Draft EIR Appendices

UCSC MARINE SCIENCE CAMPUS CLRDP

Environmental Impact Report

SCH No. 2001112014

January 2004

Prepared for
University of California, Santa Cruz
Environmental Assessment Group



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CHAPTER 11

APPENDICES

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APPENDIX A

NOTICE OF PREPARATION

UNIVERSITY OF CALIFORNIA, SANTA CRUZ

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PHYSICAL PLANNING AND CONSTRUCTION

SANTA CRUZ, CALIFORNIA 95064

November 1, 2001

Terry Roberts State Clearinghouse 1400 Tenth Street Sacramento, CA 95814

CERTIFIED MAIL

NOTICE OF PREPARATION—ENVIRONMENTAL IMPACT REPORT (EIR)

Project Title:

Long Marine Laboratory Coastal Long Range Development Plan

Project Location:

University of California

County:

Santa Cruz

Project Description: The proposed project is a Coastal Long Range Development Plan (Coastal LRDP) for the 98-acre Long Marine Laboratory (LML) site located on the west side of the City of Santa Cruz (See Figure 1). LML, as part of the University of California Santa Cruz, has embarked on a planning program to provide for the expansion and enhancement of its research and education capabilities. Through this process the University plans to bring together distinguished scientists, educators, and students at a major new Marine Science Campus. The Coastal LRDP includes project goals, a description of the project program and space requirements, planning principles, a land use plan and illustrative concept plan, and plans and policies to provide for the physical development of LML over the next 20 years. (An LRDP identifies the physical development needed to achieve the mission and goals of University of California institutions. A Coastal LRDP is provided for under the California Coastal Act of 1976 and addresses additionally issues arising from coastal proximity. A Coastal LRDP is similar to a Local Coastal Program prepared by a local agency, in that once it is approved by the Coastal Commission, the University will be responsible for coastal permitting of future projects under the Coastal LRDP.)

The development of the Coastal LRDP program was based on a variety of factors, including: known demands on existing research facilities; projected increase in the number of UCSC-based marine biology faculty and the amount of research conducted; the desire to promote joint research in marine biology and increase opportunities for undergraduate, graduate, and post-doctoral research by allowing for affiliated research entities at LML; and the desire to continue to expand LML's commitment to community education by providing facilities for such educational programs. The Coastal LRDP program would provide for 250,000 square feet of Marine Research and Teaching Facilities, 11,000 square feet of Support and Ancillary Facilities, 30,000 of Equipment Storage and Maintenance Facilities, and approximately 100,000 square feet of short-term and rental Housing.

The Marine Research and Teaching Facilities program would provide for the following facilities planned for near-term implementation: Ocean Health Phase II, National Marine Fisheries Service Phase II, and a new facility for the U.S. Geological Survey. This program would also provide for long-term research facilities for the following: future LML expansion, USGS expansion, and facilities for other marine research and education uses.

The Support and Ancillary Facilities program would provide for a seminar auditorium, which would support academic seminars and lectures, as well as community education activities. Meeting rooms may also be provided to allow for small conferences and symposia to be conducted. A dining hall would be provided to reduce the need for on-site researchers, staff and students to leave campus for meals and to allow food service to be provided for seminars and lectures.

The Equipment Storage and Maintenance program would provide for a shared warehouse and equipment yard for LML and affiliated uses, which would continue to allow on-site outfitting of vessels and storage of expensive and sensitive equipment.

The Housing program would provide accommodations for the following: caretakers, visiting scientists, graduate students conducting research at LML, new faculty and researchers in marine research, precollege students attending Sea Camp, and K-12 teachers attending summer programs. The housing is intended to be integrally related with the coastal-dependent marine research and educational functions at LML. All of the housing would accommodate short-term uses, ranging from over-night stays for visiting scientists to transitional housing for new faculty and researchers. The types of accommodations planned include small for-lease 1-, 2-, and 3-bedroom townhouses or apartments (80 units), dorms (28 rooms with a total of approximately 140 beds), and visitor over-night accommodations (10 rooms).

The Coastal LRDP would allow for development in three distinct development zones located on the Lower Terrace, the Middle Terrace, and the Upper Terrace. The Lower Terrace would continue to serve as the focus of LML growth and expansion. The Middle Terrace, the largest of the three zones, would serve as the core of new development on the site. The Upper Terrace would be adaptable to a number of suitable uses within the LML campus and may provide an important flexible role for unanticipated and future program needs. The remainder of the property, not within the development zones, would be within resource protection zones established to protect the natural resources within those areas.

Project Site: The LML Coastal LRDP addresses 102 acres of land owned by UCSC. The property is located at the western edge of the City of Santa Cruz and consists of the Younger Lagoon Natural Reserve (25 acres), the existing LML complex (16 acres), and the mostly undeveloped upland site formerly known as Terrace Point (57 acres) (See Figure 2). The Younger Lagoon Natural Reserve (YLNR) is included in the University of California's Natural Reserve System and is managed as a habitat preserve for permanent protection. The YLNR is one of the few remaining natural coastal wetlands in Santa Cruz County. A great diversity of bird species is known or expected to occur there. Approximately 21 special-status bird species are known to forage in the YLNR as non-nesting species. A pair of saltmarsh common yellow throats, a CDFG Species of Special Concern, were observed showing nesting behavior in the reserve and may in fact be nesting in the YLNR. Tidewater gobies, a federal Endangered species and a CDFG Species of Special Concern, were found during 2000 surveys of the lagoon. Western red bats, a Western Bat Working Group "High Priority" species, are expected to roost in YLNR. Additionally, California redlegged frog (CRLF), a federal Threatened species, may occasionally move across the northern portion of the YLNR; however, the seasonal drainages that feed the YLNR are too ephemeral to support CRLF reproduction or non-reproductive rearing habitat. No other special-status wildlife species are expected to occur on this portion of the site. Additionally, no special-status plant species were identified in the YLNR during biotic surveys conducted during 2000 and 2001.

The original 16-acre development area for LML is located on the coastal terrace east of and immediately adjacent to the YLNR and west of McAllister Way. It is mostly separated from the reserve by a 10- to 12-foot high berm or fence. There is approximately 74,000 square feet of existing development in the original development area. The Ocean Health Building and the CDFG Marine Wildlife Center are the major facilities on this portion of the site. Remaining habitat on this portion of the site consists of primarily non-native grassland and ruderal vegetation. No special-status wildlife or plant species were observed on this portion of the site, nor would they be expected to occur here.

The eastern half of the site (previously known as the Terrace Point site) is mostly undeveloped except for the Seymour Marine Discovery Center located on the southern edge of the site and the National Marine Fisheries Service building located on a 2.5-acre federal inholding located in the center of the area. The undeveloped portion of the property consists primarily of non-native grassland habitat and coyote brush-scrub-grassland habitat. Seasonal wetlands also exist on this portion of the site. No special-status wildlife species were observed to be breeding or nesting on this portion of the site during these surveys. A pair of northern harriers, a CDFG Species of Special Concern, regularly forages over the site, and a white-tailed kite, a federally Protected species, was observed foraging. Additionally, California red-legged frog, a federal Threatened species, may occasionally move across the northern portion of the site; however, the seasonal wetlands on the site are too ephemeral to provide CRLF reproduction or non-reproductive rearing habitat. No other special-status wildlife species are expected to occur on this portion of the site. Additionally, no special-status plant species were identified during biotic surveys conducted during 2000 and 2001.

In compliance with State CEQA Guidelines and the University of California CEQA Handbook, this Notice of Preparation is hereby sent to inform you that the University of California, Santa Cruz is preparing a Draft Environmental Impact Report (EIR) on the above-named project. It is intended that the EIR would be a program EIR that would support the approval of the Coastal LRDP. The EIR would also provide project-specific coverage for approximately 3 to 6 near-term projects.

As Lead Agency we need to know the views of your agency as to the scope and content of the environmental information that is germane to your agency's statutory responsibilities in connection with the proposed project. The topics to be addressed in the EIR are: geology, soils and seismicity; hydrology and water quality; biological resources; visual quality; land use; population, employment, and housing; traffic, circulation, and parking; air quality; noise; public services; utilities; energy; and hazardous substances. Information on the anticipated scope of EIR analyses of these topics is attached to this NOP.

A Scoping Meeting will be held on November 14, 2001 between 6:00 PM and 8:00 PM, at the Seymour Marine Discovery Center at the Long Marine Laboratory. Parking will be available at the Seymour Marine Discovery Center parking lot. Public agencies and members of the public are encouraged to provide early input into the EIR process by attending this meeting or by responding in writing to this Notice of Preparation. Due to the time limits imposed by State law, your response must be sent at the earliest possible date, but not later than 30 days after receipt of this notice. Please designate a contact person in your agency and send your response to the address below.

Ann Bertken Environmental Assessment Group 515 Swift Street University of California Santa Cruz, CA 95060

Sincerely,

Ann Bertken Associate Planner

Enclosure

cc: A. James, Santa Cruz County Planning

M. Bocchicchio, U.C. Assistant Vice President

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UCSC CEQA Distribution List

FIGURE 1: PROJECT LOCATION

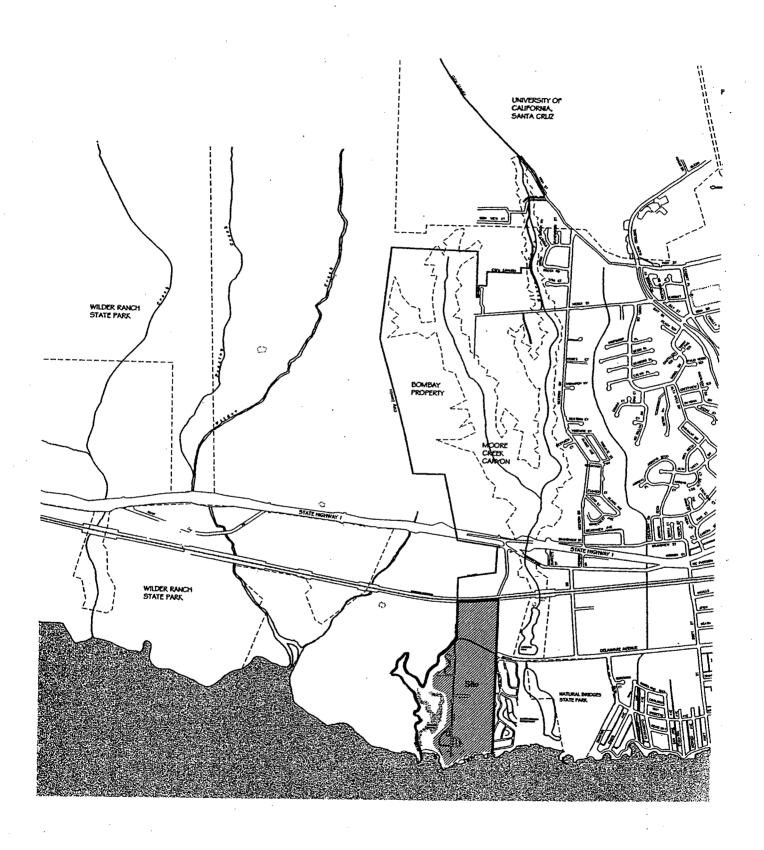
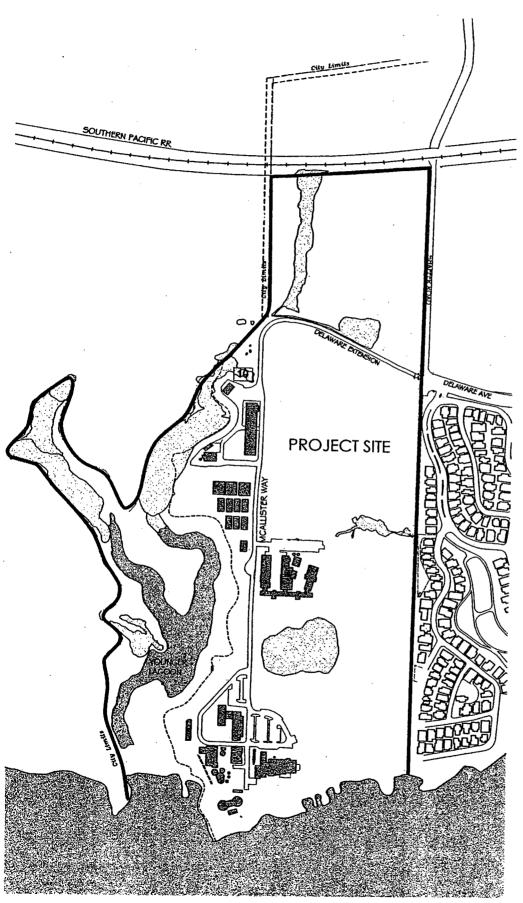
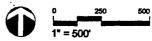




FIGURE 2: PROJECT SITE





PRELIMINARY EIR SCOPE LONG MARINE LABORATORY COASTAL LRDP EIR

The following is a preliminary description of the intended scope of EIR analyses for the Long Marine Laboratory Coastal Long Range Development Plan (CLRDP). It is being circulated to agencies and members of the public as an attachment to the Notice of Preparation (NOP) to allow these parties an opportunity to make specific and timely comments on the proposed content of the EIR. The scope of the EIR will be refined, taking these comments into consideration.

Geology and Soils

The project site is located in a seismically-active region of California on mudstone overlain by marine terrace deposits. Movement on regional faults is capable of producing substantial groundshaking at the LML site. The site is situated on a broad, flat-lying uplifted marine terrace truncated by an actively eroding vertical seacliff. The site is subject to coastal erosion and is identified as an area of "moderate risk" for cliff erosion in the City's General Plan. The site has shallow soils, areas of perched groundwater, and potential localized areas of high shrink-swell potential. Although liquefiable soils are likely not a concern due to competent materials underlying the site, some soils may exhibit expansive characteristics and could require special treatment.

Coastal erosion, seismic hazards, and static hazards will be fully evaluated in the LML CLRDP EIR using data provided by the 1992 Foxx, Nielsen Geologic and Coastal Erosion Study prepared for the former Terrace Point site, available maps and reports of the California Division of Mines and Geology (CDMG) and the U. S. Geological Survey (USGS), prior geotechnical studies of the property, local fault and seismic studies, and site reconnaissance. The 1992 Foxx, Nielsen Study will be thoroughly reviewed in light of changes in site conditions, analytical methods, and standards over the past 9 years and the findings of this report will be reviewed and verified.

Hydrology and Water Quality

Drainage in the project vicinity generally consists of overland flow into Younger Lagoon, the DeAnza Mobile Home Park, Antonelli Pond, and the ocean. A subsurface clay layer underlain by nearly impermeable mudstone results in somewhat poorly drained soils that often create perched groundwater conditions. Younger Lagoon is a small, relatively closed lagoon system. Water quality impacts in Younger Lagoon and the ocean could potentially occur due to project-related erosion and sedimentation and due to urban contaminants from project runoff, storm water discharge, and seawater system discharge. A reduction of stormwater flows into Younger Lagoon could also affect water quality conditions. Additionally, impervious surfaces, alteration of drainage patterns, and under-sized drainage-ways can result in localized flooding especially during peak rainfall periods.

Existing runoff volumes and project runoff volumes for two design storms will be estimated in the EIR using the Rational Method. Impacts associated with an increase in runoff volume (e.g., erosion and localized flooding due to under-sized drainage ways) will be identified and evaluated. Any changes in water quality with the implementation of the project will be identified and evaluated to determine whether water quality standards could be exceeded and/or whether Younger Lagoon and marine water quality could be adversely affected. Any changes in the quantity of storm water flows to Younger Lagoon will

be evaluated, as runoff from the site is a source of fresh water for the Lagoon. Additionally, marine water quality impacts from project stormwater discharge and from the intake and discharge of seawater from an expanded seawater system will also be evaluated. A previous study prepared by Kinnetics Laboratory (1993) for the expansion of the LML seawater system to 6,000 gpm will be the basis for analyzing marine water quality impacts associated with an expanded seawater system. The requirements for the development of a Stormwater Pollution Control Prevention Plan for construction on sites greater than five acres and compliance with NPDES requirements for seawater discharges will also be evaluated.

Biological Resources

The property is located at the western edge of the City of Santa Cruz and is composed of the Younger Lagoon Natural Reserve (25 acres), the existing LML complex (16 acres), and the mostly undeveloped upland site formerly known as Terrace Point (57 acres). As identified in the Notice of Preparation, the Younger Lagoon Natural Reserve (YLNR) is included in the University of California's Natural Reserve System and is managed as a habitat preserve for permanent protection. Based on review of biotic surveys conducted during the early and mid 1990's and surveys conducted during 2000-2001 in support of the LML CLRDP EIR, a variety of special-status species are known to occur or may occur in the YLNR, including approximately 22 bird species (1 of which may be nesting), tidewater goby, Western red bat, and California red-legged frog. Several special-status species are also know to occur or may occur on the undeveloped upland portion of the site, including northern harrier, white-tailed kite, and California red-legged frog. The seasonal drainages that feed the YLNR and the seasonal wetlands on the upland portion of the site are too ephemeral to support CRLF reproduction or non-reproductive rearing habitat. No special-status plant species occur on the site.

Sensitive habitats on the site, which include Environmentally Sensitive Habitats under the California Coastal Act, include the YLNR and seasonal wetlands on the undeveloped upland portion of the site. New wetland delineations under California Coastal Commission definitions and under Corps of Engineers definitions are being prepared in support of the CLRDP.

Project construction and operational impacts related to sensitive habitats, special-status species, and wildlife movement will be evaluated. This analysis will focus on the following issues of primary concern: direct and indirect impacts to special status plant species and to foraging and nesting/breeding special-status wildlife species; indirect impacts on sensitive habitats, including Environmentally Sensitive Habitats, from night lighting, noise, pets, the increased presence of people, and decreased water quality; direct impacts to wildlife movement across the site; the applicability of local plans and policies; and indirect impacts on adjacent habitat areas. The adequacy of wetland buffers and other protection measures and long-term maintenance programs identified in the CLRDP will be determined within the analysis of impacts noted above.

Cultural Resources

No evidence of cultural or paleontological resources has been found during previous archaeological surveys and studies of the site conducted between 1985 and 1992. Additionally, a 2000 cultural resource survey of the YLNR (which had not been previously surveyed) did not find any evidence of cultural resources on this part of the site. The closest documented archaeological site is approximately 2,400 meters east of the project site. Underwater and intertidal remains of the 1924 shipwreck of the *La Feliz* do, however, exist south of the site. The mast of the ship was placed in the bluff top, along the southern

edge of the site, to mark the site of the wreck and is still visible today. The State Lands Commission has indicated that the remains of La Feliz should be protected.

The potential for encountering as yet unidentified subsurface cultural or paleontological resources during excavation and other construction activities will be identified and evaluated. Additionally, any direct or indirect impacts to the remains of the *La Feliz* from project construction and operation will be evaluated.

Visual Resources

The project site is located on a series of low marine terraces immediately adjacent to the coast. The area transitions from urban development to rural and agricultural uses. Inland from Highway 1 (north of the site), the terrain becomes hilly, gradually rising to form the Santa Cruz Mountains. The site offers panoramic views to the south and southwest of Monterey Bay and coastal terrace landforms, with views of the existing buildings at LML and the De Anza Mobile Home Park. The site is visible to varying degrees from off-site public vantage points along Highway 1 (a designated scenic highway), Wilder Ranch State Park, Natural Bridges State Park, portions of West Cliff Drive, and the City's Bombay greenbelt property. Project development would result in the conversion of some of the site's fallow agricultural land to developed urban uses, thus altering the visual character of the project site and views from on- and off-site locations.

Changes in the visual environment that would result from project implementation would be described and analyzed using visual simulations that depict what development under the CLRDP could look like from up to ten representative vantage points. They are anticipated to include, at a minimum, views from Highway 1 (particularly the potential for disruption of ocean views), from Natural Bridges State Beach, and from West Cliff Drive. Project impacts on scenic vistas, scenic resources, and the visual quality of the site and surroundings will be evaluated. Impacts associated with the creation of new sources of light and glare will also be evaluated.

Land Use

Existing development on the site includes LML buildings, the National Marine Fisheries Service building (located on a federal inholding), and the California Department of Fish and Game Marine Wildlife Center. The property is located at the western edge of the City of Santa Cruz and is composed of the Younger Lagoon Natural Reserve (25 acres), the existing LML complex (16 acres), and the mostly undeveloped upland site formerly known as Terrace Point (57 acres). Land uses surrounding the site include the De Anza Mobile Home Park and Antonelli Pond to the east, the Southern Pacific rail line and industrial development to the north, agricultural lands to the west, and the Pacific Ocean to the south. The site is within the City of Santa Cruz and lies entirely within the California Coastal Zone. No Local Coastal Program (LCP) land use designations have been certified by the California Coastal Commission for the project site, although the City of Santa Cruz has site-specific and general LCP policies for the former Terrace Point site which was previously private land.

The undeveloped portion of the site was formerly under cultivation for brussel sprouts, but has lain fallow since 1988. The site includes primarily non-prime farmland, although a mix of non-prime and prime farmland may exist on the site, depending upon the criteria used to define such land. The site is not located within or adjacent to any agricultural lands protected under Williamson Act contracts.

The CLRDP EIR will evaluate the project's consistency with applicable land use plans, policies, or regulations of agencies with jurisdiction over the project, such as the California Coastal Commission. The project's consistency with all relevant California Coastal Act (CCA) policies will be evaluated in the EIR. Particular attention will need to be paid to agricultural policies (see further discussion below), the maintenance of a stable urban/rural boundary, the provision of an appropriate land use transition to adjacent north coast agricultural lands, the protection of environmentally sensitive habitats, the protection of coastal views, and whether various project uses are considered to be Coastal Priority Uses. But all relevant Coastal Act policies will be addressed. Although the project will not be subject to City of Santa Cruz regulations, the project's consistency with local zoning, other Planning Code provisions, and other pertinent City land use and Local Coastal Program (LCP) policies will also be evaluated. Project changes in land use and character of the site will be evaluated as they relate to the compatibility of project land uses with other nearby uses, particularly adjacent agricultural uses (see further discussion below). Moreover, the project's potential to physically divide an established community will be evaluated.

The EIR will fully analyze the proposed project for agricultural impacts under CEQA and under CCA. The agricultural classification of the site for CEQA purposes will be determined pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency. The agricultural classification of the site for CCA purposes will be determined based on the USDA Soil Survey Capability test, the Storie Index test, the grazing land test, and the \$200/acre return test. The soil testing conducted to support the prior 1995 agricultural suitability study conducted for the former Terrace Point site will also be used in the determination of the agricultural classification of the site.

The EIR would determine whether or not the project would result in: (a) a conversion of Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland); (b) conflicts with existing agricultural zoning or Williamson Act contracts; (c) changes in the environment which could result in the conversion of Farmland to non-agricultural uses; (d) creation of nuisance impacts by construction of a project which is incompatible with existing land uses, (e.g., agriculture); and (e) conflicts with applicable policies of an agency with jurisdiction over the project. As part of (c) and (d) above, the adequacy of the project's proposed agricultural buffers will be evaluated based on the county agricultural commission's setback requirements, the Agricultural Buffer Survey prepared by Mintier & Associates (July 1998), and a review of other compatibility issues including pesticide and dust drift, odor, noise, "right to farm" issues, and pilferage. Emissions of particulate matter under 10 microns (PM10) from adjacent agricultural operations would be evaluated per Monterey Bay Unified Air Pollution Control District standards and data, as part of the above compatibility analysis. The analysis of pesticide drift would be based on existing information from relevant agencies, as available.

The project's compliance with relevant CCA agricultural policies, including 30241 and 30242 will be evaluated. If it is determined that the viability of agriculture is already severely limited by conflicts with urban uses, the project's conformance with CCA Section 30241.5, regarding the economic viability of agriculture on the site, will also be evaluated. For example, the EIR would provide an analysis of historic and potential gross revenues and expenses from agricultural activities on and immediately adjacent the site to the north. The analysis would take into account the potential to conduct both traditional and organic agricultural production, water availability and cost, the presence of sensitive habitats on the site that may not be available for renewed agricultural use, and the presence of lands on the site that would need to be retained in an agricultural buffer that would not be available for renewed agricultural use.

Population, Employment, and Housing

The LML, National Marine Fisheries Service, and California Department of Fish and Game uses on the site currently employ approximately 170 people. There is currently no housing (other than temporary caretakers residences) provided on the site. The project would result in the construction of new research/office, laboratory, and other support and ancillary space, as well as housing, in an area that transitions from urban development to rural and agricultural uses. In addition, the project would extend roads and other infrastructure to and through the project site. As such, the project would have the potential to either directly or indirectly induce population growth and increase the demand for additional housing.

The number of jobs that the project would create and whether any jobs would be eliminated or displaced as a result of the project would be evaluated in the EIR. The expected change in demand for housing units as a result of the project and whether the proposed units included in the project would adequately meet the increased demand would also be analyzed. If there is a net increase in the demand for housing from the project, the availability of housing in the local community will be evaluated. If other nearby projects would also increase the demand for housing, the demand for housing from the project will be evaluated within the cumulative context of the project region. Housing impacts will be evaluated compared to existing conditions and to future conditions in 2010 and 2020. The population, employment, and housing section will be based on analysis derived from existing available sources of information, including census data, AMBAG data, and the City of Santa Cruz General Plan.

Traffic, Circulation, and Parking

Automobile access to the site is currently provided by Delaware Avenue. Access to Delaware is provided from Highway 1/Mission Street via Natural Bridges Drive or Swift Street and from West Cliff Drive via Swanton Boulevard. The existing Highway 1/Mission Street corridor is dominated by signalized intersections; changes in numbers of lanes (from 2 to 1 in each direction) and the lack of left turn lanes has resulted in delays along the corridor. The Highway1/Mission Street corridor is currently being widened to 4 full lanes between Chestnut and Swift Streets, with left-turn channelization at all signalized intersections. The 4 phases of the Mission Street widening project are scheduled to be completed by early 2002.

The transportation analysis in the EIR will analyze the following: (1) roadway operations; (2) site access and circulation (including emergency access); (3) vehicle, pedestrian, bicycle, and transit access and conflicts with policies supporting alternative transportation modes; (4) parking capacity and demand; and (5) neighborhood impacts. The analysis will include discussions of existing, project, and cumulative conditions (in 2010 and 2020) at 24 intersections. Existing conditions will be based on new AM and PM peak period turning movement counts at 24 intersections and 24-hour machine counts at three locations. Mission Street volumes will be adjusted based on Caltrans 24-hour counts. The intersections to be included in the analysis are as follows:

- Empire Grade and Western Drive
- Empire Grade and Heller Driver
- Bay Drive/Coolidge Drive and High Street
- Meder Street and Western Drive
- Highway 1 and Western Street
- Mission Street and Highway 1

- Shaffer Road and Highway 1
- Swift Street/Grandview Street and Mission Street
- Natural Bridges Drive and Delaware Avenue
- Delaware Avenue and Shaffer Road
- Delaware Avenue and Swanton Boulevard
- Delaware Avenue and Swift Street
- Delaware Avenue and Almar Avenue
- Mission Street and Almar Avenue
- Bay Street and Laguna Street
- Bay Street and Mission Street
- King Street and Bay Street
- Bay Street and Escalona Drive
- Bay Street and Iowa Drive
- Mission Street and Laurel Street
- Laurel Street and California Street
- Walnut Avenue and Mission Street
- Union Street and Mission Street
- Chestnut Street and Highway 1
- River Street and Highway 1

The roadway segments to be included in the analysis are as follows:

- Western Drive between Western Court and Monarch Way
- Bay Street between Escalona Drive and Kenneth Street
- Delaware Avenue between Seaside Street and Surfside Avenue

The project will be evaluated under the following traffic scenarios: Phase I of the project (development through 2010) + Existing Conditions; Phase I and II of the project (development through 2020) + Existing Conditions; Phase I + 2010 baseline conditions; and Phase I and II + 2020 baseline conditions. Level of Service calculations will be conducted to evaluate roadway operations under these scenarios. Existing conditions and baseline conditions in 2010 and 2020 will also be reported without the addition of project traffic. The 2010 baseline condition will include traffic volumes from the approved, but not yet constructed projects, plus existing traffic volumes. Development between 2010 and 2020 will likely be estimated using a growth factor based on AMBAG model projections or other acceptable method. Traffic volumes from this growth will be added to the 2010 baseline volumes to obtain the traffic projections for 2020 baseline conditions. The City of Santa Cruz's Traffix model will be used in the analysis.

A Traffic Infusion on Residential Environments (TIRE) analysis will be used to evaluate project impacts on the three nearby residential street segments identified above, as the basis for evaluating likely neighborhood impacts. Additionally, a roadway segment analysis (using v/c ratios) will be conducted on the same three nearby residential street segments, as well as on a segment of Mission Street, which is to be determined.

Air Quality

The project site is located in the North Central Coast Air Basin, which is currently a state nonattainment area for fine particulate matter (PM10) and a nonattainment-transitional area for ozone. The North Central Coast Air Basin was previously a federal moderate nonattainment area for the 1-hour ozone standard, but was redesignated as a federal ozone maintenance area in March 1997. The basin is also an

attainment area with respect to federal PM10 standards. Regional air quality plans have been developed to improve air quality within the Basin. The project site is an exposed, coastal bluff location that experiences high wind conditions at times.

The CLRDP EIR will evaluate construction and operational air quality impacts of the project in conformance with the Monterey Bay Unified Air Pollution Control District's (MBUAPCD) CEQA Air Quality Guidelines. The potential for local and regional exceedences of the MBUAPCD significance thresholds for criteria pollutants will be quantified in accordance with the guidelines. Regional motor vehicle emissions will be evaluated using the URBEMIS7G model. The potential for local carbon monoxide (CO) "hot spots" from motor vehicle emissions that could exceed applicable standards will be evaluated at two intersections most affected by project traffic, using a screening method acceptable to the MBUAPCD. The CALINE4 model will be used to further analyze CO concentrations if the results of the screening effort predict concentrations above standards. The consistency of the project with the MBUAPCD's Air Quality Management Plan will determined by the Association of Monterey Bay Area Governments (AMBAG) via a request for a consistency determination. Such consistency determinations form the basis for the evaluation of a project's cumulative impact on regional ozone concentrations.

The potential impacts from any toxic air contaminant emissions (TACs) from the project will also be evaluated. Potential sources of TACs include laboratory fume hoods and diesel particulate emissions from trucks and diesel-powered emergency generators. Based on a 1993 health risk assessment for laboratory fume hood emissions prepared for the LML Master Plan EIR, the general magnitude of expected project emissions will be evaluated. The MBUAPCD permitting required to control TAC emissions and to allow for the operation of laboratory fume hoods will be discussed. Additionally, the likely range of diesel emissions that could result from emergency generators and other sources will also be quantified, to the extent possible. The potential for these diesel particulate emissions to result in adverse health conditions for residents will also be evaluated.

Noise

The noise environment at the project site is influenced by traffic, neighboring agricultural activities, existing outdoor marine mammal tanks at the LML, and natural noise sources such as the ocean and wind. Ambient noise levels in the vicinity of the project site are primarily influenced by vehicle travel on local roadways (e.g., Delaware Avenue and Mission Street to the north of the site).

The LML CLRDP EIR will evaluate the noise impacts of the project, including: (1) impacts of construction noise on existing site facilities and neighboring residential and other land uses, (2) operational noise impacts from on-site activities and building equipment (e.g., HVAC systems) on both on-site and off-site land uses, and (3) operational noise impacts from project-related traffic increases on off-site sensitive receptors. New noise measurements will be taken in the project vicinity to characterize the baseline ambient noise environment at the project site and in the site vicinity. Measurement locations will focus on sensitive academic/research facilities and housing units proposed under the Plan and other sensitive receptors (including off-site receptors) that could be affected by project construction or long-term operation of the project. Construction-related noise levels will be estimated in surrounding areas and at identified sensitive noise receptors. The change in noise levels due to project and cumulative traffic along the roadways most affected by project traffic will be calculated using the noise prediction model of the Federal Highway Administration (FHWA). Additionally, typical noise generated by various elements of the project, including potential commercial-type activities (e.g. truck unloading, HVAC systems) will

be estimated. The potential for project noise to adversely affect sensitive land uses or activities or to conflict with noise compatibility standards used by the University will be determined.

Public Services

The City of Santa Cruz is responsible for providing fire and police protection services to all areas within the City limits including the project site. The UCSC Fire Department is responsible for providing first response for emergencies at LML. The project site is located within the Santa Cruz City School District, with the closest schools to the site being Natural Bridges Elementary, Mission Hills Junior High, and Santa Cruz High. There are currently three neighborhood parks and two school sites that provide recreation facilities in the vicinity of the project, in addition to Natural Bridges State Park, West Cliff, and area beaches.

The LML CLRDP EIR will evaluate the potential increase in demand for public services, including fire protection, police protection, schools, parks and recreational facilities, and emergency response. Any impacts that would alter the ability of a service provider to maintain acceptable service ratios, response times or other performance objectives will be identified and evaluated.

Utilities

The City of Santa Cruz provides water, sewer, and solid waste services to the project site and vicinity.

The LML CLRDP EIR will evaluate the potential increase in demand for utilities, including water, wastewater/sewer, and solid waste services. The net service water, wastewater, and solid waste generation rates for the project will be estimated through the use of commonly-accepted engineering, planning, or community service standards and the project demand will be calculated. The City of Santa Cruz will be consulted in the determination of project impacts due to shortages in the City's water supply during drought conditions; possible inadequacies in sewer lines, pump stations, or treatment facilities; and potential shortfalls in permitted landfill capacity. If new facilities or expansion of existing facilities are required to serve the project, this will be identified.

Energy

The site is currently provided with electrical and natural gas services by Pacific Gas & Electric Company.

The LML CLRDP EIR will estimate the energy consumption that would be associated with the construction and operation of the project. Any inefficient or wasteful use of energy proposed by the project will be evaluated. Existing utility infrastructure for electricity may not be adequate to meet the demands of the project, and the construction of new energy production or distribution facilities or the expansion of existing facilities could be required. The implications of project facilities and cumulative growth on PG&E transmission and distribution facilities will be analyzed.

Hazardous Substances

Existing buildings on the project site, especially those containing laboratories, use and store hazardous materials. It is the policy of the University of California to maintain a safe environment for its students, faculty and visitors. It is also the University's policy to conduct University operations in compliance with all applicable regulations and health and safety standards. UCSC has charged the campus Office of

Environmental Health and Safety (EH&S) with compliance monitoring to ensure a safe and healthy campus environment and with coordinating the management of hazardous materials on campus and at LML. EH&S has the authority to require abatement of any condition or operation that could endanger people or facilities on campus or result in violations of pertinent federal or state laws or campus policies concerning health and safety. EH&S develops specific policies and programs in the following areas: industrial hygiene; chemical safety; physical safety; radiation safety; biohazard safety; hazardous waste management; and environmental protection. Additionally, the previous use of the site for agricultural purposes has lead to the presence of residual pesticide concentrations in on-site soils.

The CLRDP EIR will evaluate potential hazards posed by the project from hazardous substances. Operation of new facilities that would be constructed under the CLRDP would likely increase the use of substances on the site that are considered hazardous under Federal or State criteria. These materials could include solvents, chemicals containing heavy metals, gases, or poisons and may be a potential exposure risk to workers, employees and students. LML must comply with Federal and State requirements for the storage and disposal of hazardous substances. The health impacts of hazardous substances use of the project will be evaluated for conformance with the regulatory requirements for use, storage, and disposal. Any potential health impacts from past or present hazardous materials use, storage, or disposal, that have resulted in residual contamination in the project area will also be evaluated as they relate to both the construction and operation of the project.

The potential health affects of pesticide residues in on-site soils will also be evaluated in the EIR. This analysis will be based on a review of previous studies (i.e., Phase I Site Assessment Due Diligence Report for the Acquisition of Campus-Related Property, Residual Pesticide Investigation, Raas, 1997; and Health Risk Assessment, Applied Science and Engineering, 1997) and on a new Phase II site assessment and health risk assessment to be prepared for this EIR. A new Phase II site assessment and health risk assessment will be performed, because there were a range of critical comments about the methodologies used in the prior studies and because there is new California Department of Toxics Substances Control guidance for performing these studies on school sites, which the University's Office of Environmental Health and Safety has recommended be used for this project. The health affects of exposure to pesticide residues in on-site soils during construction and operation of the project will be evaluated.

Cumulative Analyses

The effects of the CLRDP project in combination with the cumulative effects of other past, present, and future projects will be addressed. Project and cumulative impacts will be addressed in 2010 and 2020. The project, as it is likely to be completed through 2010 and 2020, will also be compared to existing conditions.

Alternatives

The EIR will address a reasonable range of alternatives that could reduce or avoid any identified significant effects of the LRDP project. The alternatives would likely consist of a no project alternative, a reduced project alternative, a larger alternative with additional housing to reduce vehicle trips, and a modified development configuration alternative.

APPENDIX B

AGRICULTURAL RESOURCES LESA STUDY WORKSHEETS AND MAPS AND AGRICULTURAL VIABILITY ANALYSIS

APPENDIX B

ANALYSIS OF THE AGRICULTURAL VIABILITY OF THE SITE

California Agricultural Land Evaluation and Site Assessment Model

An analysis of the project site farming suitability and viability utilizes the 1997 California Department of Conservation – California Agricultural Land Evaluation and Site Assessment (LESA) Model as an approach for rating and relative quality of land resources based upon specific measurable features. These features include soil resource quality measured by the Capability Classification and Storie Index Rating, the project's size water resource availability, surrounding agricultural lands, and surrounding protected resource lands. In terms of agricultural productivity, the size of a farming operation can be considered not just from total acreage, but the acreage of different quality lands that comprise the operation. Each of these factors is rated on a 100-point scale and then weighted and combined for an overall score out of 100 points possible. It is the total score that becomes the basis for making a determination of an area's potential significance or agricultural use. The California Agricultural LESA Model does not specifically consider the issue of pesticide use, crop revenue, or buffer setbacks.

The four LESA worksheets include the following information.

Worksheet #1: The Land Evaluation Worksheet – includes the soil map unit, the soil acres, the soil proportion of the project area, the Land Capability Classification, the Land Capability Classification Points (provided by LESA), the resultant Land Capability Classification Score, the Storie Index, the Storie Score, and the project Size Score. The Highest Project Size Score is provided by LESA where greater than 80 acres would achieve a score of 100 points and less than 10 acres would receive 0 points. Soil data were obtained solely from the USDA published Soil Survey.

Worksheet #2: The Site Assessment Worksheet for Water Resources Availability – includes listing existing irrigated crops and the number of acres, existing dryland crops and the number of acres, water sources, the proportion of the project area that water could be supplied to, the LESA water availability score, and the LESA weighted availability score. To determine the score a number of LESA Options are given ranging from irrigation being feasible with no physical restrictions and no economic restrictions for 100 points, to no feasible irrigation for zero points.

Worksheet #3: The Site Assessment Worksheet for Surrounding Agricultural Land and Surrounding Protected Resource Land – includes determining the Zone of Influence acreage one-quarter mile outside of all site perimeters, agricultural acres within the ZOI, protected resource acres within the ZOI, percent of ZOI in agriculture, percent of ZOI in protected resources and the respective LESA agricultural land score, and protected resource land score. To determine the score a number of LESA percentages are given. For example, 900 to 100 percent equals 100 points and less than 20 percent equals 0 points. Protected resource land includes dedicated conservation easements, Land Conservation Act land, parks, and established resource areas.

Worksheet #4: The Final LESA Scoresheet for the Land Evaluation and Site Assessment Factors – includes determination of LESA Weighted Factor Scores based on the totals from the above Land Evaluation and Site Assessment Factors.

The LESA methodology total from Worksheet #4 is commonly used to determine the significance of the conversion of agricultural land to urban use as part of a CEQA analysis Initial Study whereby:

LESA Scoring Thresholds include the following for agricultural land:

0 to 39 points	Not Considered Significant
40 to 59 points	Considered significant only if the Land Evaluation <u>and</u> Site Assessment subscores are each greater than or equal to 20 points
60 to 79 points	Considered significant unless either the Land evaluation <u>or</u> Site Assessment subscore is less than 20 points
80 to 100 points	Considered significant

Because of the Terrace Point complex soils and land use compatibility issues, five agricultural production scenarios were evaluated by the LESA methodology.

The five scenarios include the following:

- No Constraints this scenario assumes that approximately 54 acres of the site could be utilized for agricultural production. Pesticide use would be minimal or organic farming. No setbacks would be utilized in order to maximize soil acreage.
- 2) ESHA Wetlands Setback this scenario assumes a 100-foot setback from Environmentally Sensitive Habitat Areas containing wetlands and from existing buildings. Approximately 6.27 of wetlands, nine acres for recommended 100-foot setbacks, and two acres for building setbacks would leave about 36 acres in this scenario. Pesticide use would be minimal or organic farming.
- 3) 1995 Agricultural Suitability Study this scenario includes about 23 acres of remaining Terrace Point property that was considered to be lower suitability farmland due to previously mentioned constraints. Pesticide use would be minimal due to proposed 30-foot setbacks from buildings.
- 4) A 300-foot Pesticide Use Setback this scenario utilizes a 300-foot interior setback from existing habitable structures. Approximately 17 acres would be available for farming on the Terrace Point site. Pesticide use would be allowed and wetlands would be avoided.
- 5) A 500-foot Compatibility Setback this scenario utilizes a 500-foot interior setback from existing habitable structures. Approximately 5.6 acres would be available for farming on the Terrace Point site. Pesticide use would be allowed and wetlands would be avoided.

Summary worksheets are included for each of the following five scenarios in the appendices.

An example of the LESA methodology is provided below for Scenario #2 – ESHA Wetlands Setback. Of the above scenarios, this particular one would probably be the best case from a farming standpoint.

Worksheet Page 1: The area is 36 acres in size and contains three USDA soil series or types of soil. The soil series are #132 - 11.4 acres, #133 - 5.3 acres, and #178 - 19.3 acres.

The Land Capability Classifications are I (if irrigated), IIIe, and IIIw, respectively. Total Land Capability Classification Points are 74.3 based on multiplying the proportion of the soil area times the LESA LCC Scoring.

The Storie Index of the soils are 73, 66, and 50, respectively that equal a total Storie Score of 59.8 based on multiplying the proportion of the soil area times the Storie Index.

The size score is determined from the other LESA tables on Worksheet Page 1. For either 11.4 acres of Capability Class I soil, or 24.6 acres of Class III soils the maximum size score is 30 points.

Because of previous controversy on soil classifications, we have taken a very conservative approach and have assumed for all scenarios that soil map #132 is Capability Class I event though it would only achieve this classification if the soil was under active irrigation which it is not.

Worksheet Page 2: Continuing for the 36-acres area, the current irrigated crop use is zero acres, and for dryland crops is zero acres. The water sources include City of Santa Cruz water at \$1,500/acre/year plus \$30,400 hook-up fee plus \$1,238 yearly readiness fee. No existing water deliver infrastructure exists of the site for crop irrigation. A further analysis of water use is included latter in this section. A number of LESA-derived options exist for water availability. For this site, we have taken a range from zero points where irrigation is not feasible to 30 points where irrigation would be feasible but with physical restrictions and economic restrictions. High water costs, a high hook-up fee, a yearly readiness fee, lack of an onsite water deliver infrastructure, and future potential water use cost increases all contribute to lower feasibility. Well water is not considered feasible because there is no well or water storage reservoir, potential well sites are in ESHA wetland areas, and water quality is substandard for agricultural use.

The water resource score is constant for all scenarios.

The LESA Model does consider economic restrictions if a rise in the cost of water goes to a level that forces a reduction in consumption. Irrigated agricultural production is considered feasible when:

- There is an existing irrigation system on the project site that can serve the property. None exist on Terrace Point for agricultural uses.
- Physical and/or economic restrictions are not severe enough to halt production. See following analysis.
- It is possible to achieve a viable economic return on crops through irrigated production. See following analysis.

Worksheet Page 3: This worksheet determines the zone of influence (ZOI) for all scenarios. A one-quarter mile rectangle was drawn around the perimeters of the Terrace Point site and the

acreages by land use were planimetered. Total ZOI area was about 434 acres of which 118 acres (28 percent) are currently used for agriculture. Approximately 214 acres are considered as protected resource areas including the Antonelli Pond area, Natural Bridges State Park, Younger Lagoon, and the Pacific Ocean. From the LESA tables the surrounding agricultural land score is 10 points since 28 percent is in agricultural use. The protected resource land score is 60 points since between 51 percent of the surrounding land is in long-term open space.

The zone of influence is constant for all scenarios for the overall exterior perimeter Terrace Point property footprint.

Worksheet Page 4: This worksheet totals the scores on the previous worksheets and determines the significance of the agricultural resource.

The Land Evaluation Factors includes a Land Capability Classification score of 74.3 points times a factor weight of 0.25 that equals a weighted factor score of 18.6 points. A Storie Index score of 59.8 points times a factor with of 0.25 that equals a weighted factor score of 15 points. These scores added together equals a 33.6 point subscore.

The Site Assessment Factors includes a Project Size of 30 points times a factor weight of 0.15 that equals 4.5 points. A Water Resource Availability score of 0 to 30 points times a factor weight of 0.15 that equals 0 to 4.5 points. A Surrounding Agricultural Land score of 10 points times a factor weight of 0.15 that equals 1.5 points. A Protected Resource Land score of 60 points times a factor weight of 0.05 that equals 3 points. Totaling the weighted factor scores equals a 9 to 13.5 point subscore.

Adding the Land Evaluation Subtotal of 33.6 points and the Site Assessment Subtotal of 9 to 13.5 points equals 42.6 to 47.1 points. Per the LESA Model this point range is to be considered as a significant agricultural resource only if both the LE and SA subscores are each greater than or equal to 20 points. The SA subscore is 9 to 13.5 points.

Summary of LESA Scenarios

Scenario #	<u>Land Evaluation</u> <u>Subscore</u>	Site Assessment Subscore	Final LESA Total Points
1	35.1	12 to 16.5	46.1 to 51.6
2	33.6	9 to 13.5	42.6 to 47.1
3	33.1	9 to 13.5	42.1 to 46.6
4	35.5	6 to 10.5	41.5 to 46
5	36.2	4.5 to 9	40.7 to 45.2

Note: 40 to 59 points are considered significant only if both subscores are each greater than or equal tot 20 points.

In conclusion, the LESA Model would consider none of the five scenarios as a significant agricultural resource.

Economic Analysis of the Agricultural Viability of the Site

In addition to the LESA analysis, further analysis of the agricultural viability of crop production versus costs is provided below. Average crop production in tons per acre for Brussels sprouts and average gross revenues per acre were determined from the Santa Cruz County Agricultural Commissioner's Office crop reports. Brussels sprouts were used since this crop appears to be the most feasible for the site's microclimate based on the experience of other farmers. The average gross revenues for LESA Scenario 2's 36 acres of agricultural production were then estimated. Sources included average production costs as determined from the Santa Cruz County Farm Advisor cost sheets and from Farm Advisor updates on costs. Production costs include land preparation, fumigation, cultivation, fertilization, planting and harvesting costs. Materials include fertilizers and pesticides. Cash overhead includes general expenses, management, interest, rent, and repairs. Average gross revenues and production per acre for 2001 were used in the calculations as the most recent available data. Water costs are incorporated below.

The approximate projected average net income for LESA Scenario 2's 36 acres is estimated to be \$45,000 (\$1,250 per acre) for Brussels sprouts (excluding water costs and assuming the land is rented), with average production at 9.1 tons per acre, production costs at \$3,500 per acre, and an average gross revenue of \$522 per ton. Average production yields were used as a conservative estimate; actual historical site yields may have been lower due to drainage-impaired soils and poor irrigation water quality.

City of Santa Cruz water rates for a two-inch irrigation water meter includes a \$26,848 connection cost, a \$3,102 installation cost, a \$444 water meter cost, and a \$1,238 yearly readiness to serve charge. An actual irrigation water cost of \$2.29 for 748 gallons equates to about \$1,500 per acre per year (1.5 acre-foot – 488,777 gallons of irrigation water per year). Total yearly irrigation-water-only costs for 36 acres would be about \$54,000 plus the yearly readiness fee of \$1,238 would equal \$55,238. Net return including irrigation-water-only costs for 36 acres would be a loss of approximately \$10,238 for the first year. Farming under this scenario would therefore not be considered viable. Note that the production costs and gross revenues would vary yearly. In addition, the water connection, installation, and meter costs would be a one-time \$30,394 cost, excluding interest. The water costs also do not include the cost of water line infrastructure within the site, and future cost increases and availability from an urban server. A first year loss would actually total \$40,632 if the one time hook-up fee was included. The LESA analysis for Worksheet #2 water availability ranges from 0 to 30 points depending on the specific production year and actual water availability.

The agricultural viability report format contained in the Watsonville Municipal Code is also of interest, as it analyzes the productivity of agricultural sites and the surrounding areas for the preceding five years. The Watsonville viability report, at a minimum, is to contain an analysis of the following factors: soil types, and Capability Classification, Storie Index, net dollar return for crops grown on each soil type, crop types and dollar return, agricultural uses not dependent on soil, agricultural constraints (such as climate), management techniques, proximity of agricultural and urban uses, water uses-costs-availability, access, production history, risk factors, and

Goode, Helen, Owner Younger Ranch, Comment on Monarch Village Draft EIR: City of Santa Cruz Planning Department, October 19, 2001, and personal communication, November 9, 2002.

² Roth, Victor, California State Parks Land Agent, personal communication, January 4 and 5, 2002.

economics including gross revenues, operational expenses, fixed cost, excluding land costs, and cost impact on private and public sectors.

The above factors, where applicable, were extrapolated for the project site for methodology consistency with other jurisdictions, even though no agricultural production has occurred on the property since 1988 and thus no agricultural revenues were generated. The above cost analysis provides a reasonable approximation in the absence of actual site-specific production data. Urban services and access infrastructure was established across the property for existing Universityrelated and other land uses.

