870	1870	
Adj Flow Rate, veh/h 0	2296	837	439	1898	0				709	0	2360	
Peak Hour Factor 0.98	0.98	0.98	0.98	0.98	0.98				0.25	0.25	0.25	
Percent Heavy Veh, % 0	1	1	1	1	0				2	2	2	
Cap, veh/h 0	969	330	183	1789	0				1581	0	704	
Arrive On Green 0.00	0.49	0.49	0.20	1.00	0.00				0.44	0.00	0.44	
Sat Flow, veh/h 0	2703	889	1795	3676	0				3563	0	1585	
Grp Volume(v), veh/h 0	1526	1607	439	1898	0				709	0	2360	
Grp Sat Flow(s),veh/h/ln 0	1791	1706	1795	1791	0				1781	0	1585	
Q Serve(g_s), s 0.0	66.9	66.9	18.3	89.9	0.0				24.9	0.0	79.9	
Cycle Q Clear( $g_c$ ), s 0.0	66.9	66.9	18.3	89.9	0.0				24.9	0.0	79.9	
Prop In Lane 0.00	00.0	0.52	1.00	00.0	0.00				1.00	0.0	1.00	
Lane Grp Cap(c), veh/h 0	666	634	183	1789	0.00				1581	0	704	
V/C Ratio(X) 0.00	2.29	2.53	2.41	1.06	0.00				0.45	0.00	3.35	
Avail Cap(c_a), veh/h 0	666	634	183	1789	0.00				1581	0.00	704	
HCM Platoon Ratio 1.00	1.33	1.33	2.00	2.00	1.00				1.00	1.00	1.00	
Upstream Filter(I) 0.00	0.09	0.09	0.09	0.09	0.00				1.00	0.00	1.00	
Uniform Delay (d), s/veh 0.0	45.5	45.5	71.7	0.00	0.0				34.7	0.0	50.0	
	582.3	690.5	633.8	28.9	0.0				0.1		1063.0	
Initial Q Delay(d3),s/veh 0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0	
%ile BackOfQ(50%),veh/lr0.0			39.8	7.2	0.0				11.0		239.3	
Unsig. Movement Delay, s/ver		110.1	00.0	1.2	0.0				11.0	0.0	200.0	
	627.8	736.0	705.5	29.0	0.0				34.8	0.0 /	1113.1	
LnGrp LOS A	627.0	700.0 F	F	20.0 F	A				0.+0 C	0.0 A	F	
Approach Vol, veh/h	3133			2337					Ŭ	3069		
Approach Delay, s/veh	683.3			156.1						864.0		
Approach LOS	003.5 F			130.1 F						604.0 F		
Timer - Assigned Phs 1	2		4		6							
Phs Duration (G+Y+Rc), \$3.0	72.0		85.0		95.0							
Change Period (Y+Rc), st 4.7	5.1		5.1		5.1							
Max Green Setting (Gmax)18	66.9		79.9		89.9							
Max Q Clear Time (g_c+20,3s	68.9		81.9		91.9							
Green Ext Time (p_c), s 0.0	0.0		0.0		0.0							
Intersection Summary												
HCM 6th Ctrl Delay		604.0										
HCM 6th LOS		004.0 F										
		Г										
Notes												

Notes

User approved volume balancing among the lanes for turning movement. * HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

## Intersection

Int Delay, s/veh	52.2					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		***	<b>^</b>	1		1
Traffic Vol, veh/h	0	3990	1680	150	0	420
Future Vol, veh/h	0	3990	1680	150	0	420
Conflicting Peds, #/hr	2	0	0	2	1	3
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	50	-	-
Veh in Median Storage	,# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	96	96	97	97	74	74
Heavy Vehicles, %	7	7	7	7	2	2
Mvmt Flow	0	4156	1732	155	0	568

Major/Minor	Major1	Ν	/lajor2	Minor	2		
Conflicting Flow All	-	0	-	0	- 871		
Stage 1	-	-	-	-			
Stage 2	-	-	-	-			
Critical Hdwy	-	-	-	-	- 7.14		
Critical Hdwy Stg 1	-	-	-	-			
Critical Hdwy Stg 2	-	-	-	-			
Follow-up Hdwy	-	-	-	-	- 3.92		
Pot Cap-1 Maneuver	0	-	-	- (	) ~ 253		
Stage 1	0	-	-	- (	) -		
Stage 2	0	-	-	- (	) -		
Platoon blocked, %		-	-	-			
Mov Cap-1 Maneuve	r -	-	-	-	- ~ 252		
Mov Cap-2 Maneuve	r -	-	-	-			
Stage 1	-	-	-	-			
Stage 2	-	-	-	-			
Approach	EB		WB	SE	}		
HCM Control Delay, s	s 0		0	\$ 607.4			
HCM LOS				F			
Minor Lane/Major Mv	mt	EBT	WBT	WBR SBLn	1		
Capacity (veh/h)	int			- 252			
HCM Lane V/C Ratio		-	-	- 2.252			
HCM Control Delay (		-	-	-\$ 607.4			
HCM Lane LOS	5/	-	_	-9007.2 - F			
HCM 95th %tile Q(ve	h)	-	-	- 44.3			
	11)	-	-	- 44.	,		
Notes							
~: Volume exceeds c	apacity	\$: De	lay exc	eeds 300s	+: Com	outation Not Defined	*: All major volume in platoon