The above generic cost analysis data (excluding water) provides a reasonable regional extrapolation for the area (note that the actual production and cost figures for the Younger Ranch and the Wilder Ranch were unavailable due to the privacy rights of the farmers on those properties). However, agricultural lands at the Younger and Wilder Ranches are classified as both Prime and of Statewide Importance, which is superior to the Unique classification of the soils on the project site. It is apparent from the public record and from state park lease arrangements that both the Younger Ranch and Wilder Ranch properties are committed to longterm, viable agricultural production and therefore constitute significant agricultural resources. (It is noted that the Younger Ranch is not under Land Conservation Act contract at this time and the Wilder Ranch is owned by the State of California.) Based on 2001 crop reporting records, together these two ranches constitute about 80 percent of the Brussels sprouts acreage in Santa Cruz County.

SCENARIO #1 - TERRACE POINT NO CONSTRAINTS LESA WORKSHEET SOILS: PAGE 1

AND EVALUATION AND EVALUATION AND EVALUATION OF THE PROPERTY A	Classificati	on PROPORTIO		LCC	Lec	Storie Index S	cores STORIE	SITE ASSESS Project Size S LCC		KSHEET LCC
UNIT	ACRES	PROJECT ARI	EA	POINTS	SCORE	INDEX	SCORE	1-11	m	rv-viii
132	23 acres	0.43	I*	100	43	73	31.4	23 acres		
133	7 acres	0.13	ПІе	70	9.1	6 6	8.6		7 acres	
178	24 acres	8.44	Шw.	60	26.4	50	22	•	24 acres	
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only if irrigated				•						
only if irrigated				•						
OTALS	l e4		1		!	1 1		23 acres	31 acres	
	54 acres	1		·	78.5 HIGHES	I PROJECT SL	62 ZE SCORE	50 points 50 points	30 points	<u> </u>
roject Size Scor lass I or II	ing Table:	Class III		Class IV-VIII			• •			
creage 80	Points 100	Acreage >160	Points 100	Acreage >320	Points 100					÷
0 to 79 0 to 59	90 80	120 to 159 80 to 119	90 80	240 to 319 160 to 239	80 60					
0 to 39	50	60 to 79	70	100 to 159	40	-		•		
0 to 19 :10	36 6	40 to 59 20 to 39	60 30	40 to 99 <40	20 0	•				
	-	10 to 19 <10	10 0		•					
CC Scoring: I	- 100pts. []	e=90pts. IIs,w		- 70pts. IIIs,w -	-60pts, IVe=	50pts. IVs,w=	40pts. V=3	Opts. VIe.s.w	= 20ots. VIIe	s.w = 10ots

SCENARIO #1 - TERRACE POINT NO CONSTRAINTS LESA WORKSHEET WATER RESOURCES: PAGE 2

iter Resources Ava						WATER	WEIGHTED
IRRIGATED	PORTION	DRYLAND	PORTION	WATER	1	AVAILABILITY	AVAILABILITY
CROPS	ACRES	CROPS	ACRES	SOURCES	PROJECT AREA	SCORE	SCORE
\$6\$	\$1500000000000000000000000 8	7434757444774777777777777	(1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-		\$*\$* # \$	#:-:-:-:-:-:-:-:-	5-2-2-2- <u>2-4-3-3-3-4-2-2-2-2-3-4-</u>
ne	0 acres	None	0 acres	City water at \$1,500/acre/year plus \$30,400 hook-up fee plus \$1,238 yearly	1	0 to 30	0 to 30
				readiness fee			
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					1	WATER RESOURCE	<u></u>
TALS					<u> </u>	SCORE	0 to 30
	Non-Dr	ought Year Rest	rictions		Drought Year Restri	ctions	Water Resource
	1	Physical	Economic	Irrigati	on Physical	Economic	Score
	Irrigation Feasible	Restrictions	Restrictions	Feasi		Restrictions	•
TIONS	200000						•
	YES	NO	NO	•	res no	NO	100
	YES	NO	NO	•	res no	YES	95
	YES	NO	YES		res no	YES	90
	YES YES	NO YES	NO NO		res yes res yes	NO YES	85 80
	YES	YES	NO		YES YES	NO -	- 75
	YES	NO	YES		YES YES	YES	65
	YES	NO	NO	•	NO		50
	YES	YES	YES		NO		45
	YES	YES	NO YES	•	NO NO		35 30
	yes No	YES	169	rainfall adequate for dryland crops	NO		25
	NO			rainfall inadequate in drought years			20
•	NO						

and SAGE Associates field assessments, 2002.

SCENARIO #1 - TERRACE POINT NO CONSTRAINTS LESA WORKSHEET SURROUNDING LAND USES: PAGE 3

	TE ASSESSMENT	WORKSHEET			-	*		
	rrounding Agricul	ltural Land and Su	rrounding Protes	cted Resource Land		SURROUNDING	SURROUNDING	l
1	TOTAL	AGRICULTURE	PROTECTED	PERCENT	PERCENT IN	AGRICULTURE	PROTECTED	l
	ZOI	ACRES	RESOURCE	IN	PROTECTED	LAND	RESOURCE LAND	ı
į	ACRES		ACRES	AGRICULTURE	RESOURCES	SCORE	SCORE	ı
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1		•	,			***************************************		l
1	434 acres	118 acres	214 acres	28%	51%	10	60	١
	Ė							Ł

Surrounding Agricu	ltural Land Scoring Table			
Percent of ZOI in	Surrounding	Percent of ZOI	Protected	•
Agriculture	Agricultural	Protected	Resource	•
	Land Score		Land Score	
90-100	100	90-100	100	
80-89	95	80-89	95	
70-79	90	70-79	90	
65-69	85	65-69	85	
60-64	86	60-64	80	
55-59	70	55-59	70	*****
50-54	60	50-54	60	
45-49	50 [*]	45-49	50	
40-44	40	40-44	40	
35-39	30	35-39	30	
30-34	20	30-34	20	
20-29	10	20-29	10	
<19	0	<20	0	

URCES: California Agricultural Land Evaluation and Site Assessment Model - California Department of Conservation, 1997; USDA Soil Survey; and AGE Associates field assessments, 2002.

SCENARIO #1 - TERRACE POINT NO CONSTRAINTS LESA WORKSHEET FINAL LESA SCORING: PAGE 4

FACTOR	s ·	FACTOR SCORES	FACTOR WEIGHT	WEIGHTED FACTOR SCORES
				CORE
AND EVALUATION FACTORS				
Land Capability Classification	•	78.5	0.25	19.6
Storie Index		62	0.25	15.5
	Land Evaluation Subtotal		0 .5	35.1
TE ASSESSMENT FACTORS				
Project Size		50	0.1 5	7.5
Water Resource Availability		0 to 30	0.15	0 to 4.5
Surrounding Agricultural Land		10	0.15	1.5
Protected Resource Land		60	0.05	3
•	Site Assessment Subtotal		0.5	12 to 16.5
	FINAL LESA SCORE			46.1 to 51.6
				Note: Not considered a significa
				agricultural resource since
•				SA subscore is less than 20 poin

California LESA Model Scoring Thresholds

Total LESA Score

Scoring Decision

Not Considered Significant.

40 to 59 Points

Considered Significant only if LE and SA subscores are each greater than or equal to 20 points.

Considered Significant unless either LE or SA subscore is Jess than 20 points.

Considered Significant.

Considered Significant.

Note: LESA Model is designed to make determinations of the potential significance of a project's conversion of agricultural lands during the Initial Study phase of the CEQA review process.

SOURCES: California Agricultural Land Evaluation and Site Assessment Model - California Department of Conservation, 1997; USDA Soil Survey; and SAGE Associates field assessments, 2002.

SCENARIO #2- TERRACE POINT ESHA WETLANDS SETBACK LESA WORKSHEET SOILS: PAGE 1

ND EVALUAT	lassificatio	on				Storie Index	Scores	SITE ASSESS Project Size S	MENT WORKS	HEET
SOIL MAP UNIT	PROJECT	PROPORTION PROJECT AREA	ıcc	LCC POINTS	LCC SCORE	STORIE INDEX	STORIE SCORE	LCC I-II	LCC III	LCC IV-VIII
132	11.4 acres	0.32	I.	100	32			1		
±133	5,3 acres	0.15	IIIe	70	*	73	23.4	11.4 acres		
				•	10.5	66	9,9		5.3 acres	
178	19.3 acres	0.53	IIIw	60	31.6	50	26.5	•	19.3 acres	
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only if irrigated										
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TOTALS	36 acres	1 1	Ī		l =45		l -	11.4 acres	24.6 acres	
7.17.		L	·		74.3 HIGHES	J T PROJECT SE	59.8 ZE SCORE	30 points 30 points	30 points	
Project Size Scoris Class I or II		Class III		Class IV-VIII						
Acreage	Points	Acreage	Points	Acreage	Points					
-80 i0 to 79			100 90	>320 240 to 319	100 80					
10 to 59	80	80 to 119	80	160 to 239	60				_	
10 to 39 10 to 19	50 30.	60 to 79 40 to 59	70 60	100 to 159 40 to 99	40 20			•		
⊲0		20 to 39 10 to 19	30 10	<40	G					
		<10	0							
.CC Scoring: I=	100pts. II	e = 90pts. IIs,w = 8	0 pts. IIIe=	70pts. Ilis,w =	-60pts. IVe=	50pts. IVs.w=	- 40pts. V = 3	Opts. VIe.s.w	· 20pts. VIIeas	w = 10pts
/III = Opts.	-	-		-	•					

SCENARIO #2- TERRACE POINT ESHA WETLANDS SETBACK LESA WORKSHEET WATER RESOURCES: PAGE 2

IRRIGATEL CROPS	Availability D PORTION ACRES	DRYLAND CROPS	PORTION ACRES	WATER SOURCES		PROPORTION PROJECT AREA	. WATER AVAILABILITY SCORE	WEIGHTED AVAILABILITY SCORE
ione .	0 acres	None	0.acres	City water at \$1,500/acr \$30,400 hook-up fee plus readiness fe	\$1,238 yearly	1	0 to 30	0 to 30
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			•		•			•
							WATER	
OTALS					·	1	RESOURCE	
							SCORE	0 to 30
	Non-Di	ought Year Rest	rictions		Dro	ught Year Restrict	ions	Water Resource
	Irrigation	Physical	Economic			74		Score
	Feasible	Restrictions	Restrictions		Irrigation Feasible	Physical Restrictions	Economic Restrictions	
PTIONS	-			1				
	YES	NO	NO		YES	NO	NO	100
	YES YES	NO NO	NO YES		YES YES	NO NO	YES YES	95 90
	YES	NO	NO		YES	YES	NO	. 85
	YES	YES	NO	•	YES	YES	YES	80
	YES YES	YÉS NO	NO YES		YES YES	YES ' YES	NO -	75 6 5
	YES	NO	NO	•	NO	120		. 50
	YES	YES	YES		NO			45
) L	YES YES	YES YES	NO YES	٠.	NO NO			35
!	, NO	LING	160	rainfall adequate for drylar				90 2 5
3	NO			rainfall inadequate in drou	ight years	•		20
1	NO			crop production not feasible	ie			. 0

and SAGE Associates field assessments, 2002.

TE ASSESSMENT WORKSHEET

SAGE Associates field assessments, 2002.

	ourrounding Agricul	Itural Land and Su	rrounding Protec	ted Resource Land		SURROUNDING	SURROUNDING
	TOTAL	AGRICULTURE	PROTECTED	PERCENT	PERCENT IN	AGRICULTURE	PROTECTED
	ZOI	ACRES	RESOURCE	IN	PROTECTED	LAND	RESOURCE LAND
	ACRES		ACRES	AGRICULTURE	RESOURCES	SCORE	SCORE
1							
ł	1	•			•		
	434 acres	118 acres	214 acres	28%	51%	10	60
	1						

Surrounding Agricu	litural Land Scoring Table			
Percent of ZOI in	Surrounding	Percent of ZOI	Protected	
Agriculture	Agricultural	Protected	Resource	•
	Land Score	·	Land Score	
90-100	100	90-100	100	
80-89	95	80-89	95	
70-79	90	70-79	90	
65-69	8 5	63-69	85	•
60-64	8G	60-64	80	
55-59	78	35-59	70	
50-54	60	59-54	60	
45-49	50	45-49	50	
40-44	40	40-44	40	
35-39	30	35-39	30	
30-34	20	30-34	20	
20-29	10	20-29	10	
¹ <19	0	<20 ⋅	0	

OURCES: California Agricultural Land Evaluation and Site Assessment Model - California Department of Conservation, 1997, USDA Soil Survey; and

INAL LESA SCORESHEET and Evaluation and Site Assessment Fac FACTORS	•	FACTOR SCORES	FACTOR WEIGHT	WEIGHTED FACTOR SCORES
AND EVALUATION FACTORS Land Capability Classification Storie Index	Land Evaluation Subtotal	74.3 59.8	0.25 0.25 0.5	18.6 15 33.6
ITE ASSESSMENT FACTORS				
Project Size		30	0.15	4.5
Water Resource Availability		0 to 30	0.15 0.15	0 to 4.5 1.5
Surrounding Agricultural Land Protected Resource Land		10 60	0.15	1.D
Protested Resource Land	Site Assessment Subtotal		0.5	9 to 13.5
	FINAL LESA SCORE		·	42.6 to 47.1

Note: Not considered a significant agricultural resource since SA subscore is less than 20 points.

California LESA Model Scoring Thresholds

Total LESA Score Scoring Decision

0 to 39 Points Not Considered Significant.

40 to 59 Points

Considered Significant only if LE and SA subscores are each greater than or equal to 20 points.

60 to 79 Points Considered Significant unless either LE or SA subscore is less

than 20 points.

80 to 100 Points Considered Significant.

Note: LESA Model is designed to make determinations of the potential significance of a project's conversion of agricultural lands during the Initial Study phase of the CEQA review process.

SOURCES: California Agricultural Land Evaluation and Site Assessment Model - California Department of Conservation, 1997; USDA Soil Survey; and SAGE Associates field assessments, 2002.

SCENARIO #3 - TERRACE POINT 1995 AGRICULTURAL SUITABILITY STUDY LESA WORKSHEET SOILS: PAGE 1

and Capability						Storie Index	Scores	SITE ASSESSI Project Size Sc		=
SOIL MAP		PROPORTION	rcc	LCC	rcc	STORIE	STORIE	icc	LCC	LCC
UNIT	ACRES	PROJECT AREA		POINTS	SCORE	INDEX	SCORE	I-II	m	IV-VIII
132	6 acres	0.26	I*	100	26	73	19	6 acres		
133	5 acres	0.22	IIIe	70	15.4	66	14.5		5 acres	÷,
178	12 acres	0.52	Шw	60	31.2					
.,,	17 400	0.32	шм		31.2	50	26	• .	12 acres	
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				•			•			
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				,						
•										•
,										
			•							
		·								
		·				•				
only if irrigated	•						÷			
	-								•	
•										
TOTALS								6 acres	17 acres	•
	23 acres	1			72.6]	59.5	0 points	10 points	
					HIGHES	T PROJECT SL	ZE SCORE		10 points	
roject Size Scori Class I or II		Class III		Class IV-VIII	ĭ					
Acreage				Acreage	Points					
-80				320	100					·
i0 to 79 i0 to 59				240 to 319 160 to 239	80 60					
20 to 39				100 to 159	40	-				
10 to 19	30	40 to 59	60 4	10 to 9 9	20	-		•		:
<10 .			30 - 10	<40	0					
)			•				•
		`		•						A 1

VIII = Opts.

DURCES: California Agricultural Land Evaluation and Site Assessment Model - California Department of Conservation, 1997; USDA Soil Survey and

SCENARIO #3 - TERRACE POINT 1995 AGRICULTURAL SUITABILITY STUDY LESA WORKSHEET WATER RESOURCES: PAGE 2

IRRIGATED	ailability PORTION	DRYLAND	PORTION	WATER	1	PROPORTION	WATER AVAILABILITY	WEIGHTED AVAILABILITY
CROPS	ACRES	CROPS	ACRES	SOURCES		PROJECT AREA	SCORE	SCORE
lone	0 acres	None	0 acres	City water at \$1,500/acre/year plus \$30,400 hook-up fee plus \$1,238 yearly readiness fee.		. 1	0 to 30	0 to 30
•		÷		•		4		
	•							
	•							
							•	
•								
				•		•		
•					-	•		
		•						
							•	
				•				
TOTALS				·	1	1]	WATER RESOURCE	· · · · · · · · · · · · · · · · · · ·
		•		•			SCORE	0 to 30
	Non-Dro	ought Year Rest	rictions		Drou	ght Year Restricti	one	Water Resource
	Irrigation	Physical	Economic	• •				Score
	Feasible	Restrictions	Restrictions	Irriga Fea	uon sible	Physical Restrictions	Economic Restrictions	
OPTIONS	2000	370	270					
l 2	YES YES	NO NO	NO NO		YES YES	NO NO	NO YES	100 95
•	YES	NO	YES	•	YES	NO	YES	90
	YES	NO	NO		YES	YES	NO	85
; ;	YES YES	YES YES	NO NO		YES YES	YES	YES	- 80 - 75
,	YES	NO	YES		YES	YES YES	no — Yes	- 75
.	YES	NO	NO		NO	1233	123	65 50
•	YES	YES	YES		NO	•		45
10	YES	YES	NO	<u>.</u>	NO	•		35
11	YES	YES	YES	:	NO		-	30
	NO		•	rainfall adequate for dryland crops				25
12 13	NO			rainfall inadequate in drought years				

and SAGE Associates field assessments, 2002.

SCENARIO #3 - TERRACE POINT 1995 AGRICULTURAL SUITABILITY STUDY LESA WORKSHEET SURROUNDING LAND USES: PAGE 3

.rounding Agricul	ZOI ACRES RESC		ted Resource Land PERCENT IN AGRICULTURE	PERCENT IN PROTECTED RESOURCES	SURROUNDING AGRICULTURE LAND SCORE	SURROUNDING PROTECTED RESOURCE LAND SCORE	
434 acres	118 acres	214 acres	28%	51%	10	60	

Surrounding Agricultural Land Scoring Table		Surrounding Protected Resource Land Scoring Table				
Percent of ZOI in	Surrounding	Percent of ZOI	Protected			
Agriculture .	Agricultural	Protected	Resource			
	Land Score		Land Score			
90-100	100	90-100	100			
0-89	95	80-8 9	95 -			
10-79	96	70-79	90			
5 -69	85	65-69	85	•		
0-64	80	60-64	80			
15- 59	. 70	\$5-59	76			
0-54	6 0 ·	50-54	60	:		
15-49	50 ,	45-49	. \$0			
10-44	40 '	40-44	40			
15-39	30	35-39	. 30			
0-34	20	30-34	· 20			
0-29	10	20-29	10			
	0	<20				

E Associates field assessments, 2002.

~		
FACTOR SCORES	FACTOR WEIGHT	WEIGHTED FACTOR SCORES
		18.2 14.9
ptotal	0.5	33.1
30	0.15	4.5
		0 to 4.5
		1.5 3
btotal	0. .5	9 to 13.5
CORE		42.1 to 46.6
	72.6 59.5 btotal 30 0 to 30 10 60	72.6 0.25 59.5 0.25 50total 0.15 0 to 30 0.15 10 0.15 60 0.05 6total 0.5

Note: Not considered a significant agricultural resource since SA subscore is less than 20 points.

California LESA Model Scoring Thresholds

Total LESA Score Scoring Decision

0 to 39 Points Not Considered Significant.

40 to 59 Points Considered Significant only if LE and SA subscores are each greater than or equal to 20 points.

60 to 79 Points Considered Significant unless either LE or SA subscore is less

Considered Significant unless either LE or SA subscore is less than 20 points.

80 to 100 Points Considered Significant.

Note: LESA Model is designed to make determinations of the potential significance of a project's conversion of agricultural lands during the Initial Study phase of the CEQA review process.

SOURCES: California Agricultural Land Evaluation and Site Assessment Model - California Department of Conservation, 1997; USDA Soil Survey; and SAGE Associates field assessments, 2002.

SCENARIO #4 - TERRACE POINT PESTICIDE USE 300-FOOT SETBACK LESA WORKSHEET SOILS: PAGE 1

ND EVALUAT						Storie Index S		SITE ASSESS Project Size S	MENT WORKS	HEET
SOIL MAP UNIT	PROJECT	n PROPORTION PROJECT AREA	LCC	LCC POINTS	LCC SCORE	STORIE INDEX	STORIE SCORE	LCC I-II	LCC III	LCC IV-VIII
32	7.1 acres	0.41	I*	100	41	73	30	7.1 acres		
133	3.7 acres	0.21	Ше	70	15	66	14		3.7 acres	
78	6.5 acres	0.36	Шw	60	23	50	19		6.5 acres	
						1				
							-			
				ŧ			1			
				*			4	•		
nly if irrigated			•							
OTALS	17.3 acres	1 1	 [.		[79		63	7.1 acres	10.2 acres	
	17.5 acres	<u> </u>	J			LI ST PROJECT S		• points	10 points	· · · · · · · · · · · · · · · · · · ·
roject Size Scor lass I or II	ing Table:	Class III	** ***********************************	Class IV-VII						
creage 90	Points 100	Acreage >160	Points 100	Acreage >320	Points 100					
to 79 to 59	90 80	120 to 159 80 to 119	90 80	240 to 319 160 to 239	80 60				_	
to 39 to 19	50 30	60 to 79 40 to 59	70 60	100 to 159 40 to 99	20	•		•		
10	6	20 to 39 10 to 19 <10	30 10 0	<40	0					
CC Scoring: 1	_100_t_ Ti	le=90pts. Hs,w=		– 70nte IIIe w	-60ab 13/a	- 80-t- TV		20-4- 3/1		10ata

SAGE Associates field assessments, 2002.

SCENARIO #4 - TERRACE POINT PESTICIDE USE 300-FOOT SETBACK LESA WORKSHEET WATER RESOURCES: PAGE 2

ter Resources Ava IRRIGATED	ilability PORTION	DRYLAND	PORTION	WATER	PROPORTION	WATER AVAILABILITY	WEIGHTED AVAILABILITY
CROPS	ACRES	CROPS	ACRES	SOURCES	PROJECT AREA	SCORE	SCORE
ne	0 acres	None	0 acres	City water at \$1,500/acre/year plus \$30,400 hook-up fee plus \$1,238 yearly readiness fee	1	0 to 30	0 to 30
							. '
				•			
				•			
						•	
				·			
							,
						•	•
OTALS					1	WATER RESOURCE	<u></u>
JIALS .					1 1	SCORE	0 to 30
· · · · · · · · · · · · · · · · · · ·	Non-Dr	ought Year Rest	rictions	D	rought Year Restric	tions	Water Resource
		Physical	Economic	Irrigatio		Economic	Score
	Irrigation Feasible	Restrictions	Restrictions	Feasib	=	Restrictions	
TIONS	YES	NO	NO	Y	s no	NO	100
	YES	NO	NO	YI		YES	95
	YES	NO	YES	Yi		YES	90
	YES	NO	NO	Y		NO	85
	YES	YES	NO	Y		YES	80
	YES	YES	NO	Yi		NO	75
	YES	NO	YES	, YI		YES	-65
	YES	NO	NO		0	- _	50
	YES	YES	YES		o		45
	YES	YES	NO		Ö		35
•	YES	YES	YES		0	•	30
· ·	NO	1 EAJ		rainfall adequate for dryland crops	-		25
	NO	•		rainfall inadequate in drought years			20
•	140					1	
	NO			crop production not feasible			0 .

T WORKSHEET

TOTAL ZOI ACRES	Itural Land and Su AGRICULTURE ACRES		cted Resource Land PERCENT IN AGRICULTURE	PERCENT IN PROTECTED RESOURCES	SURROUNDING AGRICULTURE LAND SCORE	SURROUNDING PROTECTED RESOURCE LAND SCORE
434 acres	118 acres	214 acres	28%	51%	10	60

Surrounding Agricultural Land Scoring Table Surrounding Protected Resource Land Scoring Table Percent of ZOI in Surrounding Percent of ZOI Protected Agriculture Agricultural Protected Resource Land Score Land Score 90-100 100 90-100 100 80-89 95 **80-89** 95 70-79 90 70-79 90 65-69 85 65-69 85 60-64 60 60-64 80 55-59 55-59 50-54 60 50-54 60 45-49 50 45-49 50 40-44 40 40-44 35-39 30 35-39 30 30-34 20 30-34 20 20-29 10 20-29 10 <20

FACTOR	.	FACTOR SCORES	FACTOR WEIGHT	WEIGHTED FACTOR
				SCORES
LAND EVALUATION FACTORS				
Land Capability Classification	•	79	0.25	19.75
Storie Index		63	0.25	15.75
	Land Evaluation Subtotal		0.5	35.5
SITE ASSESSMENT FACTORS				
Project Size		10	0.15	1.5
Water Resource Availability		0 to 30	0.15	0 to 4.5
Surrounding Agricultural Land Protected Resource Land		10	0.15	1.5
Fibiecied Resource Land	Site Assessment Subtotal	60	0.05 0.5	3 6 to 10.5
	·		V. .5	. 010 10.3
	FINAL LESA SCORE			41.5 to 46
•				
•				Note: Not considered a significa
				agricultural resource since SA
•				subscore is less than 20 points.
4				
			·	
				V
California LESA Model Scoring Thresholds				i
		Scoring Decision		
Total LESA Score		Scoring Decision Not Considered Sign	nificant.	
Total LESA Score 0 to 39 Points		Not Considered Sign		
Total LESA Score 0 to 39 Points			ant only if LE and S/	∆ •ubscores are each
California LESA Model Scoring Thresholds Total LESA Score 0 to 39 Points 40 to 59 Points 60 to 79 Points		Not Considered Signific Considered Signific greater than or equa Considered Signific	ant only if LE and S/ i to 20 points.	subscores are each or SA subscore is less
Total LESA Score 0 to 39 Points 40 to 59 Points		Not Considered Signific Considered Signific greater than or equa	ant only if LE and S/ i to 20 points.	

Note: LESA Model is designed to make determinations of the potential significance of a project's conversion of agricultural lands during

SOURCES: California Agricultural Land Evaluation and Site Assessment Model - California Department of Conservation, 1997; USDA Soil Survey; and

the Initial Study phase of the CEQA review process.

SAGE Associates field assessments, 2002.

SCENARIO #5 - TERRACE POINT 500-FOOT COMPATIBILITY SETBACK LESA WORKSHEET SOILS: PAGE 1

nd Capability Cl SOIL MAP	**************************************	•								
UNIT		PROPORTION PROJECT AREA	LCC	LCC POINTS	LCC SCOR		STORIE	Project Size S LCC I-II	III CC	LCC IV-VIII
32	3.1 acres	0.55	I*	100	55	73	40.2	3.1 acres		
78	2.5 acres	0.45	IIIw	60	27	50	22.5		2.5 acres	
			-				4			٠
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nly if irrigated					•					
		-	*							
OTALS	S (_			1	ſ	(3.1 acres	2.5 acres	
•	5.6 acres	1 .]	. ,	HIG	HEST PROJECT	SIZE SCORE	0 points	0 points	
oject Size Scori							- · · · · · · · · · · · · · · · · · · ·			
ass I or II reage		Class III Acreage	Points	Class IV-VI Acresge	11 Points					
0		>160	100	>320	100					
to 79 to 59		120 to 159 80 to 119	90 80	240 to 319 160 to 239	80 60					
to 39		60 to 79	70	100 to 159	40		*			
to 19		40 to 59	60	40 to 99	20					
10		20 to 39	30	<40	·O					
		10 to 19 <10	10 0							
		•								
CC Scoring: I = III = 0pts.	100pts. II	e = 90pts. IIs,w =	80 pts. IIIe=	70pts. IIIs,w	r ≈ 60pts. T	Ve = 50pts. IVs,	w = 40pts. V =	= 30pts. VIe,s,w	= 20pts. VIIe	s,w = 10pts.

SCENARIO #5 - TERRACE POINT 500-FOOT COMPATIBILITY SETBACK LESA WORKSHEET WATER RESOURCES: PAGE 2

IRRIGATED	PORTION	DRYLAND CROPS	PORTION ACRES	WATER SOURCE		PROPORTION PROJECT AREA	WATER AVAILABILITY SCORE	WEIGHTED AVAILABILITY SCORE
CROPS	ACRES	CROIS	ACRES	SOURCE	3	PROJECT AREA	SCORE	SCORE
ne	0 acres	None	0 acres	City water at \$1,500/ \$30,400 hook-up fee	e plus \$1,238	1	0 to 30	0 to 30
				yearly readin	esa fee.		•	
				and the second s	1			
				•				•
		-						
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		J						
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		•						
				•				
		~			•			
•				• •	2		•	
				•				-
		-						-
			•					
*								
	-			•		<i>t</i>		
				•		1 -	WATER	·
TOTALS						1	RESOURCE SCORE	0 to 30
							SCORE	
	Non-D-	ought Year Rest	rictions		Dı	ought Year Restric	tions	Water Resource
	NOA-DI	· ·			- -			Score
4	Irrigation	Physical	Economic		Irrigation	n Physical	Economic	
	Feasible	Restrictions	Restrictions		Feasibl	e Restrictions	Restrictions	
OPTIONS								
l	YES	NO	NO	•	YE		NO	100
2	YES	NO	NO	•	YE		YES	95
3	YES	NO	YES		YE		YES	90 85.
<u>.</u>	YES YES	NO YES	NO NO	•	YE YE		NO YES	80
5 6	YES	YES	NO		YE		NO .	. 75
5 7	YES	NO	YES		YE		YES	65
B	YES	NO	NO		N			50
9	YES	YES	YES		, N			45
10 ·	YES	YES	NO	•	N			35
11 .	YES	YES	YES		N	0		30
12	NO			rainfall adequate for dr	-			25
13	NO			rainfall inadequate in d			•	20 0
14 .	NO	Land Evaluation		crop production not fee	BIDIE	- 1		

OTT.	A COPOCE	TENT WO	MY/OTHER

	434 acres	118 acres	214 acres	28%	51%	. 10	60
-	ACRES	ŀ	ACRES	AGRICULTURE	RESOURCES	SCORE	SCORE
	ZOI	ACRES	RESOURCE	IN	PROTECTED	LAND	RESOURCE LAND
-	TOTAL	AGRICULTURE	PROTECTED	PERCENT	PERCENT IN	AGRICULTURE	PROTECTED
	urrounding Agricuد	Itural Land and Su	rrounding Prote	cted Resource Land	SURROUNDING	SURROUNDING	

Surrounding Agricultural Land Scoring Table Surrounding Protected Resource Land Scoring Table Surrounding Percent of ZOI in Percent of ZOI Protected Agriculture Agricultural Protected Resource Land Score Land Score 90-100 100 90-100 100 80-89 95 80-89 95 70-79 90 70-79 90 65-69 85 65-69 60-64 80 60-64 55-59 70 55-59 50-54 60 50-54 45-49 40-44 40 35-39 35-39 - 30 30-34 20 30-34 20 20-29 20-29 10 10 <19 <20

YOURCES: California Agricultural Land Evaluation and Site Assessment Model - California Department of Conservation, 1997; USDA Soil Survey; and SAGE Associates field assessments, 2002.

FINAL LESA SCORESHEET		•	
Land Evaluation and Site Assessment Factors			
FACTORS	FACTOR SCORES	FACTOR WEIGHT	WEIGHTED FACTOR SCORES
LAND EVALUATION FACTORS Land Capability Classification Storie Index	82 62.7	0.25 0.25	20. 5 15. 7
Land Evaluation Subtotal		0.5	36.2
SITE ASSESSMENT FACTORS			
Project Size	. 0	0.15	O
Water Resource Availability	0 to 30	0.15	0 to 4.5
Surrounding Agricultural Land	10	0.15	1.5
Protected Resource Land	60	0.05	3
Site Assessment Subtotal		0.5	4.5 to 9
FINAL LESA SCORE			40.7 to 45.2
		-	

Note: Not considered a significant agricultural resource since SA subscore is less than 20 points.

California LESA Model Scoring Thresholds

Total LESA Score

Scoring Decision

0 to 39 Points

Not Considered Significant.

40 to 59 Points

Considered Significant only if LE and SA subscores are each greater than or equal to 20 points.

60 to 79 Points

Considered Significant unless either LE or SA subscore is less

than 20 points.

80 to 100 Points

Considered Significant.

Note: LESA Model is designed to make determinations of the potential significance of a project's conversion of agricultural lands during the Initial Study phase of the CEQA review process.

SOURCES: California Agricultural Land Evaluation and Site Assessment Model - California Department of Conservation, 1997; USDA Soil Survey; and SAGE Associates field assessments, 2002.

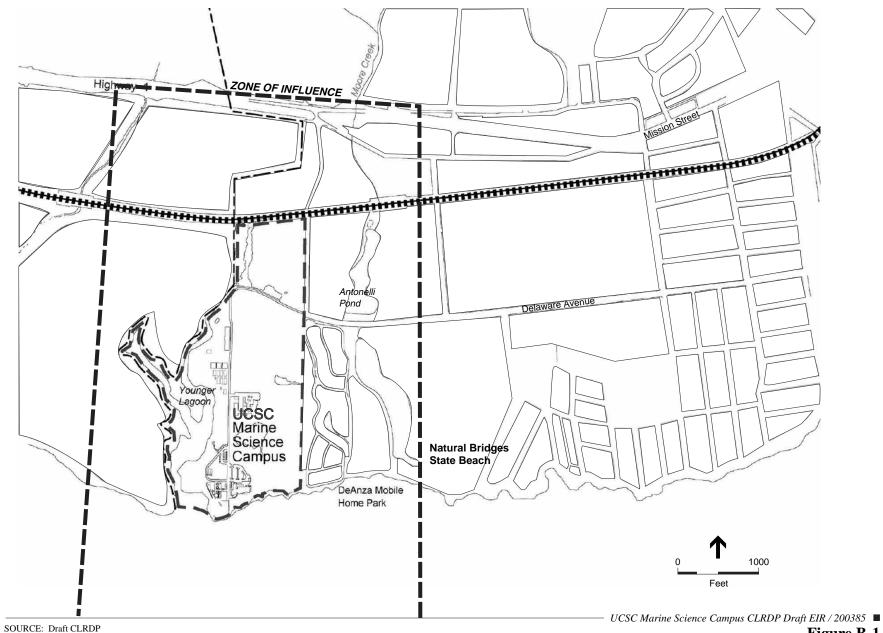
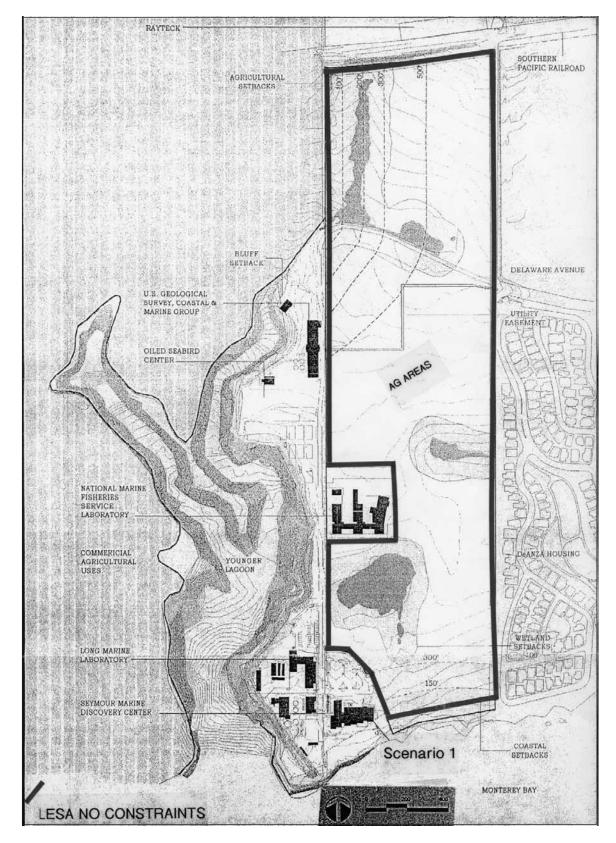
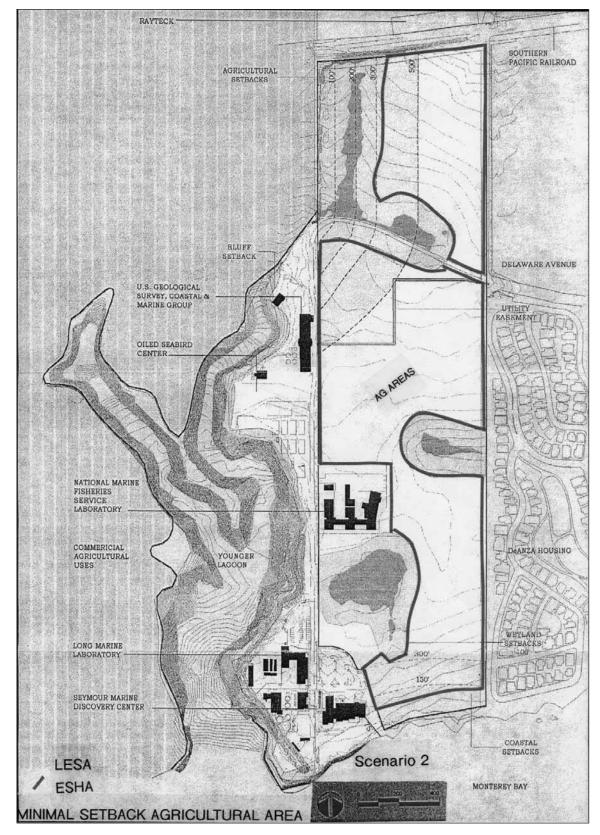


Figure B-1 LESA Zone of Influence Boundary



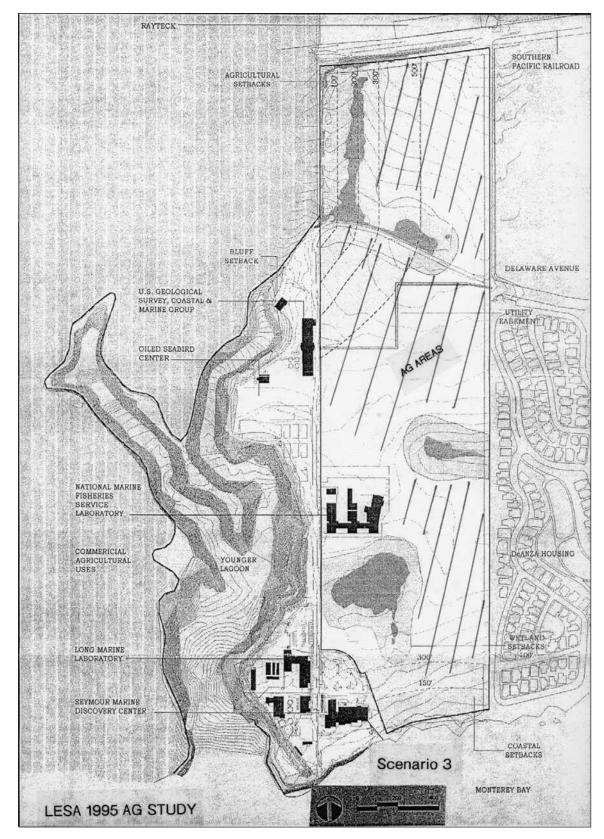
UCSC Marine Science Campus CLRDP Draft EIR / 200385 ■

Figure B-2 LESA Scenario 1: No Constraints



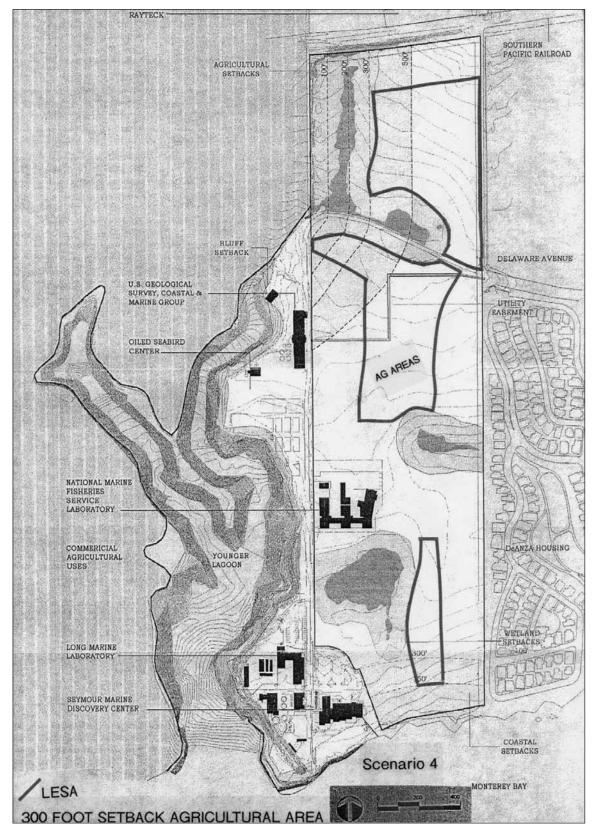
UCSC Marine Science Campus CLRDP Draft EIR / 200385 ■

Figure B-3 LESA Scenario 2: 100-Foot Wetland ESHA Setback



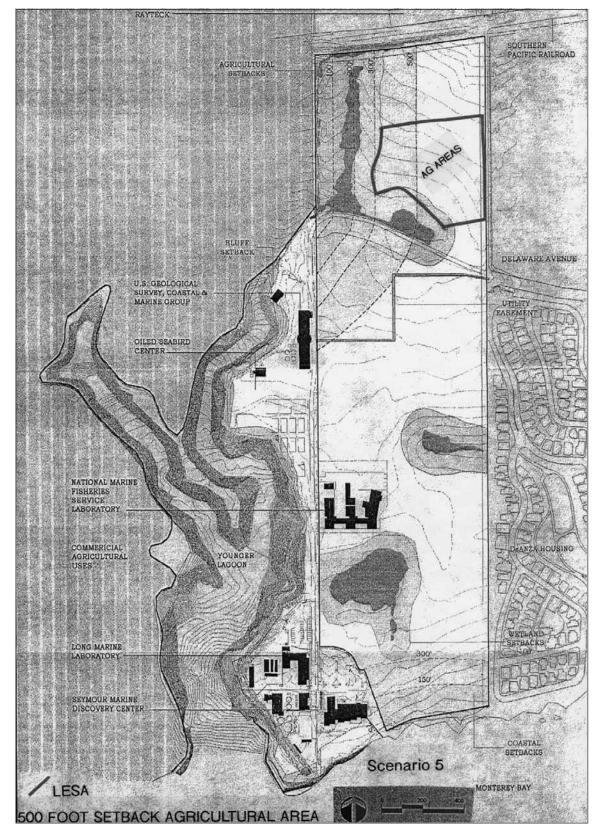
UCSC Marine Science Campus CLRDP Draft EIR / 200385

Figure B-4 LESA Scenario 3: 1995 Agricultural Suitability Study



- UCSC Marine Science Campus CLRDP Draft EIR / 200385 ■

Figure B-5 LESA Scenario 5: 300-Foot Pesticide Use Setback



- UCSC Marine Science Campus CLRDP Draft EIR / 200385 ■

Figure B-6

APPENDIX C

MODELING OF TAC EMISSIONS FROM DEVELOPMENT UNDER THE CLRDP

APPENDIX C

MODELING OF TAC EMISSIONS FROM DEVELOPMENT UNDER THE CLRDP

INTRODUCTION

The incremental health risks from the project would be due to increased toxic air contaminant (TAC) emissions from the various project components. This includes TAC emissions during construction and emissions during operations. With regard to construction, emissions of TAC emissions would be released from diesel engines on construction equipment and from fugitive emissions of contaminated soil during clearing and grading activities. During operations, TAC emissions would occur from diesel vehicles servicing the site (buses and delivery trucks), from laboratory fume hoods, and from back-up diesel generators. Impacts from construction and operations were determined by conducting dispersion modeling of TAC emissions from sources related to the CLRDP and estimating the health risks at offsite receptors from the predicted TAC concentrations

Health risks from the CLRDP were determined by conducting dispersion modeling of the TAC emissions to determine exposure levels at offsite receptors. Local meteorological data that are representative of the area were used in the dispersion modeling. The health risks for carcinogens were then estimated by multiplying the exposure concentrations by unit risk values for the toxic species of concern. These unit risk values are expressed as the probability of contracting cancer if the exposure level is one microgram per cubic meter over 24 hours per day, 365 days per year, and 70 years. The unit risk values that are used in the study were established by California Office of Environmental Health Hazard Assessment (OEHHA). This appendix presents the methodology and assumptions used to estimate exposure concentrations of TACs.

METEOROLOGICAL DATA FOR THE DISPERSION MODELING

The project site is located within the North Central Coast Air Basin, which is comprised of Santa Cruz, Monterey, and San Benito Counties. The site is situated in the northwest sector of the Basin, in an area topographically dominated by the Santa Cruz Mountains.

The topography and climate of the Basin combine to make it an area of smog potential. During summer and fall months, onshore air currents push a marine layer of fog and relatively cool air into the coastal valleys. A warm air mass -- known as an inversion layer -- will frequently descend over the lower marine air layer, acting as a cap and inhibiting air pollutants generated near the ground from dispersing upward. Light summer and fall winds and surrounding mountains further limit the horizontal disbursement of the pollutants. Concentrating volumes of pollutants in this manner allows the summer and fall sunlight to generate high levels of smog. In the winter and spring, the general absence of deep, persistent inversion layers and occasional storms usually result in good air quality for the Basin.

The primary factors that determine air quality are the locations of air pollutant sources and the amounts of pollutants emitted. Meteorological and topographical conditions are also important factors. Atmospheric conditions such as wind speed, wind direction, and air temperature gradients interact with the physical features of the landscape to determine the movement and dispersal of air pollutants. The Monterey Bay Area climate is Mediterranean in character, with mild, rainy winter weather from November through March, variable weather from April to June, and warm, dry weather from June through October. A high percentage of sunshine prevails away from the immediate coast, particularly in the summer. Movements of marine air, which in large part determine the temperature, humidity, wind, and precipitation throughout the year, depend upon the location and strength of the dominant Pacific high-pressure system and the coastal temperature gradient. Within the Monterey Bay Area, average air temperature tends to increase as distance from the coast increases. Coastal fog is common to the project area.

In the summer, the Pacific high-pressure system typically remains near the coast of California, diverting storms to the north. Subsidence of warm air associated with the Pacific high creates frequent summer atmospheric temperature inversions. Subsidence inversions may be several hundred to several thousand feet deep, effectively trapping pollutants in a small volume of air near the ground. In the winter, the Pacific high-pressure system moves southward, allowing ocean-formed storms to move through the region. Stagnant atmospheric conditions can exist for several days between storms. During this time, frequent storms and infrequent periods of sustained sunny weather are not conducive to smog formation. Radiation cooling during the winter evenings, however, sometimes creates thin inversion layers and concentrates air pollutant emissions near the ground.

UCSC operates a meteorological tower (**Figure 1**), collecting wind and temperature data. The station is located within the southwest portion of the UCSC Marine Science Campus. Three years of meteorological data from this location were processed for use by dispersion models. Data from 1999 through 2001 were used. The average temperature was approximately 52.4°F with an average wind speed of 7.38 miles per hour and hourly maximum wind speeds of 40 miles per hour. The windiest period is during April and May. Temperatures ranged from a maximum of 75°F during August and a minimum of 36°F during December. Approximately 30 inches of precipitation occurs at this location, primarily during the months of November through March, and relative humidity tends to be greater than 60 percent.



Figure 1. Meteorological Tower

METEOROLOGICAL DATA PROCESSING

The UCSC meteorological monitoring station provides information including:

- Wind speed
- Wind direction
- Ambient temperature
- Sigma theta (δ_{θ}) or standard deviation of the horizontal wind direction (degrees), which was used to compute atmospheric stability

The meteorological data required by the dispersion model includes hourly, sequential values of wind speed, flow vector (direction toward which the wind is blowing), ambient temperature, atmospheric stability, and mixing height. The data processing was based on the procedures within *On-Site Meteorological Program Guidance for Regulatory Modeling Applications*. To process onsite meteorological data, the following general steps were conducted:

- 1. Substitution of missing data in durations of one or two hours.
- 2. Identification of calm wind speed hours.
- 3. Calculation of atmospheric stability.
- 4. Determination of the mixing height.

Missing Data. Periods of one or two consecutive hours of a missing parameter were replaced by linear interpolation. There were several periods of large blocks of missing data, most notably November and December of 2001, and these periods were left as missing. The missing program (MSGPRO) control option was set to perform dispersion modeling to account for some missing data after processing. Predicted concentrations during missing hours were set to zero by the model per EPA guidance.

Calm Wind Speeds. Identification of calm hours for modeling purposes was done considering the characteristics of the meteorological instrumentation. Winds were considered calm if the reported speeds were less than the instrument starting-threshold (e.g., 0.5 meters per second). The dispersion model does not calculate a concentration for hours with calm wind speeds. For any hour in which the wind speed was between the sensor starting threshold and 1 meter per second, the wind speed was set to one meter per second. Less than 3 percent of the period was reported as calm wind conditions.

Atmospheric Stability. A turbulence-based method was used for determining atmospheric stability. Sigma theta (the deviation in the horizontal wind direction) and wind speed measurements from the 20-meter level tower were used as the stability classification technique. Classification was based on EPA guidelines, including day, night, and wind speed correction factors. In accordance with EPA guidelines, hourly stability classes were smoothed so that the stability does not change by more than one category from one hour to the next.