	۶	7	1	t	Ŧ	~
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	3	1	3	<b>^</b>	<b>^</b>	1
Traffic Volume (veh/h)	1500	10	10	600	440	220
Future Volume (veh/h)	1500	10	10	600	440	220
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00	1.00	-	-	0.99
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	1870	1870	1870	1870
Adj Flow Rate, veh/h	1630	11	11	645	489	244
Peak Hour Factor	0.92	0.92	0.93	0.93	0.90	0.90
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	1357	1207	17	691	571	252
Arrive On Green	0.76	0.76	0.01	0.19	0.16	0.16
Sat Flow, veh/h	1781	1585	1781	3647	3647	1570
Grp Volume(v), veh/h	1630	11	11	645	489	244
Grp Sat Flow(s),veh/h/ln	1781	1585	1781	1777	1777	1570
Q Serve(g_s), s	137.1	0.3	1.1	32.2	24.1	27.8
Cycle Q Clear(g_c), s	137.1	0.3	1.1	32.2	24.1	27.8
Prop In Lane	1.00	1.00	1.00			1.00
Lane Grp Cap(c), veh/h	1357	1207	17	691	571	252
V/C Ratio(X)	1.20	0.01	0.66	0.93	0.86	0.97
Avail Cap(c_a), veh/h	1357	1207	41	691	571	252
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	21.5	5.1	88.9	71.4	73.5	75.1
Incr Delay (d2), s/veh	98.0	0.0	15.0	21.3	15.3	48.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/In	88.3	0.7	0.6	16.5	12.0	14.4
Unsig. Movement Delay, s/ve						
LnGrp Delay(d),s/veh	119.4	5.1	103.9	92.7	88.8	124.0
LnGrp LOS	F	A	F	F	F	F
Approach Vol, veh/h	1641			656	733	
Approach Delay, s/veh	118.6			92.9	100.5	
Approach LOS	F			52.5 F	100.5 F	
	1				1	
Timer - Assigned Phs		2		4	5	6
Phs Duration (G+Y+Rc), s		41.5		142.0	6.1	35.4
Change Period (Y+Rc), s		* 6.4		4.9	4.4	6.4
Max Green Setting (Gmax), s	S	* 32		137.1	4.1	23.1
Max Q Clear Time (g_c+I1),		34.2		139.1	3.1	29.8
Green Ext Time (p_c), s		0.0		0.0	0.0	0.0
Intersection Summary			100 -			
HCM 6th Ctrl Delay			108.7			
HCM 6th LOS			F			
Notes						

	٨	+	1	1	ł	•	1	t	1	1	ţ	4	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	٦	4	1	1	•	1	<u>አ</u> ካ	***		2	***	1	
Traffic Volume (veh/h)	240	10	110	40	0	40	20	1860	80	80	980	30	
Future Volume (veh/h)	240	10	110	40	0	40	20	1860	80	80	980	30	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.98	1.00		0.99	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No			No			No			No		
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	397	0	109	160	0	160	21	1918	82	93	1140	35	
Peak Hour Factor	0.70	0.70	0.70	0.25	0.25	0.25	0.97	0.97	0.97	0.86	0.86	0.86	
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2	
Cap, veh/h	473	0	211	188	198	168	58	2589	110	117	2952	904	
Arrive On Green	0.13	0.00	0.13	0.11	0.00	0.11	0.02	0.52	0.52	0.07	0.58	0.58	
Sat Flow, veh/h	3563	0	1585	1781	1870	1585	3456	5017	214	1781	5106	1564	
Grp Volume(v), veh/h	397	0	109	160	0	160	21	1300	700	93	1140	35	
Grp Sat Flow(s),veh/h/li	n1781	0	1585	1781	1870	1585	1728	1702	1826	1781	1702	1564	
Q Serve(g_s), s	12.9	0.0	7.6	10.5	0.0	11.9	0.7	35.4	35.6	6.1	14.4	1.1	
Cycle Q Clear(g_c), s	12.9	0.0	7.6	10.5	0.0	11.9	0.7	35.4	35.6	6.1	14.4	1.1	
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.12	1.00		1.00	
Lane Grp Cap(c), veh/h		0	211	188	198	168	58	1757	943	117	2952	904	
V/C Ratio(X)	0.84	0.00	0.52	0.85	0.00	0.95	0.36	0.74	0.74	0.80	0.39	0.04	
Avail Cap(c_a), veh/h	996	0	443	545	572	485	123	2254	1209	190	3743	1146	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/vel		0.0	47.8	52.0	0.0	52.7	57.6	22.4	22.5	54.6	13.6	10.8	
Incr Delay (d2), s/veh	1.6	0.0	0.7	4.1	0.0	11.6	1.4	1.1	2.0	4.7	0.1	0.0	
Initial Q Delay(d3),s/vel		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh		0.0	3.0	4.9	0.0	5.3	0.3	13.0	14.3	2.8	5.0	0.4	
Unsig. Movement Delay									• • -				
LnGrp Delay(d),s/veh	51.7	0.0	48.5	56.1	0.0	64.2	59.0	23.5	24.5	59.2	13.7	10.8	
LnGrp LOS	D	A	D	E	A	<u> </u>	E	С	С	E	B	В	
Approach Vol, veh/h		506			320			2021			1268		
Approach Delay, s/veh		51.0			60.2			24.2			16.9		
Approach LOS		D			E			С			В		
Timer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Rc)	), \$3.7	67.1		20.6	6.4	74.5		16.9					
Change Period (Y+Rc),	s 6.0	* 6		4.9	4.4	6.0		4.4					
Max Green Setting (Gm	na <b>%2,.6</b>	* 78		33.1	4.2	86.8		36.2					
Max Q Clear Time (g_c		37.6		14.9	2.7	16.4		12.5					
Green Ext Time (p_c), s	s 0.0	23.5		0.9	0.0	11.0		0.1					
Intersection Summary													
HCM 6th Ctrl Delay			28.1										
HCM 6th LOS			С										

User approved volume balancing among the lanes for turning movement.

User approved ignoring U-Turning movement.