Mixing Height. The depth of the mixed layer, or mixing height, is an important variable in dispersion models. The mixing height determines the vertical extent of the dispersion process for releases below the mixing height, while releases above the mixing height are assumed to have no ground-level impacts. Nocturnal inversions generally form at approximately sunset and dissipate about one to two hours after sunrise. Generally, the height of the mixed layer rises and falls in a diurnal cycle (highest during the early afternoon and lowest before sunrise). The mixing heights are generally lower during the fall and winter which usually results in higher impacts of constituents due to less dilution and dispersion. Estimates for morning and afternoon mixing heights (Table 1) are based on Holzworth's method, which interpolates mixing heights using the afternoon mixing heights from the preceding day and the morning and afternoon mixing heights from the following day (Holzworth, 1972).

TABLE 1
AVERAGE SEASONAL MIXING HEIGHTS

	Winter	Spring	Summer	Fall	Annual
Morning	453	763	527	508	563
Afternoon	709	1121	644	770	811

Additional assumptions in order to process the meteorological data include:

- Station Latitude of 36.95
- Station Longitude of 122.06
- Station Time Zone of 10
- Station Height of 20 meters
- Roughness Length of 0.0001 meters, based on a water surface environment

METEOROLOGICAL DATA SUMMARY

A wind rose is a graphical presentation of wind speed and direction frequency distribution. Wind direction is the true bearing when facing the wind (the direction from which the wind is blowing). As seen in **Figure 2**, wind directions are predominately from the west (off the Pacific Ocean). This figure is a three-year (1999 through 2001) composite windrose for the station. The winds from the easterly direction tend to be during the nighttime.

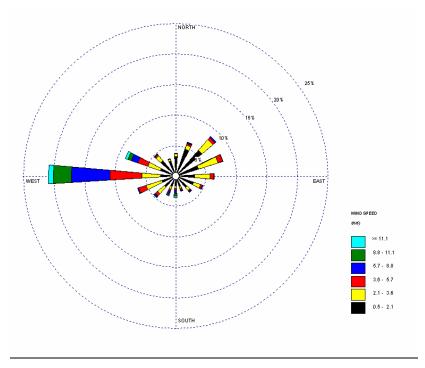


Figure 2. Windrose for UCSC during 1999 through 2001

The rate at which emissions are dispersed in the atmosphere depends upon the intensity of the ambient turbulence, the velocity of the wind, the position relative to obstacles in the flow field, and any dilutions attributable to the source itself. The most important factor leading to plume spread in the atmosphere is the amount of ambient turbulence. In a stable atmosphere, the horizontal and vertical turbulence is very limited. The plume remains near its emission height and undergoes minimal mixing. This situation is common during the nighttime and early morning hours. If the layer below the plume height becomes neutral to unstable, the plume mixes rapidly to the surface. This is known as a fumigation condition and can cause high concentrations. This occurs for short duration during the early morning. As heating of the surface persists, a fully unstable mixing layer develops, and the plume loops up and down in response to large-scale convective eddies. A neutral stability atmosphere yields moderate amounts of turbulence and results in a cone-shaped plume. Finally, if an inversion is present below the emission height, a lofting condition exists and the plume is cut off from ground level impacts.

Stability class frequencies were calculated from the deviation of the horizontal wind direction (sigma theta). The Sigma Theta method was used to categorize stability class as a function of wind speed and time of day. Stability classes range from extremely unstable (A) to moderately stable (F). These classes are used in dispersion models to estimate how much a plume will spread over time and space. In general, the more stable the atmosphere is, the less potential for plume spread, creating higher plume concentrations.

When wind speeds exceed 6.0 meters per second, the stability class defaults to D, E, and F stabilities occur only during the night. A majority of the hours involve neutral stability (D) with a predominance of stable conditions. The station shows greater frequency (**Figure 3**) of moderately stable conditions and extremely unstable conditions due to its ocean location and shallower surface roughness.

DISPERSION MODELING

Dispersion is the process by which atmospheric pollutants disseminate due to wind and vertical stability. The results of a dispersion analysis are used to access pollutant concentrations at or near an emission source. The results of an analysis allow a direct comparison of predicted concentrations of pollutants to air quality standards.

A rising pollutant plume reacts with the environment in several ways before it levels off. First, the plume's own turbulence interacts with atmospheric turbulence to entrain ambient air. This mixing process reduces and eventually eliminates the density and momentum differences that cause the plume to rise. Second, the wind transports the plume during its rise and entrainment process. Higher winds mix the plume more rapidly, resulting in a lower final rise. Third, the plume interacts with the vertical temperature stratification of the atmosphere, rising as a result of buoyancy in the unstable-to-neutrally stratified mixed layer. However, after the plume encounters the mixing lid and the stably stratified air above, its vertical motion is dampened.

Dispersion modeling uses hourly averaged meteorological data, terrain elevation data, and emissions and source release data to compute downwind pollutant concentrations over averaging periods ranging from one hour to one year. This section presents the methodology used for the dispersion modeling analysis. The methodology is consistent with procedures documented in the EPA *Guideline on Air Quality Models (Revised, 1993)*.

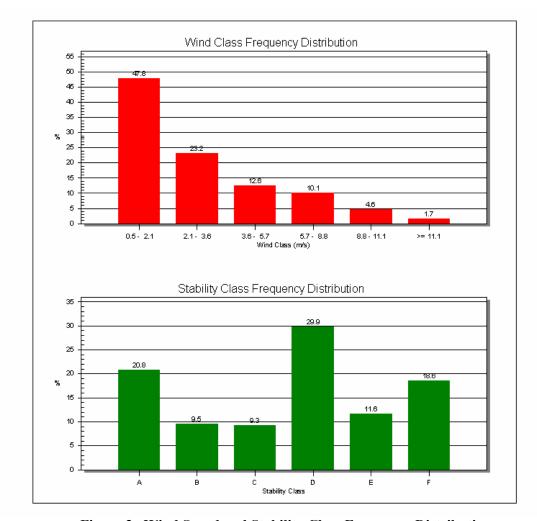


Figure 3. Wind Speed and Stability Class Frequency Distribution

Molecules of gas or small particles injected into the atmosphere will separate from each other as they are acted on by turbulent eddies. The Gaussian mathematical model simulates the dispersion of the gas or particles within the atmosphere. The formulation of the Gaussian model is based on the following assumptions:

- The predictions are not time dependent (all conditions remain unchanging with time);
- The wind speed and direction are uniform, both horizontally and vertically throughout the region of concern;
- The rate of diffusion is not a function of position; and
- Diffusion in the direction of the transporting wind is negligible when compared to the transport flow.

The Gaussian dispersion model algorithm provides a simple analytical method of estimating downwind concentrations, where concentration is a function of several basic elements:

- Initial plume height (sum of the physical stack height and the plume rise);
- The source emission rate;

- The horizontal and vertical plume distribution (based on atmospheric stability);
- The wind speed at source height;
- The height of the receptor;
- The off-centerline of the receptor; and
- The downwind distance from the source to the receptor.

This section addresses all of the fundamental components of an air dispersion modeling analysis including:

- Model selection and options;
- Receptor spacing and location;
- Building wake effects; and
- Source release characteristics.

Model Selection and Options

The Industrial Source Complex-3 (ISC3) model was used for the modeling analysis. The ISC3 model is an appropriate model for this analysis based on the coverage of simple, intermediate, and complex terrain. It also predicts both short-term and long-term (annual) average concentrations. The model was executed using the regulatory default options (stack-tip downwash, buoyancy induced dispersion, final plume rise), default wind speed profile categories, default potential temperature gradients, no deposition/depletion of particulate matter, and no pollutant decay. Building wake effects were also addressed.

The selection of the appropriate dispersion coefficients used in the modeling depends on the land use within three kilometers (km) of the project. The land use typing was based on the classification method defined by Auer (1978); using pertinent United States Geological Survey (USGS) 1:24,000 scale (7.5 minute) topographic maps of the area. If the Auer land use types of heavy industrial, light-to-moderate industrial, commercial, and compact residential account for 50% or more of the total area, the *Guideline on Air Quality Models* recommends using urban dispersion coefficients; otherwise, the appropriate rural coefficients were used. Based on visual observation of the area, rural dispersion coefficients were applied in the analysis.

RECEPTOR SPACING AND LOCATION

A Cartesian receptor grid was used in the analysis. Receptors were placed at 50-meter intervals along the UCSC fence line. Outside the fence line, additional receptors were placed at distances from the fence line out to a distance of 10 kilometers in all directions from the facility. This receptor grid is adequate to determine the maximum impact location and to account for the sensitive receptors at such locations as churches, schools, and residences including the De Anza Santa Cruz residential community neighboring the campus. This receptor grid provides more than 950 receptor points within the modeling analysis.

BUILDING WAKE EFFECTS

Obstructions in the flow, either upwind or downwind of the emission point, can affect both plume trajectory and dispersion rates. For an obstacle to significantly influence a plume, it must be within five to ten "obstruction heights" upwind of the emission point. For example, a building 50 feet tall could be expected to influence the flow for distances of 250 to 500 feet. Generally, the effect of the obstacle in the flow is to create an aerodynamic downwash in its wake, bringing the

plume rapidly to the surface. As the flow approaches an obstruction, the air is initially displaced upwards and those layers nearest the obstruction become caught in the aerodynamic cavity zone with high turbulence and recirculating flow pattern.

Emissions into the cavity zone tend to become rapidly mixed throughout the zone and remain trapped, creating high concentrations within the cavity zone. Above the cavity zone, in the wake zone, dispersion is characterized by increased turbulence without the recirculation characteristics of the cavity zone. A plume emitted into either of the obstacle influenced zones will have a trajectory that brings it rapidly to the surface. To escape the downwash influences of a flow obstacle, a plume should be emitted or should rise due to momentum to a height of at least the obstacle height plus 1.5 times the height or width of the obstacle, whichever is less. This is known as the "good engineering practice" stack height.

To determine the potential for building wake effects, a good engineering practice (GEP) stack height evaluation was conducted. The procedures used in this analysis were according to those described in EPA's *Good Engineering Practice Stack Height (Technical Support Documentation for the Stack Height Regulations—Revised, 1985)*.

Building wake effects influence emissions from stacks with heights less than GEP. The model required input of building heights and projected building widths for 36 wind directions. The EPA Building Profile Input Program was used to determine the direction-specific building dimensions. Buildings or other structures located within a distance of 5 times the building height from each emission source were considered. Building heights within the UCSC campus were estimated as high as 11 meters with lateral dimensions based on facility drawings.

SOURCE RELEASE CHARACTERISTICS

The dispersion modeling was completed to assess pollutant impacts from three conditions: construction, diesel emitting equipment during operations, and laboratory operations. Construction included the operation of grading and surface preparation equipment and the release of fugitive dust from the soil during preparation. The second condition represents the operation of diesel emitting equipment during facility operations, such as emergency generators and delivery/bus traffic. Lastly, the operation of laboratory facility and the emission of toxic air pollutants were analyzed.

Construction emissions are due to the use of grading equipment (producing diesel particulate matter) and fugitive emissions from the disturbance area (producing particulate matter only). **Table 2** displays the disturbance areas included in the analysis. The construction equipment emission factor is based on EPA Compilation of Air Pollutant Emission Factors (AP-42). Emissions assume the use of a wheeled loader (0.17 pounds per hour) for duration of eight hours per day.

In addition to construction vehicle emissions, fugitive dust would also be generated during grading and construction activities. Dust is generated when grading equipment breaks down surface materials. The resulting dust is entrained into the air by wind and vehicle tires. While much of this airborne dust would settle out on, or near, the project site, smaller particles would remain in the atmosphere, increasing existing particulate levels.

TABLE 2
MODELING EMISSION PARAMETERS (CONSTRUCTION CONDITION)

Year	Terrace	Area of Disturbance	Size (acre)	Diesel PM (lbs/day)	PM (lbs/day)	UTM-X (m)	UTM-Y (m)
2010	Upper	Laydown	1.96	1.36	0.98	583,327	4,089,969
	Middle	USGS	4.16	1.36	2.08	583,260	4,089,678
	Lower	Ocean Health	0.20	1.36	0.10	583,201	4,089,438
2020	Upper	Housing	1.37	1.36	0.69	583,363	4,089,930
	Middle	Marine Research	3.59	1.36	1.80	583,266	4,089,765
	Lower	Marine Research	0.51	1.36	0.26	583,248	4,089,432

PM = particulate matter

lbs = pounds

m = meters

The acreage of disturbance is assumed to be equal to twice the size of each building's square footage, but only 25 percent of the total acreage to be disturbed will actually be disturbed on the worst-case day. Fugitive emissions are based on an emission factor of 220 pounds per acremonth. The acres graded per day are based on the same acreage estimates generated for the grading equipment exhaust. Fugitive particulate emissions account for a control efficiency of 80% due to watering and dust suppression applications. Construction is expected to be completed within two periods, 2010 (short-term) and 2020 (long-term).

During facility operations, diesel emissions would be produced through the emergency generators and delivery/bus traffic. Diesel emissions from the generators were based on an equipment size of 388 hp-hr and an emission factor of 0.08 grams/hp-hr. Generators were located near the Marine Research within the middle terrace, the USGS Labs within the middle terrace, and the Marine Research within the lower terrace. The emission exhaust parameters for the generators are shown in **Table 3**. Delivery and bus traffic used an emission rate of 0.134 grams per mile based on URBEMIS2001, urban diesel buses, and a baseline year of 2010. Traffic was simulated as five area sources from the northeast portion of campus (Shaffer Road), along the middle terrace, to the southwest portion of campus (along McAllister Way).

Toxic air pollutants would be released during operations of several research laboratories. A series of emission points were developed to simulate laboratory emissions. These emission points included the Marine Research, USGS, and Ocean Health Laboratories. The Marine Research and USGS Laboratories were further portioned into large and small complexes. **Table 4** displays the source exhaust parameters for laboratory operations. Impacts also include the cumulative effect of the Texas Instruments facility, located approximately 1 kilometer to the east of UCSC. Building dimensions of each laboratory structure were included to account for potential downwash effects.

ESA / 200385

TABLE 3
MODELING EMISSION PARAMETERS (OPERATION CONDITION)

Generator	Height (m)	Diameter (m)	Velocity (m/s)	Temperature (K)	UTM-X (m)	UTM-Y (m)
Middle Terrace Marine Research	3.35	0.076	150	763	583,328	4,089,785
Middle Terrace USGS Labs	3.35	0.076	150	763	583,328	4,089,701
Lower Terrace Marine Research	3.35	0.076	150	763	583,286	4,089,451
m = meters m/s = meters per second K = Kelvin						

TABLE 4
MODELING EMISSION PARAMETERS (LABORATORY OPERATION)

Laboratory	Height (m)	Diameter (m)	Velocity (m/s)	Temperature (K)	
Marine Research (Large)	12.0	1.0	15.0	293	
Marine Research (Small)	12.0	1.0	12.0	293	
USGS (Large)	12.0	1.0	12.0	293	
USGS (Small)	12.0	1.0	12.0	293	
Ocean Health	12.0	1.0	12.0	293	
Texas Instruments	7.0	1.0	15.0	293	

Modeling Results

The objective of the dispersion modeling analysis was to determine the particulate matter, diesel particulate, and toxic air pollutant impacts at nearby receptors. All dispersion modeling was performed using the ISC3 model. Three conditions were analyzed: construction, diesel emitting equipment during operations, and laboratory operations. Cumulative impacts included the operations of the Texas Instruments facility, located approximately 1 kilometer to the northeast of UCSC, on Delaware and Natural Bridges roads. Given the prevailing winds, maximum impacts occur due east of the Marine Science Campus.

Table 5 presents the predicted concentrations due to construction scenario. Impacts were adjusted based on anticipated construction schedules (12 hours per day, 6 days per week) and duration (2 months per year) for each construction area. Maximum impacts occur along the eastern fence line.

TABLE 5
DISPERSION MODELING RESULTS (CONSTRUCTION CONDITION)

Pollutant	Averaging Period	Impact (μg/m ³⁾
Respirable Particulate Matter	24 hour Annual	26.3 1.04
Diesel Particulate Matter	Max. Lifetime Avg.	0.007
$\mu g/m^3 = micrograms per cubic meter$		

Table 6 presents the predicted concentration due to the operation of emergency generators and delivery/bus traffic along campus roads. It was assumed that there would be three emergency generators, with a total of 30 hrs. per year of testing. A majority of the impacts are due to the diesel buses and delivery trucks related to the project.

TABLE 6
DISPERSION MODELING RESULTS (OPERATION CONDITION)

Pollutant	Source	Annual Avg. (μg/m ³⁾
Diesel Particulate Matter	Emergency Gen. Tests Buses and Trucks Total	0.0011 0.017 0.0181
μ g/m ³ = micrograms per cubic meter	Total	0.0101

Concentration impacts were predicted due to laboratory operations. These results are based on a unit emission rate for each of the emission points. Actual impacts were determined for each pollutant of concern based on their actual emission rate. The impacts include operation of the Texas Instruments facility.

APPENDIX D

TRANSPORTATION TECHNICAL DOCUMENTATION

APPENDIX D-1

INTERSECTION COUNTS AND ROADWAY SEGMENT COUNTS

Hour North				East		South				West	Int.		
Ending	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	Total
= === == 07:15	. 2	===== 8	17	===== 4	76	18	-==== · 5	===== 8	=====: 1	==== 0	40	==== = 2	======= 181*
07:30	5	15	41	9	161	30	6	. 9	1	0	88	4^{-}	369*
07:45	6	20	69	20	225	43	11	13	4	4	163	7	585*
08:00	7	32	94	33	308	65	11	20	8	8	232	11	829
08:15	10	47	107	48	325	72	9.	20	10	. 9	248	14	919
08:30	11	54	118	67 [°]	325	83	11	28	10	10	259	17	993
08:45	16	61	114	7.9	326	87	9	32	9	10	239	19	1001
09:00	19	74	120	95	325	92	16	36	7	11	249	24	1068

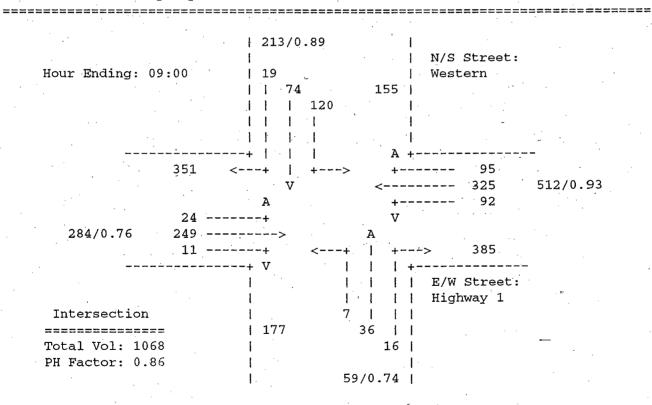
^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #5 Thursday

SUM-IT COUNT DATE 05/24/01

1 - Western and Highway 1

MORNING PEAK



Hour	====:	North	:==== 1	=====	===== East	=====		South	:====: :	=====	West	=====	Int.	== `
Ending	RT	TH	$\mathbf{L}\mathbf{T}$	RT	TH	LT .	RT .	TH	\mathbf{LT}^{\cdot}	RT	TH	LT	Total	
16:15	3	===== 12	===== 25	28	78	·====: 9 _.	10	===== 11	=== = : 4	===== 5	128	===== 4	317*	==
16:30	. 6	28	60	59	172	16.	21	^ 22	4	9	261	10	668*	
16:45	8	40	89	89	254	17	27	30	9	11	365	18	957*	
17:00	12	53	99	129	344	23	37	43	11	14	459	26	1250	
17:15	11	57	99	150	350	23	45	51	12	11	431	27	1267	
17:30	12	54	95	159	307	26	47	53	14	14	385	. 26	1192	
17:45	16	54	104	176	314	34	58	59	14	16	390	. 24	1259	-
18:00	16	53.	113	169	301	36	54	57	13	19	367	21	1219	

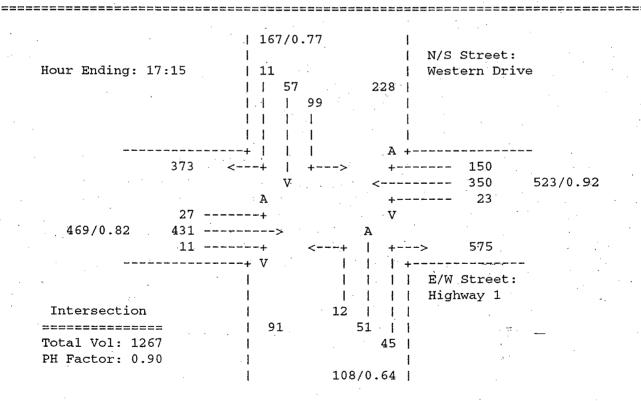
^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #5 Thursday

SUM-IT COUNT DATE 05/17/01

1 - Western Drive and Highway 1

EVENING PEAK



Hour		North		East			South			West			Int.	
Ending	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	Total	
====== 16:15	0	0	 - 0	0.	===== 73	3	====== 5	===== 0	·===== · 4	===== 6	118	== == = 0	209*	
16:30	0	0	0	0	152	4	. 9	. 0	9	7	224	0	405*	
16:45	. 0	0	0 -	. 0	235	6	14	0	12	. 9	338	.0	614*	
17:00	. 0	0	. 0	0	338	8	18	0	18	15	424	0	821	
17:15	0	0	0	0	345	8	15	0	19	13	402	0	802	
17:30	0	0	0	0 .	328	9.	15	0	. 19	17	371	0	759 🖯	
17:45	- 0	0	0	0	339	7	16	. 0	20	22	348	0	752	
18:00	- ,0	0	. 0	0	339	~ 8	15	0.	17	. 26	352	0	757	

^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #6b Tuesday Sunny, clear, WARM

COUNT DATE 05/15/01

1 - Mission and Highway 1

EVENING PEAK

	0/0.00	N/G Ghanah
Hour Ending: 17		N/S Street: Mission
		0
·		A + 0
	V A	< 338 346/0.82 + 8
430.40.00	0+	V
439/0.89	424> 15+ <+	A
Intersection	l 18	1 1 1
Total Vol: 821	23 	0 18
PH Factor: 0.93	1	1
	1 36	/0.90

Hour		North		_	East	•	-	South			West		Int.
Ending	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	Total
07:15	====: 4	===== 6	9	====== 2	96	· 61	 9	====== 2	===== 8	===== 1	=== = 63	1	262*
07:30	5	11	21	2	181	119	61	4	17	7	134	·	563*
07:45	5	20	39	· 7	249	187	98	10	28	. 18	208	1	870*
08:00	5	27	50	10	340	256	130	16	44	29	288	1	1196
08:15	, 1	38	52	14	323	258	176	. 22	55	46	306	0,	1291
08:30	. 1	42	56	22	349	283	161	29	72	57	3,06	0	1378
08:45	1	44	45	25	379	280	153	30	77	63	300	0	1397
09:00	. 2	42	50	30	394	270	160	29	82	68	298	0	1425

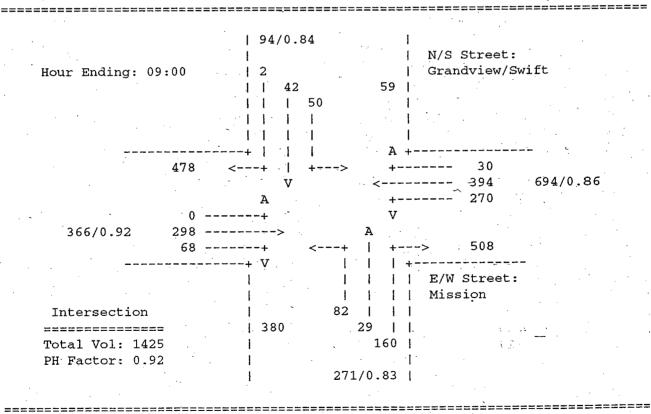
^{*} indicates partial hour total.

City of Santz Cruz - UCSC Long Marine Lab #7
Thursday

SUM-IT COUNT DATE 05/17/01

1 - Grandview/Swift and Mission

MORNING PEAK



Hour		North	٠,		East		-	South			West		Int.	
Ending	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	Total	
 16:15	<u>-</u>	3	11	====== 17	====: 98	48	51	===== 11	17	===== 21	131	-==== · 3	411*	-==
16:30	1	8	24	29	203	98	95	18	32	36	274	4	822*	÷.
16:45	1	18	33	39	304	153	143	22	52	54	412	4	1235*	
17:00	1	22	41	58	395	210	188	29	71	71	527	. 6	1619	
17:15	4	27	38	55	385	216	191	38	73	68	508	5	1608	
17:30	4	25	42	. 57	388	216	198	43	70	68	492	4	1607	
17:45	4	23	45	67	392	226	194	51	67	59	473	. 5	1606	
18:00	4	25	50	62	419	219	190	60	71	57	450	6	1613	

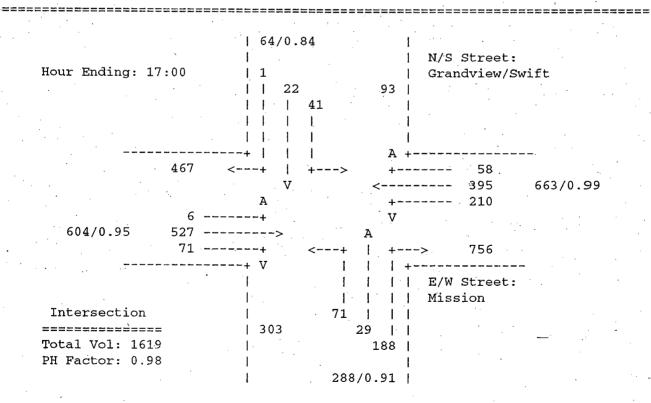
^{*} indicates partial hour total.

City of Santz Cruz - UCSC Long Marine Lab #7 Tuesday

SUM-IT COUNT DATE 05/22/01

1 - Grandview/Swift and Mission

EVENING PEAK



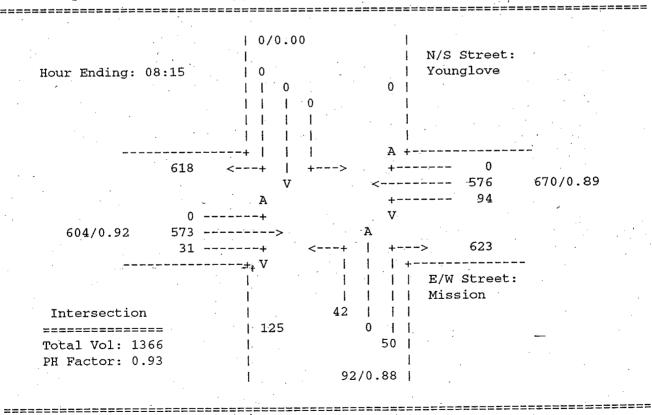
Hour	North		. ,	East			South			West			Int.	
Ending	RT	TH	LT	RT	ТĦ	LT`	RT	TH	LT	RT	TH	LT	Total	
07:15	0	 0	0	===== 0	===== 163	20	===== 17	===== 0	·===== · 6	==== 10	=====: 151	0	367 *	
07:30	. 0	Ö	ō	0	302	35	29	Ö.	16	23	279	0	684*	
07:45	0	0	0	. 0	457	62	41	. 0	27	27	439	0	1053*	
08:00	0	. 0	. 0	0	581	84	53	· 0	36	33	577	0	1364	
08:15	. 0	0	0	0	576	94	. 50	. 0	42	3,1	573	0	1366	
08:30	. 0	0	0	0	5:77	100	44	. 0	38	26	563	0	1348	
08:45	0	0	0	0	585	96	46	. 0	39	34	517	. 0	1317	
09:00	0	0	0	0	600	100	44	Ö	53	39	498	0	1334	
======	:====	-====	- ===	=====	=====	=====	=====	=====	=====	====	=====	=====	========	

^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #13a Tuesday Clear and warm SUM-IT COUNT DATE 05/22/01

1 - Younglove and Mission

MORNING PEAK



Hour	North			East			South			West			Int.	
Ending	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	Tota1	
====== 07:15	-= == 0	0	0.	===== 0	163	20	38	· 0	: === =: 5	=== =	151	===== 0	======= 387*	
07:30	0	0	. 0	0	302	35	62	0	16	23	279	. 0	717*	
07:45	0	0	0	0	457	62	108	0	35	27	439	. 0	1128*	
08:00	- 0	0	0	. 0	581	84	139	0	48	33	577	0	1462	
08:15	· 0	0	0-	Ō	576	94	141	0	60	31	573	0	1475	
08:30	9 0	0	0	0	577	100	143	.0	60	26	563	0	1469	
08:45	. 0	0	0	: 0	585	96	131	. 0	56	34	517	. 0	1419	
09:00	0	0	0	0	600	100	123	0	56	39	498	. 0	1416	

^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #13b Tuesday Clear and warm

.

SUM-IT COUNT DATE 05/17/01

1 - Almar and Mission

MORNING PEAK

		•								
		· 1	0/0.0	0		ľ			,	-
	*	1				1	N/S St	reet:		•
Hour Ending: 08	:15	. 1	0 .			4 2	Almar	• •		
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		1		11		1				
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			A		. +.			94	, ,	
	. 0				v V		•		•	
604/0.92	573		>		A					-
004/0.52	31		·	/ <u>-</u>			7	14		
			. 77	\ \ I	1 1				_	
•		, T	. •	, I	· 1 1	1	E/W St	root.		
		1		1	1 1		Missio:			
Intersection				- 1	1 1	1 1	MISSIO.			
intersection		!	105	60		1				
=======================================			125		0 1	-1		•	-	•
Total Vol: 1475		. !			141	1				\$
PH Factor: 0.90		i	•							
				20	1/0.77	1		,		

Hour	-	North			East			South			West		Int.
Ending	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	Total
====== 07:15	·====: 0	===== 0	0	===== 0	163	20		0	11	==== 10	151	 0	410*
07:30	0	0	0	0	3.02	35	91	. 0	32	23	279	0	762*
07:45	0	0	0	0	457	62	149	Ó	62	27	439	0	1196*
08:00	0	0	0	. 0	581	84	192	0	84	33	577	0	1551
08:15	. 0	0	0	0	576	94	191	0	102	31	573	0	1567
08:30	0	. 0	. 0	0	577	100	187	0	98	26	563	0	1551
08:45	0	: 0	. 0.	0	585	96	177	0	95	34	517	0	1504
09:00	0	0	0	0	600	100	167	. 0	109	39	498	. 0	1 513

^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #13c Tuesday
Clear and warm

SUM-IT COUNT DATE 05/17/01

1 - Younglove/Almar and Mission

	1 0/0.00	l.	
	1.	N/S S	treet:
Hour Ending: 08:15	1 0	Young	love/Almar
	1 1 0	0	
	1 1 1 0	1	en e
		i	
	1 1 1 1		
•	1 1 1 1	A +	
	+.	А 4	0
678	<+ +>	+	- U
	V	<	576 670/0.89
	A	+	94
0	+	V	
604/0.92 573	>	A	
31	+	+>	764
		+	
	` 1	E/W S	Street:
		Missi	on ·
Intersection	102		
	125	0 1 1	
Total Vol: 1567	1	191	-
	1	. 1/1 (
PH Factor: 0.90	1 .	2 (0 02 1	
•	1 29	3/0.83	· ·

Hour		North	ı İ	•	East	**	**	South	ı .		West		Int.
Ending	RT	TH	\mathbf{LT}	RT	TH	LT	RT	TH	LT	RT	TH	LT	Total
16:15	0	0	 . 0	=== == 0	148	47	==== 3	===== 0	===== 11	===== 11	169	===== 0	389*
16:30	. 0	0	0	. 0	310	93	15	0	21	24	362	0	825*
16:45	0	. 0	0	0	460	153	23	0	27	31	532	0	1226*
17:00	0	0	0	. 0	619	201	32	à± + 0	. 39	42	681	0	1614
17:15	0	0	. 0	0	624	208	38	i 0	37	38	702	. 0	1647
17:30	0	0	0	0	633	211	45	0	38	39	668	. 0	1634
17:45	0	. 0	0	0.	665	208	46	0	. 39	40	653	Ö	1651
18:00	. 0	0	0	0	706	216	49	0	39	39	643	0	1692

^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #13a Tuesday Clear and warm

SUM-IT COUNT DATE 05/22/01

1 - Younglove and Mission

Harry Dudden at 10,000	0/0.00 N/S Street:	
Hour Ending: 18:00	0 Younglove	•
74		922/0.90
682/0.87 64 3	> V	
· · · · · · · · · · · · · · · · · · ·	+ V +	
	E/W Street:	
Intersection	1 39	
Total Vol: 1692 PH Factor: 0.99	255	· · · · · · · · · · · · · · · · · · ·
	1 00/0.75	•

Hour		North			East			South			West		Int.
Ending	RT	TH	LT	RT	$\mathbf{T}\mathbf{H}_{a}$		RT	TH	LT	RT	TH	·LT	Total
====== 16:15	.===== 0	0	0	<u>-</u> 0	148	47	38	 · 0	16	== == 11	===== 169	= === 0	429*
16:30	0	0	. 0.	0	310	93	71	0	39	24	362	. 0	899*
16:45	0	0	0	0	460	153	100	0	48	31	532	0	1324*
17:00	. 0	_ 0	. 0	0	619	201	136	0	- 69	42	681	0	1748
17:15	. 0	0	0	0	624	208	134	0	83	38	702	0	1789
17:30	0	. 0	0	0	633	211	149	0	94	39	668	- 0	1794
17:45	0	. 0	0	. 0	665	208	158	0	112	40	653	0	1836
18:00	0	0	.0	. 0.	706	216	158	0	111	39	643	. 0	1873

^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #13b Tuesday
Clear and warm

SUM-IT COUNT DATE 05/22/01

1 - Almar and Mission

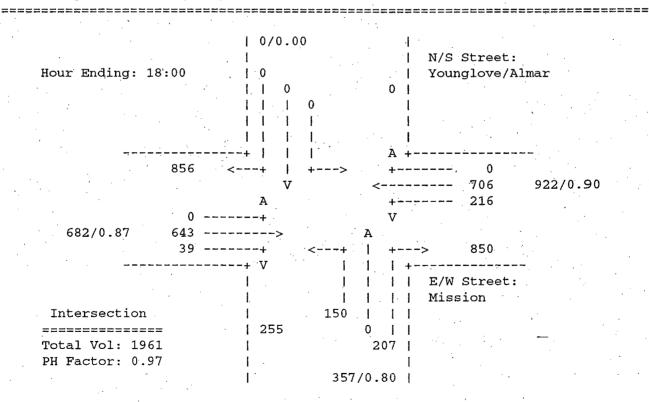
		*		
	•			
	0/0.00	1		
•	1.	I	N/S Street:	•
Hour Ending: 18:00	0 0		Almar	
	1 1 0	0 1		
	111	0		
		1		
	1.1 1 -	4		
	+	A +		<u>-</u>
81	17 <+	+> +	0	
	. A	<	706	922/0.90
•	Α	4	216	
	0+	. ν		
682/0.87 6	43>	A		
	39+	<+ +	- > 801	
	+ V	1 4		,
	1		E/W Street:	. •
			Mission	
Intersection	• • • • • • • • • • • • • • • • • • •	111	111001011	
	1 255	0 1 1		
Total Vol: 1873	1 255	158		-
PH Factor: 0.99	,	120		
FR FACCOL: 0.99	1	260/0 02 1		. ,
	1	269/0.82		

Hour	•	North		. ·	East	•		South			West		Int.
Ending	RT	TH	LT	RT	TH	LT	RT	TH	LT	\mathbf{RT}	TH	LT	Tota1
====== 16:15	0	-==== 0	 . 0	0	148	47	===== 41	0	===== 27	11	169	0	======= 443*
16:30	0	0	0	. 0	310	93	86	0.0	60	24	362	. 0	935*
L6:45	0	0	0	0	460	153	123	. 0	75	31	532	0	1374*
17:00	. 0	0	0	.0	619	201	168	0	108	42	681	-0	1819
L7:15	0	0	0	. 0	624	208	172	€ 0	120	38	702	. 0	1864
17:30	0	0	0 .	0	633	211	194	0	132	39	668	0	1877
17:45	0	0	0	. 0	665	208	204	. 0	151	40	653	0	1921
18:00	0	0	0	0.	706.	216	207	0-	150	39	643	0	1961

^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #13c Tuesday Clear and warm SUM-IT COUNT DATE 05/22/01

1 - Younglove/Almar and Mission



Hour	٠.	North			East			South		100	West		Int.
Ending	RT	TH	LT	RT	ТН	LT	RT	TH	LT	RT	TH	LT	Total
====== 07:15	==== 10	===== 13	===== 35	===== 17	===== 204	===== 5	====: 19	===== 11	==== <u>=</u> 4	==== 5	===== 150	 4	477*
07:30	- 17	33	68	37	385	14	42	28	8	16	286	17	951*
07:45	33	54	97.	56	519	28	. 63	55	22	21	446	36.	1430*
08:00	45	92	136	78	661	42	.79	86	36	. 38	600	68	1961
08:15	47	125	131	76	590	61	73	117	. 50	62	602	81	2015
08:30	50	151	119	.72	541	68	66	133	70	60	634	95	2059.
08:45	58	167	122	76	535	62	61	136	.77	69	610	96	2069
09:00	61	158	111	70	505	60	54	147	. 83	72	595	82	1998

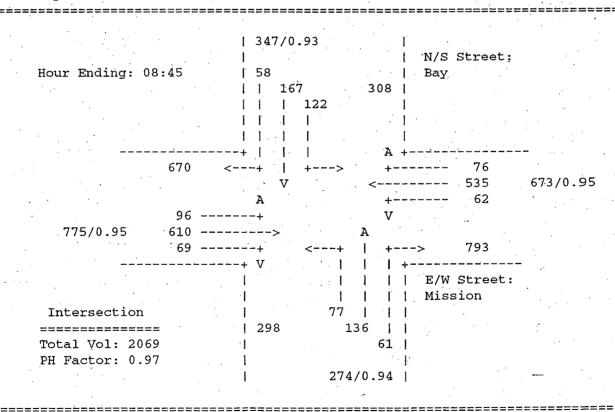
^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #15
Thursday

SUM-IT COUNT DATE 05/10/01

1 - Bay and Mission

٠.



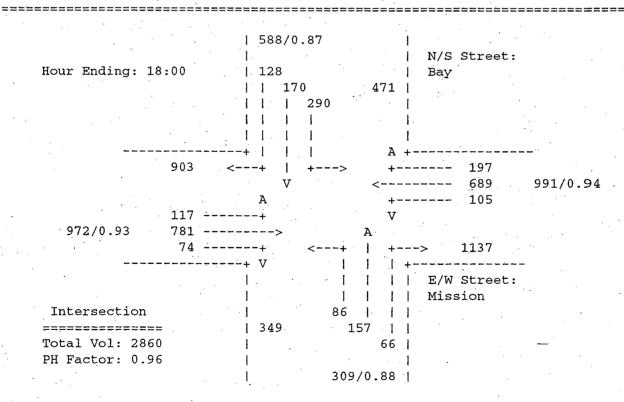
Hour		North		•	East			South	ı		·West		Int.	
Ending	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	Total	
16:15	18	45	63	37	159	21	16	35	31	==== 18	185	26	65 4 *	==
16:30	45	86	127	82	324	44	26	, 62	50 -	30	358	60	1294*	
16:45	71	122	171	127	492	66	45	99	73	48	524	82	1920*	
17:00	87	158	228	185	670	99	51	133	97	67	696	124	2595	
17:15	94	162	255	201	662	99	46	141	81	70	719	131	2661	
17:30	100	174	274	214	670	100	54	150	96	83	723	127	2765	
17:45	117	169	292	210	679	107	47	159	89	83	735	129	2816	
18:00	128	170	290	197	689	105	66	157	86	74	781	117	2860	

^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #15
Thursday

SUM-IT COUNT DATE 05/10/01

1 - Bay and Mission



Hour		North	ı		East			South	١.		West		Int.
Ending	RT	TH	LT	RT.	TH .	LT	RT	TH	LT	RT	TH	LT	Total
07:15	==== 3	===== 46	10	==== = 10	11	:====: 3	===== 3	34	1	2	19	====== 2	144*
07:30	4	95	32	22	19	11	7	80	3	2	3.9	7	321*
07:45	7	158	68	46	54	26	24	190	- 4	7	86	15	685*
08:00	13	223	94	68	. 94	51	36	291	6	13	136	23	1048
08:15	16	256	108	83	132	70	45	369	6	14	144	31	1274
08:30	20	270	128	95	163	84	49	417	6	19	150	. 34	1435
08:45	23	273	121	9.9	176	85 ~	46	384	., 8	24	135	32	1406
09:00	24	277	116	105	198	77	40	388	11	22	125	29	1412

^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #16 Tuesday Clear and sunny SUM-IT COUNT DATE 05/15/01

1 - Bay Dr. and King

		1 4:	18/0.9	5	· 1				
•		1			1	N/S	Street:		
Hour Ending: 08:	30	1 20) .		· 1	Bay	Dr.		
		. 1.1	270		546	_			
		ii		28	i				
	-	iii			L				
		1 1			i		•		
			1 1.		A +-			<u></u>	
	 189	<+	1 1		A T		95		
•	103	~ +	V	>	Ŧ		163	342/0.	ga .
			V .		<		84	342/0.	٠.
		A			+		84 .		
	34	+			V .			*	
203/0.79	150		->	-	A				
•	19	+	· · <	+	+	->	327		
·		+ V		1.	+-			- ,	
·		1		1	1 1	E/W	Street:	. `	
	•	1 .		. 1 -	1 1 1	Kin	g .		
Intersection		[6	1 1 1		•		•
==========		1 3	73.	4	17		<i>2</i> *		
Total Vol: 1435					49 I			-	
PH Factor: 0.97		i			1				
111 143531. 0.37		.		472	/0.92				
•									

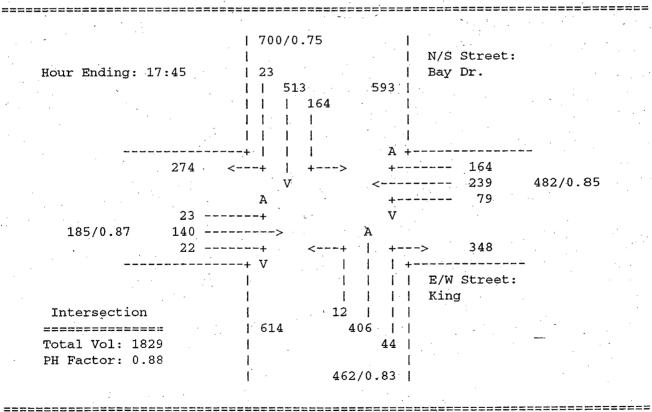
Hour		North			East			South			West		Int.
Ending	RT.	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	Total
16:15	====: 5	===== 116	35	22 22	===== 41	20	===== 11	==== == 7 5	3	===== . 7	35	-===== 6	376 *
16:30	10	220	71	50	77	38	24	172	8	11	. 68	13	762*
16:45	16	316	107	95	115	61.	35	273	11	16	122	20	1187*
17:00	- 20	436	145	139	169	80	47	397	14	19	156	28	1651
17:15	27	487	166	161	187	76	46	425	13	19	162	27	1796
17:30	25	495	167	166	205	75	44	410	11	20	162	27	1807
17:45	23	513	164	164	239	79	44	406	12	22	140	23	1829
18:00	27	488	155	160	231	76	46	356	15	25	133	. 19	1731

^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #16
Tuesday

SUM-IT COUNT DATE 05/15/01

1 - Bay Dr. and King



Hour		North	ı		East	•		South	L	<i>i</i> .	West		Int.
Ending	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	Total
07:15	0	== == = 18	-==== 6	===== 1	153	1	===== 21	14	41	= == = 19	153	0	427*
07:30	0	38	12	: 1	356	4	44	36	85	58	347	0	981*
07:45	2	58	15	4	532	4	67	. 71	150	105	543	1	1552*
08:00	3	93	31	6	699	5	90	127	208	153	802	2	2219
08:15	7	115	35	6	727	7	100	156	219	172	804	3 .	2351
08:30	9	137	34	6	701	4 .	105	169	235	164	829	. 5	2398
08:45	10	142	37	- 5	696	5	98	161	238	148	839	4	2383
09:00	11	146	28	10	689	8	97	147	254	139	794	5	2328

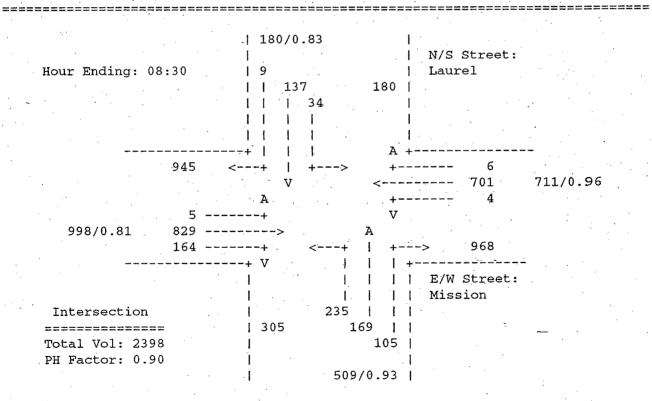
^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #19 Wednesday

SUM-IT COUNT DATE 05/23/01

1 - Laurel and Mission

MORNING PEAK



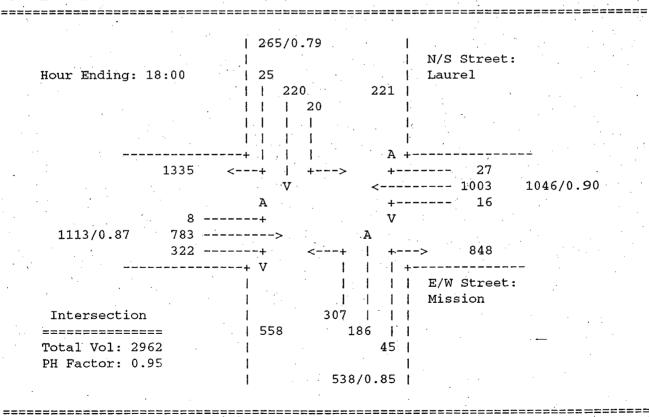
Hour		North			East			South			West		Int.
Ending	RT	TH	LT	RT	TH	LT .	RT	TH	LT .	RT	TH	LT	Total
16:15	2	·=====	===== 2	=== = = 6	===== 209	===== 2	=== <u>=</u> 11	===== 45	63	81	216	====== 1	684*
16:30	: 7	82	14	13	413	5	21	84	112	166	396	: 3	1316*
16:45.	18	125	22	19	631	6	29	137	.178	237	598	4	2004*
17:00	19	179	27	. 28	824	. 9	39	1,97	257	314	786	4	2683
17:15	24	182	31	31	868	10	37	200	266	327	793	- 6	2775
17:30	27	217	. 24	. 29	877	12	43	205	296	310	803	. 7	2850
17:45	19	229	17	31	914	15	46	185	297	327	775	. 8	2863
18:00	2.5	220	20	27	1003	16	45	186	307	322	783	. 8	2962

^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #19 Wednesday

SUM-IT COUNT DATE 05/23/01

1 - Laurel and Mission



Hour		North			East			South		•	West	**	Int.
Ending	RT	TH	LT	RT	ŤН	LT	RT	TH	LT	RT	TH	LT	Total
====== 07:15	0	===== 10	=====: 4	===== 0	·===== · 172	1	7	===== 3	:====: :7	-== == 9	192	===== . 2	407*
07:30	1	23	. 8,	5	330	8.	16	11	11	19	330	4	766*
07:45	2	60	26	11	499	20	32	36	14	39	549	8	1296*
08:00	3	105	38	. 17	654	41	52	65	23	53	776	18	1845
08:15	5	133	61	27	667	49	62	94	28	59	795	18	1998
08:30	7	152	82	23	714	51	: 75	104	29	60	879	18	2194
08:45	. 7	127	71	23	657	49	68	88	35	47	784	14	1970
09:00	6	112	78	25	736	36	76	70	38	43	812	. 7	2039

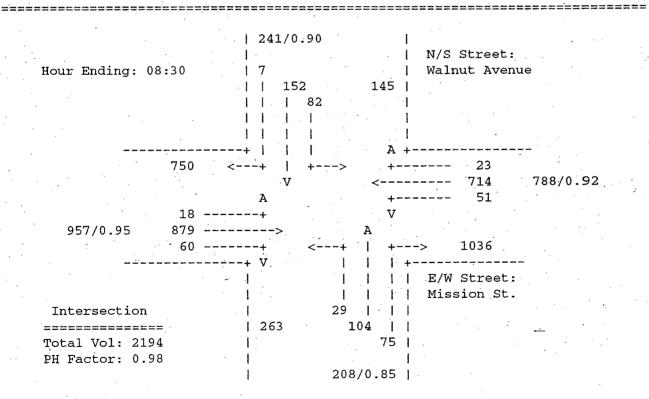
^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #21
Tuesday

SUM-IT COUNT DATE 05/22/01

1 - Walnut Avenue and Mission St.

MORNING PEAK



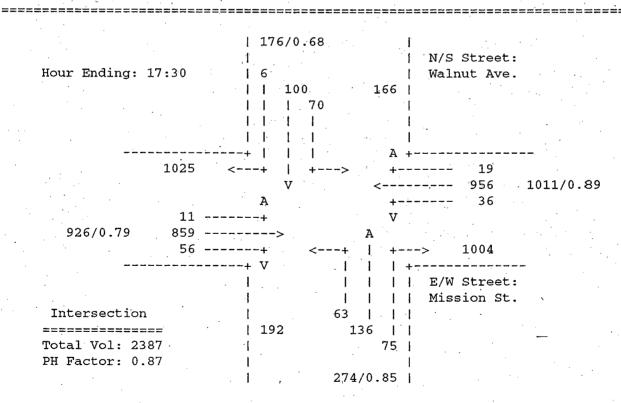
Hour		North	L	• •	East		٠,	South	1		West		Int.
Ending	RT	TH	LT	RT	TH	LT ·	RT	TH	LT	RT	TH	LT	Total
16:15	4	===== 28	21	===== 0	209	13	===== 18	25	·===== · 9	==== 9	213	===== 1	======== 550*
16:30	5	45	32	. 6	402	22	29	40	23	11	393	. 2	1010*
16:45	7	68	50	9	672	33	4.7	79	41	17	667	4	1694*
17:00	9	90	61	: 12	864	40	. 59	102	59	32	782	5	2115
17:15	7	. 99	-66	18	876	40	64	105	64	39	840	9	2227
17:30	, 6	100	70	19	956	36	75	136	63	56	859	11	2387
17:45	6	99	56	- 22	908	27	. 75	143	58	64	728	10	2196
18:00	5	89	52	21	978	31	82.	138	48	65	800	11	2320

^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #21
Tuesday

SUM-IT COUNT DATE 05/22/01

1 - Walnut Ave. and Mission St.



Hour		No	rth			East			South			West		Int.
Ending	RT	T	H	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	Total
====== 07:15	==== 0	===	0	137	===== 6	194	·===== ·1	==== 3	===== 0	0	0	168	0	509*
07:30	0		0	304	34	404	1	5	: 0	Ó	0	396	0	1144*
07:45	2		0	515	90	617	1	- 5	0	1	0 -	632	- 0	1863*
08:00	3		1	736	131	816	2	8	1	2	0	897	0	2597
08:15	. 4		1	840	166	826	3	9	2	4	. 3	1006	0	2864
08:30	6		. 2	. 945.	173	814	6	13	3	. 5	. 3	1046	2	3018
08:45	. 8		3	981	148	800	. 7	17	4	4	5	1014	2	2993
09:00	9		2	996	133	808	10	19	3	4	7	972 /	. 3	2966

^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #22 Tuesday Sunny SUM-IT COUNT DATE 05/08/01

1 - Union/King and Mission

MORNING PEAK

		2					
		953/0	.87	• • • • •	10 to		
		1			N/S Street:		
Hour Ending:	08:30	16	•	į.	Union/King		
		2		178		**	
		1.1	945			• ,	
	.7	11.1	1	. 11		•	
	100		1	1	· .		
			1	A +-		 '	
	825	<+	+>	+	173		
		v		<	814	993/0.92	
		А		+	6		
	2 -	+		V	,	•	į
1051/0.94	1046 -	> ,		A			
	3 -	+	<+	+	-> 2004	•	
	<u>:</u>	+ V	. 1	1 1 +		-	,
			1		E/W Street:		
		1	. 1	1 1 1	Mission		
Intersection	٠ .	· 1	5	1 1 1	•	٠	
±========	.==	11		3			
Total Vol: 30	18	1		13		. —	
PH Factor: 0.	96	l					
~ ·		. 1	21	L/0.66			
					•	•	

Hour	N	orth	٠		East		•	Sout	h .		West	•	Int.
Ending	RT	TH	LT	RT	TH	LT	RT	TH	LT	ŖТ	TH	LT	Total
16:15	3	0	237	=== = = 43	===== 240	3	==== 6	==== = 0	====== 2	= == == 1	214	0	749*
16:30	4	0.4	488	87	473	. 8	11	0	6	· 3	459	1	1540*
16:45	5	0	722	132	703	10	17	1	7	3	668	1	2269*
17:00	.6	0	924	192	979	10	21	1	. 9	4	891	1	3038
17:15	4	0	900	212	1017	9	22	1	7	4	913	1	3090
17:30	3	. 0	862	237	1070	9 .	19	2	4	2	913	0	3121
17:45	4	.0	848	253	1129	9	2.0	2	4	2	894	0	3165
18:00	4	. 0	844	247	1147	11	20	2	4	· 1	938	0	3218

^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #22 Tuesday Sunny, HOT

SUM-IT COUNT DATE 05/08/01

1 - Union/King and Mission

		•	
	1 848/0.95	1	•
		N/S Street	::
Hour Ending: 18:00	1 4	Union/King	
	1 1 0	249	
	844		
	1 1 1 1		
•		1	
		7	·
1155		A +	
1155 <	(===+ +===>	+ 247	4:405.40.00
	ν,	< 1147	1405/0.98
and the second s	Α	+ 11	
0	+	Λ	1
939/0.88 938	>	A	
1	+ <+	+> 1802	
	+ V	+	
	1	E/W Street	: :
		Mission	
Intersection	1 4	1 1 1	
	1 12	2 1 1	
Total Vol: 3218	1 12	20	-
•	1.	20	
PH Factor: 0.98	1	10. 50. 1	
	1 26	/0.72	

Hour	•	North			East	٠	-	South	1 11	•	West		Int.	:
Ending	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	Total	
07:15	· 303	54·	===== 7	4	23	3	===== 4	===== 4 5	====== 5	-=== 8	===== 40	367	863*	
07:30	707	123	15	14	80	4	9	114	9.	19	97	758	1949*	;
07:45	1168	196	32	27	172	6	12	207	31	28	166	1227	3272*	٠.
08:00	1616	301	50	48	254	10	17	333	59	45	267	1744	4744	·
08:15	1776	359	65	82	332	9	26	416	67	50	324	1760	5266 [.]	٠.
08:30	1740	370	70	98	332	9.	29	481	78	57	351	1857	5472	
08:45	1628	371	60	96	319	8	32	512	72	66	356	1840	5360	
09:00	1612	324	62	85	306	6	33	495	56	69	332	1777	5157	

^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #23
Tuesday
Overcast, then sunny and warm

SUM-IT COUNT DATE 05/15/01

1 - Chestnut and Mission

MORNING PEAK

| 2180/0.91 | N/S Street: Chestnut Hour Ending: 08:30 1740 2436 | | | 370 | | | 70 1.1 - 1 1 +---- 98 - <---- 332 439/0.78</pre> 1857 ----+ 2265/0.89 351 ----> Intersection 78 | | | 1 436 481 | | Total Vol: 5472 PH Factor: 0.93 588/0.92 |

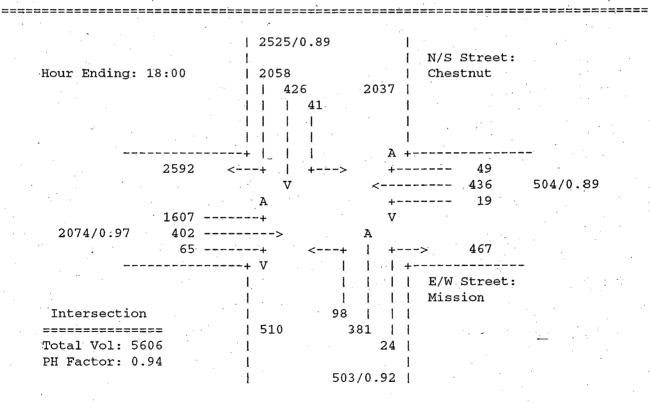
Hour		North		•	East			South			West		Int.	
Ending	RT	\mathbf{TH}	LT	RT	TH	LT	RT	TH	LT	RŢ	TH	LT	Total	
16:15	351	=== == 83	17	=== = = 19	102	 14	== = = 6	== === 78	23	==== 19	101	430	1243*	:==
16:30	719	177	. 30	38	188	20	10	149	40	34	247	842	2494*	
16:45	1132	278	37	51	296	25	16	227	70	46	349	1212	3739*	
17:00	1586	374	45	60	394	28	16	300	102	62	446	1602	5015	
17:15	1724	403	36	53	415	20	18	329	95	58	448	1580	5179	
17:30	1897	402	33	43	430	17	18	332	111	58	398	1591	5330	
17:45	1951	381	41	43	434	17	20	344	108	63	397	1596	5395	
18:00	2058	426	41	49	436	19	24	381	98	65	402	1607	5606	•
======		=====	====	=====	:====:	=====	<u>-</u> ====	=====	=====	=====	=====	=====	=======	===

^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #23 Tuesday Sunny, warm SUM-IT COUNT DATE 05/15/01

1 - Chestnut and Mission

EVENING PEAK

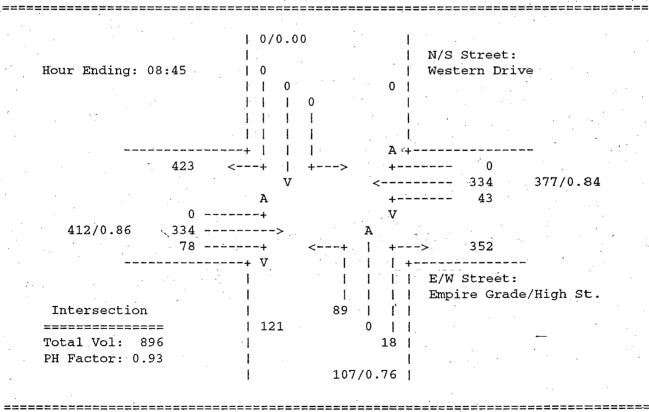


Hour	. 1	orth			East		*	South			West		Int.
Ending	RT	TH	LT	RT	TH	LT	RT ·	TH	LT	RТ	TH	LT	Total
07:15	0	0	0	===== 0	34	:=====: 3	===== 0	 0	===== 4	===== 6	47	0	94*
07:30	0	. 0	0	0	76	5	1:	0	13	. 14	88	0	197*
07:45	0	. 0	0	0	136	16	.3	0	27	21	168	. 0	371*
00:80	Ò.	0	0	0	- 230 ·	25	7	- 0	41	42	267	0	612
08:15	0	0	· 0.	. 0	273	38	12	0	67	54	302	0	746
08:30	. 0	. 0	. 0	- 0	331	48	16	0	83	62	337	0	877
08:45	0	0	0	. 0	334	43	18	0	89	78	334	0	896
09:00	. 0	. 0	. 0	0	317	42	18	0	. 85	76	3.05	0	843

^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #1 Thursday Sunny and clear SUM-IT COUNT DATE 05/24/01

1 - Western Drive and Empire Grade/High St.



Hour		North	ı	-	East			South			West	,	Int.
Ending	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	ĻT	Total
16:15	0	0	0	0	58	== == 11	8	=== == 0	20	24	95	 0	216*
16:30	0	. 0	0	0	138	29	19	. 0	33	40	182	0	441*
16:45	0	0.	. 0	0	238	45	37	. 0	66	.63	296	0	745*
17:00	0	0	0	0	359	59	50	0	97	85	406	0	1056
17:15	0	0	0	0	410	70	57	0	113	105	461	0	1216
17:30	0	0	. 0	0	419	60	52	0-	131	112	480	0	1254
17:45	0	0	0	. 0	418	65.	48	0	122	120	485	0	1258
18:00	. 0	0	0	-0	373	61	45	0.1	112	116	466	0	1173

^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #1 Wednesday Sunny and warm SUM-IT COUNT DATE 05/23/01

1 - Western Dr. and Empire Grade/High St.

EVENING PEAK

	0/0.00
	N/S Street:
Hour Ending: 17:45	0 Western Dr.
• .	0
	+ A +
540	<+ +> + 0
	V < 418 483/0.89
	A + 65
0 -	+ V
605/0.78 485 -	> A
120 -	+ <+ +> 533
	+ V +
	E/W Street:
	Empire Grade/High St.
Intersection	122
=======================================	185 0
Total Vol: 1258	48
PH Factor: 0.84	
	170/0.83

Hour		North			East	•		South		٠.	West		Int.
Ending	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	Total
07:15	1	. 0	23	===== 28	 -	. 0	0	0	. 0	=== = 0	====== 25	• == ===	89*
07:30	. 1	. 0	58	. 78	11	- 0	0	0	-0	. 0	59	8	215*
07:45	. 1	0	88	135	29	0	0	. 0	0	0	110	16	379*
08:00	. 3	0	146	255	. 40	0	0	0	. 0	0	168	28	640
08:15	. 2	. 0	175	309	60	-0	· 0	. 0	0	. 0	180	. 27	753
08:30	5	0	186	329	111	. 0	0	.0	0	0	206	36	873
08:45	8	0	187	340	110	0	0	. 0	. 0	. 0	218	30	893
09:00	7	0	166	287	113	0	. 0	0	0	0	202	. 30	805

^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #2 Tuesday

SUM-IT COUNT DATE 05/22/01

1 - Heller Dr. and Empire Grade

		•	•	
•	195/0.81	4.		
	1	l N/S	Street:	
Hour Ending: 08:45	I 8		ler Dr.	
	1 1 0	370		
	187	370 (
	1 1 107			•
		l l		
	+ ,	A +		-
118	<+ +>	+	340	
	V	<	110	450/0.86
	A	+	. 0	
30	+	V		
248/0.87 218	>	Α		
0		1 4>	405	
	+ V			
	+ v	1 1 1 1 1 1 1	7. 04	
	! !		Street:	
		Emp	oire Grade	
Intersection	1 0	1.1		
==========	1 0	0 []		·
Total Vol: 893	1	0		- .
PH Factor: 0.86		ľ		
•	. (0/0.00		
	•			

Hour		North	Ĺ		East	•		South	÷ ,		West		Int.
Ending	RT (TH	LT	RT	TH	LT	RT	TH	LT	RT	ТН	LT	Total
====== 16:15	4	0	127	== == == 57	32	0	0	0	0	0	18	===== 2	240*
16:30	5	. 0	214	113	55	. 0	0	0	. 0	0	38	3	428*
16:45	15	0	296	175	78	0	. 0	. 0	0	0	60	4	628*
17:00	20	0	380	255	107	0	0	0	0	. 0	78	4	844
17:15	27	0	363	281	110	0 .	0	0	. 0	0	76	,2	859
17:30	[.] 39	0	406	313	123	0	.0	. 0	0	. 0	69	3	953
17:45	- 33	. 0	420	338	126	0	0	0	. 0	0	75	5	997
18:00	34	0	523	383	130	0	0	0	0	. 0	75	7	1152

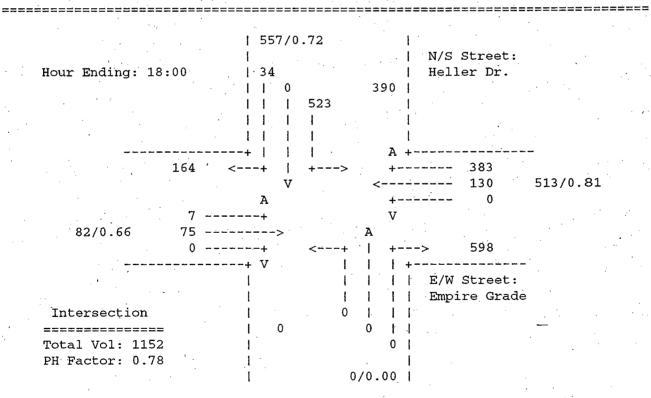
^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #2 Tuesday sunny, hot

SUM-IT COUNT DATE 05/22/01

1 - Heller Dr. and Empire Grade

EVENING PEAK



Hour		North			East		•	South			West	-	Int.
Ending	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	Total
= === == 07:15	-==== 7	-==== 24	11	46	21	2	==== 14	===== 42	10	22	25	9	233*
07:30	13	32	25	131	51	5	31	88	19	46	64	13	518*
07:45	22	45	39	222	82	14	50	145	39	74	109	23	864*
08:00	37	68	50	. 327	144	19	68	248	89	111	153	37	1351
08:15	39	67	64	364	169	37.	85	276	119	121	171	3.6	1548
08:30	40	85	61	366	229	55	94	295	158	128	187	45	1743
08:45	39	102	66	350	242	61	99	303	171	125	212	51	1821
09:00	35	94	71	332	219	74	104	308	158	113	219	50	1777

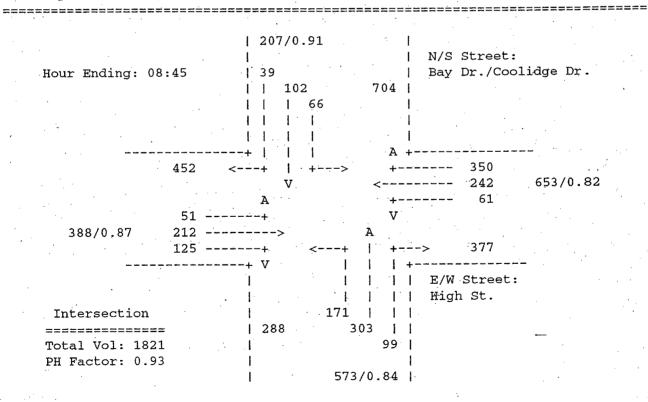
^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #3 Wednesday low fog

SUM-IT COUNT DATE 05/16/01

1 - Bay Dr./Coolidge Dr. and High St.

MORNING PEAK



1 - Bay Dr./Coolidge Dr. and High St.

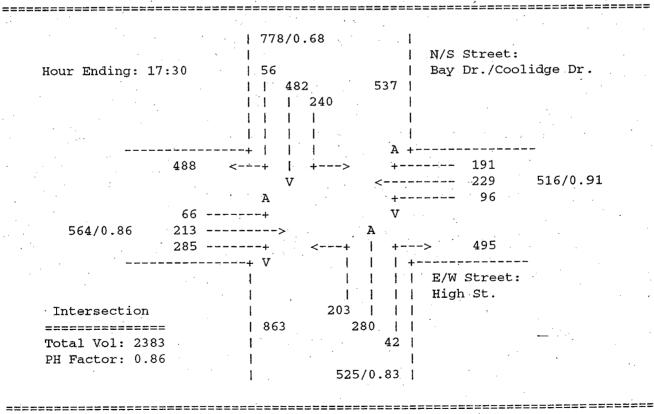
Hour		North			East	• •;		South	L		West		Int.
Ending	RT	TH	LT	RT	TH	LT.	RT	TH	LŤ	RT	TH	LT ·	Total
====== 16:15	===== 6	80	61	32	41	22	15	====== 52	32	68	50	 11	470*
16:30	16	149	116	63	90	47	33	111	62	114	100	21	922*
16:45	23	232	148	116	145	69	43	186	119	171	140	35	1427*
17:00	46	323	200	166	201	87	53	281	173	238	196	57	2021
17:15	55	435	220	172	217	90	. 51	286	195	263	200	. 63	2247
17:30	56	482	240	191	229	96	42	280	203	285	213	66	2383
17:45	59	490	256	170	223	94	47	241	186	278	228	66	2338
18:00	42	487	256	148	202	101	48	189	180	261	217	55	2186

^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #3 Wednesday

SUM-IT COUNT DATE 05/16/01

1 - Bay Dr./Coolidge Dr. and High St.



Hour		North	L		East			South			West		Int.
Ending	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	Total
07:15	0	===== 7	===== 5	===== 1	1	=== = =	===== 15	===== 2	0	==== 1	 · 1	0	38*
07:30	1	14	- 7	1	1	.11	28	12	0	2	3	0	80*
07:45	2	27	13	. 8	2	20	52	42	0.	2	. 10	. 1	179*
08:00	2	49	21	12	4	27 -	72	77	0	3	20	2	289
08:15	2	77	22	19	5	33	86	100	1	3	23	2	373
08:30	. 2	90	24	* 22	. 6	48	88	121	. 1	4	23	2	431
08:45	: 3	105	21	21	7	44	82	120	1	6	23	1 -	434
09:00	. 4	108	16	18	5	43	79	109	2	5	14	. 0	403

^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #4 Thursday Fair

SUM-IT COUNT DATE 05/24/01

1 - Western Drive and Meder Street

			•	• "	*
		1 129/0.7	9	1	•
				N/S Street:	
Hour Ending: 08:	45	[3	S.	Western Drive)
		105	142	1	
		2	1	T	*
				1	
•					* *
	 _	+	А	+	<u>.</u>
	11	<+ +	> +-	21	*** *
		v	<	· 7	72/0.72
		A	+	44	
	1	+	v	•	
30/0.62	23	>	A		
	6	+ <	+ +:	> 126	
		+ V		+	• •
,		1	1 1 1	E/W Street:	
		i i		Meder Street	
Intersection		1	1 1 1	1	
incersection	4	1 155	120		
		1 133			_
Total Vol: 434		1	82		•
PH Factor: 0.89		l	•	T.	
		· 1	203/0.92		. ,

Hour		North	ı i		East			South			West		Int.	
Ending	RT	TH	LT	RT	TH	LT	RT	TH	LT.	RT	TH	LT	Total	٠
====== 16:15	1	30	1	-===== 5	= === 3	12	===== 14	===== 24	·===== 0	===== 1	=====: 1	===== 1	•======: * 93	==:
16:30	4	57	5	10	` 5	24	33	44	`1	1	4	2	190*	
L6:45	6	77	7	17	7	38	47	90	6	4	5	- 3	307*	٠.
L7:00	7	111	18	24	9	55	69	130	. 7	5	8	3	446	
L7:15	6	126	23	25	7	68	69	147	. 9	4	10	2	496	
L7:30	4	139	23	27	. 8	71	66	154	10	5	11	1	519	
L7:45	· 5	154	29	25	12	83	.71	136	5	4	10	1	535	
L8:00	6	148	21	23	15	83	63	121	7	3	8.	- 2	500	

^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #4 Wednesday
Fair

SUM-IT COUNT DATE 05/23/01

1 - Western Drive and Meder St.

	•						
	ļ. ·	188/0.92		Ι,			
	. 1.			N/S St	reet:		
Hour Ending: 17:4	5 .	5		Wester		٠. د	
	1	1 154	162	1 Medicel	. DIIVG	•	•
	1,		162	1			
	. 1	29		1 .			
	1	1 1 1	`				
•		1 1 1		1	*		
	+		Α	+		•	
	22 <	+ +	-> +-		25		
•		V	<		12	120/0.	81
		Α	. +-		83	• •	
	1		. 77		,,,		
15/0.75	10	T	٧.	, .			•
15/0.75	10	- - >	A		**		
	4	+ <	7 + + 7	> 1	10		
	+	V	1 1 1	+		•	
	1		1 1 1	E/W St	reet:		
	1		1 1 4	Meder			
Intersection	- i		5 1 1	1			• •
incersection	1	0.41	- , ,	1		٠.	
	1	241	136	1	•		
Total Vol: 535	1		71	Ţ			
PH Factor: 0.94	1			1			
•			212/0.84	1.			

Hour	:==:==	North			==== East			South		- -	West		Int.
Ending	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	Total
07:15	0	-= === 0	0	≠= == = 0	80	12	3	0	1	: 0	46	0	142*
07:30	0	. 0	0	. 0	128	24	3	0	5	1	80	0	241*
07:45	. 0	0	0	- 0	204	35	5	0	5	4	153	0	406*
08:00	0	0.	. 0	0	280	50	6	0	14	. 5	233	0	588
08:15	0	0	Ó	0	267	- 55	7	0	17	11	262	0	619
08:30	0	0	0	. 0	264	53	7	0	.16	15	299	0	654
08:45	0	0	0	0	268	50	6	0	20	15	309	0	668
09:00	, 0	0	0	. 0	260	39	6	0	15	18	3.05	0	643
======	====	=====	=====	=====	====	=====	=====	=====	=====	====	====	=====	=======

^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #6a Wednesday Overcast, road clear SUM-IT COUNT DATE 05/16/01

1 - Schaffer/Mission and Highway 1

MORNING PEAK

· •	•						
		1 0/0.00)	5 1			•
		1		´ 1	N/S	Street:	
Hour Ending: 08:	45	10	•	. 1	Scha	ffer/Mis	ssion
•		1 1 0	•	0. 1			-
	, ,		0	1			
No.		11.1	-	1			•
		4 1 1	1	1			
		-+	1	A +	· 		
	288 <	(+	+>	+		0	
		V	•	<		268	318/0.87
		A		+		50	
4	0	+		V		•	
324/0.94	309	>		Α			
· · ·	15	+	<+	+	>	315	
,		+ V	1	+			
		1	. 1	- J. J. I		Street:	•
		, k	1	1 1 1	High	way 1	
Intersection		1	20				
		65		0	,,		
Total Vol: 668		- I ,		6			•
PH Factor: 0.92		1					
•		1,	26	/0.65			

Hour	-	North			East			South	ı		West		Int.
Ending	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	Total
====== 07:15	0	===== 0	0	0	===== 80	12	1	===== 0	. 3	0	46	===== 0	142*
07:30	. 0	. 0	0	0	128	24	5	0	3 -	1	80	0	241*
07:45	0	0	0	. 0	204	35	5	0	5	. 4	153	0	406*
00:80	0	0	0	0 -	280	50	14	0	6 -	5	233	0	588
08:15	0	0	. 0	0	267	55	17	· 0	• 7	10	262	0	618
08:30	0	. 0	0	0	264	53	16	0	7	14	299	0	653
08:45	0	0	0	. 0	268	50	19	0	6	14	309	0	666
09:00	. 0	0	0	0	260	39	14	. 0	6	16	305	. 0	640

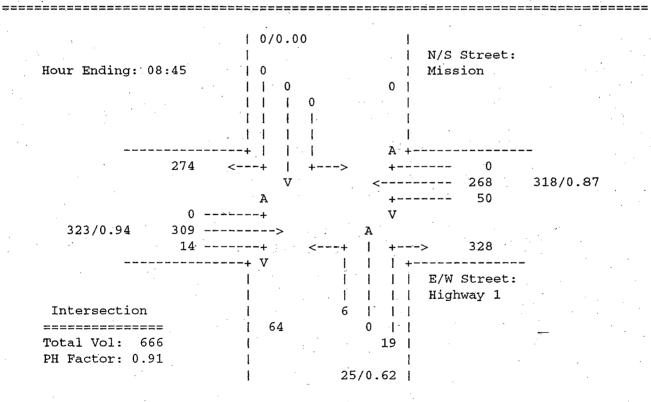
^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #6b Wednesday
Overcast, road clear

SUM-IT COUNT DATE 05/16/01

1 - Mission and Highway 1

MORNING PEAK



Hour	•	North			East			South			West	•	Int.
Ending	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	Total
16:15	0	0	0	===== 0	73	===== 3	== == == 20	· 0	==== 4	=== == 8	118	. 0	226*
16:30	0.	0	. 0	0	152	4	30	0	9	. 9	224	0	428*
16:45	. 0	0	0	0	234	. 6	35	0	12	11	338	. 0	636*
17:00	0	0	.0	. 0	338.	8 .	40	0.	18	18	424	. 0	846
17:15	0	0	0	0	345	8	23	. 0.	19	15	402	, 0	812
17:30	0	0	0	. 0	328	9	16	0.	19	20	371	. 0	763
17:45	. 0	0	. 0	0	340	- 7	16	. 0	20	25	348	0	756
18:00	0	0	0	0	.339	8	16	0	17	28	352	0	760

^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #6a Tuesday Sunny, clear, WARM

SUM-IT COUNT DATE 05/15/01

1 - Shaffer/Mission and Highway 1

EVENING PEAK

		1 0/	0.00			1		en e	
		. 1				N/S	Street:		
Hour Ending: 1	7:00	1 . 1 0				Shaf	fer/Miss	sion	
		1.1	0	-	- 0	1 .			
		1 1	1	0	•		•		,
		1 1	t r	1		1			
		1 1	1			1		,	
•		1 1	1	1					í
		+	.1	ł.	Α	+		- - `	
	356	<+	1	+>	+-		0 -		
			· V		<		338	346/0.82	
<i>.</i>		A		•	+-		. 8	•	
	'n				v ·				
442/0.88	424			٠.	7	,			
442/0.00					<u>, </u>	<u>,</u>	464		
	. 18			<+	+-	>	404	* .	
		+ V		!	1 1	+		- .	
			٠.	1	1 1		Street:		
		1		1	1 1	High	way 1		
Intersection		1		. 18	1 1	[·			
	=	. 1 2	26		0 [1			
Total Vol: 84	16	1			40	i			
PH Factor: 0.9		1			10	1	•		
rn ractor: 0.9	, 4	l I		Ε0	10 60	1			
		1 .		58	/0.60	1			

Hour		North	٠		Eașt	•	•	South			West		Int.
Ending	RT	TH	LT	RT	TH	LŢ	RT	TH	LT	RT	TH	LT	Total
====== 07:15	:===== 1	-==== 1	 7 -	==== <u>=</u> 10	15	0	0	0	. 0	 0	= === ==	==== = 1	41*
07:30	5	1	23	19	23	0	0	0	0	0	14	. 1	86*
07:45	8	1	33	. 28	34	0	0	. 0	. 0	0	26.	1	131*
00:80	12	1	45	55	47	. 0	0	1	. 0	. 0	36	3	200
08:15	15	0	48	71	57	0	0	1	0	0	39	6	237
08:30	17	0	46	91	69	0	0	1	0	0	- 38	9	271
08:45	19	. 0	46	. 92	82.	. 0	0 -	1	. 0 .	. 0	30	12	282
09:00	17	. 0	43.	. 83	89	Ó	. 0	. 0	0	. 0 .	32	11	275

^{*} indicates partial hour total.

City of Santz Cruz - UCSC Long Marine Lab #8 Thursday Overcast SUM-IT COUNT DATE 05/10/01

1 - Natural Bridges Dr. and Delaware Ave.

MORNING PEAK

		65/0.	81	. 1	NI/C Chron	+ -
		!			N/S Stree	
Hour Ending: 08:	45	19		· . I	Natural E	ridges Dr.
•		1 1 0		105	•	•
		ii	46	i i		
		1 1 1	1	1	•	,
•		1.1.1	· 1.	1		
		A + A + A	1 .	. 1 *		
		-+ [1	A +-		
•	101 <-	+	+>	. +	92	•
					82	174/0.85
		· · ·		\	. 02	174/0.05
		A		+	0	
	12	+	•	, A		
42/0.81	30	> ,-'		Ā		
	0		<+	1 4	-> 76	
	Ū	7.7				
		~+~ V		1 1 +-		·
		1"	1 -	1 1 1	E/W Stree	et:
		·	1	-1 $-1 \cdot 1$	Delaware	Ave.
Intersection		1	. 0	1 1 1	•	
==========		I 0		1 1		*
Total Vol: 282		i	•	0 1		-
		1		0 1		
PH Factor: 0.89		i .	_			
		1	1	/0.25		* -

HOURLY	SUMMARY

Hour		North			East			South	- L		West		Int.	
Ending	RТ	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	Total	
16:15	===== 5	:==:=== 0	25	===== 20	===== 15	0	0	===== 1	0	= == = 0	===== 16	===== 5	87*	
16:30	9	. 0	49	44	3.0	0	0	1	. 0	0	31	13	177*	
16:45	12	0	81	58	40	. 0	0	1	0	0	51	18	261*	-
17:00	17	0	103	. 80	51	0	. 0	1	- : 0	. 0	. 70	25	347	
17:15	13	0	103	81	48	0	0	0	. 0	. 0	79	32	356	
17:30	12	0 -	101	79	42	0	0	. 0	0	0	80	30	344	
17:45	12	0	94.	83	48	0	0	. 0	0	0	. 78	25	340	
18:00	11	0	102	88	50	0	0	0	· 0	- 0	75	20	346	-

^{*} indicates partial hour total.

City of Santz Cruz - UCSC Long Marine Lab #8 Thursday clear

COUNT DATE 05/10/01

1 - Natural Bridges Dr. and Delaware Ave. _______

•					
			•		
	116/0	.83			
	·	2	- · N/	S Street:	
Hour Ending: 17:15	l 13			tural Brid	dges Dr.
nour bharng. 17.125	•	•	-		-
	110		113	•	
		103	• [
	111	1	. 1		
	-111	1	· 1	•	
		i i	A +		
61				81	
от.	<+	+>	+		100 (0 02
	V	<u>.</u>	<	48	129/0.83
	A		+	- <i>-</i> - 0	
32	+		V		
111/0.75 79	>	A			
0		Z4 . I	+>	182	•
	V	1 . 1			_
	+ V	. ! !	+		
		į l		/W Street:	
	1.		De	elaware Av	e.
Intersection	1	0	1 1	* •	
	1 0	0	11		
Total Vol: 356	1		0 1		. =
•	l ·		U 1	• • •	
PH Factor: 0.93	l	•	l		
•	1.	0/0	.00		*.

Hour		North			East	٠		South			West		Int.
Ending	RT	TH	ĻT	RT	TH	LT	RT	TH	LT	RT	TH	LT.	Total
07:15	0	0	0	 0	===== 5	0	==== <u>;</u> =: 0	===== 0	0	0	1	0	6*
07:30	. 0	0	0	0	11	. 0	. 0	. 0	. 0	0	. 2	. 0	13*
07:45	0	0	0	0	23	0	0	0	0	. 0	4	. 0	27*
08:00	1	. 0.	.+0	2	36	0	. 0	1	0	0	7	0	47
08:15	. 1	0	1	5	46	1	∵ 0	1	0	. 0	11	0	66
08:30	1	0.	1	5	49	1	0	. 2	. 0	. 0	12	0	71
08:45	1	0	1	6	44	2	. 0	3	0	. 0	11.	. 0	68
09:00	0	. 0	1	10	46	2	. 0	6	0	0	9	. 0	74

^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #9 Wednesday Foggy and cool

COUNT DATE 05/16/01

1 - Shaffer and Delaware

MORNING PEAK

· ·			
	1/0.25	1	
		N/S Street:	•
Hour Ending: 09:0	0 1 0	Shaffer	
•	0 1 1	16	
	1	1	
	1 1 1 1	1	
		$\mathbf{q} = \mathbf{q}$	
	+	A +	
	46 <+ +	-> + 10	
	v	< 46	58/0.69
	A	+ 2	•
	0+	V	
9/0.45	9>	A	
	0+ <	-+ +> 10	
	+ V	+	_
	1		
	1		
Intersection		0	
	2	6	_
Total Vol: 74	i	0	
PH Factor: 0.71		1	
	1	6/0.38	

Hour		North			East	•		South	ı	- 1,	West		Int.
Ending	RT	TH	LT	RT	TH	LT .	RT	TH	LT	RT	TH	LT	Total
====== 16:15	0	0	=====: ·2	===== · 1	===== 8	.====: Ó	==== 0	====== 2	0	 0	-===== 8	0	 21*
16:30	. 0	0-	. 3	2	12	. 0	0	3	0.	0	13	. 0	33*
16:45	0	0	3	3	12	0	0	4	0	۰- 0	22	0 -	44*
17:00	0	0	4	3	13	0	0	5	. 0	0	29	0	54
17:15	0	0	3	- 5	8	0	0	4	0	. 0	32	0	52
17:30	0	0	. 2	· 5	8	0	0	5	0	: 0	35	0	- 55
17:45	0	0	4	. 5	10	.0	. 0	4	0	0	31	0	54
18:00	. 0	0	. 5	. 8	12	0	Ö	4	0	. 0	32	0	61

^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #9 Tuesday Warm SUM-IT COUNT DATE 05/15/01

1 - Shaffer and Delaware

EVENING PEAK

				* .	•
	5/	0.62	1	-	
	1		1	N/S Street:	
Hour Ending: 18:0	0 0		ĺ	Shaffer	
	. 11	0	12	$\mathcal{F}_{i,j} = \{ (i,j) \mid i \in \mathcal{F}_{i,j} \mid i \in \mathcal{F}_{i,j} \}$	
	1.1	5	i		
	· ii	i I.	1	* .	
	. 1. 1		i		
·			A +-		_
	12 <+	+>	+	8	•
	', '	V	<	12	20/0.83
	Α	•	+	0	
	0+		V		
32/0.73	32	-~	A		
32/0.75	0		. 	> 37	
		<u></u>	1 1 -		
	+ v		+-	E/W Ctwoot.	
•	·	4-		E/W Street:	
-	. 1		1 1 1	Delaware	•
Intersection	!	Û			
	!	0	4		•
Total Vol: 61			0	·	
PH Factor: 0.80	.[
•	l	. 4	1/0.50		

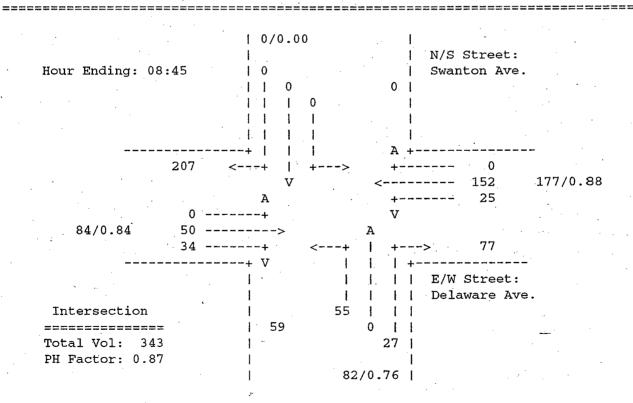
.

Hour	North			•	East			South			West	Int.	
Ending	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	Total
07:15	0	0	0	 0	25	·3	.4	===== 0	10	==== <u>=</u> 5	24	0	======== 71*
07:30	0	0	0	0	43	6	8	. 0	14	13	45	0	129*
07:45	0	0	0	0	61	10	10	0	20	24	65	0	190*
08:00	0	0	0	. 0	95	17	16	0	38	34	80	0	280
08:15	0	0.	0	0	115	19	18	. 0	49	37	70	. 0	308 -
08:30	0	0	0	0	138	22	23	0	54	38	60	0	335
08:45	. 0	0	0 -	. 0	152	25	27	0	55	34	, 50	. 0	. 343
09:00	0	0	0	0	151	30	31	0	44	32	49	0	337

^{*} indicates partial hour total.

City of Santz Cruz - UCSC Long Marine Lab #10 Thursday overcast SUM-IT COUNT DATE 05/10/01

1 - Swanton Ave. and Delaware Ave.



Hour	North				East			South	L	West			Int.
Ending	RT	TH	LT	RT	TH	LT	RT.	TH	LT.	RT	TH	LT	Total
16:15	0	===== 0	0	= -	25	·===== 6	10	===== 0	18	22	===== 29	0	110*
16:30	0.	0	0	0	43	16	20	0	32	32	60	0	203*
16:45	0	0	0	0	62	30	44	0	44	52	99	0	331*
17:00	. 0	0	0	0	85	42	63	0	58	66	135	. 0	449
17:15	0	0	0.	0	79	44	69	0	. 58	59	154	0	463
17:30	0.	0	0	0	78	49	77	.0	65	○ 67	150	0	486
17:45	0	0 -	0	. 0	85	48 -	68	. 0	71	62	140	0	474
18:00	0	0	0	0	81	54	66	0	76	68	126	0	471

^{*} indicates partial hour total.

City of Santz Cruz - UCSC Long Marine Lab #10 Thursday clear

SUM-IT COUNT DATE 05/10/01

1 - Swanton Ave. and Delaware Ave.

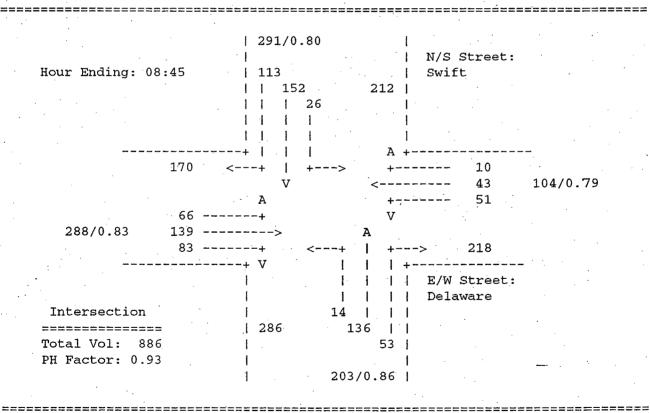
	1 0/0.00	
	1	N/S Street:
Hour Ending: 17:30	1 0	Swanton Ave.
	110	0 1
	0	
	1:1 1	
	+	A +
143	. <+ +	> + 0
	V	< 78 127/0.91
	A	+ 49
0	+	\mathbf{v}
217/0.86 150	>	A
67		<+
	+ V	+
•	1 -	
•	11	Delaware Ave.
Intersection	1 .	65
_======================================	116	0 1 1
Total Vol: 486	1	77
PH Factor: 0.95	ī	· · · · · · · · · · · · · · · · · · ·
	1	142/0.91

Hour	North			East				South		West			Int.
Ending	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	Tota1
===== 07:15	26	10	3	===== 2	===== 12	25	 4	-==== .16	0	==== 6	18	===== 1	.====== 123*
07:30	47	22	5	3	16	39	. 9	31	· 4	16	30	5	227*
07:45	7.0	48	13	6	29	52	19	59	6	25	50	12	389*
08:00	91	81	17	8	38	69	31	85	. 8	45	90	26	589
08:15	- 89	119	20	8	32	51	41	111	. 11	61	109	53	705
08:30	89	144	24	10	43	52	52	130	12	69	129	60	814
08:45	113	152	. 26	10	43	51	53	136	14	83	139	66	886
09:00	106	142	32	11	43	50	50	139	15	79	120	63	850

City of Santa Cruz - UCSC Long Marine Lab #11 Thursday

SUM-IT COUNT DATE 05/17/01

1 - Swift and Delaware

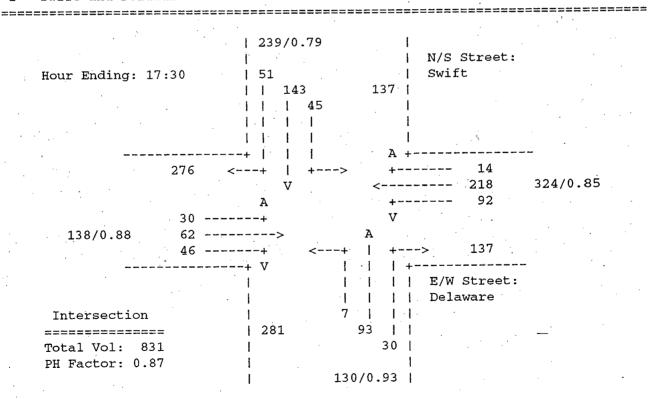


Hour		North	i		East			South	Ĺ	West			Int.
Ending	RT	TH	LT	RT	TH	LT	RT .	TH	LT	RT	TH	LT	Total
====== L6:15	===== 19	40	19	===== 7	===== 38	16	====== 7	===== .18	0	====== 7	17	-===- 2	190*
16:30	30	72	29	11	68	29	10	36	. 0	17	31	9	342*
16:45	44	104	31	18	128	56	20	57	0	28	48	14	548*
17:00	54	146	51	23	177	. 89	29	81	. 2	37	58	25	772
17:15	56	148	45	17	214	92	30	86	4	44	57	29	822
17:30	51	143	45	14	218	92	30	93	7	46	62	30	831
17:45	50	143	57	. 9	190	84	25	95	. 9	44	60	35	801
18:00	50	136	56	8	170	64	26	85	8	45	70	30	748

^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #11 Wednesday Sunny and windy SUM-IT COUNT DATE 05/16/01

1 - Swift and Delaware



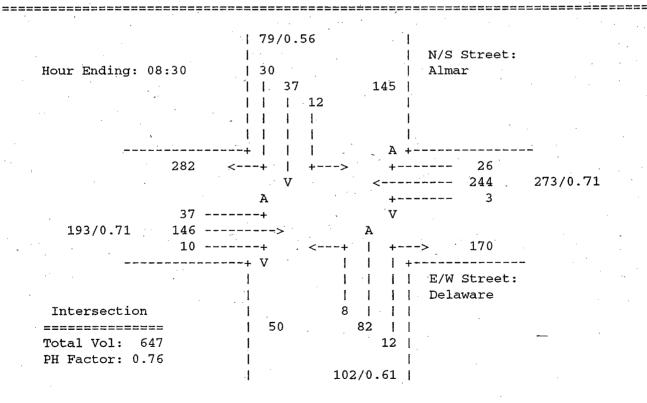
Hour		North	,	East			South				West		Int.
Ending	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	Total
====== 07:15	:===: 0	===== 12	·==== <u>:</u> 2	=== = == 4	21	·====: 6	===== 4	===== 3	1	==== 0	== == ==	===== 2	67*
07:30	6	26	5	. 9	45	7	5	. 8	3	0	44	7	165*
07:45	.9	35	6	25	118	8	10	39	9	5	93	21	378*
00:80	24	53	. 8	27	143	9	12	65	10	8	116	30	505
08:15	35 _`	47	8	30	211	3	11	79	9	9	137	37	616
08:30	30	. 37	12	26	244	3	12	82	8	10	146	37	647
08:45	37	42	18	14	252	4	8	73	5	5	150	35	643
09:00	. 26	33	18	19	257	. 5	8	55	6	2	152	32	613

^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #12 Thursday

SUM-IT COUNT DATE 05/17/01

1 - Almar and Delaware



1 - Almar and Delaware

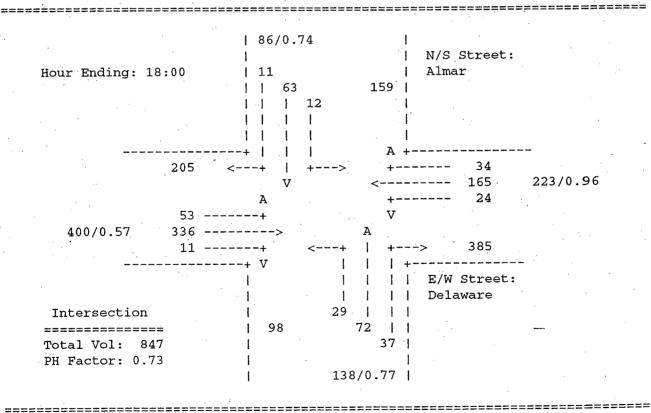
Hour		North	L		East			South			West		Int.
Ending	RT	TH	LT _v	RT	TH	LT	RT	TH	LT	RT	TH	LT	Total
====== 16:15	2	===== 17	6	===== 11	45	6	===== 3	===== 12	7	=== = 2	72	7	190*
16:30	6	31	8	. 17	90	10	19	-26	16	7	153	18	401*
16:45	11	45	. 9	18	125	15	22	43	19	8	187	. 23	525*
17:00	15	58	12	33	162	21	27	55	28	9	218	37	675
17:15	16	62	11	33	159	20	31	58	28	. 9	304	45	776
17:30	16	58	11	` 37	152	26	25	70	28	5	273	52	753
17:45	14	59	12	39	158	26	29	62	30	6 -	297	58	790
18:00	11	· 63	12	. 34	165	24	37	72	29	- 11	336	53	847

^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #12 Wednesday Warm

SUM-IT COUNT DATE 05/16/01

1 - Almar and Delaware

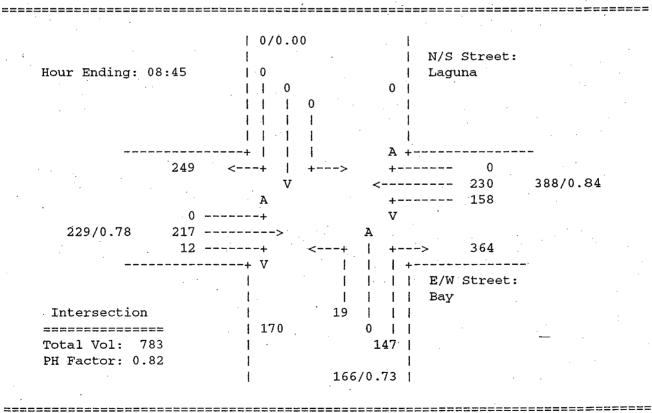


Hour		North	ι		East		-	South	١.		West		Int.
Ending	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	Total
===== 07:15	0	0	0	0	28	===== 15	12	0	0	===== 0	21	0	76*
07:30	0	. 0	0	0	57	37	32	0	- 5	3	59	.0	193*
7:45	0	0	. 0	. 0	107	68	61	. 0	11	6	87	. 0	340*
00:80	. 0	0	0	0	17 0	120	108	. 0	21	11	149	0	579
8:15	0	0	0	0,	212	147	129	0	24	13	178	0	703
08:30	0	. 0	0	0	232	159	148	. 0	20	15	208	0	782
8:45	0	. 0	0.	0	230	158	147	0	19	12	217	Ó	783
9:00	0	0	. 0	Ö	221	137	132	. 0	13	8	186	. 0	697

^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marina Lab #14 Tuesday Fair SUM-IT COUNT DATE 05/15/01

1 - Laguna and Bay



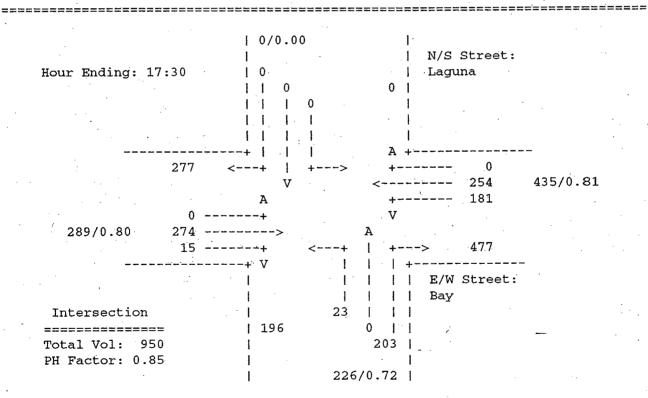
Hour	• ;	North			East			South	i		West		Int.
Ending	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	Total
16:15	0	 0	0	===== 0	===== 50	 19	35	0	2	==== 0	53	0	159*
16:30	0	0	0	· 0	77	35	59	0	. 5	- 3	93	~ 0	272*
16:45	. 0	0	0	: .0	152	75	129	. 0	14	10	170	0	550*
17:00	0	0	0	. 0	203	114	1 73	0	19	12	223	0	744
17:15	0	. 0	0	0	229	153	190	0	21	18	254	0	865
17:30	0	0	0	: 0	'254	181	203	0	23	15	274	0	950
17:45	0	0	0	. 0	214	158	150	. 0	16	. 11	229	0	778
18:00	0	0	0	. 0	245	173	144	0	15	12	255	. 0	844

^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marina Lab #14 Tuesday Fair SUM-IT COUNT DATE 05/15/01

1 - Laguna and Bay

EVENING PEAK



Hour	*	North	l		East			South	٠ .		West		Int.	
Ending	RT	TH	LT	RT.	TH	LT	RT	TH	LT	RT	TH	LT	Total	
====== 07:15	== ==	36	4	===== 1	2	0	0	===== 31	2	===== 3	===== 3	===== 1	**************************************	==
07:30	8	92	15	. 3	- 3	. 0	2	91	. 3	. 9	8	1	235*	
07:45	12	177	39 -	17	6	0	4	191	6	-26	11	4	493*	
08:00	19	257.	96	51	10	4	11	334	12.	34	33	7	868	:
08:15	18	297	105	79	11	7	19	441	15	49	39	. 6	1086	
08:30	21	336	106	100	13	11	18	490	23	63	43	10	1234	
08:45	18	333	89	100	11	12	17	497	27	66	46	11	1227	
09:00	12	326	41	.77	10	10	11	453	26	. 65	31	10	1072	

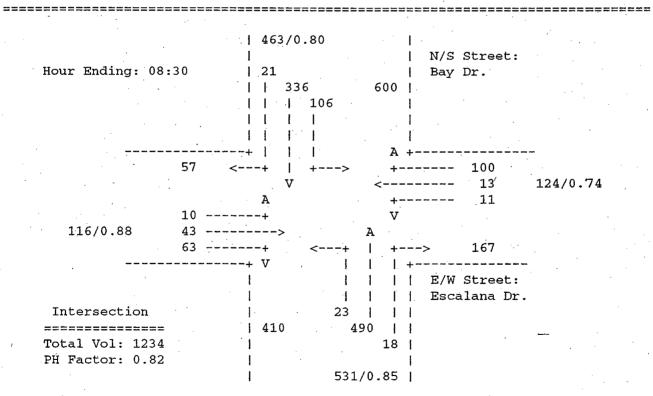
^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #17 Tuesday

SUM-IT COUNT DATE 05/15/01

1 - Bay Dr. and Escalana Dr.