	۲	<b>→</b>	7	4	+	*	1	t	1	4	ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	24	ħ	1	ኘኘ	f,		<b>አ</b> ካ	***	1	7	<b>*</b>		
Traffic Volume (veh/h)	30	10	260	140	10	50	20	2130	130	160	980	10	
Future Volume (veh/h)	30	10	260	140	10	50	20	2130	130	160	980	10	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.99	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac	ch	No			No			No			No		
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	46	0	409	152	11	54	21	2266	134	182	1077	11	
Peak Hour Factor	0.65	0.75	0.65	0.92	0.92	0.92	0.94	0.94	0.97	0.88	0.91	0.91	
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2	
Cap, veh/h	286	0	510	4	0	2	64	3604	1119	2	3275	33	
Arrive On Green	0.16	0.00	0.16	0.00	0.00	0.00	0.02	0.71	0.71	0.00	0.63	0.63	
Sat Flow, veh/h	1781	0	3170	3456	275	1352	3456	5106	1585	1781	5211	53	
Grp Volume(v), veh/h	46	0	409	152	0	65	21	2266	134	182	703	385	
Grp Sat Flow(s), veh/h/l		0	1585	1728	0	1627	1728	1702	1585	1781	1702	1860	
Q Serve(g_s), s	1.8	0.0	10.2	0.1	0.0	0.1	0.5	19.2	2.2	0.1	7.9	7.9	
Cycle Q Clear(g_c), s	1.8	0.0	10.2	0.1	0.0	0.1	0.5	19.2	2.2	0.1	7.9	7.9	
Prop In Lane	1.00	0.0	1.00	1.00	0.0	0.83	1.00	10.2	1.00	1.00	1.5	0.03	
Lane Grp Cap(c), veh/h		0	510	4	0	2	64	3604	1119	2	2139	1169	
V/C Ratio(X)	0.16	0.00	0.80	35.95	0.00	32.65	0.33	0.63	0.12	83.50	0.33	0.33	
Avail Cap(c_a), veh/h	785	0.00	1396	761	0.00	358	169	5185	1610	109	4240	2317	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/vel		0.00	33.0	40.9	0.00	40.9	39.6	6.4	3.9	40.9	7.1	7.1	
Incr Delay (d2), s/veh	0.1	0.0		5820.9		4441.0	1.1	0.4		7944.2	0.1	0.2	
Initial Q Delay(d3),s/vel		0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.2	
%ile BackOfQ(50%),vel		0.0	3.9	9.3	0.0	8.0	0.0	4.0	0.0	23.0	2.1	2.3	
Unsig. Movement Delay			5.9	9.0	0.0	0.0	0.2	4.0	0.4	20.0	Ζ.Ι	2.5	
LnGrp Delay(d),s/veh	29.6	0.0	2/ 3/	5861.8	0.0	4481.9	40.7	6.6	2 (D)	7985.0	7.2	7.3	
LIGIP Delay(d), s/vell	29.0 C	0.0 A	54.⊿: C	F	A U.U.	+401.9 F	40.7 D	0.0 A	3.30 A	F 1965.0	7.2 A	7.3 A	
	U		U	Г		Г	U		А	Г		А	
Approach Vol, veh/h		455		4 1	217			2421			1270		
Approach Delay, s/veh		33.7		T	5448.4			6.7			5449.7		
Approach LOS		С			F			A			F		
Timer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Rc)		63.7		18.0	5.9	57.8		0.0					
Change Period (Y+Rc),		* 6		4.9	4.4	6.4		4.5					
Max Green Setting (Gr		* 83		36.0	4.0	101.8		18.0					
Max Q Clear Time (g_c	+110),0s	21.2		12.2	2.5	9.9		0.0					
Green Ext Time (p_c), s	s 0.0	36.5		1.0	0.0	9.1		0.0					
Intersection Summary													
HCM 6th Ctrl Delay		2	2361.9										
HCM 6th LOS			F										
Notes													
User approved pedestri	ian into	rval to k		than nh	ase ma		1						
User approved volume						-							

User approved volume balancing among the lanes for turning movement. User approved ignoring U-Turning movement.

	٠	<b>→</b>	7	4	+	*	1	t	1	4	ţ	4	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		4		٢	4		24	<b>^</b>	1	7	<b>^</b>	1	
Traffic Volume (veh/h)	90	40	90	190	20	350	20	1770	140	210	930	20	
Future Volume (veh/h)	90	40	90	190	20	350	20	1770	140	210	930	20	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.98	1.00		0.98	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac	:h	No			No			No			No		
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	155	69	155	213	22	393	22	1967	156	221	979	21	
Peak Hour Factor	0.58	0.58	0.58	0.89	0.89	0.89	0.90	0.90	0.90	0.95	0.95	0.95	
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2	
Cap, veh/h	163	73	163	254	12	216	313	1497	653	164	1183	515	
Arrive On Green	0.23	0.23	0.23	0.14	0.14	0.14	0.35	0.84	0.84	0.09	0.33	0.33	
Sat Flow, veh/h	699	311	699	1781	85	1513	1781	3554	1550	1781	3554	1546	
Grp Volume(v), veh/h	379	0	0	213	0	415	22	1967	156	221	979	21	
Grp Sat Flow(s), veh/h/lr		0	0	1781	0	1598	1781	1777	1550	1781	1777	1546	
Q Serve(g_s), s	39.3	0.0	0.0	21.0	0.0	25.7	1.5	75.8	3.6	16.6	45.7	1.7	
Cycle Q Clear(g_c), s	39.3	0.0	0.0	21.0	0.0	25.7	1.5	75.8	3.6	16.6	45.7	1.7	
Prop In Lane	0.41	0.0	0.41	1.00	0.0	0.95	1.00	10.0	1.00	1.00	10.1	1.00	
Lane Grp Cap(c), veh/h		0	0	254	0	228	313	1497	653	164	1183	515	
V/C Ratio(X)	0.95	0.00	0.00	0.84	0.00	1.82	0.07	1.31	0.24	1.35	0.83	0.04	
Avail Cap(c_a), veh/h	428	0.00	0.00	254	0	228	313	1497	653	164	1635	711	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	1.00	0.31	0.31	0.31	1.00	1.00	1.00	
Uniform Delay (d), s/vel		0.0	0.0	75.1	0.0	77.2	48.6	14.2	8.5	81.7	55.3	40.6	
Incr Delay (d2), s/veh	29.6	0.0	0.0	22.1	0.0	385.3	0.0	142.7	0.3	190.3	6.7	0.1	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh		0.0	0.0	11.1	0.0	34.9	0.7	35.6	1.2	16.2	21.1	0.7	
Unsig. Movement Delay			0.0		0.0	04.0	0.1	00.0	1.4	10.2		0.1	
LnGrp Delay(d),s/veh	97.6	0.0	0.0	97.3	0.0	462.4	48.6	156.8	8.7	272.0	62.0	40.8	
LnGrp LOS	57.0 F	0.0 A	0.0 A	57.5 F	0.0 A	402.4 F	40.0 D	F	0.7 A	272.0 F	02.0 E	40.0 D	
Approach Vol, veh/h		379	73		628		0	2145			1221	0	
Approach Delay, s/veh		97.6			338.6			145.0			99.6		
Approach LOS		97.0 F			556.0 F			145.0 F			99.0 F		
	4			4		~					Г		
Timer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Rc)		81.1		46.9	36.9	65.2		31.0					
Change Period (Y+Rc),		5.3		4.9	5.3	* 5.3		5.3					
Max Green Setting (Gm		72.7		45.1	6.5	* 83		25.7					
Max Q Clear Time (g_c		77.8		41.3	3.5	47.7		27.7					
Green Ext Time (p_c), s	s 0.0	0.0		0.6	0.0	12.3		0.0					
Intersection Summary													
HCM 6th Ctrl Delay			156.0										
HCM 6th LOS			F										
Natao													

User approved volume balancing among the lanes for turning movement.

User approved ignoring U-Turning movement.

	-+	>	1	+	•	-	
Mayamant	- FDT						
Movement	EBT	EBR	WBL	WBT	NBL	NBR	
Lane Configurations	<b>†</b>	400	<b>`</b>		170	1	
Traffic Volume (veh/h)	700	100	10	1360	470	20	
Future Volume (veh/h)	700	100	10	1360	470	20	
Initial Q (Qb), veh	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)		0.98	1.00		1.00	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac	h No			No	No		
Adj Sat Flow, veh/h/ln	1885	1885	1885	1885	1870	1870	
Adj Flow Rate, veh/h	761	109	11	1528	553	24	
Peak Hour Factor	0.92	0.92	0.89	0.89	0.85	0.85	
Percent Heavy Veh, %	1	1	1	1	2	2	
Cap, veh/h	848	121	622	2194	572	509	
Arrive On Green	0.54	0.54	0.31	0.61	0.32	0.32	
Sat Flow, veh/h	3229	449	1795	3676	1781	1585	
Grp Volume(v), veh/h	435	435	11	1528	553	24	
		1793	1795	1791	1781	1585	
Grp Sat Flow(s),veh/h/li							
Q Serve(g_s), s	38.9	39.0	0.0	51.9	55.0	1.9	
Cycle Q Clear(g_c), s	38.9	39.0	0.0	51.9	55.0	1.9	
Prop In Lane	105	0.25	1.00	0404	1.00	1.00	
Lane Grp Cap(c), veh/h		485	622	2194	572	509	
V/C Ratio(X)	0.90	0.90	0.02	0.70	0.97	0.05	
Avail Cap(c_a), veh/h	771	772	622	2194	803	714	
HCM Platoon Ratio	2.00	2.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	0.09	0.09	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/vel	h 39.0	39.1	38.5	23.6	60.1	42.1	
Incr Delay (d2), s/veh	2.7	2.8	0.0	1.9	17.7	0.0	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh		13.8	0.3	21.7	27.4	0.7	
Unsig. Movement Delay			•.•			•	
LnGrp Delay(d),s/veh	41.8	41.8	38.5	25.4	77.8	42.1	
LnGrp LOS	D	D	D	C	E	D	
Approach Vol, veh/h	870			1539	577		
Approach Delay, s/veh				25.5	76.4		
11 27	_			-	_		
Approach LOS	D			С	E		
Timer - Assigned Phs	1	2				6	
Phs Duration (G+Y+Rc)	61.5	54.7				116.3	
Change Period (Y+Rc),		* 6				6.0	
Max Green Setting (Gm		* 78				87.0	
Max Q Clear Time (g_c		41.0				53.9	
Green Ext Time (p_c), s		7.7				17.8	
Green $Lxt$ mine ( $p_0$ ), a	5 0.0	1.1				17.0	
Intersection Summary							
HCM 6th Ctrl Delay			40.1				
HCM 6th LOS			D				

	۶	<b>→</b>	7	4	+	•	1	t	1	4	ŧ	4	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	7	1	1	1	1	1		4			4		
Traffic Volume (veh/h)	10	420	10	10	150	50	10	10	30	330	10	20	
Future Volume (veh/h)	10	420	10	10	150	50	10	10	30	330	10	20	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		0.98	1.00		0.98	1.00		1.00	1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No			No			No			No		
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	11	483	11	12	183	61	11	11	33	471	14	29	
Peak Hour Factor	0.87	0.87	0.87	0.82	0.82	0.82	0.90	0.90	0.90	0.70	0.70	0.70	
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2	
Cap, veh/h	584	1050	870	409	1050	869	146	152	412	529	15	30	
Arrive On Green	0.56	0.56	0.56	0.19	0.19	0.19	0.38	0.38	0.38	0.38	0.38	0.38	
Sat Flow, veh/h	1136	1870	1550	903	1870	1547	321	400	1082	1288	38	79	
Grp Volume(v), veh/h	11	483	11	12	183	61	55	0	0	514	0	0	
Grp Sat Flow(s),veh/h/l	n1136	1870	1550	903	1870	1547	1803	0	0	1406	0	0	
Q Serve(g_s), s	0.9	27.5	0.6	2.1	14.8	5.9	0.0	0.0	0.0	60.4	0.0	0.0	
Cycle Q Clear(g_c), s	15.7	27.5	0.6	29.6	14.8	5.9	3.8	0.0	0.0	64.2	0.0	0.0	
Prop In Lane	1.00		1.00	1.00		1.00	0.20		0.60	0.92		0.06	
Lane Grp Cap(c), veh/h	n 584	1050	870	409	1050	869	710	0	0	573	0	0	
V/C Ratio(X)	0.02	0.46	0.01	0.03	0.17	0.07	0.08	0.00	0.00	0.90	0.00	0.00	
Avail Cap(c_a), veh/h	584	1050	870	409	1050	869	944	0	0	778	0	0	
HCM Platoon Ratio	1.00	1.00	1.00	0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	1.00	1.00	0.93	0.93	0.93	1.00	0.00	0.00	1.00	0.00	0.00	
Uniform Delay (d), s/ve	h 24.7	23.3	17.4	56.1	38.2	34.5	35.7	0.0	0.0	53.9	0.0	0.0	
Incr Delay (d2), s/veh	0.1	1.5	0.0	0.1	0.3	0.1	0.0	0.0	0.0	8.6	0.0	0.0	
Initial Q Delay(d3),s/vel	h 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),ve	h/In0.3	12.4	0.2	0.5	7.6	2.3	1.6	0.0	0.0	24.1	0.0	0.0	
Unsig. Movement Delay	y, s/veh												
LnGrp Delay(d),s/veh	24.7	24.8	17.5	56.3	38.5	34.7	35.7	0.0	0.0	62.5	0.0	0.0	
LnGrp LOS	С	С	В	Е	D	С	D	А	А	Е	А	А	
Approach Vol, veh/h		505			256			55			514		
Approach Delay, s/veh		24.6			38.4			35.7			62.5		
Approach LOS		С			D			D			Е		
Timer - Assigned Phs		2		4		6		8					
Phs Duration (G+Y+Rc		106.6		73.4		106.6		73.4					
Change Period (Y+Rc),		* 5.5		4.9		5.5		4.9					
Max Green Setting (Gr		* 75		95.1		74.5		95.1					
Max Q Clear Time (g_c		29.5		66.2		31.6		5.8					
Green Ext Time (p_c),		29.5		2.4		1.2		0.2					
, , , , , , , , , , , , , , , , , , ,	5	2.0		2.7		1.2		0.2					
Intersection Summary													
HCM 6th Ctrl Delay			42.4										
HCM 6th LOS			D										