MORNING PEAK



-=====	=====	:====	=====	=====	====	=====	=====	=====	=====	=====	=====		
Hour		North		,	East			South	1		West		Int.
Ending	RT	TH	LT	RT	TH	LT	RT	TH ·	LT	RT	TH	LT	Total
16:15	11	174	26	===== 7	===== 5	===== 5	:===== 7	===== 108	==== 15	19	====: 4	== === 7	======= 388*
16:30	17	257	41	15	14	5	10	192	23	29	4	10	617*
16:45	. 23	398	60	28	22	5	16	326	34	38	4	16	970*
17:00	38	573	83	- 53	26	5	22	478	41	44	14	22	1399
17:15	. 36	592	111	66	25	0	21	522	42	32	13	21	1481
17:30	43	736	156	72	24	0	23	569	55	29	17	23	1747
17:45	43	708	155	78	24	2	20	543	50	31	21	20	1695
18:00	37	683	155	69	25	4	17	504	57	32	12	17	1612

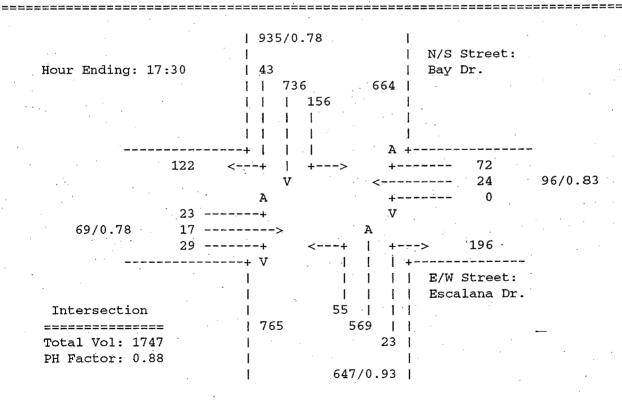
^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #17 Wednesday

SUM-IT COUNT DATE 05/30/01

1 - Bay Dr. and Escalana Dr.

EVENING PEAK

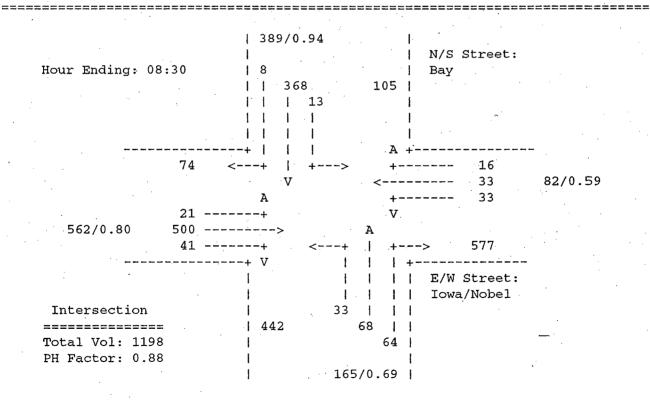


======	=====	=====	=====	=====	=====	=====	=====	=====	=====	====	=====	=====	=======	==
Hour		North	1 -		East		•	South			West		Int.	
Ending	RT	$\mathbf{T}\mathbf{H}$	LT	RT	$\mathbf{T}\mathbf{H}$	\mathbf{LT}	RT	TH	LT	RT	TH	LT	Total	
======	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	========	==
07:15	1	43	4	. 0	1	7	. 5	10	. 4	4	37	. 2	118*	
07:30	1	- 83	. 6	1	2	11	17	14	8	11	103	4	261*	
07:45	3	177	8	2	8	16	32	25	16	. 21	207	5	520*	4.
08:00	3	279	9	7	11	24	:53	40	26	26	369	13	860	
08:15	6	318	12	10	20	23	64	65	31	39	447	21	1056	
08:30	8	368	13	- 16	- 33	33	64	68	33	41	500	21	1198	
08:45	17	350	11	15	33	34	60	65	32	35	495	. 27	1174	
09:00	21	327	12	13	35	31	52	55	- 30	40	474	31	1121	
												 _		

^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #18 Wednesday Sunny and warm SUM-IT COUNT DATE 05/23/01

1 - Bay and Iowa/Nobel



Hour	• •	North	ì		East			South			West		Int.
Ending	RT	TH	LT	RT	TH	ĹТ	RT	TH	LT	RT	TH	LT	Total
====== 16:15	====: 9	152	3	 1	11	11	===== 9	===== 76	7	==== 11	===== 8	=== = = 5	303*
16:30	15	307	7	4	23	23	22	165	19	23	11	10	629*
16:45	25	462	16	6	35	30	31	298	28	34	19	23	1007*
17:00	36	642	20	7	45	35	38	499	38	45	24	39	1468
17:15	51	734	22	9	42	37.	38	545	51	50	23	46	1648
17:30	58	797	19	8	40	32	38	564	50	55	26	. 49	1736
17:45	66	806	13	11	38	33	36	553	55	66	22	39	1738
18:00	63	769	12	15	34	- 33	38	457	56	68	27	32	1604

^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #18 Wednesday Sunny and warm

SUM-IT COUNT DATE 05/23/01

1 - Bay and Iowa/Nobel

•				the second secon	•
	88	35/0.81	· 1		,
•			1	N/S Street:	
Hour Ending: 17:4	45 66	; · .		Bay	
	1.1.	806	603		
	1 1	13	1		
	1.1	1 1 .	1		
•	11	1 1	1		
	+	1 1	A +		
·. :	159 <+	+>	+	11	
	•	V	<	38	82/0.85
	A		+	33	
•	39+		V		
127/0.91	22	->	A		
	66+	<+	+>	71	
	+ V	1	+		
	· 1	1	1 1 1 3	E/W Street:	
•	1	1		Iowa/Nobel	
Intersection	1	55	1 1 1		
=======================================	90)5 [*] 5	53		
Total Vol: 1738	1		36	•	
PH Factor: 0.90			1		
	i	644	/0.74	•	
•	•				

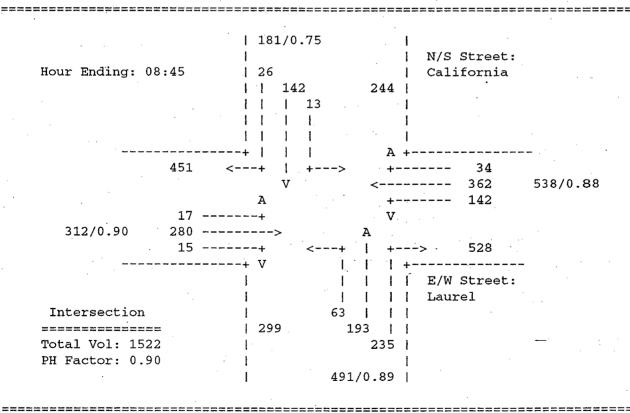
Hour		North	ı		East	•		South		-	West		Int.
Ending	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	Total
AC 15	=====	=====	:====:	-====	=====	=====	=====	=====		====		=====	1504
07:15	0	8	1	2	50	. 2	14	23	8	1	42	1	152*
07:30	2	18	2	8	109	11	36	54	16	1	94	9	360*
07:45	6	34	2	16	181	35	78	107	· 28	7	148	20	662*
08:00	15	69	, 6	34	282	63	135	153	46	10	223	28	1064
08:15	28	103	10	45	326	106	181	180	54	11	261	32	1337
08:30	28	118	12	40	352	134	227	201	64	14	283	24	1497
08:45	26	142	13	34	362	142	235	193	63	15	280	17	1522
09:00	20	126	13	20	354	139	246	202	57	. 17	277	12	1483

^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #20 Wednesday

SUM-IT COUNT DATE 05/23/01

1 - California and Laurel



Hour		North	L	•	East			South			West		Int.
Ending	RT	TH	LT	RT	TH	LT	RT	TH	LT .	RT	TH	LT	Total
====== 16:15	===== 6	30	7	10	84	===== 29	61	===== 3·6	·==== 7	==== 2	136	===== 1	**************************************
16:30	11	.68	´ 9 ·	13	167	65	115	64	12	5	250	. 3	782*
16:45	17	115	. 15	14	293	97	176	97	19	13	366	5	1227*
17:00	27	159	27	17 .	418	133	232	130	24	20	495	8	1690
17:15	27	178	26	10	429	135	228	138	25	22	474	11	1703
17:30	26	188	27	14	461	135	241	160	30	23	513	15	1833
17:45	24	199	24	21	449	137	222	173	28	19	535	- 16	1847
18:00	16	192	14	24	458	144	225	171	29	16	514	. 21	1824

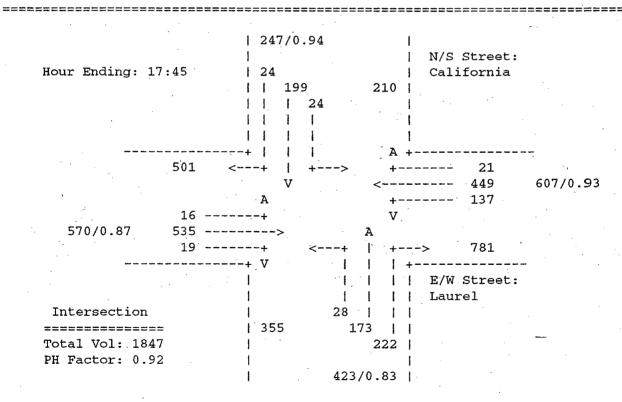
^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #20 Wednesday

SUM-IT COUNT DATE 05/23/01

1 - California and Laurel

EVENING PEAK



Hour		North	L		East			South	<u>l</u>		West		Int.
Ending ======	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	Total
07:15	29	23	42	111	300	46	24	===== 24	:====: 3	===== 8	300	===== 33	943*
07:30	.52	53	117	280	629	89	62	78	7	19.	608	66	2060*
07:45	96	94	186	457	1056	161	129	127	12	28	1037	103	3486*
00:80	130	119	289	659	1446	254	179	176	18	40	1502	155	4967
08:15	134	128	344	741	1525	313	217	205	23	42	1677	186	5535
08:30	137	128	374	746	1539	353	238	204	26	44	1807	168	5764
08:45	125	114	415	697	1466	369	251	194	35	50	1763	225	5704
09:00	115	118	427	637	1395	361	277	186	47	55	1687	235	5540

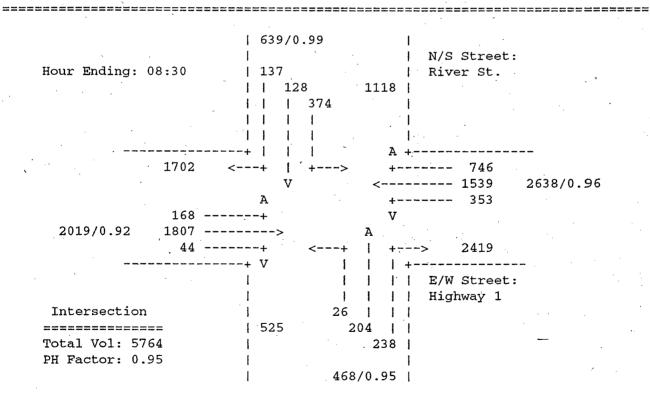
^{*} indicates partial hour total.

City of Santz Cruz - UCSC Long Marine Lab #24 Wednesday light fog

SUM-IT COUNT DATE 05/16/01

1 - River St. and Highway 1

MORNING PEAK



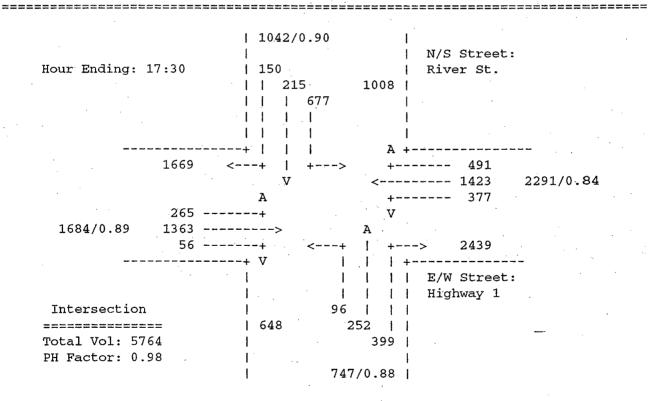
=======	=====	=====	=====	=====	=====	=====	=====	=====	=====	====	=====	=====	========
Hour		North	l		East			South	,		West		Int.
Ending	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	Total
16:15	39	57	170	126	297	·===== · 81	76	===== 71	26	==== 16	342	===== 70	1371*
16:30	85	119	351	251	648	163	150	137	36	32	677	152	2801*
16:45	132	158	479	375	1001	284	230	193	61	56	1045	217	4231*
17:00	159	226	675	500	1307	379	326	269	93	. 65	1383	273	5655
17:15	150	229	681	494	1482	384	348	249	87	61	1298	285	5748
17:30	150	215	677	491	1423	377	399	252	96	56	1363	265	5764
17:45	154	215	685.	484	1465	348	405	253	90	38	1352	271	5760
18:00	182 =====	184	640 =====	452 =====	1541	335 =====	366 =====	229 =====	72 =====	39 ====	1309	267 =====	5616

^{*} indicates partial hour total.

City of Santz Cruz - UCSC Long Marine Lab #24 Wednesday clear

SUM-IT COUNT DATE 05/16/01

1 - River St. and Highway 1



1 - Western and Rt. 1

HOURLY	SUMMARY
nounci	

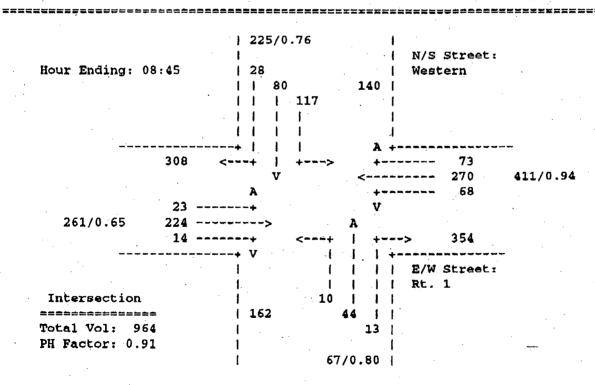
Hour		North	١		East			South			West		Int.
Ending	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	Total
-=====	=====	=====	:====:		======	***	====		=====	MATAS	=====		****
07:15	2	3	13	. 8	66	10	- 3	. 5	2	0	24	3	139*
07:30	4	10	36	22	144	26	5	9	4 .	1	62	4	327*
07:45	8	19	60	37	198	44	7	16	,5	3	112	10	519*
00:80	. 14	36	80	53	269	62	10	28	8	6	202	17	785
08:15	19	56	111	64	255	70	13	34	10	10	211	19	872
08:30	24	72	115	71	247	71	14	43	9	14	226	23	929
08:45	28	.80	117	73	270	- 68	13	44	10	14	224	23	964
09:00	25	78	121	79	259	64	16	41	10	12	208	19	932

^{*} indicates partial hour total.

City of Santa Cruz - USCS Long Marine Lab #1 Wednesday

SUM-IT COUNT DATE 5/22/02

1 - Western and Rt. 1



	1	- Wes	tern	and	Rt.	1
--	---	-------	------	-----	-----	---

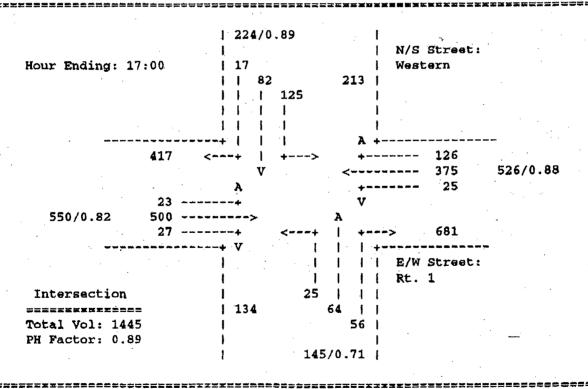
Hour	North				East			South	١.		West		Int.
Ending	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT .	Tota1
	MARKE	=====	=====	=====	=====	ZXXXX	EZZZW:	SEER	EZZEZ:	E = E = E	=====	**====	
16:15	- 4	21	31	21	101	9	21	14	3 -	10	151	6	392*
16:30	9	34	60	48	193	14	29	27	- 6	17	263	13	713*
16:45	14	55	92	96	291	18	49	45	19	22	405	15	1121*
17:00	17	82	125	126	375	25	56	64	25	27	500	23	1445
17:15	18	76	119	146	3.66	23	56	75	28	19	443	20	1389
17:30	18	82	114	145	358	26	64	7.9	27	14	439	23	1389
17:45	17	76	112	147	349	31	49	71	17	12	393	23	1297
18:00	18	60	110	185	351	30	48	65	12	12	392	16	1299

^{*} indicates partial hour total.

City of Santa Cruz - USCS Long Marine Lab #1 Wednesday

SUM-IT COUNT DATE 6/5/02

1 - Western and Rt. 1



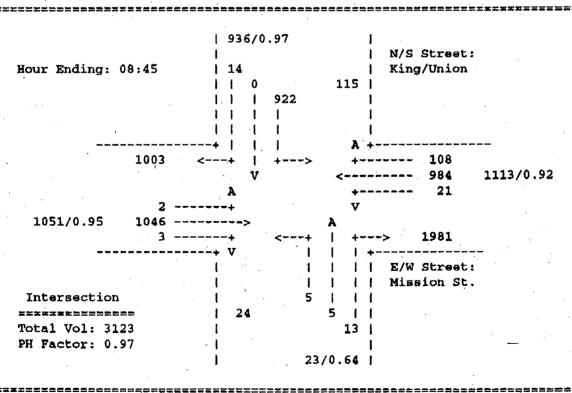
Hour	•	North	l .	•	East			South	١		West		Int.
Ending	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	Total
22222 07:15	1	0	123	8 8	194	4	5	0	0	0	161	0	4961
07:30	2	0	254	2 7	394	5	6	. 0	1	0	382	0	1071
07:45	5	0	440	47	596	6	9	0	1	0	589	O	1693*
08:00	12	0	657	82	856	12	12	0	3	0	866	0	2500
08:15	12	0	772	100	882	14	9	3	· 3	1	944	1	2741
08:30	15	0	869	104	950	17	14	4	4	2	980	2	2961
08:45	14	0	922	108	984	21	13	5	. 5	3	1046	2	3123
09:00	. 7	0	922	104	1002	19	14	6	3	. 5	1037	4	3123

^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #8 Wednesday

SUM-IT COUNT DATE 5/29/02

1 - King/Union and Mission St.



1 - King/Union and Mission St.

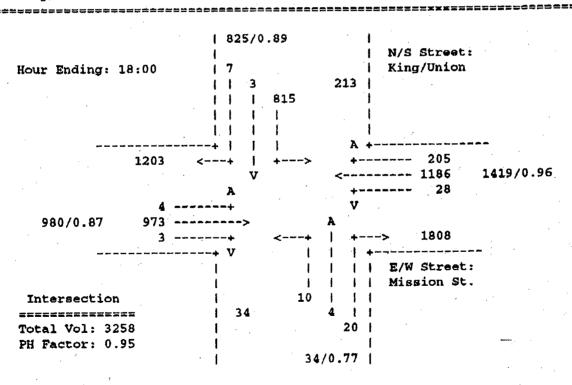
Hour		North	ı		East			South	ł		West		Int.
Ending	RT	TH	LT	RT	TH	LT	RT	TH	ĻT	RT	TH	LT	Total
====== 16:15		0	212	29 29	253	 1	===≠=: 2	 0	:====: 1	 0	253	0	7.54*
16:30	3	. 0	454	65	493	5	4	0	1	0	518	0	1543*
16:45	4	0	635	100	744	6	6	1	1	0	768	0	2265*
17:00	8	1	827	138	1017	9.	8	2	3	2	1023	. 2	3040
17:15	. 6 [.]	1	800	168.	1062	20	13	3	4	4	1025	4	3110
17:30	11	4	756	182	1134	18	12	3	7	5	1039	5	3176
17:45	10	4	777	195	1169	25	14	- 4	10	5	1025	5	3243
18:00	7	3	815	205	1186	28	20	4	10	3	973	4	3258

^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #8
Wednesday

SUM-IT COUNT DATE 5/29/02

1 - King/Union and Mission St.



1 - Chestnut/Rt. 1 and Mission St.

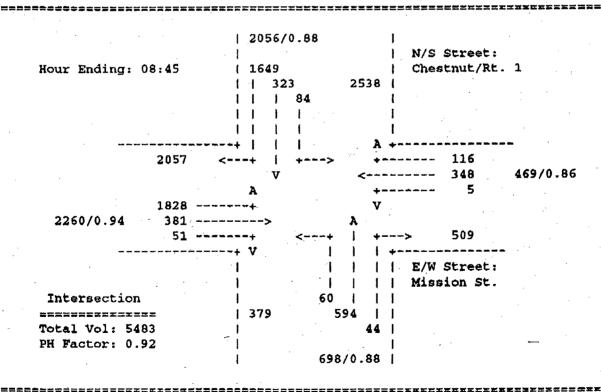
Hour		North			East			South	· .		West		Int.
Ending	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	Total
		*=====	=====	=====	=====				=====	***			
07:15	260	50	11	- 4	. 37	2	1	53	6	5	41	242	712*
07:30	717	107	31	18	78	4	3	132	12	14	97	578	1791*
07:45	1131	159	45	30	163	8	- 5	253	31	24	163	959	2971*
08:00	1581	274	65	44	243	12	24	399	47	34	243	1420	4386
08:15	1814	279	80	72	298	10	32	506	60	36	323	1654	5164
08:30	1716	308	:82	82	342	9	42	602	66	47	345	1806	5447
08:45	1649	323	84	116	348	5	44	594	60	51	381	1828	5483
09:00	1572	328	95	121	331	3	31	629	62	57	399	1792	5420

^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #9
Tuesday

SUM-IT COUNT DATE 6/4/02

1 - Chestnut/Rt. 1 and Mission St.



1 - Chestnut/Rt. 1 and Mission St.

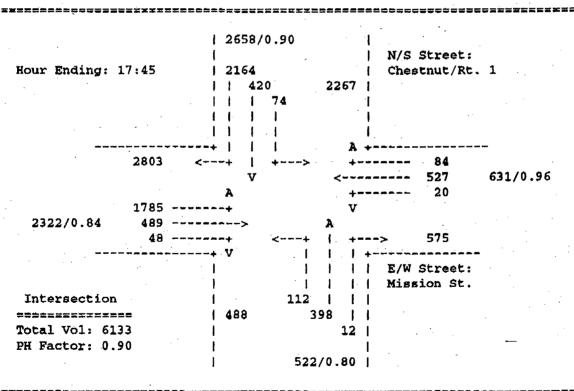
Hour		North	North					South	k .	•	West	. •	Int.
Ending	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	Total
: 16:15	307	7 5	26	 18	90°	1	=≈===: 5	95	24	==== 16	101	350	1108*
16:30	809	166	40	39	181	5	12	187	47	41	254	772	25.53*
16:45	1242	286	69	57	283	11	16	289	70	57	400	1129	3909*
17:00	1756	330	87	78	409	15	17	367	94	77	505	1550	5285
17:15	2012	375	81	78	461	18	17	398	102	64	535	1671	5812
17:30	2083	427	87	78	503	19	11	393	112	52	505	1802	6072
17:45	2164	420	74	84	527	20	12	398	112	48	489	1785	6133
18:00	2071	490	76	82	513	21	20	383	115	43	490	1708	6012

^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #9 Tuesday

SUM-IT COUNT DATE 6/04/02

1 - Chestnut/Rt. 1 and Mission St.



1 - Bay St. and King St.

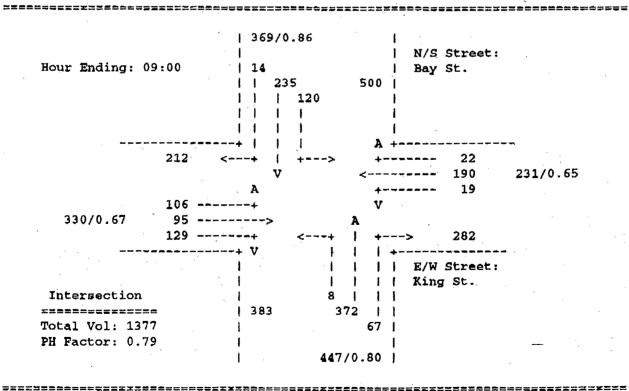
Hour		North)		East		•	South	l		West		Int.
Ending	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	Total
	=====	=====		=====	====		=====		***		=====	====	
07:15	0	31	11	3	10	2	2	30	2	11	4	6	112*
07:30	б	68	33	5	29	7	б	105	9	29	12	. 10	319*
07:45	8	113	· 56	9	38	17	14	150	11	62	21	20	519*
00:80	11	158	71	14	59	22	20	239	13	152	39	43	841
08:15	17	187	101	20	122	27	33	311	13	176	71	89	1167
08:30	13	190	115	20	157	25	61	331	. 8	184	79	107	1290
08:45	15	202	110	22	175	18	62	336	6	184	87	111	1328
09:00	14	235	120	22	190	19	67	372	8	129	95	106	1377

^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #7
Tuesday

SUM-IT COUNT DATE 5/30/02

1 - Bay St. and King St.



1	_	Bay	St.	and	King	24

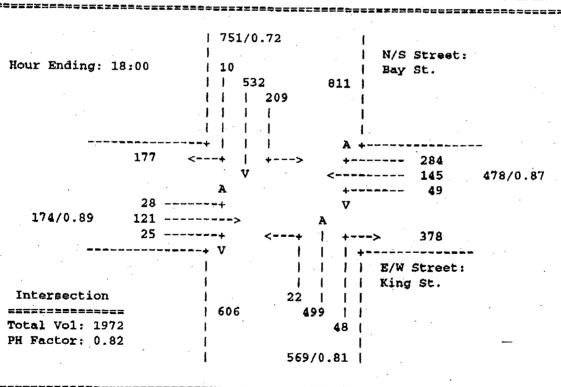
Hour		North	ı		East			South			West		Int.
Ending	RT 	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	· LT	Total
16:15	====x 6	101			XXDD	=====		=====	ture:	=====		=====	
	_	121	50	39	32	22	2,2	87	4	8	46	9	446*
16:30	8	250	104	. 81	61	46	29	182	6	12	70	14	863*
16:45	11	378	174	137	95	66	51	279	12	19	101	19	1342*
L7:00	11	469	206	180	114	·75	56	369	16	27	128	22	1673
17:15	5	466	192	187	107	60	46	375	16	25	103	17	1599
L7:30	12	512	213	207	134	52	52	423	15	24	119	18	1781
17:45	9	526	197	242	128	50	42	478	21	26	117	21	1857
18:00	10	532	209	284	145	49	48	499	22	25	121	28	1972

^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #7 Thursday

SUM-IT COUNT DATE 5/30/02

1 - Bay St. and King St.



1 - Bay St. and King St.

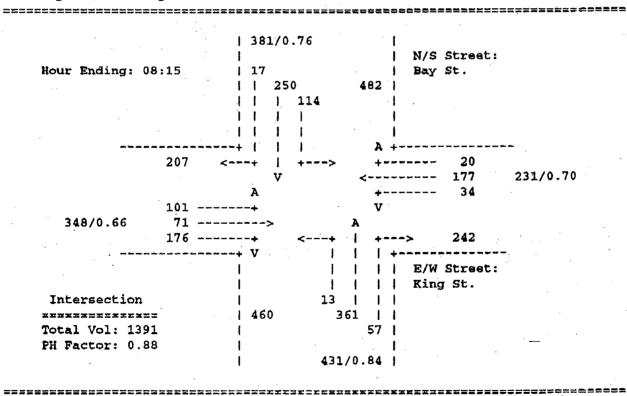
Hour	North				East	•		South			West		Int.
Ending	RT	TH	LT.	RT	TH	LT	RT	TH	LT	RT	TH	LT	Tota1
======	====:	=====	EEE			=====		== xxxx	_====	====			======
7:15	0	39	11	3	10	2	2	30	2	11	4	6	120*
07:30	· 6	96	33	5	39	7	6	105	9	29	12	10	3.57*
07:45	8	184	69	9	93	24	38	200	11	62	21	32	751*
08:00	11	229	84	14	166	29	44	289	13	152	39	55	1125
08:15	17	250	114	20	177	34	57	361	13	176	71	101	1391
08:30	13	238	115	20	157	32	61	331	8	184	79	107	1345
08:45	15	207	97	22	130	18	38	286	6	184	87	99	1189
09:00	14	240	107	22	93	19	43	322	8	154	95	94	1211

^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #7 Tuesday

SUM-IT COUNT DATE 5/30/02

1 - Bay St. and King St.



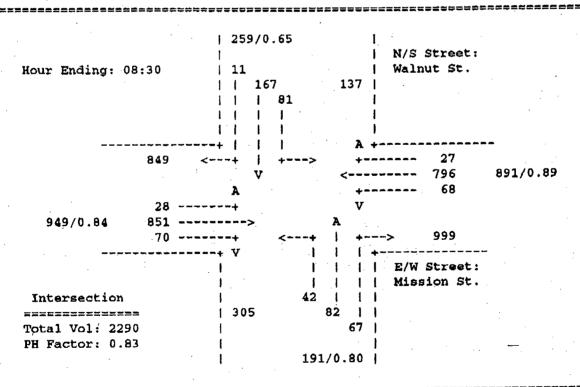
1 - Walnut St. and Mission St.

Hour	North			East				South	L.		West		Int.
Ending	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	Total
====== 07:15	0	===== 8	4	===== 1	219	 6	12	===== 1	 7	==== 8	155	4	425*
07:30	1	28	12	4	393	16	26	- 5	11	23	336	5	860*
07:45	1	71	23	12	587	33	40	21	22	45	549	11	1415*
08:00	5	140	50	24	795	63	58	51	34	66	795	26	2107
08:15	9	163	70	27	761	69	62	79	38	68	832	24	2202
08:30	11	167	81	27	796	68	67	82	42	70	851	28	2290
08:45	11	155	80	20	802	59	69	78	44	60	846	23	2247
09:00	. 9	104	62	13	796	32	75	54	41	- 53	852	. 11	2102

^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #6 Thursday SUM-IT COUNT DATE 5/30/02

1 - Walnut St. and Mission St.



1 - Walnut St. and Mission St.

SUMMARY	

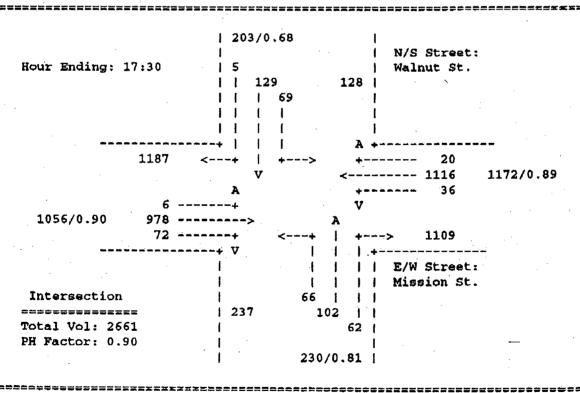
Hour	North				East			South	١		West		Int.
Ending .	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	Total
======			=====		=====	=====		=====				=====	
16:15	1	16	17	5	259	9	18	20	16	19	249	3	632*
16:30	4	53	40	14	55 <i>6</i>	18	36	39	36	31	483	4	1314*
16:45	7	. 77	52	21	821	20	53	56	52	54	752	5	1970*
17:00	· 7	103	61	23	1083	30	69	76	64	75	988	7	2586
17:15	8	113	.70	23	1099	37	64	91	61	72	963	6	2607
17:30	5	129	69	20	1116	36	62	102	66	72	978	6	2661
17:45	5	135	73.	15	1125	48	72	108	67	61	924	8	2641
18:00	8	127	78	20	1153	46	77	110	67	46	916	9	2657

^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #6 Wednesday

SUM-IT COUNT DATE 6/05/02

1 - Walnut St. and Mission St.



1 - Laurel and Mission St.

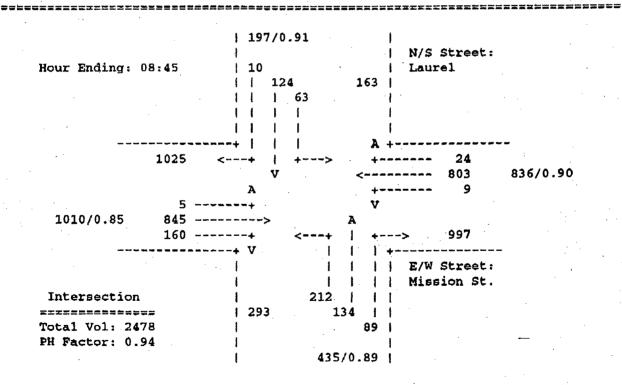
Hour	North				East			South			West		Int.
Ending	RT	TH	LT .	RT	TH	LT	RT	TH	LT	RT	TH	LT	Total
======	=====	=====	=====	-====	=====		=====	=====	=====		=====		
07:15	0	10	. 8	8	160	0	12	12	37	27	150	1	425*
07:30	1	24	18	13	349	2	23	50	88	54	323	2	947*
07:45	4	43	27	17	555	6	45	92	154	86	521	2	1552*
08:00	4	. 74	47	19	740	9	65	135	213	142	761	3	2212
08:15	10	92	59	20	787	11	74	158	223	146	816	3	2399
08:30	12	114	64	19	788	12	87	149	218	160	847	, 5	2475
08:45	10	124	63	24	803	9	89	134	212	160	845	- 5	2478
09:00	12	120	55	31	818	10	84	123	216	153	822	. 6	2450

^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #5 Wednesday

SUM-IT COUNT DATE 6/04/02

1 - Laurel and Mission St.



1 - Laurel and Mission St.

HO	TOT	V	SID	A/3	DV
	/R I		> 1 IF	1M A	ж т

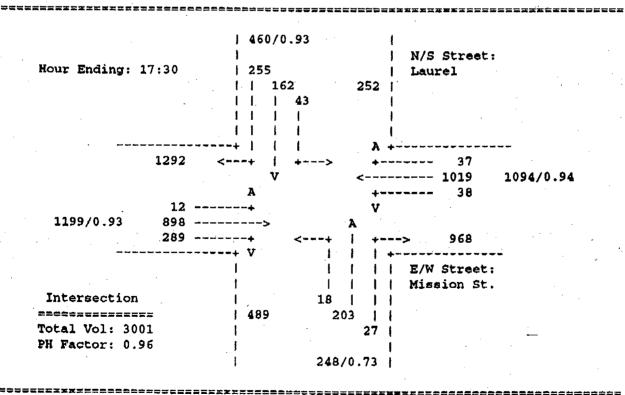
Hour	North				East			South	l .		West		Int.
Ending	RT	TH	LT	RT	TH	LŢ	RT	TH	LT	RT	TH	LT	Total
	====	=====	=====	====	=====		=====						
16:15	55	- 29	9	12	269	11	8	50	1	84	220	2	750*
16:30	110	58	30	25	521	23	12	89	3	163	435	7	1476*
16:45	172	98	41	32	789	33	17	130	7	238	678	12	2247*
17:00	235	135	48	40	1010	38	23	170	11	311	880	12	2913
17:15	244	149	49	40	1009	39	26	170	12	297	895	12	2942
17:30	255	162	43	37	1019	38	27	203	18	289	898	12	3001
17:45	264	157	45	37	987	43	29	197	19	278	820	11	2887
18:00	272	156	48	36	1034	60	29	194	20	263	848	15	2975

^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #5 Tuesday

SUM-IT COUNT DATE 6/04/02

1 - Laurel and Mission St.



1 - Bay St. and Mission St.

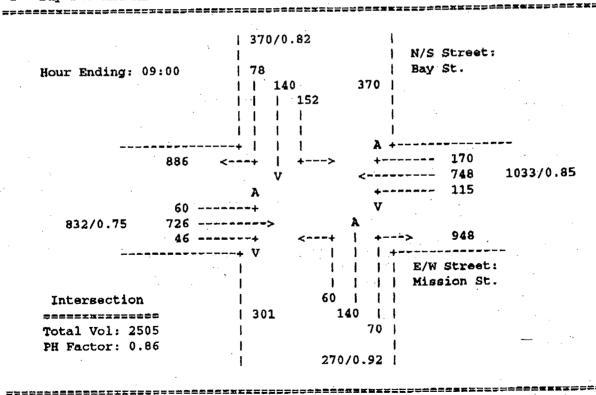
HOURLY	SUMMARY
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Hour	North			East				South	i.		JaeW		Int.
Ending	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	Total
		=====			SEESE	x	=====	-=x===	SASER:		REESS:		
07:15	14	13	40	27	178	11	22	5	2	6	150	. 8	476*
7:30	27	21	70	68	354	25	59	24	9	11	290	16	974*
				115	519	45	75	54	14	17	441	43	1513*
7:45	39	33	118			_					613	71	2137
8:00	56	56	165	174	678	69	99	101	31	24		. –	
8:15	57	102	164	189	666	96	101	131	40	- 26	601	. 75	2248
-		128	169	186	688	116	- 80	149	47	36	662	75	2409
08:30	73			•							666	59	2402
08:45	. 77	145	160	169	683	120	7 7	151	57	38	000		
09:00	78	140	152	170	748	115	70	140	60	46	726	60	2505

^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #4 Thursday SUM-IT COUNT DATE 5/30/02

1 - Bay St. and Mission St.



1 - Bay St. and Mission St.

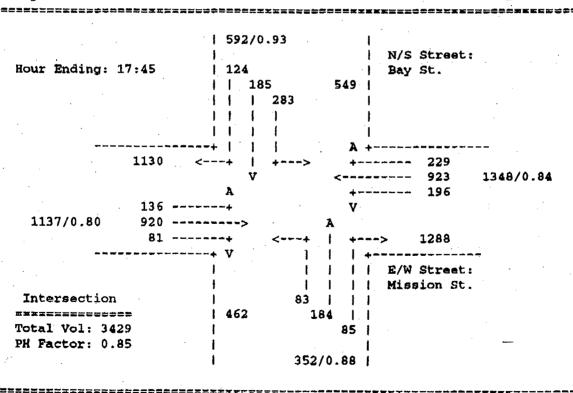
UATIDE	v	SUMMARY
RUURI	. T	SUMMARI

Hour	North			East			South				West		Int.
nding	RT	TH	LT	RT .	TH	LT	RT	TH	LT	RT	TH	LT	Total
;#SZZZZ	=====		=====	=====		****	-====	=====	****	,	****	= x x = = = =	
16:15	40	41	50	. 35	189	40	30	40	15	18	225	19	742*
L6:30	65	83	111	66	395	72	46	67	28	43	451	53	1480*
6:45	101	133	176	107	599	106	60	90	38	66	708	89	2273*
7:00	134	178	257	170	988	155	81	140	61	96	1002	122	3284
7:15	128	183	264	180	898	156	64	147	69	95	982	124	3290
7:30	123	186	277	204	910	175	74	151	74	85	988	120	3367
7:45	124	185	283	229	923	196	85	184	83	81	920	136	3429
18:00	130	181	282	234	846	184	83	173	83	92	799	134	3221

^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #4 Thursday SUM-IT COUNT DATE 5/30/02

1 - Bay St. and Mission St.



1 - Swift and Mission	/P+ 1

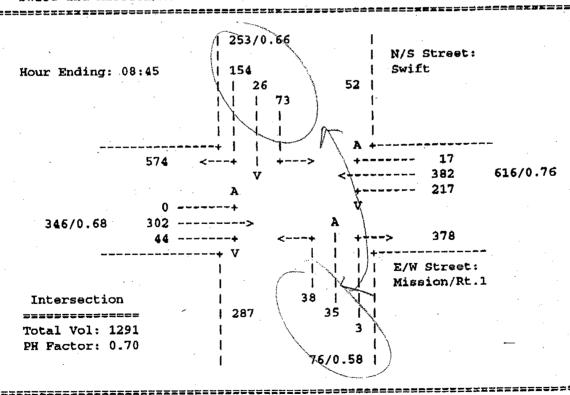
Hour		North	1 ·		East			South	١.		West		Int.
Ending	RT	TH	LT	RT	TH	LT	RŤ	TH	LT	R/T	TH	LT	Total
======)7:15	===== 47	 2	===== 6	===== 3	126	60	===== 4	 5	10	===== 8	88	3	3 62*
)7:15)7:30	65	5	15	4	185	91	4	6	20	13	124	3	535*
07:45	92	5	21	8	244	128	.4	14	41	22	175	4	758*
08:00	152	11	51	18	359	206	4	25	63	38	286	4	1217
08:15	138	16	55	16	307	183	. 0	28	56 53	38	260 287	1	1098 1237
08:30	156	23	62	18	350	203 217	. 3	37 35	53 38	47	302	. 0	1291
08:45 09:00	154 137	26 23	73 - 56	17 7	382 371	209	3	29	30	41	285	Ö	1191

^{*} indicates partial hour total.

City of Santa Cruz - USCS Long Marine Lab #2 Wednesday

SUM-IT COUNT DATE 6/5/02

1 - Swift and Mission/Rt.1



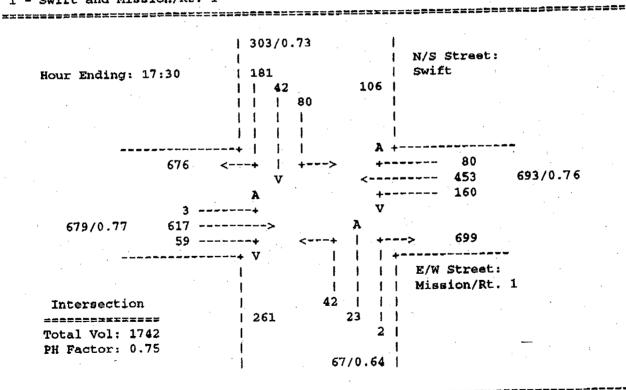
1 - Swift and Mission/Rt. 1

Hour		North			East			South	`		West		Int.
Ending	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	Total
		*****		====== 7	140	45	**************************************	****** 8	12	====== 12	180	- 4	508*
6:15	59	14	21		237	83	8	15	23	19	229	5	7 97 *
16:30	103	21	39	15		115	10	16	31	27	434	7	1242*
L6:45 ·	154	28	54	35	331	• • • •		20	42	44	557	8	1631
L7:00	196	30	73	47	447	157	10		44	54	575	4	1700
7:15	190	37	82	66	458	162	. 4	24	42	59	617	3	1742
17:30	181	42	80	80	453	160	2	23		56	500	2	1566
17:45	161	38	83	69	433	154	1	26	43		463	3	1508
18:00	161	40	82	72	425	137	1	36	44	. 44	403		1500

^{*} indicates partial hour total.

City of Santa Cruz - USCS Long Marine Lab #2 Tuesday SUM-IT COUNT DATE 6/4/02

1 - Swift and Mission/Rt. 1



1 - Almar Ave. and Mission St.

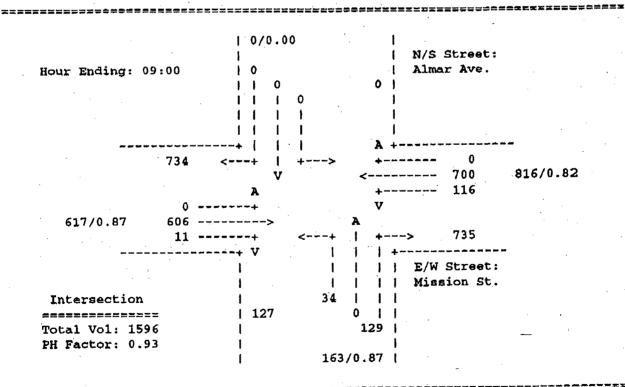
Hour		North			East			South	ı		West		Int.	
Ending	ŔŦ	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	Total	
*****	=====		.=====	=====	425	18	21	===== 0	:====n 4	*==== 2	114	0	294*	
07:15	0	. 0	0	0	135		21		-	6	241	Ŏ	638*	
07:30	0	0	0	, 0	289	47	47	0	8			_		
07:45	0	0	. 0	0	418	75	76	0	13	12	383	0	977*	
00:80	0	. 0	-0	. 0	555	100	102	0	22	16	550	0	1345	
08:15	0	0	. 0	0	559	117	115	0	29	16	601	0	1437	
08:30	0	. 0	0	0	625	116	115	0	33	15	616	0	1520	
08:45	0	Ö	Ö	0	680	111	124	0	37	11	599	0	1562	
09:00	. 0	0	o`	0	700	116	129	Ø	34	11	606	0	1596	

^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #3b Wednesday

SUM-IT COUNT DATE 6/05/02

1 - Almar Ave. and Mission St.



1 - Almar Ave. and Mission St.

WATERIAN.	SUMMARY

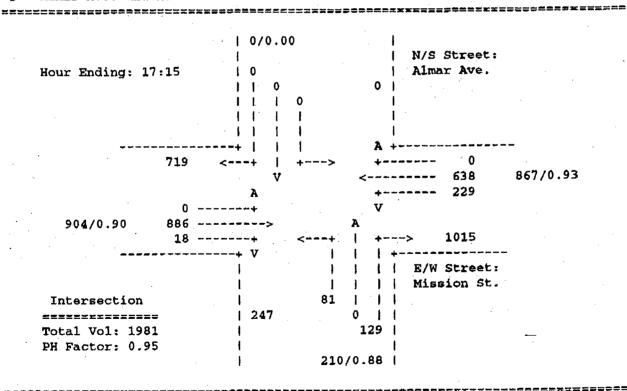
Hour		North	١		East			South			West		Int.
Ending	RT	TH	LT	RT	TH	LT	RT	TH	LT	RŤ	TH	LT	Total
==== 16:15	**************************************	0	0	*== == 0	131	44	32	0	24	 3	227	•==== 0	461*
L6:30	0	. 0	. 0	Ö	272	98	65	0	35	11	446	. 0	927*
16:45	Ó	0	0	. 0	448	147	97	0	50	14	695	0	1451*
7:00	. 0	0	0	0	610	217	122	0	84	18	898	0	1949
17:15	0	0	0	. 0	638	229	129	0	81	18	886	0	1981
17:30	0	0	. 0	0	651	226	142	- 0	111	13	814	0	1957
17:45	0	0	0	0	592	218	142	0	133	13	737	0	1835
18:00	0	0	0	. 0	553	209	153	0	117	. 10	7.38	. 0	1780

^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #3b Wednesday

SUM-IT COUNT DATE 6/05/02

1 - Almar Ave. and Mission St.



1 - Younglove Ave. and Mission St.

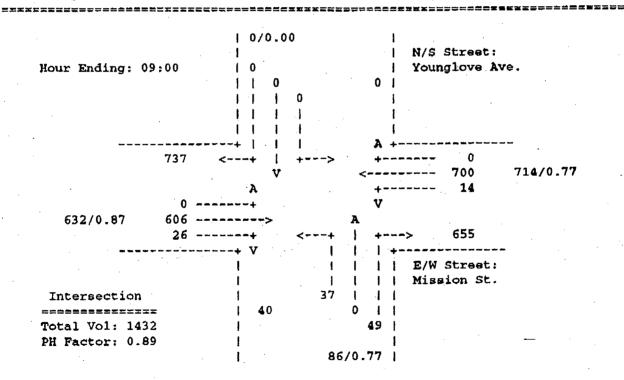
Hour		North	1		East	•		South			West		Inţ.
Ending	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	Total
	====			=====	==	.====	=====	x=====		E Z Z Z Z		=====	*****
07:15	0	0	0	0	135	3	10	0	4	0	114	0	266*
7:30	0	0	0	0	289	9	23	0	9	3	241	0	574*
7:45	Ō	Ö	0	0	418	12	30	. 0	18	10	383	0	871*
00:80	0	0	0	0	555	14	41	0	29	14	550	0	1203
8:15	0	Ó	0	0	559	16	52	0	.32	21	601	0	1281
08:30	0	0	0	0	635	11	51	Ó	39	25	616	. 0	1377
08:45	. 0	0	0	. 0	680	13	49	0	38	22	599	Ō	1401
09:00	Ô	0	Ō	0	700	14	49	0	37	26	606	. 0	1432

^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab - 3a Wednesday

SUM-IT COUNT DATE 6/05/02

1 - Younglove Ave. and Mission St.