	٠	-	7	*	-	*	1	Ť	1	4	ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		4			र्स	1	٦	1	1	٦	1	1	
Traffic Volume (veh/h)	0	0	0	90	0	10	10	140	50	10	520	0	
Future Volume (veh/h)	0	0	0	90	0	10	10	140	50	10	520	0	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	0.99		0.99	1.00		0.98	1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac	h	No			No			No			No		
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	0	0	0	127	0	14	12	169	60	12	605	0	
Peak Hour Factor	0.50	0.50	0.50	0.71	0.71	0.71	0.83	0.83	0.83	0.86	0.86	0.86	
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2	
Cap, veh/h	0	1	0	150	0	133	18	1563	1429	18	1563	1324	
Arrive On Green	0.00	0.00	0.00	0.08	0.00	0.08	0.02	1.00	1.00	0.01	0.84	0.00	
Sat Flow, veh/h	0	1870	0	1769	0	1566	1781	1870	1549	1781	1870	1585	
Grp Volume(v), veh/h	0	0	0	127	0	14	12	169	60	12	605	0	
Grp Sat Flow(s), veh/h/li		1870	0	1769	0	1566	1781	1870	1549	1781	1870	1585	
Q Serve(g_s), s	0.0	0.0	0.0	12.7	0.0	1.5	1.2	0.0	0.0	1.2	14.2	0.0	
Cycle Q Clear(g_c), s	0.0	0.0	0.0	12.7	0.0	1.5	1.2	0.0	0.0	1.2	14.2	0.0	
Prop In Lane	0.00	0.0	0.00	1.00	0.0	1.00	1.00	0.0	1.00	1.00	17.2	1.00	
Lane Grp Cap(c), veh/h		1	0.00	150	0	133	18	1563	1429	18	1563	1324	
V/C Ratio(X)	0.00	0.00	0.00	0.85	0.00	0.11	0.67	0.11	0.04	0.67	0.39	0.00	
Avail Cap(c_a), veh/h	0.00	57	0.00	295	0.00	261	89	1563	1429	89	1563	1324	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00	
Upstream Filter(I)	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	
Uniform Delay (d), s/vel		0.00	0.0	81.2	0.0	76.0	87.9	0.0	0.0	88.8	3.6	0.0	
Incr Delay (d2), s/veh	0.0	0.0	0.0	4.9	0.0	0.1	15.0	0.0	0.0	15.0	0.7	0.0	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh		0.0	0.0	6.1	0.0	0.6	0.6	0.0	0.0	0.6	4.9	0.0	
Unsig. Movement Delay			0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	4.5	0.0	
LnGrp Delay(d),s/veh	0.0	0.0	0.0	86.1	0.0	76.2	102.9	0.1	0.1	103.8	4.3	0.0	
LnGrp LOS	0.0 A	0.0 A	0.0 A	50.1 F	0.0 A	70.2 E	102.9 F	A	0.1 A	103.0 F	4.3 A	0.0 A	
Approach Vol, veh/h	~	0	~	1	141	<u> </u>	Ľ	241	<u></u>	Ľ	617	~	
		0.0			85.1			24 I 5.2			6.3		
Approach Delay, s/veh		0.0			85.1 F			5.2 A			6.3 A		
Approach LOS					F			A			A		
Timer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Rc)	), s5.8	154.9		0.0	5.8	154.9		19.3					
Change Period (Y+Rc),		4.5		4.0	4.0	4.5		4.0					
Max Green Setting (Gm		119.0		5.5	9.0	119.0		30.0					
Max Q Clear Time (g_c		2.0		0.0	3.2	16.2		14.7					
Green Ext Time (p_c), s		1.2		0.0	0.0	4.6		0.4					
Intersection Summary													
HCM 6th Ctrl Delay			17.1										
HCM 6th LOS			B										
			U										

	٠	-	7	-	+	*	1	Ť	1	4	ŧ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	۲	1	1	٦	1	1	à	<b>^</b>	1	A	<b>^</b>	1	
Traffic Volume (veh/h)	10	70	40	230	60	60	50	210	240	250	380	10	
Future Volume (veh/h)	10	70	40	230	60	60	50	210	240	250	380	10	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	0.99	v	0.98	0.99	v	0.99	1.00	v	0.97	1.00	v	0.96	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No	1.00	1.00	No	1.00	1.00	No	1.00	1.00	No	1.00	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1811	1811	1811	1525	1811	1811	
Adj Flow Rate, veh/h	13	91	52	245	64	64	54	228	261	266	404	11	
Peak Hour Factor	0.77	0.77	0.77	0.94	0.94	0.94	0.92	0.92	0.92	0.94	0.94	0.94	
Percent Heavy Veh, %	2	2	2	2	2	2	6	6	6	6	6	6	
Cap, veh/h	463	554	460	445	554	466	69	834	362	307	1425	612	
Arrive On Green	0.30	0.30	0.30	0.30	0.30	0.30	0.04	0.24	0.24	0.21	0.41	0.41	
Sat Flow, veh/h	1255	1870	1554	1239	1870	1574	1725	3441	1494	1452	3441	1479	
Grp Volume(v), veh/h	13	91	52	245	64	64	54	228	261	266	404	11	
Grp Sat Flow(s),veh/h/l		1870	1554	1239	1870	1574	1725	1721	1494	1452	1721	1479	
Q Serve(g_s), s	0.4	2.1	1.4	10.7	1.5	1.8	1.8	3.2	9.4	10.4	4.6	0.3	
Cycle Q Clear(g_c), s	1.9	2.1	1.4	12.8	1.5	1.8	1.8	3.2	9.4	10.4	4.6	0.3	
Prop In Lane	1.00	1	1.00	1.00	4	1.00	1.00	00.4	1.00	1.00	4405	1.00	
Lane Grp Cap(c), veh/h		554	460	445	554	466	69	834	362	307	1425	612	
V/C Ratio(X)	0.03	0.16	0.11	0.55	0.12	0.14	0.79	0.27	0.72	0.87	0.28	0.02	
Avail Cap(c_a), veh/h	795	1050	872	773	1050	883	531	1679	729	459	1709	734	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/ve		15.3	15.1	20.1	15.1	15.2	28.0	18.1	20.5	22.4	11.4	10.2	
Incr Delay (d2), s/veh	0.0	0.1	0.0	0.4	0.0	0.0	7.2	0.1	1.0	7.6	0.1	0.0	
Initial Q Delay(d3),s/vel		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),vel		0.9	0.5	2.9	0.6	0.6	0.8	1.1	3.0	3.7	1.4	0.1	
Unsig. Movement Delay													
LnGrp Delay(d),s/veh	15.8	15.4	15.1	20.5	15.1	15.2	35.1	18.1	21.5	29.9	11.6	10.2	
LnGrp LOS	В	В	В	С	В	В	D	В	С	С	В	В	
Approach Vol, veh/h		156			373			543			681		
Approach Delay, s/veh		15.3			18.6			21.4			18.7		
Approach LOS		В			В			С			В		
Timer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Rc	), <b>\$</b> 6.8	19.7		22.3	6.7	29.7		22.3					
Change Period (Y+Rc),		5.4		4.9	4.4	5.4		4.9					
Max Green Setting (Gr		28.7		33.0	18.1	29.2		33.0					
Max Q Clear Time (g_c		11.4		4.1	3.8	6.6		14.8					
Green Ext Time (p_c),		1.2		0.4	0.0	2.7		0.8					
Intersection Summary													
HCM 6th Ctrl Delay			19.2										
HCM 6th LOS			19.2 B										
			U										

User approved ignoring U-Turning movement.

	٠	+	7	4	+	•	1	t	1	4	ţ	4	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ኘኘ	1	1	5	t,		24	<b>^</b>	1	24	<b>^</b>	1	
Traffic Volume (veh/h)	360	80	100	10	20	60	30	1150	10	110	710	240	
Future Volume (veh/h)	360	80	100	10	20	60	30	1150	10	110	710	240	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.95	1.00		0.97	1.00		0.97	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac	h	No			No			No			No		
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1550	1841	1841	1841	1841	1841	
Adj Flow Rate, veh/h	387	86	108	11	22	67	33	1250	11	120	772	261	
Peak Hour Factor	0.93	0.93	0.93	0.89	0.89	0.89	0.92	0.92	0.92	0.92	0.92	0.92	
Percent Heavy Veh, %	2	2	2	2	2	2	4	4	4	4	4	4	
Cap, veh/h	434	387	318	17	34	105	40	1397	602	482	2279	988	
Arrive On Green	0.13	0.21	0.21	0.01	0.09	0.09	0.03	0.40	0.40	0.27	0.65	0.65	
Sat Flow, veh/h	3456	1870	1538	1781	391	1190	1476	3497	1507	1753	3497	1516	
Grp Volume(v), veh/h	387	86	108	11	0	89	33	1250	11	120	772	261	
Grp Sat Flow(s), veh/h/lr		1870	1538	1781	0	1581	1476	1749	1507	1753	1749	1516	
Q Serve(g_s), s	19.9	6.9	10.8	1.1	0.0	9.8	4.0	60.1	0.7	9.6	17.8	6.2	
Cycle Q Clear(g_c), s	19.9	6.9	10.8	1.1	0.0	9.8	4.0	60.1	0.7	9.6	17.8	6.2	
Prop In Lane	1.00	0.9	1.00	1.00	0.0	0.75	1.00	00.1	1.00	1.00	17.0	1.00	
_ane Grp Cap(c), veh/h		387	318	1.00	0	139	40	1397	602	482	2279	988	
V/C Ratio(X)	0.89	0.22	0.34	0.66	0.00	0.64	0.83	0.89	0.02	402	0.34	0.26	
		698	0.34 574	0.00		246	0.83	1397	602	482	2279	988	
Avail Cap(c_a), veh/h	856				0								
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Jniform Delay (d), s/veł		59.3	60.9	88.9	0.0	79.3	87.2	50.5	26.2	50.8	14.0	3.0	
Incr Delay (d2), s/veh	2.6	0.4	0.8	15.0	0.0	1.8	14.7	9.2	0.1	0.1	0.4	0.7	
nitial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh		3.4	4.4	0.6	0.0	4.1	1.7	27.7	0.3	4.3	7.1	4.3	
Jnsig. Movement Delay			C 4 7	100.0	0.0	04.4	104.0	F0 7	00.0	F0 0		07	
LnGrp Delay(d),s/veh	80.1	59.7	61.7		0.0	81.1	101.9	59.7	26.3	50.9	14.4	3.7	
_nGrp LOS	F	<u> </u>	E	F	<u>A</u>	F	F	E	С	D	B	A	
Approach Vol, veh/h		581			100			1294			1153		
Approach Delay, s/veh		73.7			83.6			60.5			15.8		
Approach LOS		E			F			E			В		
Fimer - Assigned Phs	1	2	3	4	5	6	7	8					
Phs Duration (G+Y+Rc)	54.7	77.1	6.1	42.2	9.3	122.5	27.5	20.7					
Change Period (Y+Rc),		* 5.2	4.4	4.9	4.4	5.2	4.9	* 4.9					
Max Green Setting (Gm		* 72	5.4	67.2	10.6	77.9	44.6	* 28					
Max Q Clear Time (g_c-		62.1	3.1	12.8	6.0	19.8	21.9	11.8					
Green Ext Time (p_c), s		6.5	0.0	1.3	0.0	10.0	0.7	0.3					
· · ·	0.1	0.0	0.0	1.3	0.0	10.0	0.7	0.5					
ntersection Summary			4= 0										
HCM 6th Ctrl Delay			47.2										
HCM 6th LOS			D										
Notes													