1 - Younglove Ave. and Mission St.

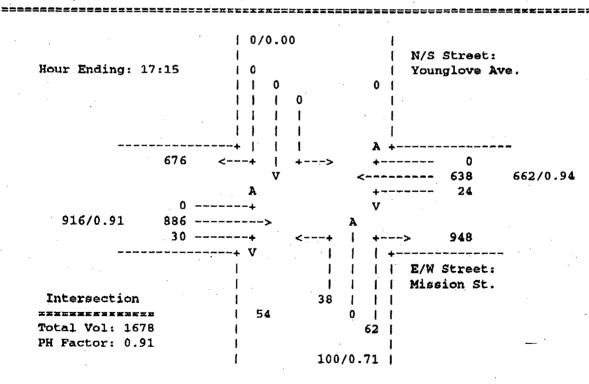
Hour		North			East			South	١ _		West		Int.
Ending	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	Total
##==##=			=====		=====	*****	ZZZ##				****		
16:15	0	0	0	. 0	131	10	14	0	12	6	227	0	400*
16:30	0	0	0	. 0	277	16	22	0	27	16	446	0	804*
16:45	. 0	` 0	0	0	448	21	43	. 0	41	19	695	0	1267*
17:00	0	0	0	0	610	26	59	0	44	25	898	0	1662
17:15	0	0	0	0	638	24	62	0	38	30	886	0	1678
17:30	0	0	0	0	646	26	67	0	29	23	814	0	1605
17:45	. 0	0	0	. 0	592	32	56	0	17	25	737	. 0	1459
18:00	. 0	0	0	0	553	32	52	0	23	.24	738	0	1422

^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab #3a Wednesday

SUM-IT COUNT DATE 6/05/02

1 - Younglove Ave. and Mission St.



1 - Almar Ave./Younglove Ave. and Mission St.

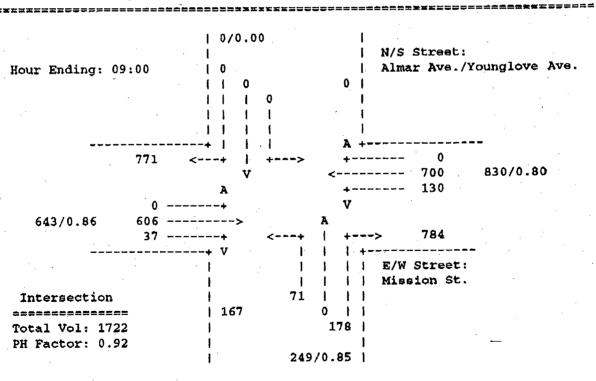
								,				
	North	ı		East			South			West		Int.
RT	TH	LT	RT	TH	LT	RT	TH	LŤ	RT	TH	LT	Total
====	=====		=====		=====		=====	22200	-===	zzzz#:	*****	********
0	0	0	Ó	135	21	31	. 0	8	2	114	.0	311*
_	ō	Ô	0	289	56	70	0	ì 7	9	241	0	682*
-	Ŏ	. 0	0	418	87	106	0	31	22	383	0	1047*
-	0	ō	0	555	114	143	. 0	51	30	550	0	1443
_	Ô	Ô	Ď		133	167	0	61	37	601	0	1558
-	•	-	ň				0	72	40	616	0	1656
_	-	<u>.</u>	•		- - ·		Ô	75	33	599	0	1684
-		-	. 0				Ö	71	37	606	o .	1722
		RT TH 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0	RT TH LT RT 0	RT TH LT RT TH 0 0 0 0 0 135 0 0 0 0 289 0 0 0 0 418 0 0 0 0 555 0 0 0 0 0 559 0 0 0 0 635 0 0 0 0 680	RT TH LT RT TH LT 0 0 0 0 0 135 21 0 0 0 0 289 56 0 0 0 0 418 87 0 0 0 0 555 114 0 0 0 0 559 133 0 0 0 0 635 127 0 0 0 0 680 124	RT TH LT RT TH LT RT 0 0 0 0 0 135 21 31 0 0 0 0 289 56 70 0 0 0 0 418 87 106 0 0 0 0 555 114 143 0 0 0 0 559 133 167 0 0 0 0 635 127 166 0 0 0 0 680 124 173	RT TH LT RT TH LT RT TH 0 0 0 0 0 135 21 31 0 0 0 0 0 289 56 70 0 0 0 0 0 418 87 106 0 0 0 0 0 555 114 143 0 0 0 0 0 559 133 167 0 0 0 0 0 635 127 166 0 0 0 0 0 680 124 173 0	RT TH LT RT TH LT RT TH LT 0 0 0 0 0 135 21 31 0 8 0 0 0 0 289 56 70 0 17 0 0 0 0 418 87 106 0 31 0 0 0 0 555 114 143 0 51 0 0 0 0 559 133 167 0 61 0 0 0 0 635 127 166 0 72 0 0 0 0 680 124 173 0 75	RT TH LT RT TH LT RT TH LT RT TH LT RT 0 0 0 0 0 135 21 31 0 8 2 0 0 0 0 0 289 56 70 0 17 9 0 0 0 0 0 418 87 106 0 31 22 0 0 0 0 0 555 114 143 0 51 30 0 0 0 0 559 133 167 0 61 37 0 0 0 0 635 127 166 0 72 40 0 0 0 0 680 124 173 0 75 33	RT TH LT RT TH LT RT TH LT RT TH LT RT TH 0 0 0 0 0 135 21 31 0 8 2 114 0 0 0 0 0 289 56 70 0 17 9 241 0 0 0 0 0 418 87 106 0 31 22 383 0 0 0 0 0 555 114 143 0 51 30 550 0 0 0 0 559 133 167 0 61 37 601 0 0 0 0 635 127 166 0 72 40 616 0 0 0 0 680 124 173 0 75 33 599	RT TH LT 0 0 0 0 135 21 31 0 8 2 114 0 0 0 0 0 289 56 70 0 17 9 241 0 0 0 0 0 0 418 87 106 0 31 22 383 0 0 0 0 0 0 555 114 143 0 51 30 550 0 0 0 0 0 559 133 167 0 61 37 601 0 0 0 0 0 635 127 166 0 72 40 616 0 0 0 0 0 680 124 173 0 75 33 599 0

^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab - 3c Wednesday

SUM-IT COUNT DATE 6/05/02

1 - Almar Ave./Younglove Ave. and Mission St.



1 - Almar Ave./Younglove Ave. and Mission St.

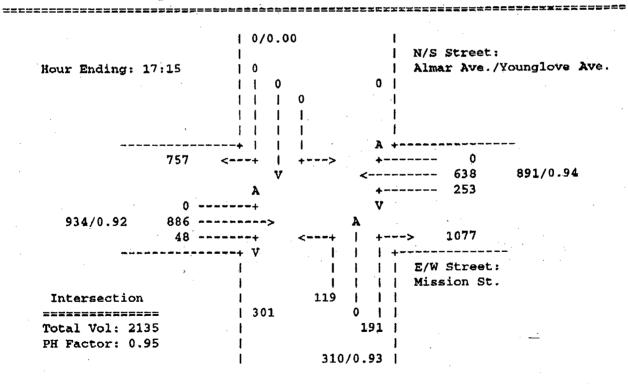
Hour		North			East			South	L		West	•	Int.
Ending	RT	TH	LT	RT	TH	LT	RT	TH	LT	RT	TH	LT	Total
	====	=====	=====			=====	=====			=====	EEEEE		=======
16:15	0	0	, 0	0	131	54	46	0	36	9	227	. 0	503*
16:30	0	0	0	0	277	114	87	0	62	27	446	0	1013*
16:45	0	0	0	. 0	448	168	140	0	91	33	695	. 0	1575*
17:00	0	0	0	0	610	243	181	. 0	128	43	898	0	2103
17:15	0	. 0	0	0	638	253	191	^ 0	119	48	886	0	2135
17:30	0	0	0	0	646	252	209	0	140	36	814	0	2097
17:45	0	0	Ō	0	592	250	198	0	150	38	737	0	1965
18:00	. 0	0	. 0	0	553	241	205	0	140	34	738	0.	1911

^{*} indicates partial hour total.

City of Santa Cruz - UCSC Long Marine Lab - 3c Wednesday

SUM-IT COUNT DATE 6/05/02

1 - Almar Ave./Younglove Ave. and Mission St.



P.H.F.

Site Code: 000000000001 Start Date: 05/15/2001 File I.D. : WESTERN

Site Code: 000000000001 Start Date: 05/15/2001 File I.D.: WESTERN

Street name	:WESTER	N DR	MONARCH	WY. TO	WESTER	N CT.	Di	irection 1					Page	1.D.	: 2
Begin	Thur.	SB		NB		Combined	w	Fri. 05/18	SB A.M.	P.M.	NB A.M.	P.M.	ombined A.M.	P.M.	
Time	05/17	A.M.	P.M. 36	A.M. 6	P.M. 27	A.M. P 15	<u>.m.</u> 63	V3/18	A.M.	r.n.	H.H.	F.M.	# *	*	
12:00 12:15		9	39	8	37	10	76		*	*	*	ŧ	*	*	
12:13		6	26	4	32	10	58		*	. *	*	ŧ	*	*	
12:45		8	30	4	38	12	68	•	*	*	*	ŧ	*	¥	
01:00		7	24	1	38	8	62		*	ŧ	*	*	*	*	
01:15		1	37	1	41	2	78		*	*	*	±	*	T .	
01:30		2	31	3	39	5	70	v	*		*	*	*		
01:45		5	27	3	36	8	63		. *	*	*	* -		*	
02:00		1	46	8	29 30	9 7	75 71	•		· •	*	*	*	*	
02:15		·5	41 38	2	39	3	77		*	- 1	*		*	*	
02:30 02:45		0	36	3	31	3	67		. *	ŧ	*	ŧ	ŧ	*	
02:45		0	34	1	41	i	75		. *	ŧ	*	ŧ	*	*	
03:15	* .	Õ	48	. 2	41	2	89		*	***	*	*	*	*	
03:30		ĺ	42	2	49	3	91		. *		*	*	*	*	
03:45		. 1	39	0	36	1	75		*	*	*	*	*	*	
04:00		2	45	1	26	3	71		*	*	*	* .		×	
04:15		0	46	0	30	0	76		*			*	1		
04:30	. ,	0	51	. 0	47	0	98 85		*	ŧ			*	*	
04:45		2	32 49	0	53 5 1	2 2	100	•	*	*	*	*	ŧ	ŧ	
05:00		2	62	1	46		108		· •	ŧ	+	*	*	*	-
05:15 05:30		6	64	5	57		121		*	*	*	*	*	ŧ	
05:45		2	50	3	55.		105		* *		*	*	*	ŧ	
05:40		. 7	39	1	43	8	82	, .	*	ŧ	*	*	*	*	
06:15		9	49	9	50	18	99		*	-		ŧ	*	*	
06:30		7	41	3	49	10	90		*		*	*	*	*	
06:45		8	37	7	51	15	88		*	*	*	* *	*	*	
07:00		11	26	15	34	26	60	•	*	*	*	*		*	
07:15		22	42	26	33	48	75 61		*			*	,	*	
07:30		21	37	39 55	24 32	60	52		*			*	*	×	
07:45		43 39	20 42	35	34	74	76		*	*	*	¥	*	*	
08:00 08:15		34	26	48	30	82	56		*	*	*	ŧ	*	¥	
08:30		43	23	45	19	88	42			*	*	*	*	*	
08:45		34	27	45	20	79	47	•	*	*		*	*	*	
09:00		. 24	. 18	37	1,9	61	37		ŧ	-	i	*	*	*	:
09:15		3.0	17	38	23	68	40		*	* *	*	*	*	X	
09:30		28		36	26	64	47		‡	. *	*	*	*	*	
09:45		24		54	18	78	43		. 1		1	*	1		
10:00		30	28	23	.15	53	43		,		1	*	;	ż	•
10:15	•	23	12	22	14 15	45 59	26 25					*	*		ł
10:30		23	10 23	36 21	9	49	32			. 1	- 1	*	*	•	ł
10:45 11:00		28 32	11	24	14	56	25		i	t t	t	*	*	. 1	t .
11:00		23	13	34	13	57	26	•	•	t ±	+	*	*	1	
11:15		23	10	46	-6	69	16		1	t ±	*	*	*	ŧ	
11:45		30		34	7	64	14			* *		*	*		_
Totals		659	1577	794	1547	1453	3124		() 0	0	0	` 0)
Day Totals % Total	I	14.48	2236	17.3%	2341 33.8%	45	77	•	i	t 1	*	0 *-	-	0	
Peaks Volume		07:45 159	225	07:45 183	05:00 209	342	5:00 434					<i>a</i>			
P.H.P.		.92	.87	.83	.91	.87	.89				148	U			

Arg = 4582

Site Code : 0000000000002 Start Date: 05/15/2001 File I.D. : BAY Page : 1

Street na	ame :BAY	ST.	- RSCAT	ONA DR.	TO KE	INETH ST	r. ·		Directio	n 1	*				Pag	9	1
Begin	Tue		SB		NB		Combine			Wed.	SB		NB		mbined		
Time	-05/		A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	:	<u>05/16</u>	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	٠.
12:00			30	187	31	105	61	292			47	165	23	118	70	283	
12:15			35	180	31	85	66	265			33	198	32	115	65	313	
12:30			24	126	17	96	41	222			29	181	21	99	50	280	
12:45			25	125	21	129	46.	254			25	181	13	126	38	307	
01:00		•	25	141	و .	130	34	271			15	164	15	117	30	281	
01:15			14	145	5	134	19	279			17	169	17	103	34	272	
01:30			20	131	6	130	26	261	-		13	170	14	126	27	296	
01:45			15	152	6	128	21	280			17	206	12	109	29	315	
02:00			9	202	4	94	13	296			14	242	15	84	29	326	
02:00			. 9	161	4	87	13	248			14	280	10	79	24	359	
02:13			وُ	168	3	98	12	266			4	267	4	89	8	356	
02:30			2	164	1	96	3	260	•		8	241	. 8	122	16	363	
			7	190	2	99	9	289			9	153	5	132	14	285	
03:00			,	176	4	121	9	. 297			11	296	3	120	14	416	
03:15			0				15	343			5	278	5	100	10	378	
03:30			9	207	6	136		360			8	241	3	95	11	336	
03:45	•		5	247	. 4	113	9				. 7	208	4	100	11	308	
04:00			8	326	. 5	88	13	414			11		6	105	17	325	
04:15		•	9	230	5	77	14	307				220				339	
04:30			5	181	4	95	9	276	-		. 6	194	1	145 177	7	437	
04:45			8	188	8	109	16	297			5	260	4.		9		
05:00			2	228	5	136	7	364		•	7	302	3	121	10	423	
05:15			16	243	5	121	21	364			-6	277	3	124	9	401	
05:30			15	224	11	149	26	373			8	210	11	114	19	324	
05:45			19	312	32	140	51	452			18	213	26	114	44	327	
06:00			20	262	24	109	44	371			18	276	28	97	46	373	
06:15			25	189	34	127	59	316			30	255	43	111	73	366	
06:30			36	181	39	128	75	309			34	217	47	130	81	347	
06:45	•		53	163	33	133	86	296			57	273	46	166	103	439	
07:00			66	177	.48	101	114	278			82	210	49	112	131	322	
07:15			85	194	59	84	144	278			74	191	58	111	132	302	
07:30			103	159	109	107	212	266			123	188	91	118	214	306	
07:45			121	175	140	100	261	275			148	146	140	87	288	233	
08:00			138	191	150	104	288	295			126	186	118	83	244	269	
08:15			131	145	115	.77	246	222			142	161	107	104	249	265	
08:30			115	166	110	112	225	278		-	124	137	116	97	240	234	
08:45			114	141	112	89	226	230			119	124	147	107	266	231	
09:00			102	135	101	105	203	240			127	149	149	92	276	241	
09:15			109	130	117	92	226	222			130	161	144	90	274	251	
09:30			103	141	163	85	266	226			126	124	87	60	213	184	
09:45	• .		122	105	160	78	282	183			110	116	96	75	206	191	
10:00			135	94	100	65	235	159			112	161	86	66	198	227	
10:15			116	79	87	50	203	129			88	117	97	47	185	164	
10:30			114	66	94	55	208	121			111	74	127	50	238	124	
10:45			95	62	68	35	163	97			144	54	136	42	280	96	
11:00			88	69	94	41	182	110		•	152	. 76	63	28	215	104	
11:15			120	53	98	35	218	88			122	44	58	25	180	69	
11:30			144	34	139	44	283	78			113	55	67	32	180	87	
11:30			163	57	143	22	306	79			119	53	102	38	221	91	
Totals			2743	7802	2566	4674		12476			2868	8864	2460	4702	5328	13566	
Day Tota	10			0545	4300	7240		.7785				1732		7162		.8894	
% Total	170			43.88	14.48	26.2%	1						13.0%	24.8%	•		
a rotal			T1.49	£0.02	17.70	40.40					T. J. T. 9		-2.00				
Peaks			11:00	05:15	09:00	05:00	07:45	05:15			07:45	04:45	08:30	04:30	08:30	04:30	
Volume			515	1041	541	546	1020	1560		• .	540	1049	556	567	1056	1600	
P.H.F.			.78	.83	.82	.91	.88	.86			.91	.86	.93	.80	.95	.91	
				. 0 3													

Site Code: 0000000000002

Start Date: 05/15/2001 File I.D. : BAY

Avg 18665

Site Code : 0000000000003 Start Date: 05/15/2001 File I.D. : DELAWARE Page : 1

		nn 200	011111011	ND 317D	ma cus	SIDE ST		Direction 1				•	Page	
Street name		<u>RE AVE</u> WB	SURFSI	DK AVK. EB	TU SEA	Combine	Ā	Wed.	WB		EB	Co	nbined	
Begin Time	Tues. 05/15	A.M.	P.M.	A.M.	P.M	A.M.	P.M.	05/16_	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.
12:00	<u> </u>	4	43	3	66	7	109		2	46	6	44	8.	90
12:15		4	48	3	45	7	93		5	55	1 .	50	6	105
12:30		0	45	6	51	6	96		2	45	5	62	. 7	107
12:45	-	2	48	3	56	5	104		3	48	4	50	7	98
01:00		1	35	. 6	32	7	67		• 1	62	3	60	- 4	122
01:15		0	52	5	33	5	85		3	61	5	45	8	106
01:30	•	1	43	1	44	2	87		3	36	5	41		77 99
01:45		0 .	54	2	36	2	90		2	45	1	54 55	3	83
02:00		0	43	0	48	0	91		2	28 47	. 4	65	. Z	112
02:15		0	43	1	40	1	83		2	47	0	61	1	108
02:30		1	34	0	71 62	1 1	105 113		3 1	43	0	77	1	120
02:45		0	51	. 1	80	0	127		ō	46	Ŏ	67	Ō	113
03:00		0 - 2	47 56	. 0	60	2	116		. 2	56	í	56	3	112
03:15		. 5	38	- 2	91	. 7	129		. 6	76	Ō	95	6	171
03:30 03:45		5	53	1	68	6	121		6	48	1	65	7	113
03:43		. 0	37	Ō	71	Ď	108		i	53	0	72	1.	125
04:00		Ď	40	i	81	i	121	,	` 0	50	0	63	0 -	113
04:30		ž	36	2	100	4	136		2	52	1	85	3	137
04:45		3	55	1	74	4	129		2	53	0	97	2	150
05;00		6	49	3	86	9	135		5	49	2	99	. 7	148
05:15		13	60	3	75	16	135		10	58	2	73	12	131
05:30	•	9	48	2	67	11	115	•	11	46	4	64	15	110 120
05:45		13	43	6	48	19	91	•	7	50	4	70 76	11 15	115
06:00		. 9	47	5	72	14	119		11 11	39 40	. 4	47	20	87
06:15	•	8	30	5	57	13	87		19	33	9	50	28	83
06:30		23	25	8	37	31 36	62 80		22	40	13	45	35	85
06:45		24	36 27	12 16	44 39	42	66		24	33	10	38	34	71
07:00		26 30	35	31	36	61	71	•	25	30	26	33	51	63
07:15 07:30		57	32	42	30	99	62	,	53	24	36	25	89	49
07:30 07:45		81	25	53	25	134	50		. 74	26	55	22	129	48
07:45		97	25	32	30	129	55		95	23	38	25	133	48
08:15		69	26	49	22	118	48		74	36	60	22	134	58
08:30		50	20	42	29	92	49		75	24	49	30	124	54
08:45		63	22	58	16	121	38		57	10	41	13.	98	23
09:00		58	19	43	16	101	35	- (44	28	47	24	91	52
09:15		27.	22	34	21	61	43		46	20	49	15	95	35
09:30		30	22	41	27	71	49		27	20	39	17	66	37 30
09:45		32	20	30	22	62	42		37	16	28	14	65 71	30 27
10:00		34	17	45	12	79	29		29	16	42	11 16	52	28
10:15		. 37	12	24	15	61	27		28 25	12 8	32	14	57	22
10:30		29	10	36	10	65	20 16		36	5	31	13	67	18
10:45		24	10	39	6	63			18	14	34	6	52	. 20
11:00		27	7	39	. 7 . 7	66	14 15	•	28	5	31	7	59	12
11:15		34 40	. 8	50 49	. 1	89	13		24	2	49	4	73	- 6
11:30		34	6	66	ر د	100	9		47	5	43	9	90	<u>14</u>
11:45 Totals		1014	1607	901	2078	1915	3685		1008	1709	848	2146	1856	3855
Day Total:		TOTA	2621		2979	.,	5600			2717		2994		5711
% Total	•	18.1%		16.0%				•	17.6%	29.98	14.8%	37.5%		
a TACAT					- · · - ·									
Peaks		07:30	04:45	11:00	04:15	07:30	04:30		07:45	03:15	07:45	04:30	07:45	04:30
Volume		304	212	204	341	480	535		318	233	202	354	520	566
P.H.F.		.78		.77	.85	.89	.98		.83	.76	.84	.89	.97	.94

Site Code: 0000000000003 Start Date: 05/15/2001 File I.D.: DELAWARE Page: 2

Ctroot nam	۰.	ndi yay	מעג מס	- SURFSI	DR AVR	ም ስ ያዩ፤	ASIDE ST	ι .	Dire	ction 1			. `	•			Page	. T.D.	: 2
<u>Street nam</u> Begin		<u>usuana</u> Thur	MB	- SURFAI	EB	. 10 011	Combine		Dire	Fri.	WB			EB			ined		
Time		05/17		P.M.	A.M.	P.M.	A.M.	P.M.		05/18	A.M.	P.M.	A	.M.	P.M.		.M	P.M.	
12:00			2	52	5	41	7	93			ŧ	. 1	- 1	. t	*		*	*	
12:15			6	38	2	49	8	87			ŧ	· i	- 1	ŧ	*	1	*	*	
12:30			4	35	• 5	38	9.	73			*			*	ŧ	- 1	*	*	
12:45			. 1	52	3	58	4	110			*	1	-1	*	*	1	*	*	
01:00			. 3	42	4	51	7	93			¥	1	1	*	*	- 1	*	*	
01:15			2	54	4	38	6	92			* *	. 1	1	*	*	- 1	*		
01:30			0	44	2	51	2	95			*	1	- 1	*	i	. 1	*	X	
01:45			2	47	3	32	5	79			*	1	i	*	*	- 1	*	*	•
02:00			1	41	1	49	2	90			*	. 1	- 1	*		-	*	X	
02:15			0	41	3	59	3	100			*	1	1.	*	· 1	- 1	*	1	
02:30			. 1	35	1	95	2	130			*		1	. *	í		*	. x	
02:45			0	65	0	74	0	139			*		Г	. #	í	- 1	T		
03:00			0	51	1	79	1	130			*		!	*	1	1	. T		<u>.</u>
03:15			3	41	0	55	3	96			*		t	ŧ	. 1		, X	•	
03:30			8	43	. 0	104	8	147			*			*	1	- 1	*	,	
03:45			4	39	1	79	5	118			t			*	,	. !	ŧ		\ •
04:00		•	0	43	1	69	1	112			*			Ť	,	- 1	*	,	
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04:45		• •	4	48	1	71	5	119			* *		t k	*			÷		, }
05:00			7	50	0	102	7	152			. T			*					
05:15			9	42	4	89	13	131		-	. *		*	*			*		ŀ
05:30			16	50	7	72	23	122			. *			*			*		Ł
05:45			8	54	5	55	13	109			· 1			*			ŧ		k
06:00			11	40	8	81	19	121						*			*	. ;	- *
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06:45			24	46	. 9	46	33	92					*	*		*	*		*
07:00			25	35	17	32	42	67 78						*			*		ŧ
07:15			34	32	32	46	66	78 59					±	*		*	ź		*
07:30			47	28	44	31	122	47					*	*		*	*		*
07:45			73	25	49	22 17	141	37						*			*		ŧ
08:00			103	20	38	26	141	42					*	*		.	*		ŧ
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08:30				17	39	16	. 92	33		-	*		*	*	-	*	*		*
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09:00			39 50	31 13	36	20	86	3,3		•	*		*	. *		*	*		¥
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% Total				28.3%			·.	.,			•	-	-	•					
Peaks Volume			07:45 324	02:45 200	07:30 190		07:45 513	04:30 554		i,				**					
P.H.F.			.78	.76	.80	.88	.90	.91					i						

mg=5674

MARKS TRAFFIC DATA SERVICE

Page 1

CITY OF SANTA CRUZ

DELAWARE ST. W/O NATURAL BRIDGES DR. Site Code: delaware

	4.4											******					·
Start	14- Jan-	E	В	w	B	15- Jan-	. 6	В		/B	16- Jan-	. F	В	M	/B	To	tal
	02					02					02					•	**
12:00	Mon	A.M.	P.M.	A.M.	<u>P.M.</u>	Tue	Ϋ́W	P.M.	A.M.	P.M.	Wed	<u>A.M.</u>	P.M.	A.M.	P.M.	A.M.	P.M.
12:15				•			0	34 17	0	40 20		0	42 26	0	51 30	. 1	167 93
12:30			•	*	*		. 0	. 13	O.	20 25	•	1	23	1	30	. 2	93 91
12:45	*		*.	10 and 10			. 0	26	1	43		ò	26	ó	31	1	126
01:00			•	•	•	•	1	31	i	33		ŏ	22	1	30	3	116
01:15		-₩	•	•	•		ò	24	ò	34		ŏ	20	ó	28	ő	106
01:30		•	*	*	1.		1	24	ī	19		Ĭ	28	ŏ	30	3	101
01:45		*	≠ `	*	*		Ö	21	Ö	29		2	32	2	21	4	103
02:00		•	•	•	•		Õ	15	Ī	27		1	27	1	29	.3	98
02:15			•	•	•		1	23	-1	25		0	16	0	16	2	80
02:30		*	*	*	*		0	21	0	27		. 0	24	0	20	0	92
02:45	,	- *	*	•	•		0	19	0	29		. 0	29	- 0	29	0	1 0 6
03:00		•	•	•	*		0	25	0	33		0	26	0	31	0	115
03:15	•	•	*	*	*		0	16	0	15		1	19	. 0	24	. 1	74
03:30		¥	•	•	•		0	23	0	30		1	. 22	. 0	27	1	102
03:45				*	•		0	24	1	27		0	22	0	22	1	95
04:00		*	•	•	*		1	16	0	24		0	. 14	0	27	1	81
04:15		*	. *	*	. *		. 0	13	0	16		0	17	0	25	0	- 71
04:30		. *	*	*	•		. 0	13	0	17		1	21	1	23	2	74
04:45		*	•	*.	*		2	18	0	25		2	29	2	28	6	100
05:00			•	. "	•		1	23	1	16		1	55	1	24	4	118
05 :15		*.	•	*	•		0	· 21	0	20		0	34	2	32	2	107
05:30		•	•	•	. •		0.	26	-3	27		1	23	1	19	5	95
05:45		•	•	*	•		3	22	5	25		1	16	4	15	13	78
06:00	•	*	*	*	•		1	20	2	22		5	15	5	28	13	85
06:15		•					6	13	8	19		4	20	5	19	23	71
06:30					*		8	14	. 4	15		7	15	-2	11	21	<i>5</i> 5
06:45		•	•	•	•		7	13	5	. 9	-	4	12	7	12	23	46
07:00			•	_			. 0	14	9	11		3	6	6	30	18	61
07:15							11	12	25	11	•	5	12	14	22	55	57
07:30		•	•				10	9	21	5		7	5	13	8	51	27
07:45		. *					12	. 11	29	13	+	12	. 1	25	3	78	28
08:00		* .		. #			11	10	31	12		9	3	24	7		32
08:15				*	*		6	7	25	13		12	13	29	12	72	45
08:30		.			•		3	11	23	8		16	19	28	16	70	54
08:45		-	*	*	•		13	. 9	32	10		9	22	31	17	85	58 39
09:00			_			•	14	9	22	4		16	12	24	14	76	
09:15			-	# -	•		12	3	19	9		14	15	22 15	16 13	67 83	43 40
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09:45		*			-		16	8	37	11		12	6	29	11 5	112	36 21
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11:30							14	. 1	17	0		14		39	1	107	5
11:45							19 344	<u> </u>	<u>28</u> 556	<u>. 0</u> 820		21 290	<u>4</u> 817	520	901	1710	3233
Total		0	0	0													
Perce		0.0%	0.0%	0.0%	0.0%		33.1%	66.9%	40.4%	59.6%		26.2%	73.8%	36.6%	63.4%	34.6%	65.4%
ntage Day													,		<u> </u>	49	42
Total	-						10	39	13	76		11	07	14	21	49	4.3
10(4)		T.0-	1-1	F	<i>p</i> .												

TO: LESLEY

ALBERT

FROM: MIETEL

CGTM @

MARKS TRAFFIC DATA SERVICE

Page 2

CITY OF SANTA CRUZ

DELAWARE ST. W/O NATURAL BRIDGES DR. Site Code: delaware

,	17-					18-			·- -		19-	پروند و روسید					·····
Start	Jan- 02		EB		VB	Jan- 02	E	В	W	/B	Jan- 02	. • •	В		VB	To	otal
Time 12:00	Thu	A.M.	P.M.	_A.M.	P.M.	Fri	A.M.	P.M.	A.M.	P.M.	Sat	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.
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11:00		9	2	15	15				•	•		₩	<u>-</u>	- "	•	24	17
11:15		15	3	26	26			• 	•	-			T			. 41	29
11:30		22	1	25	25		*	-				•	•		-	47	26
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Total		328	706	545	545		0	0	0	0		٥	0	0	0	873	1251
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Day		10	34	10	90		0		0			0		0		21	24
Total																	
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Total																	

APPENDIX D-2

APPROVED AND PENDING PROJECT TRIP GENERATION ESTIMATES

Estimated Trip Generation

Background Projects
Marine Science Campus CLRDP EIR

Projects Under Construction

				AM			PM	
Location	Туре	Units/Sqft	In	Out	Total	ln	Out	Total
1008 Soquel	SRO	15	5	15	20	12	7	19
500 Ocean	Motel	34	10	7	17	20	18	38
208 Bay	Condos	10	1	7	8	6	3	9
505 El Rancho	SFD/TH	11	4	13	17	9	6	15
401 Pacific	SRO	72	15	45	60	51	29	80
101 Pacific	Apt	108	9	48	57	52	25	77
2901 Mission	Indust	16,408	19	4	23	5	14	19

Approved Projects

7.(5)				AM .			PM	
Location	Туре	Units/Sqft	In	Out	Total	ln	Out	Total
1280 Shaffer	Apt	206	17	89	106	87	43	130
175 Belvedere	Apt	6	1	5	6	15	7	22
927 Soquel	SRO	24	7	19	26	19	11	30
	Retail	2,360	10	7	17	25	28	53
502-06 Soquel	Apt	34	3	17	20	25	12	. 37
	Comm	3,641	12	· 1	13	14	69	83
719 Water	Comm	28,507	46	30	76	132	142	274
1375 Pacific	Comm	90,442	92	58	150	282	306	588
125 River	Office	104,500	100	64	164	3110	336	646
	Retail	6,500	19	12	31	50	53	103
2027 Pacific	Comm	3,720	14	8	22	34	38	72
1111A River	Live/Work	7 -	2	5	7	16	8	24
133 Leibrant	SFR	48	11	32	43	35	20	55
630 Water	Apt	53	5	25	30	32	15	47
	Office	1,000	4	1	5	14	66	80
211 Gault	Sen. Housing	37	3	19	22	26	13	39
215 Beach	Motel	110 .	29	19	48	33	28	61
119-125 Blaine	Studio	13	5	14	. 19	11	6	17
2050 Pacific	Condo	69	6	32	38	30	15	45
615 Market	Townhome	50	5	25	30	23	12	35
120 Campbell	SFR	2	0	2	2	2	0	2
115 Coral	Shelter	30	8	22	30	23	13	36
115 Dubois	SRO	49	11	.33	44	36	20	56
230 Fern	Light Indust	18,870	15	2	17	2	. 16	18
219 Grandview	Townhomes	20	1	8	9	11	5	16
230 Grandview	Condos	21	2	7	9	11	6	17
195 Harvey	Light Indust	17,212	14	2	16	2	15	17
-	Apt	.14	2	8	10	18	8	26
2050 Pacific	Retail	6,500	19	12	31	50	53	103
	Office	104,500	170	23	193	33	163	196

APPENDIX D-3

LOS CALCULATION SHEETS

Marine Science Center

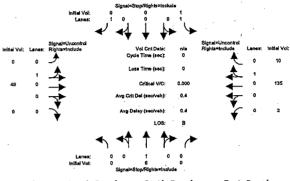
November 2003

Summary Scenario Comparison Report (With Average Critical Delay) Future Volume Alternative

	· ·	· 	Existi	ng AM		l	Ex+P	h 1 AM				Ex+Ph 1	+ Ph 2 AM				??	??	
			Avg		Avg Crit		Avg		Avg Crit		Avg		Crit	Avg Crit	Avg Crit		Avg		Avg Crit
Intersec	ion	LOS	Del (sec)	Crit V/C	Del (sec)	LOS	Del (sec)	Crit V/C	Del (sec)	LOS	Del (sec)	Crit V/C	V/C Change	Del (sec)	Del Change	LOS	Del (sec)	Crit V/C	Del (sec)
#1	Delaware/Shaffer [N/S:Shaffer E/W:Delaware]	A	0.9	0.000	0.9	В	0.4	0.000	0.4	В	0.2	0.000	+ 0.000	0.2	- 0.1	?	xx.x	X.XXX	XX.X
#2	Delaware/Natural Bridges [N/S:Natural Bridges E/W:Delaware]	Α	7.9	0.194	7.9	А	8.4	0.275	8.4	Α	9.4	0.378	+ 0.103	9.4	+ 0.9	?	xx.x	x.xxx	xx.x
#3	Delaware/Swanton [N/S: Swanton E/W: Delaware]	A	3.9	0.000	3.9	В	3.7	0.000	3.7	B	3.4	0.000	+ 0.000	3.4	- 0.2	?	xx.x	x.xxx	xx.x
#4	Bay/Laguna [N/S:Laguna E/W: Bay]	. В	4.0	0.000	4.0	В	4.1	0.000	4.1	В	4.2	0.000	+ 0.000	4.2	+ 0.1	?	xx.x	x.xxx	xx.x
#5	SR 1/Shaffer [N/S: Shaffer E/w: SR 1]	В	2.3	0.000	2.3	В	2.3	0.000	2.3	В	2.3	0.000	+ 0.000	2.3	+ 0.0	?	xx.x	x.xxx	xx.x
#6	Delaware/Swift [N/S: Swift E/W: Delaware]	В	11.0	0.438	11.0	В	12.0	0.496	12.0	В	13.8	0.595	+ 0.099	13.8	+ 1.9	?	xx.x	x.xxx	xx.x
#7	Delaware/Almar [N/S: Almar E/W: Delaware]	А	9.3	0.354	9.3	А	9.7	0.384	9.7	В	10.2	0.422	+ 0.038	10.2	+ 0.5	ş	xx.x	x.xxx	, xx.x
#8	SR 1/Western [N/S: Western E/w: SR 1]	С	22.1	0.350	25.9	С	22.6	0.367	26.8	С	23.1	0.386	+ 0.019	27.6	+ 0.9	?	xx.x	x.xxx	xx.x
#9	SR 1/Swift [N/S: Swift E/w: SR 1]	С	21.2	0.316	29.6	С	21.1	0.332	29.6	С	20.9	0.351	+ 0.019	29.5	- 0.1	?	xx.x	x.x xx	, xx.x
#10	Mission/Almar [N/S: Almar E/w: Mission]	. с	21.7	0.396	29.3	C	22.3	0.421	30.4	С	23.1	0.455	+ 0.035	- 31.6	+ 1.2	?	xx.x	x.xxx	xx.x
#11	Mission/Bay [N/S: Bay E/w: Mission]	С	31.8	0.672	30.7	С	32.1	0.695	31.4	С	32.7	0.725	+ 0.030	32.6	+ 1.2	?	x×.x	x.xxx	xx.x
#12	Laurel/California [N/S: California E/w: Laurel]	C .	20.3	0.442	23,8	С	20.4	0.447	24.0	С	20.6	0.452	+ 0.005	24.1	+ 0.2	7	xx.x	x.xxx	xx.x
#13	Mission/Laurel [N/S: Laurel E/w: Missionl]	С	22.1	0.570	22.3	С	22.0	0.579	22.2	С	21.9	0.594	+ 0.015	22.0	- 0.2	? .	xx.x	x.xxx	XX.X
#14	Mission/Walnut [N/S: Walnut E/w: Mission]	С	22.9	0.539	24.8	С	22.6	0.547	24.6	С	22.3	0.561	+ 0.014	24.3	- 0.3	?	xx.x	x.xxx	xx.x .
#15	Mission/Union [N/S: Union E/w: Mission]	C	24.8	0.641	24.8	С	24.9	0.649	24.6	С	24.9	0.662	+ 0.013	24.4	- 0.3	?	xx.x	x.xx	xx.x
#16	Mission/Chestnut [N/S: Chestnut E/w: Mission]	D	40.0	0.976	52.1	D	41.5	0.986	54.4	D	44.0	1.002	+ 0.016	58.4	+ 4.0	? .	xx.x	x.xx	xx.x
#17	Mission/River [N/S: River E/w: Mission]	С	35.0	0.860	46.4	D	35.1	0.865	46.6	D	35.3	0.874	+ 0.009	47.1	+ 0.5	?	XX.X	x.xxx	xx.x
#18	Western/Meder [N/S: Western E/w: Meder]	Α	8.1	0.233	8.1	Α	8.2	0.239	8.2	Α	8.3	0.250	+ 0.011	8.3	+ 0.1	'?	xx.x	x.xxx	xx.x
#19	High/Western [N/S: Western E/w: High]	D	4.2	0.000	4.2	D	4.4	0.000	4.4	D	4.6	0.000	+ 0.000	4.6	+ 0.2	?	XX.X	x.xxx	xx.x
#20	High/Bay [N/S: Bay E/w: High]	В	18.1	0.424	. 19.3	В	18.1	0.424	19.3	В	18.2	0.425	+ 0.001	19.4	+ 0.0	?	XX.X	x.xxx	xx.x
#21	Bay/lowa [N/S: Bay E/w: lowa]	В	12.2	0.284	10.5	В	12.2	0.285	10.5	В	12.1	0.285	+ 0.001	10.4	- 0.0	?	xx.x	x.xxx	xx.x
#22	Bay/Escalona [N/S: Bay E/w: Escalana]	С	4.6	0.000	4.6	С	4.7	0.000	4.7	С	4.7	0.000	+ 0.000	4.7	+ 0.1	7	xx.x	x.xxx	xx.x
#23	Bay/King (N/S: Bay E/w: King)	В	19.3	0.575	22.9	В	19.3	0.576	22.9	B	19.3	0.578	+ 0.002	22.9	+ 0.0	?	xx.x	X.XXX	xx.x
#24	Empire Grade/Heller [N/S; Heller E/w; Empire Grade]	В	3.2	0.000	3.2	В	3.2	0.000	3.2	. B	3.2	0.000	+ 0.000	3.2	+ 0.0	?	xx.x	x.xxx	xx.x
						,									1				

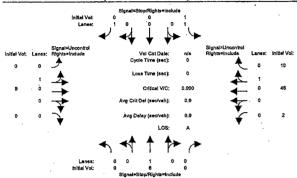
Level Of Service Computation Report
2000 HCM Unalgnatized (Future Volume Atlemative)
Ex + Ph 1 AM

Intersection #1: Delaware/Shaffer [N/S:Shaffer E/W:Delaware]



Approach:	No	rth B	ound	Son	ith Bo	bauc	E	ast Bo	ound	We	est Bo	bund
Movement:	ь	- T	- R	L ·	- т	- R	L.	- т	- R	ь	- T	- R
Volume Module	e:										•	
Base Vol:	0	6	0	1	0	0		9	0	2	46	10
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00		1.00	1.00
Initial Bse:	0	6	0	1	0	0	0	9	0	2	46	10
Added Vol:	0	. 0	0	0	0	0	0	40	0	0	89	0
Campus Incr:	0	.0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	6	0	1	0	0	0	49	0	2	135	10
User Adj:	1.00	1.00	1.00		1.00			1.00			1.00	
PHF 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
PHF Volume:	0	6	0	1	0	0	0	49	0	2	135	10
Reduct Vol:	0	0	0	0	0	0	0	0	0		0	0
Final Vol.:	0	6	0	1	0	0	0	49	0	2	135	10
Critical Gap	Modu:	le:			•							
Critical Gp:	XXXXX	6.6	XXXXXX	7.2	XXXX	XXXXX	XXXXXX	XXXX	XXXXXX	4.1	XXXX	XXXXXX
FollowUpTim::	XXXXX	4.1	XXXXX						XXXXX			XXXXXX
				[]			11					
Capacity Mod	ile:											
Cnflict Vol:	XXXX	198	XXXXX	196	XXXX	XXXXX	XXXX	XXXX	XXXXXX	49	XXXX	XXXXX
Potent Cap.:	XXXX	687	XXXXX	750	XXXX	XXXXX	XXXX	XXXX	XXXXX	1539	XXXX	XXXXXX
Move Cap.:	XXXX	686	XXXXX	744	XXXX	XXXXXX	200000	20000	XXXXXX	1539	XXXX	XXXXXX
	~											
Level Of Ser	vice I	Modul	e:									
Stopped Del:	XXXXX	10.3	XXXXXX	9.8	XXXX	XXXXX	XXXXX	XXXX	XXXXX	7.3	XXXX	KOCKOCK
LOS by Move:	*	. B	*	A	*	. *	•	*	*	A	*	*
Movement:	LT ·	- LTR	- RT	LT	LTR	- RT	LT ·	- LTR	- RT	LT ·	- LTR	- RT
Shared Cap.:	3000X	XXXX	XXXXX	XXXXX	XXXX	XXXXXX	XXXXX	20000	XXXXX	XXXX	XXXX	XXXXXX
Shrd StpDel:	XXXXXX	XXXX	XXXXXX	XXXXX	XXXX	XXXXX	XXXXXX	XXXX	2000000	XXXXX	XXXX	XXXXX
Shared LOS:	*	*	*	*	*	*	*	*	*	*	*	*
ApproachDel:		10.3		-	9.8		×	XXXXX		20	OCOCK	
ApproachLOS:		В			· A			*			*	
·												

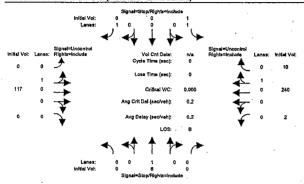
Intersection #1: Delaware/Shaffer [N/S:Shaffer E/W:Delaware]



Approach:	No:	rth B	bnuc						ound		est Bo	
Movement:	L	- Т	- R	L ·	- T	- R	ъ	- T	- R	L ·	- T	- R.
							1					
Volume Module	:									•		
Base Vol:	0	6	0	1	0	0	. 0	9	0	2	46	10
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	
Initial Bse:	0	6	0	1	0	0	0	. 9	0	2	46	10
Added Vol:	. 0	0	0	0	0	0	0	0	0	0	0	0
Campus Incr:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	6	0	1	0	0	0	9	0	2	46	10
User 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
PHF 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
PHF Volume:	0	6	0	1	0	0	0	9	0	2	46	10
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Final Vol.:	0	6	0	1	0	0	0	9	0	2	46	10
Critical Gap	Modu.	le:										
Critical Gp:x	XXXX	6.6	XXXXX	7.2	XXXX	XXXXX	XXXXX	XXXX	XXXXX	4.1	XXXX	XXXXXX
FollowUpTim:x	XXXX	4.1	XXXXX	3.6	XXXX	XXXXX	XXXXX	XXXX	XXXXX	2.2	XXXXX	200000
Capacity Modu	le:											
Cnflict Vol: :	xxxx	69	XXXXX	67	XXXX	xxxxx	XXXX	XXXX	XXXXX	9	XXXX	XXXXXX
Potent Cap .: :	xxxx	810	XXXXXX	911	XXXX	XXXXX	XXXX	XXXX	XXXXX	1591	XXXX	XXXXXX
Move Cap.: :	xxxx	809	XXXXX	905	XXXX	XXXXX	XXXXX	XXXX	XXXXXX	1591	XXXX	300000
							11					
Level Of Serv	ice 1	Modul	e:									
Stopped Del:x	XXXX	9.5	XXXXX	9.0	XXXX	XXXXX	XXXXXX	XXXXX	XXXXX	7.3	жxх	XXXXX
LOS by Move:	· *	A	*	A	*	*	. *	*	*	A	*	*
Movement:			- RT	LT ·	- LTR	- RT	LT ·	- LTR	- RT	LT ·	- LTR	- RT
Shared Cap.: :	xxxx	xxxx	XXXXXX	XXXXX	XXXX	xxxxx	XXXX	XXXX	XXXXX	XXXX	XXXX	XXXXXX
Shrd StpDel:x	xxxx	xxxx	2000000	xxxxx	XXXXX	XXXXXX	XXXXX	XXXX	XXXXX	XXXXXX	XXXX	XXXXXX
Shared LOS:	*			*	*	*	*	*	*	*		*
ApproachDel:		9.5			9.0		×	xxxxx		30	XXXXX	
		A			, A			*			*	

Level Of Service Computation Report
2000 HCM Unsignatized (Future Volume Alternative)
Ex + Ph 1 + Ph 2.AM

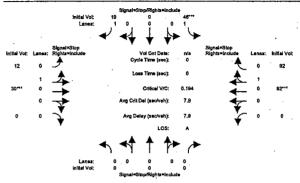
Intersection #1: Delaware/Shaffer [N/S:Shaffer E/W:Delaware]



Approach:	No:	rth B	ound	So	uth Bo	ound	E	ast B	ound	W	est B	ound
Movement:	L ·	- T	- R	L	- T	- R	L ·	- T	- R	L	- T	- R
				1								
Volume Module	:											
Base Vol:	0	6	0	1	0	0	0	9	. 0	2	46	10
Growth 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
Initial Bse:	0	6	, 0	1	0	0	0	9	0	2	46.	10
Added Vol:	0	. 0	0	0	0	0	0	108	0	0	194	oʻ
Campus Incr:	0	0	. 0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	6	0	1	0	0	0	117	0	2	240	10
User 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
PHF 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
PHF Volume:	0	6	0	1	0	0	0	117	. 0	2	240	10
Reduct Vol:	. 0	0	0	0	0	0	0	0	. 0	0	0	0
Final Vol.:	0	6	0	1	0	0	0	117	0	2	240	10
Critical Gap	Modu.	le:										
Critical Gp:>	XXXX	6.6	XXXXX	7.2	XXXX	XXXXX	XXXXX	XXXX	XXXXXX	4.1	XXXX	XXXXXX
FollowUpTim:>							XXXXX					XXXXX
Capacity Modu	ıle:									• •		·
Cnflict Vol:	XXXX	371	xxxxx	369	XXXX	xxxxx	XXXX	XXXX	XXXXX	117	XXXX	xxxxx
Potent Cap.:	XXXX	549	XXXXX	577	XXXX	XXXXXX	XXXX	XXXX	XXXXX	1453	xxxx	XXXXX
Move Cap.:	XXXX	549	XXXXX	571	XXXX	XXXXX	XXXX	XXXX	XXXXXX	1453	XXXX	XXXXX
				11								
Level Of Serv	rice N	Module	e:				• •					
Stopped Del:x	20000	11.6	2000000	11.3	XXXX	XXXXX	XXXXX	XXXX	XXXXXX	7.5	30000	XXXXX
LOS by Move:	*	В	14	В	*	*	*	*	*	A	*	*
Movement:	LT -	- LTR	- RT	LT ·	- LTR	- RT	LT	LTR	- RT	LT ·	LIR	- RT
Shared Cap.:	XXXX	XXXX	xxxxx	XXXXX	XXXX	xxxxx	XXXXX	XXXX	XXXXX	XXXX	XXXX	XXXXX
Shrd StpDel:x											xxxx	2000000
Shared LOS:	*	*	*	*	*	*	*	*	*	*	*	*
ApproachDel:		11.6			11.3		20	cxxxx		x	ooox	
ApproachLOS:		В			В			*			*	

Level Of Sarvice Compulsion Report
2009 HCM 4-Way Stor (Puter Volume Alternative)
Esting AM
Intersection #2: Delaware/Natural Bridges [N/S:Natural Bridges E/W:Delaware]

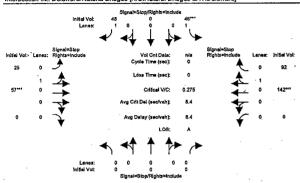
COMPARE



Approach:			ound						ound		est Bo	
Movement:			- R			- R			- R		- T	
Min. Green:			0			0						
				11			1			1		1
Volume Module				•			•			•		•
Base Vol:	0	. 0	0	46	0	19	12	30	0	0	82	92
Growth 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
Initial Bse:	0	. 0	0	46	0	19	12	30	0	0	82	92
Added Vol:			0	0	0	0	. 0	0	0	0	0	-0
Campus Incr:			0	0	0	. 0	0	0	0		0	0
Initial Fut:	0	0	0	46	0	19	12	30	0	0	82	92
User Adj:			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF 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
PHF Volume:	0	0	0	46	0	19	12	30	0	0	82	92
Reduct Vol:			0	0	0	0	0	Q	0	0	0	0
Reduced Vol:	D	0	0	46	0	19	12	30	0	0	82	92
PCB 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
MLF 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
Final Vol.:			0				.12				82	92
							1					
Saturation P												
Adjustment:											1.00	
Lanes:									0.00	0.00	0.47	
Final Sat.:			0						0		423	
Capacity Ana.												
	XXXX	SOCK	XXXX		XXXX	0.02	0.05		XXXX	XXXX		0.19
Crit Moves:				***				****			****	
Delay/Veh:					0.0			7.7	.0.0			
Delay Adj:							1.00	1.00	1.00	1.00	1.00	
AdjDel/Veh:						7.0	7.7		0.0	0.0		7.9
LOS by Move:				A		. А	A	A	*	*	•••	A
ApproachDel:					8.1			7.7			7.9	•
Delay Adj:	2	CXXXX			1.00			1.00			1.00	
ApprAdjDel:	30				8.1			7.7			7.9	
LOS by Appr:		*			A			A			A	

Level Of Service Computation Report 2000 HCM 4-Way Stop (Future Volume Alternative) Ex. + Ph 1 AM

Intersection #2: Delaware/Natural Bridges [N/S:Natural Bridges E/W:Delaware]

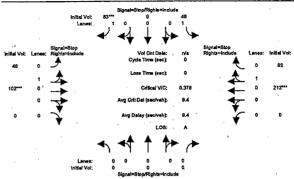


Approach:	No:	rth Bo	ound	Sot	ith Bo	und	Ea	ast Bo	ound	Wes	st Bo	und
Movement:		- T			- т	- R	L ·	- T	- R	L -	T	- R
											-	
Min. Green:		. 0	0	0		0.				0		0
]									
Volume Module	B:		•	•								
Base Vol:	0	0	0	46	0	19	12	30	0	0	82	92
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00 1		1.00
Initial Bse:	0	0	0	46	0	19	12	30	0	Ó	82	92
Added Vol:	0	0	0	0	0	29	1.3	27	0	0	60	0
Campus Incr:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	0	0	46	0	48	25	57	0	0	142	92
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00 1	L.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	L.00	1.00
PHF Volume:	0	0	0	46	0	48	25	57	. 0	0	142	92
Reduct Vol:	0	0	0	0	0	0	0	٥	0	0	٥	0
Reduced Vol:	0	0	0	46	0	48	25	57	0	0	142	. 92
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00 1	L.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00 1	L.00	1.00
Final Vol.:	. 0	0	0	46	0	48	25	57	0	0	142	92
							1					
Saturation F	low M	ođule	:	•								
Adjustment:	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
Lanes:	0.00	0.00	0.00	1.00	0.00	1.00	0.30	0.70	0.00	0.00	0.61	0.39
Final Sat.:	0	0	0	611	0		233	532	0		517	335
											· -	
Capacity Ana	lysis	Modu:	le:									
Vol/Sat:	XXXX	XXXX	XXXX		XXXX	0.06	0.11	0.11	XXXX			0.27
Crit Moves:				***				****		,	***	
Delay/Veh:	0.0	0.0	0.0	8.8	0.0	7.4	8.1	8.1	0.0	0.0	8.7	8.7
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00 1	L.00	1.00
AdjDel/Veh:	0.0	0.0	0.0	8.8	0.0	7.4	8.1	8.1	0.0	0.0	8.7	8.7
LOS by Move:	*	*	*	A	 *	A	A	A	*	*	A	A
ApproachDel:	, 30	xxxxx			8.71			8.1			8.7	
Delay Adj:	٠.	XXXXX			1.00			1.00		1	1.00	
ApprAdjDel:	×	XXXXX			8.1			8.1			8.7	
LOS by Appr:		*			A			A			A	

Level Of Bankes Computation Report

2000 HCk4 4-Way 9 this (Future Volume Alternative)
Ex + Ph 1 + Ph 2 AM

Intersection #2: Delaware/Natural Bridges [N/S:Natural Bridges E/W:Delaware]



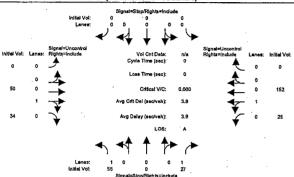
Approach:	· No:	rth Bo	ound	Sot	uth Bo	ound	Ea	st Bo	ound	West Bo	und
Movement:	L	- Т	- R							L - T	
Min. Green:		0	0	0	0	0	0	0	0	0 0	. 0
							1				
Volume Module	ė:						•				
Base Vol:		0	0	46	0	. 19	12	30	0	0 82	92
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			1.00
Initial Bse:	. 0			46		19				. 0 82	92
Added Vol:		0		0		64		72		0 130	0
Campus Incr:	0	0	0	0	0	0	0.			. 0 0	0
Initial Fut:										0. 313	
User Adj:										1.00 1.00	
PHF Adj:						1.00		1.00			
PHF Volume:					. 0	83					92
Reduct Vol:									0		0
Reduced Vol:	0	0	0	46	. 0	83	48	102		0 212	
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Final Vol.:	. 0	0	0	46	0	83	. 48	102	٥.	0 212	92
Saturation F	low M	odule	:								:
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00 1.00	1.00
Lanes:	0.00	0.00	0.00	1.00	0.00	1.00	0.32	0.68	0.00	0.00 0.70	0.30
Final Sat.:	. 0	0	٥.	. 572	0	705	, 234	498	٥.	0 561	244
									!		
Capacity Ana	lysis	Modu.	Le:								
Vol/Sat:		XXXX	XXXX	0.08	XXXX	0.12	0.20	0.20	XXXX	****	0.38
Crit Moves:											
Delay/Veh:								9.0			9.9
Delay Adj:						1.00		1.00			
AdjDel/Veh:						8.1					9.9 A
LOS by Move:			•	A			A		*	* A	A
ApproachDel:		00000			8.5						
Delay Adj										1.00	
ApprAdjDel:					8.5					9.9	
LOS by Appr:		*			A			A		A	

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Lavel Of Sarvice Computation Report 2000 HCM Unsignetized (Future Volume Allemative) Edating AM

Intersection #3: Delaware/Swanton [N/S: Swanton E/W: Delaware]

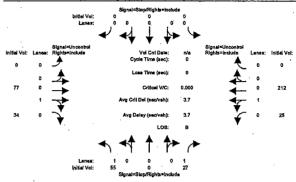


Approach:	No	rth B	ound	So	uth B	bauc	R	ast B	buun	· W	est B	ound	
Movement:		- T				- R			- R	L			
					_		11			1		1	1
Volume Module				11			11			1			
Base Vol:	55	0	27	0	0	٥	0	50	. 34	25	152	0	
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Initial Bse:	55	0	27	0	. 0	0	0	50	34	25	152	. 0	
Added Vol:	0	.0	0	0	0	0	0	0	٥	0	0	0	
Campus Incr:	0	0	0	0	Ó	ō	ō	ō	ŏ	. 0	ō	ō	
Initial Fut:	55	. 0	27	0	0	Ó	0	50	34	25	152	ō	
User 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	
PHF 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	
PHF Volume:	55	0	27	. 0	0	0	0	50	34	25	152	0	
Reduct Vol:	0	0	0	0	٥	0	0	. 0	- 0	0	0	o.	
Final Vol.:	55	o	27	ō	Ö	0	ō	50	34	25	152	ō	
Critical Gap	Modu.	le:					· .						
Critical Gp:	6.4	XXXX	6.2	300000	xxxx	2000000	XXXXX	xxxx	xxxxx	4.1	XXXX	XXXXX	
FollowUpTim:	3.5	XXXX	3.3	XXXXX	XXXX	XXXXXX	XXXXXX	xxxx	XXXXX	2.2	XXXX	XXXXXX	
				11					}			1	
Capacity Modu	ıle:			• •			٠,		,	•		•	
Cnflict Vol:	269	XXXX	67	XXXX	XXXX	XXXXX	XXXX	XXXX	XXXXXX	84	XXXX	XXXXX	
Potent Cap.:	720	XXXX	997	XXXXX	XXXX	xxxxx	XXXXX	XXXX	XXXXX	1494	XXXXX	XXXXX	
Move Cap.:	711	xxxx	997	XXXX	XXXX	XXXXX	XXXXX	XXXX	XXXXX	1494	XXXX	2000000	
												1	
Level Of Serv	rice M	4odul	e:							•			
Stopped Del:	10.5	XXXX	8.7	XXXXX	XXXX	xxxxx	XXXXX	XXXX	2000000	7.5	XXXX	XXXXXX	
LOS by Move:	В	*	A	*	*		*	*	*	A	*	. *	
Movement:	LT ·	- LTR	- RT	LT -	- LTR	- RT	LT ·	LTR	- RT	LT ·	LTR	- RT	
Shared Cap.:	xxxx	XXXX	XXXXXX	XXXX	xxxx	xxxxx	хххх	xxxx	XXXXX	жжж	xxxx	xxxxx	
Shrd StpDel:2	ccccc	XXXX	XXXXX	XXXXX	xxxx	XXXXX	xxxxxx	xxixx	XXXXX	7.5	xxxx	XXXXXX	
Shared LOS:	*	*	*	*			*	*	*	A	*		
ApproachDel:		9.9		30	xxxx		ж	œ		x	00000		
Approacht Os •		A			1+			*			*		

November 2003

Level Of Service Computation Report 2000 HCM Unsignalized (Future Volume Alternative) Ex + Ph 1 AM

Intersection #3: Delaware/Swanton [N/S: Swanton E/W: Delaware]



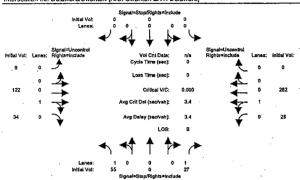
Approach:	No	rth B	ound	So	uth B	ound	E	ast B	ound	We	est B	ound
Movement:	L	~ T	- R	L ·	- Т	- R	L	- T	- R	L ·	- т	- R
				11]					
Volume Module	e:											
Base Vol:	55	0	27	. 0	Q	0	0	50	34	25	152	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	55	0	27	0	. 0	0	0	50	34	25	152	0
Added Vol:	0		0	0	0	0	0	27	0	0	60	0
Campus Incr:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	55	0	27	0	0	0	0	77	34	25	212	0
User 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
PHF 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
PHF Volume:	55	0	27	0	0	0	0	77	34	25	212	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Final Vol.:	55	0	27	0	0	٥	0	. 77	34	25	212	0
Critical Gap	Modu	le:										
Critical Gp:	6.4	XXXX	6.2	XXXXX	XXXX	XXXXX	XXXXXX	XXXX	XXXXX	4.1	xxxx	XXXXXX
FollowUpTim:	3.5	XXXX	3.3	XXXXX	XXXX	XXXXX	XXXXXX	XXXXX	XXXXX	2.2	XXXX	XXXXXX
Capacity Mod	ule:									•		
Cnflict Vol:	356	XXXX	9,4	XXXX	XXXX	XXXXXX	XXXXX	XXXXX	XXXXX	111	XXXX	XXXXXX
Potent Cap.:	642	XXXX	963	XXXXX	XXXX	XXXXXX	XXXXX	XXXX	XXXXXX	1460	XXXX	XXXXX
Move Cap.:	634	XXXXX	963	30000	XXXX	XXXXXX	200000	XXXXX	XXXXX	1460	20000	XXXXXX
				11								
Level Of Serv	vice 1	Module	e :							•		•
Stopped Del:	11.2	XXXX	8.8	XXXXX	XXXX	XXXXXX	XXXXXX	XXXX	XXXXXX	7.5	XXXX	XXXXX
LOS by Move:	В	*	A	*	*	· *	*	*	*	A	*	*
Movement:	LT ·	- LTR	- RT	LT ·	LTR	- RT	LT ·	- LTR	- RT	LT ·	LTR	- RT
Shared Cap.:	30000	xxxx	XXXXXX	200000	2000K	XXXXXX	XXXX	XXXX	xxxxx	XXXX	XXXX	XXXXXX
Shrd StpDel:	cccc	xxxx	XXXXX	XXXXX	хххх	XXXXXX	2000000	XXXX	XXXXXX	7.5	XXXX	XXXXXX
Shared LOS:	*	*	*	*	*	*	*	*	*	A	*	*
ApproachDel:		10.4		x	OXXXX		x	COCC		x	OCXXX	
ApproachLOS:		В			*			*			*	
~ ~												

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Level Of Service Computation Report 2000 HCM Unsignelized (Future Volume Alternative) Ex + Ph 1 + Ph 2 AM

Intersection #3: Delaware/Swanton [N/S: Swanton E/W: Delaware]

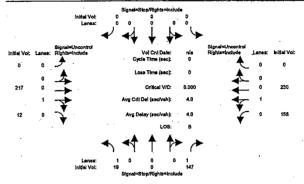


Approach:	No:	rth B	ound	Sou	ith Bo	ound	E	ast Bo	ound	We	st Bo	ound
Movement:	L	- Т	~ R	ь	- T	- R	ь.	- т	- R	L -	T	- · R
Volume Module	2:											
Base Vol:	55	0	27	0	0	0	0	50	34	25	152	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	55	0	27	0	0	0	0	50.	34	25	152	0
Added Vol:	0	0	0	0	0	0	0	72	0	0	130	0
Campus Incr:	0	0	. 0	0	0	0	0	0	0	0	0	0
Initial Fut:	55	0	27	0	0	0	0	122	34	25	282	0
User 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
PHF 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
PHF Volume:	55	0	27	0	0	0	0	122	34	25	282	0
Reduct Vol:	0	0	0	0	0	0	0	0	. 0	0	0	. 0
Final Vol.:	55	0	27	0	0	0	0	122	34	25	282	0
Critical Gap	Modu:	le:		•								
Critical Gp:	6.4	xxxx	6.2	XXXXX	XXXX	XXXXX	XXXXX	XXXX	XXXXX	4.1 :	XXXX	XXXXX
FollowUpTim:	3.5	XXXX	3.3	XXXXX	XXXX	XXXXX	XXXXX	xxxx	XXXXXX	2.2:	XXXX	XXXXX
					-					i		
Capacity Mode	ıle:			• •						•		
Cnflict Vol:		XXXX	139	XXXXX	жж	xxxxx	XXXXX	хххх	30000t	156	20000	COCCC
Potent Cap.:	551	XXXX	909	XXXX	20000	XXXXXX	XXXXX	XXXX	XXXXXX	1406	20000	XXXXX
Move Cap.:	544	xxxx	909	XXXX	XXX	xxxxx	xxxxx	xxxx	ÓCCCC	1406 :	CCC	XXXXXX
Level Of Serv	vice D	iodul	e:							•		·
Stopped Del:	12.4	XXXX	9.1	XXXXX	XXXXX	XXXXX	XXXXX	X200t	xxxxx	7.6	20000	XXXXX
LOS by Move:	В	*	A	*	*	*	*	*	*	A	*	*
Movement:	LT	- LTR	- RT	LT ·	- LTR	- RT	· LT ·	- LTR	- RT	LT 7	LTR	- RT
Shared Cap.:										XXXX :	XXXX	XXXXXX
Shrd StpDel:										7.6	CCC	200000
Shared LOS:	*	*	*	*	*	*	*	*	*	A	*	*
ApproachDel:		11.3		ж	cocc		ж	00000		200	xxxx	
ApproachLOS:		В			*			*			*	
		_						-				

maje occinca canta

Level Of Service Computation Report 2000 HCM Unsignalized (Future Volume Allemetive) Existing AM

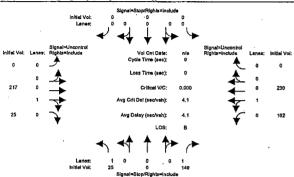
Intersection #4: Bay/Laguna [N/S:Laguna E/W: Bay]



Approach:	No	rth Bo	ound	Sot	ith Bo	ound	E	ast Bo	ound	We	est Bo	ound
Movement:	L.	- T	- R	L.	- T	- R	L	- Т	- R	L	- T	- R
				11	- -							
Volume Module	:											,
Base Vol:	19	0	147	0	0	. 0	0	217	12	158	230	0
Growth 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
Initial Bse:	19	0	147	0	. 0	. 0	0	217	12	158	230	0
Added Vol:	0	.0	0	0	Ò	0	0	0	o o	0	0	0
Campus Incr:		D	0	. 0	. 0	0	0	0	0	0	. 0	0
Initial Fut:	19	0	147	0	0	0	0	217	12	158	230	0
User 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
PHF 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
PHF Volume:	19	0	147	0	0	0	0	217	12	158	230	0
Reduct Vol:	0	0	0	0	. 0	0	0	, 0	0	0	0	0
Final Vol.:	19	0	147	. 0	. 0	0	0	217	12	158	230	0
Critical Gap	Modu.	le:										
Critical Gp:	6.4	XXXX	. 6.2	200000	xxxx	XXXXXX	XXXXXXX	XXXX	XXXXX	4.1	жжж	XXXXX
FollowUpTim:	3.5	XXXXX	3.3	XXXXXX	XXXX	XXXXX	XXXXXX	XXXXX	XXXXXX	2.2		XXXXX
											-	
Capacity Modu	le:											
Cnflict Vol:	769	XXXX	223	XXXX	XXXX	XXXXX	XXXXX	XXXX	XXXXXX	229	XXXX	2000000
Potent Cap.:	372	XXXX	822	XXXXX	XXXX	XXXXXX	X000X	XXXXX	XXXXXX	1351	XXXX	XXXXX
Move Cap.:	336	XXXX	822	20000	SCHOOL	XXXXX	XXXXX	XXXX	XXXXXX	1351	XXXX	30000C
Level Of Serv	rice I	Module	:									
Stopped Del:	16.4	XXXX	10.3	XXXXX	XXXX	200000	NOCOCK	20000	XXXXXX	8.0	XXXX	XXXXXX
LOS by Move:	C	*	B	÷	*	*	*	*	*	A	*	*
Movement:	LT ·	- LTR	- RT	LT ·	- LTR	- RT	LT ·	- LTR	- RT	LT ·	- LTR	- RT
Shared Cap.:	XXXXX	20000	XXXXX	XXXX	XXXX	XXXXX	XXXX	XXXX	XXXXX	XXXX	жж	XXXXXX
Shrd StpDel::	00000	XXXX	xxxxxx	XXXXX	XXXX	XXXXX	XXXXXX	XXXX	XXXXX	8.0	XXXX	XXXXXX
Shared LOS:		*	*		*	*	*	*	*	A	*	*
ApproachDel:		11.0		x	CXXXX		x	COCOC		30	00000	
ApproachLOS:		В			*			*			*	

November 2003 Level Of Service Computation Report 2000 HCM Unsignalized (Future Volume Alternative) Ex + Ph 1 AM

Intersection #4: Bay/Laguna [N/S:Laguna E/W: Bay]

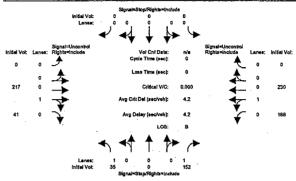


Approach:	North B	lound	Son	uth B	ound	E	ast B	ound	W	est Bo	ound
Movement: 3	- т	- R	L.	- т	- R	L.	- т	- R	L ·	- T	- R
			11			11			11		
Volume Module:			.,								•
Base Vol:	19 0	147	0	. 0	0	0	217	12	158	230	0
Growth Adj: 1.	00 1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	19 0	147	0	0	0	0	217	12	158	230	0
Added Vol:	6 0	2	0	. 0	0	0	0	13	4	0	0
Campus Incr:	0 0	. 0	0	0	0	0	0	0	- 0	0	0
Initial Fut:	25 0	149	0	0	0	0	217	25	162	230	0
User 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
PHF 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
PHF Volume:	25 0	149	0	0	0	0	217	25	162	230	0
Reduct Vol:	0 0	0	0	0	0	0	0	0	0	0	0
Final Vol.:	25 0	149	0	o`	0	0	217	25	162	230	0
Critical Gap Mo	dule:										
Critical Gp: 6	.4 10000	6.2	XXXXX	XXXX	жжж	XXXXX	XXXX	XXXXX	4.1	XXXX	XXXXX
FollowUpTim: 3	.5 xxxx	3.3	XXXXXX	xxxx	XXXXX	XXXXX	XXXX	XXXXX	2.2	XXXX	XXXXX
			11			11					
Capacity Module	÷ :		٠,			' '			'		•
Cnflict Vol: 7	84 XXXX	230	XXXX	XXXX	XXXXX	XXXX	XXXX	XXXXX	242	XXXX	XXXXXX
Potent Cap.: 3	65 XXXX	815	XXXX	XXXX	xxxxx	XXXX	xxxx	XXXXX	1336	XXXX	XXXXXX
Move Cap.: 3	28 XXXX	815	XXXX	XXXX	xxxxxx	XXXX	XXXX	жжж	1336	XXXX	XXXXX
									1		
Level Of Service	e Modul	e:							•		
Stopped Del: 16	.9 xxxx	10.4	XXXXX	XXXX	xxxxx	XXXXXX	XXXX	XXXXXX	8.1	XXXX	XXXXX
LOS by Move:	C *	В	*	*	*	•	*	*	A	*	*
Movement: 1	T - LTR	- RT	LT -	LTR	- RT	LT ·	- LTR	- RT	LT -	- LTR	- RT
Shared Cap.: xx	XX XXX	XXXXX	XXXX	XXXX	XXXXX	XXXX	xxxx	XXXXX	XXXX	жжж	XXXXX
Shrd StpDel:xxx	XX XXX	2000000	XXXXX	XXXX	XXXXX	XXXXXX	XXXX	XXXXX	8.1	xxxx	XXXXXX
Shared LOS:	* *	*	*	*	*	*	*	*	. A	*	*
ApproachDel:	11.3		x	OCCOCK		30	CCCCC		302	00000	
ApproachLOS:	В			l*			*			* .	
				1							

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November 2003 Level Of Service Computation Report 2000 HCM Unsignatized (Future Volume Alternative) Ex.+ Ph 1 + Ph 2 AM

Intersection #4: Bay/Laguna [N/S:Laguna E/W: Bay]



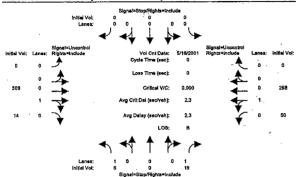
			-										
Approach:	No	rth B	ound	So	ith Bo	ound	E	ast B	bund	We	est B	ound	
Movement:	L.	- T	- R	L.	- T	- · R	L.	- T	- R	L.	- T	- R	
													ì
Volume Module	ė:												•
Base Vol:	19	0	147	0	0	0	0	217	12	158	230	0	
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Initial Bse:	19	0	147	0	0	0	0	217	12	158	230	. 0	
Added Vol:			5		0	0	0	0	29	8	0	0	
Campus Incr:	0	.0	0	0	0	0	0	0	0	0	0	. 0	
Initial Fut:			152		0	0	0	217	41	166	230	0	
User 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	
PHF 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	
PHF Volume:	35	0	152	0	0	0	0	217	41	166	230	0	
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0	
Final Vol.:	35	0	152	0	0	0	0	217	41	166	230	' 0	
Critical Gap	Modu:	le:											
Critical Gp:	6.4	XXXX	6.2	XXXXXX	XXXX	XXXXXX	XXXXX	XXXX	XXXXXX	4.1	XXXX	XXXXXX	
FollowUpTim:	3.5	XXXX	3.3	XXXXX	XXXX	XXXXXX	XXXXX	XXXX	XXXXX	2.2	XXXX	XXXXX	
]									ı
Capacity Mode	ile:	,											•
Cnflict Vol:	800	XXXX	238	XXXX	XXXX	2000000	XXXX	XXXX	XXXXX	258	XXXX	XXXXX	
Potent Cap.:	357	XXXX	806	XXXXX	XXXX	XXXXX	XXXX	XXXX	XXXXX	1318	XXXX	2000000	
Move Cap.:	319	XXXXX	806	XXXXX	XXXXX	XXXXXX	XXXX	XXXX	XXXXXX	1318	XXXX	XXXXX	
													ı
Level Of Serv	vice 1	Modul	e:										
Stopped Del:									XXXXX	8.1	XXXX	XXXXX	
LOS by Move:	С	*	В	*	*	*		*	*	A	*	*	
Movement:	LT ·	- LTR	- RT	LT ·	LTR	- RT	LT ·	- LTR	- RT	LT ·	- LTR	- RT	
Shared Cap.:	XXXX	XXXX	XXXXXX	XXXX	XXXXX	XXXXX	XXXXX	XXXX	XXXXXX	XXXX	XXXX	XXXXX	
Shrd StpDel:										8.1		200000	
Shared LOS:		*		*	*	*	*	*	*	A	*	* *	
ApproachDel:		11.8		30	COCCC		303	XXXXX		30	CEXXX		
ApproachLOS:		B			*			*			*		

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Level Of Service Computation Report 2000 HCM Unsignatized (Future Volume Alternative) Exteting AM

Intersection #5: SR 1/Shaffer [N/S: Shaffer E/w: SR 1]



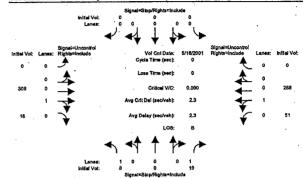
Approach:	No	rth B	ound	Sot	ith Bo	ound	E	ast Bo	ound	We	est Bo	ound
Movement:	L ·	- т	- R	L	T	- R	ь.	T	- R	L ·	- T	- R
Volume Module	: >>	Count	t Date:	16 Ma	ay 200	01 <<						
Base Vol:	6	0	19	0	0	0	. 0	309	14	50	268	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	6	. 0	19	0	0	0	0	309	14	50	268	0
Added Vol:	0	0	0	0	0	0	0	Ò	0	0	. 0	0
Campus Incr:	. 0	0	0	0	0	. 0	0	. 0	0	0	0	0
Initial Fut:	6	0	19	Q	0	.0	0	309	14	50	268	0
User 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
PHF 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
PHF Volume:	6	0	19	0	0	0	0	309	, 14	50	268	0
Reduct Vol:	. 0	0	0	0	0	0	0	0	0	0	0	0
Final Vol.:	6	. 0	19	0	0	0	0	309	14	50	268	0
Critical Gap	Modu:	le:										
Critical Gp:	6.4	xxxx	6.2	xxxxx	XXXX	XXXXX	XXXXX	XXXX	XXXXX	4.1	XXXX	XXXXX
FollowUpTim:	3.5	XXXX	3.3	XXXXX	xxxx	XXXXX	XXXXX	xxxx	XXXXX	2.2	XXXXX	XXXXX
					· ·					1		
Capacity Modu	le:											
Cnflict Vol:	684	XXXX	316	XXXX	XXXX	XXXXXX	200000	XXXX	XXXXX	323	XXXXX	XXXXX
Potent Cap.:	417	XXXX	729	XXXX	XXXX	XXXXX	XXXX	XXXX	2000000	1248	XXXX	XXXXX
Move Cap :	404	XXXX	729	XXXXX	XXXX	SCOCKX	XXXX	XXXX	XXXXX	1248	XXXX	XXXXX
Level Of Serv												
Stopped Del:	14.0	XXXX	10.1	XXXXX	XXXX		XXXXXX			8.0	3000	XXXXXX
LOS by Move:	В	* .	В	*		*	*	*	*	A	*	*
Movement:	LT ·	- LTR	- RT	LT ·	- LTR	- RT	LT ·	- LTR	- RT	LT	- LTR	- RT
Shared Cap.:	xxxx	XXXX	XXXXX	XXXX	XXXX	XXXXX	XXXX	XXXX	XXXXX			XXXXXX
Shrd StpDel:2	OCCOCK	XXXX	XXXXX	XXXXXX	XXXX	XXXXX	XXXXXX	XXXXX	JOOUGK	8.0	XXXX	XXXXX
Shared LOS:	*	*		. •	*	*	. *	*	. *	A	*	*
ApproachDel:		11.0		303	COCOCK		30	OCXXX	,	30	XXXXXX	
ApproachLOS:		B]*	•		*			*	

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Level Of Service Computation Report 2000 HCM Unsignalized (Future Volume Atlemative) Ex + Ph 1 AM

Intersection #5: SR 1/Shaffer [N/S: Shaffer E/w: SR 1]

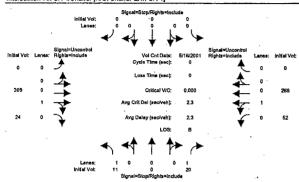


Approach:	No	rth Bo	ound	Son	ith Bo	ound	E	ast Bo	bund	We	st Bo	ound
Movement:	L.	- T	- Ř	ь	- T	- R	L.	- T	- R	L.	-, T	- R
				11								
Volume Module												
Base Vol:	6	0	19	0	0	0	0	309	.14	- 50	268	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	6	. 0	19	0	0	0	0	309	14	50	268	0
Added Vol:	2	0	0		. 0	0	0	0	4	1	0	0
Campus Incr:	0	Ō	0	Ġ		0	0	0	0	0	0	0
Initial Fut:									. 18	51	268	0
User 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
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00
PHF Volume:	8	0	19	0	0	0		309		51		0
Reduct Vol:			0	0	0	0		. 0	0			
Final Vol.:	8	0	19	0	0	. 0	0	309	18	51	268	.0
Critical Gap	Modu.	le:										
Critical Gp:	6.4	XXXXX	6.2	2000000	XXXXX	XXXXX	XXXXXX	300000	XXXXXX	4.1	XXXX	XXXXX
FollowUpTim:									XXXXX			XXXXX
									J			
Capacity Modi	ıle:											
Cnflict Vol:	688	XXXXX	318									
Potent Cap.:									XXXXXX			XXXXX
Move Cap.:									XXXXX			XXXXXX
Level Of Ser												
Stopped Del:				XXXXX	XXXX	X0000X	XXXXX	XXXX				XXXXXX
LOS by Move:			_						* *		*	
Movement:									- RT		- LTR	
Shared Cap.:												XXXXX
Shrd StpDel:	20000											XXXXXX
Shared LOS:	*		*		-	. *				A		*
ApproachDel:	÷	11.3		X			×	KOCOCK		x	COCC	
ApproachLOS:		В			*			*			*	

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November 2003 Level Of Service Computation Report 2000 HCM Unsignalized (Future Volume Atternative) Ex + Ph 1 + Ph 2 AM

Intersection #5; SR 1/Shaffer [N/S: Shaffer E/w: SR 1]



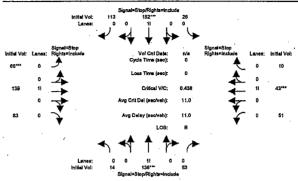
Approach:	No	rth Bo	ound	So	uth B	ound	E	ast B	bund	W	est B	ound
Movement:	L	- T	- R	ь	- T	- R		- T			- T	
							[
.Volume Module	e: >>			: 16 M	ay 20	01 <<						
Base Vol:	6	_	19	0	0	0	0		14	50	268	. 0
Growth Adj:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	6	0	19	0	. 0	0	0	309	14	50	268	0
Added Vol:	5	0	1	0	0	0	0	0	10	2	0	0
Campus Incr:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	11	0	20	0	0	0	0	309	24	52	26B	0
User 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
PHF 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
PHF Volume:	11	0	20	0	0	0	0	309	24	52	268	. 0
Reduct Vol:	0	0	o.	0	0	0	0	0	0	0	0	0
Final Vol.:	11	0	20	0	0	0	0	309	24	52	268	0
Critical Gap	Modu:	le:										
Critical Gp:	6.4	XXXX	6.2	XXXXX	xxxx	xxxxx	xxxxx	XXXXX	XXXXX	4.1	XXXX	XXXXX
FollowUpTim:	3.5	XXXX	3.3	XXXXX	XXXX	XXXXX	xxxxx	XXXXX	XXXXXX	2.2	XXXX	XXXXXX
						- -						1
Capacity Mode	ıle:											
Cnflict Vol:	693	XXXX	321	XXXX	xxxx	xxxxx	XXXX	xxxx	XXXXX	333	XXXX	XXXXX
Potent Cap.:	412	XXXX	724	XXXX	XXXX	XXXXX	XXXX	XXXXX	XXXXX	1238	жжж	XXXXXX
Move Cap.:	399	XXXX	724	XXXX	XXXX	XXXXX	XXXX	XXXX	XXXXX	1238	XXXX	XXXXXX
Level Of Serv	rice 1	iodule	:									
Stopped Del:	14.3	XXXX	10.1	XXXXX	XXXX	XXXXXX	XXXXXX	XXXX	XXXXXX	8.0	XXXX	XXXXX
LOS by Move:	В	*	В	*	*	*	*	*	*	A	*	*
Movement:	LT ·	LTR	- RT	LT -	- LTR	- RT	LT -	- LTR	- RT	LT ·	LTR	- RT
Shared Cap.:	XXXX	XXXX	XXXXXX	XXXX	XXXX	XXXXXX	XXXX	XXXX	XXXXX	XXXX	XXXX	XXXXX
Shrd StpDel:x	CXXXX	XXXX	XXXXX	XXXXX	XXXX	XXXXX	XXXXX	хххх	XXXXX	8.0	XXXX	XXXXXX
Shared LOS:	*	*	*	*	*	*	*	*	*	A	*	*
ApproachDel:		11.6		303	CCCCC		X	хххх		303	CCCCC	
ApproachLOS:		В			*			*			*	

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November 2003

Level Of Service Computation Report 2000 HCM 4-Way Stop (Future Votume Atternative) Existing AM

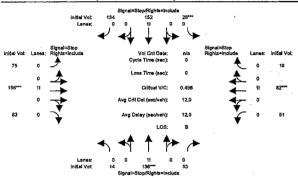
Intersection #6: Delaware/Swift [N/S; Swift E/W: Delaware]



Approach:										
Movement:										
				1						
Min. Green:	0	0	0	0	0	. 0	0	0 0	0 0	0
	-									
Volume Module										
Base Vol:									51 43	
Growth Adj:							1.00 1.0			1.00
Initial Bse:					152				51 43	
Added Vol:										
Campus Incr:								0 0	0 0	0
Initial Fut:							66 13	9 83	51 43	10
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00 1.0	0 1.00	1.00 1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00 1.0	0 1.00	1.00 1.00	1.00
PHF Volume:	14	136	53	26	152	113	66 13	9 83	51 43	10
Reduct Vol:	0	0	0	0	0	0	0	0 0	0 0	0
Reduced Vol:	14	136	53	26	152	113	66 13	9 83	51 43	10
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00 1.0	0 1.00	1.00 1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00 1.0	0 1.00	1.00 1.00	1.00
Final Vol.:										
							ļ			
Saturation Fl										
Adjustment:										
Lanes:										
Final Sat.:	45	433	169	61	356	264	151 31	.7 189	284 240	56
								~ 		
Capacity Anal										
Vol/Sat:				0.43	0.43	0.43				0.18
Crit Moves:							****		****	
Delay/Veh:								7 11.7	9.7 9.7	9.7
Delay Adj:									1.00 1.00	1.00
AdjDel/Veh:	10.3	10.3	10.3	11.3	11.3	11.3	11.7 11.	7 11.7	9.7 9.7	9.7
LOS by Move:	Ė	В	В	В	В.	В	B B	1B	A A	A
ApproachDel:		10.3			11.3		11.		9.7	
Delay Adj:		1.00			1.00		1.0	0	1.00	
Delay Adj: ApprAdjDel:		10.3			11.3		11.	7	9.7	
LOS by Appr:							P		A	

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Intersection #6: Delaware/Swift [N/S: Swift E/W: Delaware]

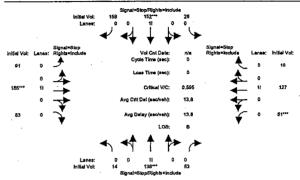


Approach:	No:	rth Bo	ound	Sot	ith Bo	ound	Ea	ast Bo	ound	We	est Bo	und
Movement:			- R	È.	- T	- R	L :	T	- R	L.	- T	- R
					 -			- -		1		
Min. Green:		0				o ·	. 0		o ·	. 0		0
										1		
Volume Modul									•			
Base Vol:	14	136	53	26	152	113	66	139	83	51	43	10
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	14	136	53	26	152	113	66	1,39	83	51	43	10
Added Vol:	0	0	0	0	0	21	9	17	0	0	39	0
Campus Incr:	0	. 0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	14	136	53	26	152	134	75	156	83	51	82	10
User 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
PHF 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
PHF Volume:	14	136	53	26	152	134	75	156	83	51	82	10
Reduct Vol:	0	0	0	0	. 0	0	0	0	0	0	0	0
Reduced Vol:			53	26	152	134	75	156	83	51	82	10
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00
MLF Adj:		1.00	1.00		1.00	1.00		1.00	1.00	1.00		1.00
Final Vol.:		136	53	26		134	75		83	51	82	10
							1			ļ		
Saturation F												
Adjustment:		1.00			1.00				. 1.00		1.00	1.00
Lanes:		0.67				0.43		0.50			0.57	0.07
Final Sat.:		407	158		318	280	. 151		168		323	39
									}			
Capacity Ana												
Vol/Sat:	0.33	0.33	0.33		0.48	0.48	0.50	0.50		0.25	0.25	0.25
Crit Moves:		****		****				****			***	
Delay/Veh:		10.9	10.9		12.4	12.4		12.9	12.9	10.5		10.5
Delay Adj:		1.00	1.00		1.00	1.00		1.00	1.00	1.00		1.00
AdjDel/Veh:			10.9		12.4	12.4		12.9	12.9	10.5		10.5
LOS by Move:		В	В	В	В	В	В	В	В	В	В	В
ApproachDel:		10.9			12.4			12.9			10.5	
Delay Adj:		1.00			1.00			1.00			1.00	
ApprAdjDel:		10.9			12.4			12.9			10.5	
LOS by Appr:		В			В			В			В	

Wed Nov 26 10:35:56 2003

Level Of Service Computation Report
2000 HCM 4-Way Slop (Future Volume Alternative)
Ex + Ph 1 + Ph 2 AM

Intersection #6: Delaware/Swift [N/S: Swift E/W: Delaware]

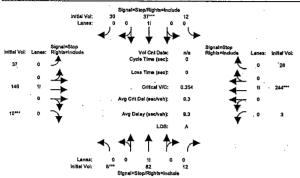


Approach:											
Movement:	L ·	~ T	- R	r.	- T	- R	I.	- т	- R	L - T	R
							1			1	
Min. Green:	0	0	0	0	0	0	0	0	0	0 (0.
											[
Volume Module											
Base Vol:							66				
Growth Adj:								1.00			
Initial Bse:				26		113			83		
Added Vol:	0	0	. 0	0	0	46	25	47	0	Ó 84	
Campus Incr:											
Initial Fut:						159				51 12	
User Adj:								1.00			
PHF Adj:				1.00		1.00		1.00			
PHF Volume:				26		159		186		51 121	
Reduct Vol:											
Reduced Vol:											
PCE Adj:											
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Final Vol.:	14	136	53	. 26	152	159	. 91	186	83	. 51 121	7 10.
							1				
Saturation F											
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00 1.00	
Lanes:	0.07	0.67	0.26	0.08	0.45	0.47	0.25	0.52	0.23	0.27 0.68	
Final Sat.:	. 38	371	145	. 47	276	289	153	313	140	146 363	
	<u>-</u>						1				
Capacity Ana										•	
Vol/Sat:				0.55			0.59	0.59	0.59	0.35 0.3	0.35
Crit Moves:		****			****			****		****	
Delay/Veb:	11.8	11.8	11.8	14.3	14.3	14.3	15.6	15.6			
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
AdjDel/Veh:	11.8	11.8	11.8	14.3	14.3	14.3	15.6	15.6			
LOS by Move: ApproachDel:	В	В	В	В	В	В	С	C	С	в в	
ApproachDel:		11.8			14.3	-		15.6		11.0	-
Delay Adj:		1.00			1.00			1.00		1.0	
ApprAdjDel:		11.8			14.3			15.6		11.	3
ApprAdjDel: LOS by Appr:		В			В			C		В	

November 2003

Level Of Service Computation Report 2000 HCM 4-Way Stop (Future Voturna Alternative) Existing AM

Intersection #7: Delaware/Almar [N/S: Almar E/W: Delaware]

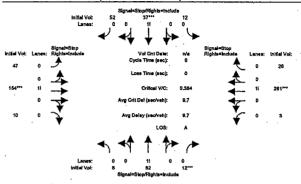


Approach:												
Movement:	L	- T	- R	. L	- T	- R	L ·	- T	- R	L -	т	- R
Min. Green:	1											
Min. Green:	, 0	0	0		0	0	. 0	0	0	. 0	0	0
				[
Volume Modul												
Base Vol:		82		12	37							
Growth Adj:					1.00	1.00		1.00				
Initial Bse:				12	37	30	37			3		26
Added Vol:		0	0	0			٥			0		
Campus Incr:				. 0		0	-		0			
Initial Fut:			12						10		244	
User Adj:				1.00				1.00		1.00	1.00	1.00
PHF Adj:				1.00		1.00		1.00	1.00	1.00		1.00
PHF Volume:		82		12	37	30	37	146	10	3	244	26
Reduct Vol:				0	0	0	0	0	0	0	0	0
Reduced Vol:				12		30		146	10	3	244	26
PCE Adj:									1.00		1.00	1.00
MLF Adj:						1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.:				12					10			
	J						1			1		
Saturation F	low M	odule	:									
Adjustment:												
Lanes:	0.08	0.80	0.12	0.15	0.47	0.38	0.19	0.76	0.05	0.01	0.89	0.10
Final Sat.:	52	535	78	102	316	256	143	563	39	8	690	74
	-,											
Capacity Ana:									-			•
Vol/Sat:			0.15	0.12	0.12	0.12	0.26	0.26	0.26	0.35	0.35	0.35
Crit Moves:					****				****		****	
Delay/Veh:				8.5	8.5	8.5	9.2	9.2	9.2	9.8	9.8	9.8
Delay 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
AdjDel/Veh:	8.8	8.8	8.8	B.5	8.5	8.5	9.2	9.2	9.2	9.8	9.8	9.8
LOS by Move:				A		A				A	A	A
ApproachDel:		8.8			d.5			9.2			9.8	
ApproachDel: Delay Adj:		1.00			1.00			1.00			1.00	
ApprAdjDel:		8.8			8.5			9.2			9.8	
LOS by Appr:		A			A			A			A	

Marine Science Center

Level Of Service Computation Report
2000 HCM 4-Way Stop (Future Volume Alternative)
Ex + Ph 1 AM

Intersection #7: Delaware/Almar [N/S: Almar E/W: Delaware]

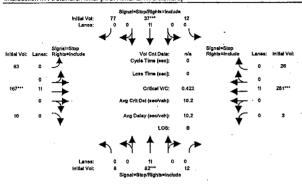


Approach:												
Movement:	, L	- Т	- R	L ·	- Т	- R	L	~ T	- R	L-	T	- R .
Min. Green:	1					! 0	1					
min. Green:												
Volume Modul	e:			11		,	1			1		
Base Vol:	8	82	12	12	37	30	37	146	10	3	244	26
Growth Adj:	1.00	1.00	1.00	1.00	1:00	1.00	1.00	1.00				
Initial Bse:	8	82	12	12	37	30	37	146	10	3	244	26
Added Vol:	0	0	0	0	0	. 22	10	8	0	0	17	0
Campus Incr:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	8	82	12	12	37	52	47	154	10	3	261	26
User 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
PHF 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
PHF Volume:	8	82	12	12	. 37	52	47	154	10	3	261	26
Reduct Vol:	0	0	0	0	0	0	0	0	Ö	0	0	0
Reduced Vol:	8	82	12	12	37	52	47	154	10	3	261	26
PCE 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
MLF Adj:						1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.:						52						
									1	i		
Saturation F												
Adjustment:												
Lanes:												
Final Sat.:												
Capacity Ana						1	1			1		
Vol/Sat:				0.15		0 15						0.38
Crit Moves:				0.15	****	0.15	0.29	****	0.29		****	0.38
Delay/Veh:				0 7		9 7	06		9.6			10.3
Delay Adi:						1.00						1.00
AdiDel/Veh:						8.7		9.6	9.6			10.3
LOS by Move:												10.3
ApproachDel:				^		^	-	9.6	^		10.3	
Delay Adj:											1.00	
ApprAdjDel:											10.3	
LOS by Appr:					A			A			В.	
/ Mppr.					••						2	

Marine Science Cent

Level Of Service Computation Report 00 HCM 4-Way Stop (Future Volume Alternative

Intersection #7: Delaware/Almar [N/S: Almar E/W: Delaware]



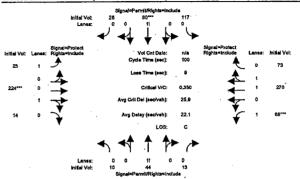
Approach:	No:	rth Bo	und	Sot	ith Bo	ound	E	ast Bo	und	We	st Bo	und
Movement:	L ·	- T	- R	ъ.	- T	- R	L ·	- T	- R	L -	T	- R
Min. Green:	0		0	0		0		0	0	0	0	0
				1		·[
Volume Modul	e:											
Base Vol:	8	82	12	12	37	30	37	146	10	3	244	26
Growth Adj:		1.00	1.00		1.00	1.00		1.00	1.00	1.00		1.00
Initial Bse:	8	82	12	12	37	30	. 37	146	10	3	244	26
Added Vol:	0	0	0	0	0	47	26	21	0	0	37	0
Campus Incr:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	8	82	12	12	37	77	63	167	10	3	281	26
User Adj:		1.00	1.00		1.00	1.00		1.00	1.00	1.00		1.00
PHF Adj:		1.00	1.00		1.00	1.00		1.00	1.00	1.00		1.00
PHF Volume:	8	82	12	12	37	77	63	167	10	3	281	26
Reduct Vol:	0	0	. 0	0	0	0	0	. 0	0	0	0	0
Reduced Vol:	8	82	12	12	37	77	63	167	10	3	281	26
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00
MLF Adj:		1.00	1.00		1.00	1.00		1.00	1.00	1.00		1.00
Final Vol.:	8	82	12	12	37	77	63	167	10	3	281	26
						۱						
Saturation F	low M	odule:										
Adjustment:		1.00	1.00		1.00	1.00		1.00		1.00		1.00
Lanes:		0.80	0.12		0.29	0.61		0.70		0.01		0.08
Final Sat.:	48	496	73	63	193	401	186	492	29	7		62
												1
Capacity Ana												
Vol/Sat:	0.17	0.17	0.17	0.19		0.19	0.34		0.34	0.42		0.42
Crit Moves:		****			****			***			****	
Delay/Veh:	9.2		9.2	9.0	9.0	9.0		10.2	10.2	10.9		10.9
Delay Adj:		1.00	1.00		1.00	1.00		1.00	1.00	1.00		1.00
AdjDel/Veh:	9.2		9.2	9.0	9.0	9.0		10.2	10.2	10.9		10.9
LOS by Move:	A	А	A	A	A	A	В	В	В	В	В	В
ApproachDel:		9.2			9.0			10.2			10.9	
Delay Adj:		1.00			1.00			1.00			1.00	
ApprAdjDel:		9.2			9.0			10.2			10.9	
LOS by Appr:		A			A			В			В	

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Level Of Service Computation Report

Intersection #8: SR 1/Western [N/S: Western E/w: SR 1]

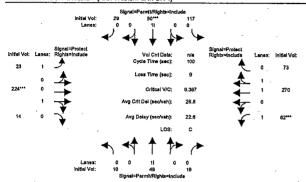


Approach:	No	rth Bo	und	Sou	ith Bo	und .	E	ast Bo	ound	₩e	est Bo	ound
Movement:	L, ·	· T	- R	L -	- T	- R	L ·	- T	- R	L -	- т	- R
							1				·	
Min. Green:		0		. 0	0	0	. 0		0	0		0
					- 			- <i></i>		[
Volume Module			•	•			•			-		
Base Vol:	10	44	13	117	80	28	23	224	14	68	270	73
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	10	44	13	117	80	28	23	224	14	68	270	73
Added Vol:	0	0	0	0	0	/ 0	. 0	0	. 0	0	0	0
Campus Incr:	٥	0	0	0	0	0	. 0		0	0	0	0
Initial Fut:	10	44	13	117	80	28	23	224	14	68		73
User Adj:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00
PHF Volume:	10	44	13	117	80	28	23	224	14	68	270	73
Reduct Vol:	0	0	0	. 0	0	0	0	0	0	0	0	0
Reduced Vol:	10	44	13	117	80	28	23	224	14	68	270	73
PCE Adj:	1.00	1.00	1.00	1.00	1.00	. 1.00		1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00
Final Vol.:		44	1.3	117	80	28	23	224	14	68		73
			1	{							. ~ :	
Saturation F	Low Mo	dule:		•								
Sat/Lane:	1900	1900		1900		1900	1900	1900	1900	1900		1900
Adjustment:	0.92	0.92	0.92	0.78	0.78	0.78		0.97			0.90	
Lanes:	0.15	0.66	0.19	0.52	0.36	0.12	1.00	0.94	0.06	1.00	1.57	0.43
Final Sat.:		1142	337		528	185		1737	109	1769		729
						·						
Capacity Ana												
Vol/Sat:	0.04	0.04	0.04	0.15	0.15	0.15	0.01	0.13	0.13		0.10	0.10
Crit Moves:					****			****		****		
Green/Cycle:						0.43		0.37	0.37	0.11		0.42
Volume/Cap:		0.09		0.35		0.35		0.35			0.24	
Delay/Veh:		16.8		19.3		19.3		23.2	23.2		18.6	18.6
User DelAdj:				1.00		1.00		1.00			1.00	
AdjDel/Veh:		16.8		19.3		19.3		23.2	23.2		18.6	18.6
DesignQueue:	0	. 1	0	·, 4	3	1	1	8	1	3	9	2