	٠	-	7	-	+	*	1	Ť	1	1	ŧ	∢_	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	5	1	1	3	4		A	<b>^</b>	1	5	1	1	
Traffic Volume (veh/h)	140	40	80	20	20	20	80	390	30	20	260	70	
Future Volume (veh/h)	140	40	80	20	20	20	80	390	30	20	260	70	
Initial Q (Qb), veh	0	0	0	0	0	0	0	000	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	U	0.99	1.00	U	0.99	1.00	U	0.96	1.00	U	0.93	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No	1.00	1.00	No	1.00	1.00	No	1.00	1.00	No	1.00	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1796	1870	1870	1796	
Adj Flow Rate, veh/h	165	47	94	30	30	30	86	419	32	22	286	77	
Peak Hour Factor	0.85	0.85	0.85	0.67	0.67	0.67	0.93	0.93	0.93	0.91	0.91	0.91	
	0.05	0.05	0.05	0.07	0.07	0.07	0.93	0.93	0.93	2	0.91	0.91	
Percent Heavy Veh, %	225	315	266	223	2 144	144	2 1141	536	221	1074	413	165	
Cap, veh/h													
Arrive On Green	0.17	0.17	0.17	0.17	0.17	0.17	0.21	0.05	0.05	0.60	0.12	0.12	
Sat Flow, veh/h	1337	1870	1577	1242	855	855	1781	3554	1466	1781	3554	1416	
Grp Volume(v), veh/h	165	47	94	30	0	60	86	419	32	22	286	77	
Grp Sat Flow(s),veh/h/lr		1870	1577	1242	0	1711	1781	1777	1466	1781	1777	1416	
Q Serve(g_s), s	21.8	3.9	9.5	3.8	0.0	5.4	7.0	21.0	3.8	0.9	13.9	9.1	
Cycle Q Clear(g_c), s	27.3	3.9	9.5	7.7	0.0	5.4	7.0	21.0	3.8	0.9	13.9	9.1	
Prop In Lane	1.00		1.00	1.00		0.50	1.00		1.00	1.00		1.00	
Lane Grp Cap(c), veh/h	225	315	266	223	0	288	1141	536	221	1074	413	165	
V/C Ratio(X)	0.73	0.15	0.35	0.13	0.00	0.21	0.08	0.78	0.14	0.02	0.69	0.47	
Avail Cap(c_a), veh/h	612	857	723	586	0	789	1141	1372	566	1074	987	393	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	0.33	0.33	0.33	1.00	1.00	1.00	
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	0.99	0.99	0.99	1.00	1.00	1.00	
Uniform Delay (d), s/vel	h 76.3	63.8	66.2	67.1	0.0	64.5	28.3	82.6	74.4	14.4	76.5	74.3	
Incr Delay (d2), s/veh	4.2	0.2	0.7	0.1	0.0	0.1	0.0	10.7	1.4	0.0	9.2	9.3	
Initial Q Delay(d3),s/veh	n 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh	n/In7.9	1.9	3.9	1.2	0.0	2.4	3.1	10.9	1.5	0.4	6.8	3.7	
Unsig. Movement Delay													
LnGrp Delay(d),s/veh	80.4	64.0	66.9	67.2	0.0	64.6	28.3	93.3	75.7	14.4	85.7	83.6	
LnGrp LOS	F	Е	Е	Е	А	Е	С	F	Е	В	F	F	
Approach Vol, veh/h		306			90			537			385		
Approach Delay, s/veh		73.8			65.5			81.8			81.2		
Approach LOS		E			E			F			F		
Timer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Rc)		32.7			119.3	25.9		34.8					
Change Period (Y+Rc),	s 4.0	5.5		4.5	4.0	5.0		* 4.5					
Max Green Setting (Gm		69.5		82.5	34.0	50.0		* 83					
Max Q Clear Time (g_c-	+112),9s	23.0		29.3	9.0	15.9		9.7					
Green Ext Time (p_c), s		4.2		1.0	0.1	2.4		0.3					
Intersection Summary													
HCM 6th Ctrl Delay			78.6										
HCM 6th LOS			E										
Notes													

## Intersection

Intersection Delay, s/ve204.9 Intersection LOS F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		4			4			4	<b>≜</b> t}		٦	<b>≜</b> ‡		
Traffic Vol, veh/h	10	50	20	140	40	160	0	20	40	160	810	260	10	
Future Vol, veh/h	10	50	20	140	40	160	0	20	40	160	810	260	10	
Peak Hour Factor	0.78	0.78	0.78	0.86	0.86	0.86	0.92	0.92	0.92	0.92	0.92	0.92	0.92	
Heavy Vehicles, %	2	2	2	2	2	2	6	6	6	6	6	6	6	
Mvmt Flow	13	64	26	163	47	186	0	22	43	174	880	283	11	
Number of Lanes	0	1	0	0	1	0	0	1	2	0	1	2	0	
Approach	EB			WB				NB			SB			
Opposing Approach	WB			EB				SB			NB			
Opposing Lanes	1			1				3			3			
Conflicting Approach Le	eft SB			NB				EB			WB			
Conflicting Lanes Left	3			3				1			1			
Conflicting Approach Ri	gh <b>t</b> NB			SB				WB			EB			
<b>Conflicting Lanes Right</b>	3			3				1			1			
HCM Control Delay	15.1			38.7				15.2			316.1			
HCM LOS	С			Е				С			F			

Lane	NBLn1	NBLn2	NBLn3	EBLn1V	VBLn1	SBLn1	SBLn2	SBLn3
Vol Left, %	100%	0%	0%	12%	41%	100%	0%	0%
Vol Thru, %	0%	100%	8%	62%	12%	0%	100%	90%
Vol Right, %	0%	0%	92%	25%	47%	0%	0%	10%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	20	27	173	80	340	810	173	97
LT Vol	20	0	0	10	140	810	0	0
Through Vol	0	27	13	50	40	0	173	87
RT Vol	0	0	160	20	160	0	0	10
Lane Flow Rate	22	29	188	103	395	880	188	105
Geometry Grp	7	7	7	7	7	7	7	7
Degree of Util (X)	0.051	0.064	0.38	0.234	0.812	1.868	0.373	0.206
Departure Headway (Hd)	9.439	8.913	8.234	9.519	8.465	7.638	7.122	7.047
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Сар	382	404	441	379	431	475	503	506
Service Time	7.139	6.613	5.934	7.219	6.165	5.42	4.903	4.829
HCM Lane V/C Ratio	0.058	0.072	0.426	0.272	0.916	1.853	0.374	0.208
HCM Control Delay	12.6	12.2	15.9	15.1	38.7	417	14.1	11.7
HCM Lane LOS	В	В	С	С	Е	F	В	В
HCM 95th-tile Q	0.2	0.2	1.7	0.9	7.4	56.4	1.7	0.8

	۶	<b>→</b>	7	1	+	٩	1	t	1	4	ţ	~	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	1	1	1	٦	ţ,		1	ţ,		3	4		
Traffic Volume (veh/h)	20	450	30	380	420	190	10	10	190	740	70	50	
Future Volume (veh/h)	20	450	30	380	420	190	10	10	190	740	70	50	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		0.96	1.00		0.97	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No			No			No			No		
Adj Sat Flow, veh/h/ln	1575	1870	1870	1870	1870	1870	1575	1870	1870	1870	1870	1870	
Adj Flow Rate, veh/h	22	495	33	452	500	226	11	11	216	787	74	53	
Peak Hour Factor	0.91	0.91	0.91	0.84	0.84	0.84	0.88	0.88	0.88	0.94	0.94	0.94	
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2	
Cap, veh/h	133	936	782	266	609	275	14	15	285	501	466	334	
Arrive On Green	0.17	0.17	0.17	0.50	0.50	0.50	0.01	0.19	0.19	0.47	0.78	0.78	
Sat Flow, veh/h	613	1870	1563	875	1216	550	1500	75	1466	1781	1001	717	
Grp Volume(v), veh/h	22	495	33	452	0	726	11	0	227	787	0	127	
Grp Sat Flow(s), veh/h/l		495	33 1563	452 875	0	1766	1500	0	1541	1781	0	1717	
Q Serve(g_s), s	6.2	43.6	3.2	46.5	0.0	62.8	1.3	0.0	25.0	50.6	0.0	3.4	
Cycle Q Clear(g_c), s		43.6	3.2	40.5 90.1	0.0	62.8	1.3	0.0	25.0	50.6	0.0	3.4	
	69.0	43.0			0.0			0.0		1.00	0.0	0.42	
Prop In Lane	1.00	020	1.00	1.00	0	0.31	1.00	٥	0.95		0		
Lane Grp Cap(c), veh/h		936	782	266	0	884	14	0	300	501	0	801	
V/C Ratio(X)	0.17	0.53	0.04	1.70	0.00	0.82	0.78	0.00	0.76	1.57	0.00	0.16	
Avail Cap(c_a), veh/h	133	936	782	266	0	884	58	0	300	501	0	801	
HCM Platoon Ratio	0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00	1.67	1.67	1.67	
Upstream Filter(I)	0.80	0.80	0.80	1.00	0.00	1.00	1.00	0.00	1.00	0.26	0.00	0.26	
Uniform Delay (d), s/ve		55.7	38.9	70.2	0.0	38.1	89.0	0.0	68.5	47.7	0.0	11.0	
Incr Delay (d2), s/veh	0.8	0.7	0.0	329.7	0.0	5.9	28.3	0.0	16.3	259.8	0.0	0.1	
Initial Q Delay(d3),s/vel		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),vel		22.3	1.3	36.9	0.0	28.7	0.6	0.0	11.3	56.6	0.0	1.3	
Unsig. Movement Delay			00.0	100.0			447.0	<u> </u>	0.1.0	007 5	• •		
LnGrp Delay(d),s/veh	97.3	56.4	38.9	400.0	0.0	44.0	117.2	0.0	84.8		0.0	11.1	
LnGrp LOS	F	E	D	F	Α	D	F	A	F	F	A	В	
Approach Vol, veh/h		550			1178			238			914		
Approach Delay, s/veh		57.0			180.6			86.3			266.4		
Approach LOS		E			F			F			F		
Timer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Rc)	).550	40.5		95.0	6.1	89.4		95.0					
Change Period (Y+Rc),		* 5.2		4.9	4.4	5.2		4.9					
Max Green Setting (Gr		* 25		90.1	7.0	68.4		90.1					
Max Q Clear Time (g_c		27.0		71.0	3.3	5.4		92.1					
Green Ext Time (p_c), s		0.0		5.4	0.0	1.4		0.0					
Intersection Summary													
HCM 6th Ctrl Delay			176.4										
HCM 6th LOS			170.4 F										
			Г										
Notes													