November 200

Level Of Service Computation Report
2000 HCM Operations (Future Volume Atternative)
Ex + Ph 1 AM

Intersection #8; SR 1/Western [N/S: Western E/w: SR 1]

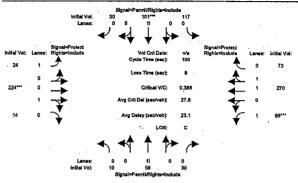


Approach:	No	rth B	ound		uth B		E	ast Bo	ound	W	est Bo	ound
Movement:	L	- T	- R			- R	L		- R	L	- т	- R
	•					-	1					
Min. Green:	0				0			0	0		0	
	[- -											!
Volume Module												
Base Vol:	10	44	13	117	80	28	23		14	68	270	73
Growth Adj:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	10	44	13	117	80	28	23	224	14	68	270	73
Added Vol:	0		6	0	10	1	0	0	. 0	14	. 0	0
Campus Incr:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	10	48	19	117	90	29	23	224	14	82	270	73
User Adj:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	10	48	19	117	90	29	23	224	14	82	270	73.
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	10	48	. 19	117	90	29	23	224	14	82	270	73
PCE 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
MLF Adj:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.:	10	48	19	117	90	29	23	224	14	82	. 270	73
							1					
Saturation Fl	low M	odule:	:						•	•		•
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.91	0.91	0.91	0.79	0.79	0.79	0.93	0.97	0.97	0.93	0.90	0.90
Lanes:		0.62	0.25	0.50	0.38	0.12	1.00	0.94	0.06	1.00	1.57	0.43
Final Sat.:			428		569	183		1737	109	1769	2696	729
Capacity Anal												•
	0.04	0.04	0.04	0.16	0.16	0.16	0.01	0.13	0.13	0.05	0.10	0.10
Crit Moves:					****			****		****		
Green/Cycle:			0.43	0.43	0.43	0.43	0.05	0.35	0.35	0.13	0.42	0.42
Volume/Cap:			0.10	0.37	0.37	0.37	0.24	0.37	0.37	0.37	0.24	0.24
Delay/Veh:			17.0	19.5		19.5	46.5	24.5	24.5	41.0	18.6	18.6
User DelAdj:			1.00	1.00		1.00		1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:			17.0	19.5		19.5		24.5	24.5	41.0	18.6	18.6
DesignQueue:	0	2	1	4	3	1	1	8	1	4	9	2

November 2003

Lavel Of Service Computation Report
2000 HCM Operations (Future Volume Atternative)
Ex + Ph 1 + Ph 2 AM

Intersection #8: SR 1/Western [N/S: Western E/w: SR 1]

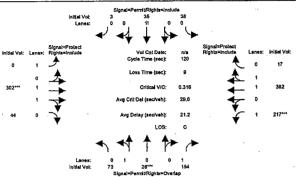


Approach:	No	rth B	ound	So	uth B	ound	E	ast B	ound	W	est B	ound
Movement:			- R			- R			- R	L	_	- R
Min. Green:	. 0	0	0	0	. 0	0	. 0	0	0	. 0	0	0
Volume Modul			,	1			1			1		1
Base Vol:	10	44	13	117	80	28	23	224	14	68	270	73
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	10	44	13	117	80	28	23	224	14	68	270	73
Added Vol:	0	12	17	0	. 21	2	1	0	0	31	0	0
Campus Incr:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	10	56	30	117	101	30	24	224	14	99	270	73
User 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
PHF 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
PHF Volume:	10	56	30	117	101	30	24	224	14	99	270	73
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	Ó	ō
Reduced Vol:	1.0	56	30	117	101	30	24	224	14	. 99	270	73
PCE 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
MLF 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
Final Vol.:			30			30		224	14	99	270	73
								· ·				
Saturation F:												-
Sat/Lane:			1900		1900	1900		1900		1900	1900	1900
Adjustment:			0.91	0.78		0.78		0.97			0.90	0.90
Lanes:		0.59				0.12		0.94			1.57	
Final Sat.:			540		607			1737			2696	
				J								
Capacity Ana:												
	0.06	0.06	0.06	0.17	0.17	0.17	0.01	0.13	0.13		0.10	0.10
Crit Moves:					****			****		****		
Green/Cycle:				0.43		0.43		0.33			0.42	
Volume/Cap:				0.39		0.39		0.39			0.24	
Delay/Veb:				19.8		19.8		25.9			18.6	
User DelAdj:				1.00		1.00		1.00			1.00	
AdjDel/Veh:						19.8		25.9	25.9		18.6	
DesignQueue:	0	2	1.	4	. 3	. 1	1	9	1	5	9	2

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November 2003 November 2003
Level Of Service Computation Report
2000 HCM Operations (Future Volume Atternative)
Existing AM

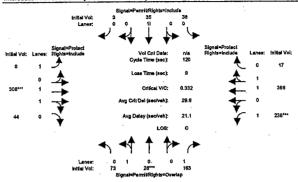
Intersection #9: SR 1/Swift [N/S: Swift E/w: SR 1]



Approach:	No	rth Bo	und	Sou	ath Bo	und	Ea	ast Bo	ound	We	est Bo	und
Movement:	L ·	- T	~ R	L.	- T	- R	L ·	- Т	- R	L -	· T	- R
	1]			1			}		
Min. Green:	. 0	0	0	· o	0	o o	٠ ٥	_	0`	. 0	0	0
				1								
Volume Modul												
Base Vol:	73	26	154	38	/ 35	3	0	302	44	217	382	17
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00		1.00
Initial Bse:	73	26	154	38	35	3	.0	302	44	217	382	17
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Campus Incr:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	73	26	154	38	35	3	.0	302	44	217	382	17
User 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
PHF 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
PHF Volume:	73	26	154	38	35	3	. 0	302	44	217	382	17
Reduct Vol:	0	0	0	0	0	0.	0	0	0	0	0	0
Reduced Vol:	73	26	154	38	35	3	0	302	44	217	382	17
PCE Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adi:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.:	73	26	154	38	35	3	0	302	44	217	382	17
			1	1			1					!
Saturation F	low M	odule:	. '				1			•		
Sat/Lane:		1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adiustment:		0.74	0.83	0.82	0.82	0.82	1.00	0.91	0.91	0.93	0.93	0.93
Lanes:	-0.74		1.00		0.46	0.04	1.00	1.75	0.25	1.00	1.91	0.09
Final Sat.:	1038	370	1583	775	714	61		3029	441	1769		150
	1		1	1		1	1	<u></u>		1		
Capacity Ana	lvata	Modu'	ا بما	1		•	•	•	,			
Vol/Sat:		0.07	0.10	0.05	0.05	0.05	0.00	0.10	0.10	0.12	0.11	0.11
Crit Moves:	0.07	****	0.20	0,05	0.05	0.05		****		****		
Green/Cycle:	. 0 22	0 22	0.61	0 22	0.22	0.22	0.00	0.32	0.32	0.39	0.70	0.70
Volume/Cap:		0.32	0.16		0.22	0.22		0.32		0.32		0.16
Delay/Veh:			10.2	38.5		38.5		31.4		25.9	6.0	6.0
User DelAdi:			1.00	1.00		1.00		1.00			1.00	1.00
AdjDel/Veh:		39.6	10.2	38.5		38.5	0.0		31.4	25.9	6.0	6.0
DesignQueue:		39.6	4	30.3	38.3	38.3	0.0	14	2	9	8	0.0
nesignouene:	4	T	4	2	4	. 0	U	1.4	- 4	,	0	v

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Ex + Ph 1 AM

Intersection #9: SR 1/Swift [N/S: Swift E/w: SR 1]

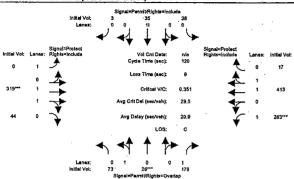


Approach:	No	rth Bo	und .	Son	ath Bo	und	Ea	ast Bo	ound		est Bo	
Movement:			- R	L.		- R			- R		T	
Min. Green:			0			۰	, 0		0	0		0
Volume Module				1		1	1			1		1
Base Vol:	73	26	154	38	35	3	. 0	302	44	217	382	17
Growth Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	73	26.	154	38	35	3	0	302	44	217	382	17
Added Vol:	0	0	و	0	0	0	0	6	0	21	14	0
Campus Incr:	0	0	0	0	0	0	0	Q	0	0	0	0
Initial Fut:			163	38	35	3	0	308	44	238	396	17
User Adj:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adi:			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	73	26	163	38	35	3	0	308	44	238	396	17
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:			163	38	35	3	0	308	44	238	396	17
PCE Adi:		1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adi:		1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.:	73	26	163	38	35	3		308	44		396	17
				1						1		
Saturation P				٠, .		•	•			•		
Sat/Lane:			1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.74	0.74	0.83	0.82	0.82	0.82	1.00	0.91	0.91	0.93	0.93	0.93
Lanes:		0.26		0.50		0.04	1.00	1.75	0.25	1.00	1.92	0.08
Final Sat.:	1032	368	1583	774	713	61			434		3372	145
				[[·I	1			1		
Capacity Anal							•			•		
Vol/Sat:	0.07	0.07	0.10	0.05	0.05	0.05	0.00	0.10	0.10	0.13	0.12	0.12
Crit Moves:		****						***		****		
Green/Cycle:	0.21	0.21	0.62	0.21	0.21	0.21	0.00	0.31	0.31	0.41	0.71	0.71
Volume/Cap:			0.17	0.23	0.23	0.23	0.00	0.33	0.33	0.33	0.17	0.17
Delay/Veh:	40.6	40.6	9.8	39.4	39.4	39.4	0.0	32.4	32.4	24.7	5.7	5.7
User DelAdj:				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:					39.4	39.4		32:4	32.4	24.7	5.7	5.7
DesignQueue:					2	0	0	15	2	. 10	8	0

November 2003

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex+Ph 1+Ph 2 AM

Intersection #9: SR 1/Swift [N/S: Swift E/w: SR 1]

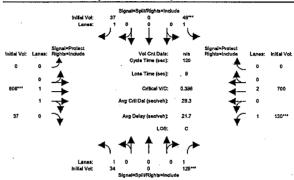


									ound .			
Movement:			- R			- R			- R		- T	
					-,					1		[
Min. Green:		0	0	0	0	0	0	0	oʻ	. 0	0	
										1		
Volume Modul	.e:					•	•		•	•		
Base Vol;	73	26	154	38	35	3	0	302	44	217	382	17
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	73	26	154	38	35	3	0	302	44	217	382	17
Added Vol:	0	0	25	0	0	0	0	17	0	46	31	0
Campus Incr:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	73	26	179	38	35	3	0	319	44	263	413	17
User 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
PHF 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
PHF Volume:			179	38	35	3	0	319	44	263	413	17
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	. 0	0
Reduced Vol:	73	26	179	38	35	3	0	319	44	263	413	17
PCE 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
MLF 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
Final Vol.:	. 73	26	179	38	35	3	0	319	44	263	413	17
					- 		I			[1
Saturation F	low M	odule:										
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.73	0.73	0.83	0.81	0.81	0.81	1.00	0.91	0.91	0.93	0.93	0.93
			1.00	0.50	0.46	0.04		1.76		1.00	1.92	0.08
Final Sat.:				773		61			421		3378	139
				1								
Capacity Ana	lysis	Modul	le:									
Vol/Sat:		0.07	0.11	0.05	0.05	0.05	0.00	0.10	0.10	0.15	0.12	0.12
Crit Moves:		****						****		***		
Green/Cycle:					0.20	0.20	0.00	0.30	0.30	0.42	0.72	0.72
Volume/Cap:			0.18	0.24		0.24	0.00	0.35	0.35	0.35	0.17	0.17.
Delay/Veh:			9.5		49.5	40.5	0.0	33.2	33.2	23.7	5.3	5.3
User DelAdj:					1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:			9.5		40.5	40.5	0.0	33.2	33.2	23.7	5.3	5.3
DesignOueue:	4	1	5	2	2	0	0	15	2	10	R	n

November 2003

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Exhibing AM

Intersection #10: Mission/Almar [N/S: Almar E/w: Mission]



Approach:	No	rth Bo	ound	So	uth B	bauc	E	ast Bo	ound	We	est Bo	ound
Movement:	L	- T	- R	L	т	- R	L	т	- R	L.	- T	~ R
							1					
Min. Green:	· 0	0	0	.0	. 0	o o	. 0	0	0	0	0	0
	1					1						
Volume Module	ė:					. '				•		
Base Vol:	34	0	129	49	0	37	0	606	37	130	700	0
Growth 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
Initial Bse:	34	10	129	49	0	37	0	606	37	130	700	0
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	. 0
Campus Incr:	0	0	0	. 0	0	0	0	0	0	0	0	0
Initial Fut:	34	0	129	49	0	37	0	606	. 37	130	700	0
User 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
PHF 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
PHF Volume:	34	0	129	49	. 0	37	0	606	37	130	700	0 -
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	34	0	129	49	0	37	0	606	37	130	700	0
PCE 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
MLF Adj:	1.00	1.00		1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.:	34	0	129		. 0	37	0		37	130		0
Saturation F	Low Mo	odule:										
Sat/Lane:	1900	1900	1900			1900		1900	1900	1900	1900	1900
Adjustment:	0.93	1.00	0.83	0.93	1.00	0.83	1.00	0.92	0.92	0.93	0.93	1.00
Lanes:		0.00		1.00	.0.00	1.00	0.00	1.88	0.12	1.00	2.00	0.00
Final Sat.:		0		1769	0	1583		3304				0
~												
Capacity Ana												
Vol/Sat:	0.02	0.00			0.00	0.02	0.00	0.18	0.18	0.07	0.20	0.00
Crit Moves:			****	****				****		***		*
Green/Cycle:					0.00			0.46		0.19	0.65	0.00
Volume/Cap:				0.40		0.33		0.40			0.30	0.00
Delay/Veh:				55.5	0.0	54.9		21.3		43.7	9.3	0.0
User DelAdj:					1.00	1.00		1.00	1.00	.1.00	1.00	1.00
AdjDel/Veh:	38.7	0.0	42.0			54.9	0.0	21.3	21.3	43.7	9.3	0.0
DesignQueue:	2	0	7	3	0	2	0	23	1	. 7	17	0

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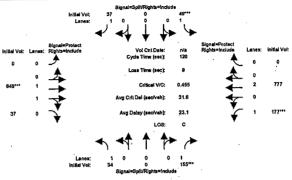
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November 2003

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Ex + Ph 1 + Ph 2 AM

Intersection #10: Mission/Almar (N/S: Almar E/w: Mission)



Approach:	Nox	rth Bo	und	Sou	ith Bo	bund		ast Bo			est Bo	
Movement:	L ·	- т	- R			- R			- R		- T	
							1					
Min. Green:	٠ ،		o o	0	0	0	0	0	0	0	0	0
	1			1					{			
Volume Module			•	•								
Base Vol:	34	0	129	49	0	37	0	606	37	130	700	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00		1.00	1.00
Initial Bse:	34	0	129	49	0	37	0	606	37	130	700	0
Added Vol:	0	0	26	0	0	. 0	0	43	0	47	77	0
Campus Incr:		0	0	0	0	0	0	0	0	0		0
Initial Fut:	34	0	155	49	. 0	37				177		0
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00		1.00			1.00	1.00
PHF Ad1:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	34	0	155	49	0	37	0	649	37	177	777	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	34	0	155	49	0	37	0	649	37	177		0
PCE Ad1:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	
MLF 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
Final Vol.:	34	0	155	49	0	37	0			177	777	0
			·				1					
Saturation F	low M	odule:	,	•								
Sat/Lane:	1900	1900	1900		1900			1900	1900			1900
Adjustment:	0.93	1.00	0.83	0.93	1.00			0.92			0.93	1.00
Lanes:		0.00	1.00	1.00	0.00		0.00				2.00	
Final Sat.:	1769	0	1583			1583		3320	189		3538	0
	1			1						1		
Capacity Ana	lysis	Modu:	le:	-								
Vol/Sat:	0.02		0.10		0.00	0.02	0.00	0.20		. 0.10	0.22	0.00
Crit Moves:			****	****				****	1	***		
Green/Cycle:	0.22	0.00	0.22	0.06	0.00	0.06	0.00	0.43	0.43		0.65	
Volume/Cap:	0.09	0.00	0.46	0.46	0.00			0.46		0.46		0.00
Delay/Veh:		0.0			0.0	56.7	0.0	24.5	24.5	41.4		0.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00
AdjDel/Veh:				57.5	0.0	56.7	0.0	24.5	24.5	41.4		0.0
DesignOueue:			. 8	. 3	0	2	0	26	1	9	19	0

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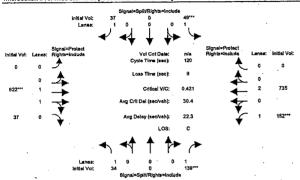
November 2003

Level Of Service Computation Report

2000 HCM Operations (Future Volume Atternative)

Ex + Ph 1 AM

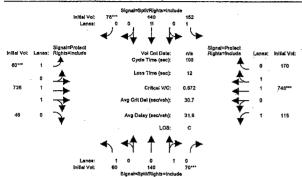
Intersection #10: Mission/Almar [N/S: Almar E/w: Mission]



Approach:	No	rth Bo	und	Sou	ith Bo	und	Ea	ast Bo	und	We	est Bo	ound
Movement:	L.	- т	- R	L.	- т	- R	ъ.	- T	- R	ъ.	- т	- R
	·			1			1					
Min. Green:			o'			. 0	٠ ٥		0	· o	0	. 0
				1		1						
Volume Module							•			•		
Base Vol:	34	0	129	49	٥	37	0	606	37	130	700	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00
Initial Bse:	34	0	129	49	0	37	0	606	` 37	130	700	. 0
Added Vol:	0	0	10	0	0	0	0	16	0	22	35	0
Campus Incr:	0	0	0	0	0	0	0	. 0	0	0	0	0
Initial Fut:	34	0	139	49	0	37	. 0	622	37	152	735	0
User 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
PHF Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	34	0	139	49	0	37 -	0	622	37	152	735	0
Reduct Vol:	. 0	. 0	0	0	. 0	0	0	0	· a	0	0	0
Reduced Vol:	34	. 0	139	49	0	37	0	622	37	152	735	0
PCE' Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adi:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.:	34	0	139	49	0	37	0	622	37	152	735	0
						1	1			1	- -	
Saturation F				•		•	•			•		
Sat/Lane:		1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:		1.00	0.83	0.93	1.00	0.83	1.00	0.92	0.92	0.93	0.93	1.00
Lanes:		0.00	1.00	1.00	0.00	1.00	0.00	1.89	0.11	1.00	2.00	0.00
Final Sat.:			1583	1769	. 0	1583	0	3312	.197	1769	3538	0
						1	1	غزم		1		
Capacity Ana								:	•	•		•
Vol/Sat:		0.00		0.03	0.00	0.02	0.00	0.19	0.19	0.09	0.21	0.00
Crit Moves:			****	****				****		****		
Green/Cycle:	0 '21	0.00	0.21	.0.07	0.'00	0.07	0.00	0.45	0.45	0.20	0.65	0.00
Volume/Cap:			0.42		0.00	0.36		0.42			0.32	0.00
	38.4		42.1	56.3	d. o	55.7		22.8		42.4		0.0
User DelAdj:			1.00		1.00	1.00		1.00			1.00	1.00
AdjDel/Veh:	38.4		42.1	56.3	0.0	55.7		22.8	22.8		9.3	0.0
DesignOueve.			7		0.0	2	0.0	24	1	8	18	0

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Existing AM

Intersection #11: Mission/Bay [N/S: Bay E/w: Mission]

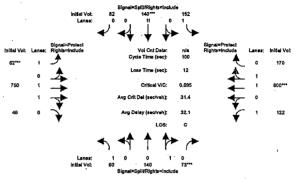


Approach:	No	rth Bo	ound	Son	uth Bo	ound	E	ast Bo	und	We	est Bo	ound
Movement:	L		- R	L.	- T	- R	, L .			, L	-	
Min. Green:	. 0	0	o'	່ 0			່ ວ	_	0 	٠ ,	0	0
Volume Module	,		'	١.		. 1			,	1		
Base Vol:	60	140	70	152	140	78	60	726	46	115	748	170
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	60	140	70	152	140	78	60	726	46	115	748	170
Added Vol:	0	0	. 0	0	0	0	0	0	0	0	0	0
Campus Incr:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	60	140	70	152	140	78	60	726	46	115	748	. 170
User 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
PHF Adj:		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	60	140	70	152	140	78	60	726	46	115	748	170
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	60	140	70	152	140	78	60	726	46	115	748	170
PCE Adj:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.:	60	140	70	152	140	78	60	726	46	115	748	170
Saturation F												
Sat/Lane:		1900	1900		1900	1900	1900		1900	1900		1900
Adjustment:		0.91	0.91		0.91	0.91	0.93		0.92	0.93		0.90
Lanes:		0.67	0.33		0.48	0.26	1.00	1.88	0.12	1.00	1.63	0.37
Final Sat.:		1158	579	2182	826	460	1769		209	1769	2802	637
					- 				1	ļ		·
Capacity Anal												
Vol/Sat:	0.03	0.12	0.12	0.07	0.17	0.17		0.22	0.22	0.07	0.27	0.27
Crit Moves:			****			***	***				****	
Green/Cycle:			0.18		0.25	0.25	0.05	0.35	0.35	0.10		0.40
Volume/Cap:	0.19	0.67	0.67	0.28	0.67	0.67	0.67	0.64	0.64	0.64	0.67	0.67
Delay/Veh:		43.9	43.9		34.9	36.9	64.9		28.6	50.5		26.1
User DelAdj:			1.00		1.00	1.00	1.00		1.00	1.00	1.00	1.00
AdjDel/Veh:		43.9	43.9		36.9	36.9	64.9		28.6	50.5	26.1	26.1
DesignQueue:	3	7	3	6	6	3	3	28	2	6	27	6

November 2003

Novamoer 2003 Level Of Service Computation Report 2000 HCM Operations (Future Volume Atternative) Ex + Ph 1 AM

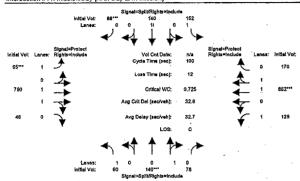
Intersection #11: Mission/Bay [N/S: Bay E/w: Mission]



Approach:	No:	rth Bo	ound	Son	uth Bo			ast B	bund	We	est B	ound .
Movement:		- T			- т	- R	, L		- R	, L	- T	- R
Min. Green:	0	0	 0 	. 0	0	 0 	. 0	0	 0 	0	0	اا
Volume Module))			1			1		1	1		
Base Vol:	60	140	70	152	140	78	60	726	46	115	748	170
Growth 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
Initial Bse:	. 60	140	. 70	152	140	78	60	726	46	115	748	170
Added Vol:	0	0	3	0	0	4	2	24	0	7	52	0
Campus Incr:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	60	140	73	152	140	82	62	750	46	122	800	170
User Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF 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
PHF Volume:	60	140	73	152	140	82	62	750	46	122	800	170
Reduct Vol:	ò	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	60	140	73	152	140	82	62	750	46	122	800	170
PCE Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF 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
Final Vol.:	60	140	73	152	140	82	62	750	46	122	800	170
				1			!				'	
Saturation Fi	LOW MO	odule:	;									
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.91	0.91	0.91	0.91	0.91	0.91	0.93	0.92	0.92	0.93	0.91	0.91
Lanes:	1.00	0.66	0.34	1.25	0.47	0.28	1.00	1.88	0.12	1.00	1.65	0.35
Final Sat.:		1140	594	2174		477	1769	3303	203	1769	2842	604
Capacity Anal	lysis	Modu]	le:									
Vol/Sat:	0.03	0.12	0.12	0.07	0.17	0.17	0.04	0.23	0.23	0.07	0.28	0.28
Crit Moves:			****		****		****				****	
Green/Cycle:			0.18	0.25		0.25	0.05		0.35	0.11		0.41
Volume/Cap:		0.69	0.69	0.28		0.69	0.69		0.65	0.65		0.69
Delay/Veh:	35.4	45.4	45.4	30.5	38.1	38.1	67.9	28.6	28.6	50.7	26.2	26.2
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	35.4	45.4	45.4	30.5	38.1	38.1	67.9	28.6	28.6	50.7	26.2	26.2
	3	7	3	6	6							

Level Of Service Computation Report
2000 HCM Operations (Future Voturne Atternative)
Ex+Ph 1+Ph 2-AM

Intersection #11: Mission/Bay [N/S: Bay E/w: Mission]



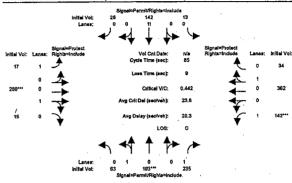
Approach:	No	rth Bo	ound	So	ith Bo	ound	E	ast Bo	ound		est Bo	
Movement:	L		- R			- R		- т			- T	
										1		
Min. Green:		0			0			. 0		, 0		٥.
Volume Modul												
Base Vol:	60	140	70	152	140	. 78	60	726	46	115	748	170
Growth Adj:	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00		748	1.00
Initial Bse:		140	70	152	140	78	60	726	46	115		170
Added Vol:	0	0	8	. 0	0	10	5 0	64	0	14	114	0
Campus Incr:		0	0	0	0	0	-	0	0	-	862	170
Initial Fut:		140	78	152	140	88	65	790		129	1.00	1.00
User Adj:		1.00	1.00		1.00	1.00		1.00	1.00			1.00
PHF Adj:		1.00	1.00	1.00		1.00	1.00	1.00	1.00		1.00 862	170
PHF Volume:	60	140	7B	152	140	88	65	790	46 0-	129 0	862	1/0
Reduct Vol:	0	0	0	0	0	0	0	0	-	-	_	-
Reduced Vol:		140	78	152	140	88	65	790	46	129	862	170
PCE Adj:		1.00	1.00		1.00	1.00		1.00	1.00		1.00	1.00
MLF Adj:		1.00	1.00		1.00	1.00		1.00	1.00		1.00	1.00
Final Vol.:	. 60		78,	152	140	88,	65	790	46	129	862	170
Saturation F				1								
Sat/Lane:		1900	1900	1000	1900	1900	1000	1900	1900	1000	1900	1900
Adjustment:		0.91	0.91		0.91	0.91		0.92	0.92		0.91	0.91
Lanes:		0.64	0.36		0.46	0.29		1.89	0.11		1.67	0.33
Final Sat.:		1110	619		796	500		3316	193		2881	568
Final Sat.:												
Capacity Ana				,			1		,,	1		
Vol/Sat:		0.13	0.13	0 07	0.18	0.18	0 04	0.24	0.24	0.07	0.30	0.30
Crit Moves:	0.03	****	0.13	0.07	0.10	. ****	****	0.24	0.24	0.07	****	0.50
Green/Cycle:	0 17		0.17	0 24	0.24	0.24		0.35	0.35	0 11	0.41	0.41
Volume/Cap:		0.72	0.72		0.72	0.72		0.67	0.67		0.72	0.72
Delay/Veh:		47.5	47.5		391.8	39.8		28.8	28.8		26.5	26.5
User DelAdi:			1.00		1.00	1.00		1.00	1.00		1.00	1.00
AdiDel/Veh:		47.5	47.5		39.8	39.8		28.8	28.8		26.5	26.5
DesignQueue:		47.5	47.5	31.0	39.0	39.0	72.0	30	20.0	7	30	. 6
negrandnege:	3	7	4	7	•	4	3	30	2	7	30	

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Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Existing AM

Intersection #12: Laurel/California [N/S: California E/w: Laurel]



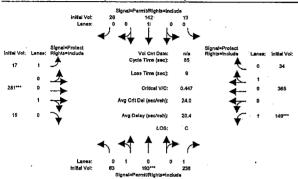
Approach:	No	rth Bo	ound	So	ith Bo	ound	E	ast Bo	ound	We	est Bo	ound
Movement:	L ·	- T	- R	ъ.		- R			- R	L .	- T	- R
												}
Min. Green:	. 0		0	0	.0	0	0		0	. 0	0	۰.
				ļ								
Volume Module									•			
Base Vol:	63	193	235	13	142	26	17	280	15	142	362	34
Growth Adj:		1.00	1.00		1.00	1.00		1.00	1.00		1.00	1.00
Initial Bse:		193	235	13	142	. 26	17	280	1.5	142	362	34
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	. 0
Campus Incr:		0	0	0	0	0	0	0	0	0	0	0
Initial Fut:			235	13	142	26	17	280	15	142		34
User Adj:		1.00	1.00		1.00	1.00		1.00	1.00		1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00		1.00	1.00
PHF Volume:	63	193	235	1.3	142	26	17	280	15	142	362	34
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	63	193	235	13	142	26	.17	280	15	142	362	34
PCE 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
MLF 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
Final Vol.:			235	13	142	26	17		15	142		. 34
				1								
Saturation F												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.87	0.87	0.83	0.94	0.94	0.94	0.93	0.97	0.97	0.93	0.97	0.97
Lanes:	0.25	0.75	1.00	0.07	0.79	0.14	1.00	0.95	0.05	1.00	0.91	0.09
Final Sat.:	406	1245	1583	128	1397	256	1769	1753	94	1769	1680	158
				1								
Capacity Ana	lysis	Modu:	le:	•								
Vol/Sat:	0.16	0.16	0.15	0.10	0.10	0.10	0.01	0.16	0.16	0.08	0.22	0.22
Crit Moves:		****						****		***		
Green/Cycle:	0.35	0.35	0.35	0.35	0.35	0.35	0.02	0.36	0.36	0.18	0.52	0.52
Volume/Cap:		0.44	0.42	0.29	0.29	0.29	0.41	0.44	0.44	0.44	0.41	0.41
Delay/Veh:		21.7	21.6	20.2	20.2	20.2	47.6	21.1	21.1	31.9	12.8	12.8
User DelAdj:				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdiDel/Veh:		21.7	21.6	20.2	20.2	20.2	47.6	21.1	21.1	31.9	12.8	12.8
DesignQueue:	2		7	0	4	1	1	9	0	6	9	1

Indea Delegas Carles

November 2003

Level Of Service Computation Report ICM Operations (Future Volume Alternative)

Intersection #12: Laurel/California (N/S: California E/w: Laurel)



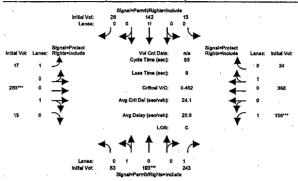
Approach:	No.	rth Bo	ound	501	uth Bo	und	E	ast Bo	ound	We	est Bo	ound
Movement;		- Т			- T			- T				- R.
						1				1	· ·	
Min. Green:							. 0					
Volume Module												
Base Vol:	63		235	13	142	26	17		. 15	142	362	34
Growth Adj:		1.00	1.00		1.00	1.00		1.00	1.00	1.00		1.00
Initial Bse:			235	13	142	26	17	280	15	142	362	34
Added Vol:	0		3	0	0	0	0	1	0	7	3	0
Campus Incr:		0	0	0	0	0	0	0	0	0	0	0
Initial Fut:			238	13	142		17	281	15	149	365	34
User 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
PHF 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
PHF Volume:	63	193	238	13	142	26	17	281	15	149	365	34
Reduct Vol:	0	0	0	0	. 0	0	0	٥	0	0	0	0
Reduced Vol:	63	193	238	13	142	26	17	281	15	149	365	34
PCE 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
MLF 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
Final Vol.:	63	193	238	13	142	26	17	281	15	149	365	34
,			1							1		
Saturation Fl				•			,	•	. '	'		
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.87	0.87	0.83	0.94	0.94	0.94	0.93	0.97	0.97	0.93	0.97	0.97
Lanes:	0.25	0.75	1.00	0.07	0.79	0.14	1.00	0.95		1.00	0.91	0.09
Final Sat.:	407	1247	1583	128	1397	256	1769	1754	94	1769	1681	157
				·			·			1		
Capacity Anal				•			•			•		
Vol/Sat:	0.15	0.15	0.15	0.10	0.10	0.10	0.01	0.16	0.16	0.08	0.22	0.22
Crit Moves:		****						****		***		
Green/Cycle:	0.35	0.35	0.35	0.35	0.35	0.35	0.02	0.36	0.36	0.19	0.52	0.52
Volume/Cap:	0.45	0.45	0.43	0.29	0.29	0.29	0.41	0.45	0.45	0.45	0.41	0.41
Delay/Veh:	22.0	22.0	21.9	20.5	20,5	20.5	47.6			31.5		12.6
User DelAdj:	1.00	1.00	1.00	1.00	1.60	1.00	1.00			1.00		1.00
AdjDel/Veh:								21.3		31.5		12.6
DesignQueue:		6	8		4	1	1		. 0	6		1
						_	_	-	-	-	-	

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Leval Of Service Computation Report 2000 HCM Operations (Future Volume Atternative) Ex.+Ph 1.+Ph 2 AM

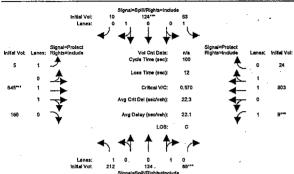
intersection #12; Laurel/California [N/S: California E/w; Laurel]



Approach:	No:	rth B	ound	So	uth Bo	ound	E	ast Bo	ound	W	est Bo	bauc
Movement:	L ·	- Т	- R	L		- R		~ T		L		- R
				ļ			1					
Min. Green:	0			0	. 0	0	0			0		0
												1
Volume Module	e :					1						
Base Vol:	63		235	13	142	26	17	280	15	142	362	34
Growth 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
Initial Bse:	63	193	235	13	142	26	17	280	15	142	362	34
Added Vol:	0	0	8	, 0	-0	0	0	3	0	14	6	0
Campus Incr:	0	0	0	0	0	0	0	0	0	0	0	. 0
Initial Fut:	63	193	243	13	142	26	17	283	15	156	368	34
User 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
PHF 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
PHF Volume:	63	193	243	13	142	26	17	283	15	156	368	34
Reduct Vol:	0	. 0	0	. 0	0	0	0	0	0	0	0	0
Reduced Vol:	63	193	243	13	142	26	17	283	15	156	368	34
PCE 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
MLF 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
Final Vol.:	63	193	243	13	142	26	17	283	15	156	368	34
				1						1		
Saturation F	Low Mo	dule	. '	٠.,		,	'		'	•		'
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.87	0.87	0.83	0.94	0.94	0.94	0.93	0.97	0.97	0.93	0.97	0.97
Lanes:	0.25	0.75	1.00	0.07	0.79	0.14	1.00	0.95	0.05	1.00	0.92	0.08
Final Sat.:	407	1248	1583	128	1397	256	1769	1756	93	1769	1682	155
			1	1			i			1		
Capacity Anal	lysis	Modu	le: ʻ	•			•		,	•		
Vol/Sat:			0.15	0.10	0.10	0.10	0.01	0.16	0.16	0.09	0.22	0.22
Crit Moves:		****						****		***		
Green/Cycle:	0.34	0.34	0.34	0.34	0.34	0.34	0.02	0.36	0.36	0.20	0.53	0.53
Volume/Cap:			0.45	0.30	0.30	0.30	0.41	0.45	0.45			0.41
Delay/Veh:		22.3	22.3	20.7	20.7	20.7	47.6		21.5	31.1		12.4
User DelAdi:				1.00		1.00	1.00		1.00	1.00		1.00
AdjDel/Veh:	22.3		22.3	20.7		20.7	47.6		21.5	31.1		12.4
DesignQueue:	2	- 6	8	0	5	1	1	9	0	6	9	1
	_	-	-	-		_	_	-	-	•	-	-

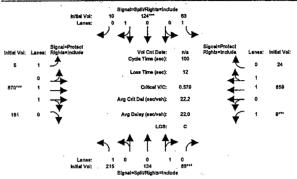
Level Of Service Computation Report 2000 HGM Operations (Future Volume Atternative) Existing AM

Intersection #13: Mission/Laurel [N/S: Laurel E/w: Missioni]



Approach:	No	rth Bo	ound	Sot	ath Bo	und	Ea	ast Bo	ound	West B	ound
Movement:			- R								
Min. Green:						٥					٥
Volume Module			1				1		!		
Base Vol:	212	134	89	63	124	10	5.	845	160	9 803	24
Growth Adj:		1.00	1.00		1.00			1.00	1.00	1.00 1.00	1.00
Initial Bse:	212	134	89	63	124	10	5	845	160	9 803	24
Added Vol:	0	0	0	0	0	0	0	0	0	0 0	0
Campus Incr:	0	0	0	0	0	0	0	0	0	0 0	0
Initial Fut:	212	134	89	63	124	10	5	845	160	9 803	24
User 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
PHF Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00 1.00	1.00
PHF Volume:	212	134	89	63	124	10	5	845	160	9 803	24
Reduct Vol:	0	0	0	0	0	0	ō	0.	0	0 0	0
Reduced Vol:	212	134	89	63	124	- 10	5	845	160	9 803	24
PCE Adj:	1.00	1.00	1.00		1.00			1.00			1.00
MLF Adj:		1.00	1.00		1.00			1.00	1.00	1.00 1.00	1.00
Final Vol.:			89	63		10		845	160	9 803	24
			1				1				
Saturation F	low Mo	dule	, '	•		•	•				
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900 1900	1900
Adjustment:	0.93	0.92	0.92	0.93	0.97	0.97	0.91	0.89	0.89	0.91 0.91	0.91
Lanes:	1.00	0.60	0.40	1.00	0.93	0.07	1.00	1.68	0.32	1.00 1.94	0.06
Final Sat.:	1769	1052	699	1769	1704	137	1736	2850	. 540	1736 3359	100
										1	
Capacity Ana	lysis	Modu.	le:	-					-	•	
Vol/Sat:	0.12	0.13	0.13		0.07		0.00	0.30		0.01 0.24	0.24
Crit Moves:			****		***			****		****	
Green/Cycle:	0.22	0.22	0.22	0.13	0.13	0.13	0.01	0.52	0.52	0.01 0.52	0.52
Volume/Cap:	0.54	0.57	0.57	0.28	0.57	0.57	0.46	0.57	0.57	0.57 0.46	0.46
Delay/Veh:	35.7	36.6	36.6	40.1	441.4	44.4	77.0	16.8	16.8	90.8 15.2	15.2
User DelAdj:	1.00	1.00	1.00	1.00	1.60	1.00	1.00	1.00	1.00	1.00 1.00	1.00
AdjDel/Veh:	35.7	36.6	36.6	40.1	44.4	44.4	77.0	16.8	16.8	90.8 15.2	15.2
DecianOueue.		_	À		6	0	٥	24	5	ი 23	1

Intersection #13: Mission/Laurel [N/S: Laurel E/w: Mission]



Approach:	No	rth Bo	und	So	ith Bo			ast Bo		West B	ound
Movement:	L ·	- T	- R	Ŀ.	- т	- R	L -	- Т		L - T	- R
							4				
Min. Green:	0	0	0	. 0	0	. 0	. 0	0	0	0 0	0
									· (
Volume Module	:										-
Base Vol:	212	134	89	63	124	10	5	845	160	9 803	24
Growth Adj:	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00 1.00	
Initial Bse:		134	89		124	10	5	845	160	9 803	24
Added Vol:	3	0	0	0	0	0	0	25	1	0 56	0
Campus Incr:		0	0	.0	0	0	0	0	0	0 0	•
Initial Fut:	215	134	89	63		10	5	870	161	9 859	
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00		1.00
PHF Adj:	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00 1.00	1.00
PHF Volume:	215	134	89.	63	124	10	5	870	161	9 859	24
Reduct Vol:	0	0	0	0	0	0	, 0	0	0	0 0	0
Reduced Vol:	215	134	89		124	10	´ 5	870	161	9 859	
PCE Adj:	1.00	1.00	1.00		1.00			1.00	1.00		
MLF Adj:	1.00			1.00		1.00	1.00		1.00	1.00 1.00	
Final Vol.:	215	134	89	63		10		870	161	9 859	24
Saturation Fl											
Sat/Lane:				1900		1900	1900		1900		
Adjustment:	0.93	0.92			0.97			0.89	0.89		
Lanes:	1.00	0.60	0.40		0.93	0.07	1.00		0.31		
Final Sat.:	1769	1052	699		1704	137	1736.		530	1736 3365	94
										1	
Capacity Anal	lysis	Modul	e:								
Vol/Sat:	0.12	0.13	0.13	0.04	0.07	0.07	0.00	0.30	0.30		0.26
Crit Moves:			****		****			****		****	
Green/Cycle:					0.13		0.01		0.53	0.01 0.53	
Volume/Cap:	0.55	0.58		0.28		0.58	0.48		0.58		
					44.8			16.7			
User DelAdj:			1.00					1.00	1.00		
AdjDel/Veh:	36.3	37.0	37.0		44.8	44.8		16.7			
DesignQueue:	10	6	4	3	6	0	0	25	5	0 24	1

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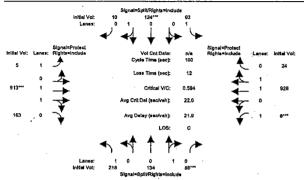
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Level OI Service Computation Report

2000 HCM Operations (Future Voturne Alternative)

Ex + Ph 1 + Ph 2 AM

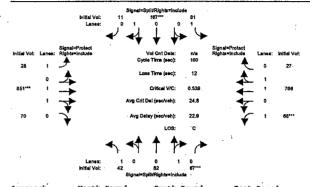
Intersection #13: Mission/Laurel [N/S: Laurel E/w: Missioni]



Approach:	ound		uth Bo			ast B		W	est B	ound		
Movement:	L	_	- R		- т			- T	- R	ь	- Т	- R
Min. Green:	0	0		`` o	0	0	. 0	0	0 	0		0
Volume Modul							1			1		
Base Vol:	212	134	89	63	124	10	5	845	160	9	803	24
Growth 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
Initial Bse:	212	134	89	63	124	10	5	845	160	9	803	24
Added Vol:	6	0	0	0	0	0	Q	68	3	0	123	0
Campus Incr:	. 0	. 0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	218	134	89	63	124	10	5	913	163	9	926	24
User 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
PHF 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
PHF Volume:	218	134	89	63	124	10	5	913	. 163	9	926	24
Reduct Vol:	0	0	0	0	0	0	0	0	. 0	0	0	0
Reduced Vol:	218	134	89	63	124	10	5	913	163	9	926	24
PCE 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
MLF 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
Final Vol.:	218	134	89	63	124	10	5	913	163	9	926	24
				1								- -
Saturation F	low M	odule	:				•			•		
Sat/Lane:		1900			1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.93	0.92	0.92	0.93	0.97	0.97	0.91	0.89	0.89	0.91	0.91	0.91
Lanes:		0.60	0.40	1.00	0.93	0.07	1.00	1.70	0.30	1.00	1.95	0.05
Final Sat.:	1769	1052	699	1769	1704	137	1736	2879	514	1736	3372	87
Capacity Ana									-			
Vol/Sat:	0.12	0.13		0.04	0.07	0.07	0.00	0.32	0.32	0.01	0.27	0.27
Crit Moves:			****		****			****		***		
Green/Cycle:	0.21	0.21	0.21	0.12	0.12	0.12	0.01	0.53	0.53	0.01	0.54	0.54
Volume/Cap:	0.57	0.59	0.59	0.29	0.59	0.59	0.51	0.59	0.59	0.59	0.51	0.51
Delay/Ven:	37.3	37.9	.37.9	40.7	45 .7	45.7	88.5	16.4	16.4	99.7	15.0	15.0
User DelAdj:	1.00	1.00	1.00	1.00	1.60	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	37.3	37.9	37.9	40.7	45.7	45.7	88.5	16.4	16.4	99.7	15.0	15.0
DesignQueue:	10	6	4	3	6	0	0	26	5	0	25	1.

Level Of Service Computation Report 2000 HCM Operations (Future Volume Atternative) Existing AM

Intersection #14: Mission/Walnut [N/S: Walnut E/w: Mission]

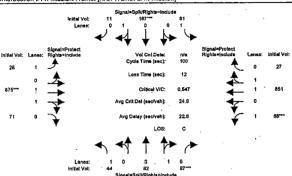


Approach:	No:	rth Bo	ound	So	uth Bo	ound	E	ast Bo	ound	We	est B	ound
Movement:			- R			- R			- R			- R
·										1		
Min. Green:	0			0		0	0			0		
]]		
Volume Module	ė:						•		,	•		
Base Vol:	. 42	82	67	81	167	11	28	851	70	68	796	27
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	42	82	67	81	167	11	28	851	70	68	796	27
Added Vol:	0		0	0	0	0	0	0	0	0	. 0	0
Campus Incr:			0	0	0	D	0	0	0	0	0	0
Initial Fut:		82	67	81	167	11			70	68	796	27
User Adj:		1.00			1.00	1.00		1.00			1.00	1.00
PHF Adj:		1.00	1.00		1.00	1.00		1.00			1.00	1.00
PHF Volume:	42	82	67	81	167	11	28	851		68	796	27
Reduct Vol:	0	0	-	0	0	. 0	o	. 0	0	0	0.	-
Reduced Vol:		82		81	167	.11	28				796	
PCE Adj:		1.00			1.00	1.00		1.00			1.00	
MLF Adj:		1.00			1.00	1.00		1.00			1.00	1.00
Final Vol.:		82	67		167	11	28		70	68		27
]		!			-
Saturation F												
Sat/Lane:		1900		1900		1900		1900			1900	1900
Adjustment:		0.93		0.95		0.99		0.94			0.95	0.95
Lanes:		0.55	0.45	1.00		0.06		1.85			1.93	0.07
Final Sat.:		976	797		1767	116		3299			3474	118
Capacity Anal												
Vol/Sat:	0.02	0.08		0.04	0.09	0.09	0.02	0.26			0.23	0.23
Crit Moves:			****		****					****		
Green/Cycle:				0.18		0.18		0.48			0.51	
Volume/Cap:						0.54		0.54			0.45	
Delay/Veh:	36.7	41.0	41.0	36.0		39.3		18.7				
User DelAdj:				1.00		1.00		1.00			1.00	
AdjDel/Veh:				36.0		39.3		18.7				15.5
DesignQueue:	2	4	3	4	. 8	1	2	26	2	. 4	23	1

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Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex + Ph 1 AM

Intersection #14: Mission/Walnut [N/S: Walnut E/w: Mission]

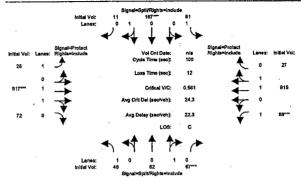


Approach:	No	rth Bo	ound	Soi	ith Bo	ound	Ea	st Bo	ound	We	est Bo	ound
Movement:	L ·		- R			- R		T			T	
									!	1		
Min. Green:	0	0	۰'	٠ ،		o'	່ 0			່ 0	0	oʻ
							1					1
Volume Module			,	•			•		'	'		'
Base Vol:	42	82	67	81	167	11	28	851	70	68	796	27
Growth Ad1:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	42	82	67	81	167	11	28	851	70	68	796	27
Added Vol:	2	0.	0	0	0	0	0	24	1	0	55	0
Campus Incr:	0	ō	ō	ō	ō	ō	ō	0	0	. 0	0	0
Initial Fut:	44	82	67	81	167	11	28	875	71	68	851	27
User Adi:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adi:		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	44	82	67	81	167	11	28	875	71	68	851	27
Reduct Vol:	Ö	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	44	82	67	81	167	11	28	875	71	68	851	27
PCE Adj:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.:		82	67	81	167	11	28	875	71	68	851	27
				ļ						i	· ·	
Saturation F	low Mo	dule:				•	•					
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.93	0.93	0.95	0.99	0.99	0.95	0.94	0.94	0.95	0.95	0.95
Lanes:	1.00	0.55	0.45	1.00	0.94	0.06	1.00	1.85	0.15	1.00	1.94	0.06
Final Sat.:	1805	976	797	1805	1767	116	1805	3302	268	1805	3481	110
Capacity Ana	Lysis	Modul	le:									
Vol/Sat:	0.02	0.08	0.08	0.04	0.09	0.09	0.02		0.26	0.04	0.24	0.24
Crit Moves:			***		****			***		****		
Green/Cycle:	0.15	0.15	0.15	0.17	0.17	0.17	0.03	0.48	0.48	0.07	0.52	0.52
Volume/Cap:	0.16	0.55	0.55		0.55	0.55	0.47	0.55	0.55	0.55	0.47	0.47
Delay/Veh:	37.0	41.4	41.4	36.3	39 7	39.7	53.2	18.4	18.4	50.1	15.4	15.4
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	37.0	41.4	41.4	36.3	39.7	39.7	53.2	18.4	18.4	50.1	15.4	15.4
DesignOueue:	2	4	3	4	8	1	2	.27	2	4	24	1

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Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex + Ph 1 + Ph 2 AM

Intersection #14: Mission/Walnut [N/S: Walnut E/w: Mission]



Approach:	No	rth Bo	ound		ath Bo				ound .		est Bo	
Movement:			- R			- R .			- R	, ь	- т	- R
Min. Green:	. 0			. 0		. 0	. 0	0		. 0	0	
						1				1		
Volume Module												
Base Vol:	42	82	67	81	167	11	28	851	70	68	796	27
Growth Adj:		1.00	1.00	1.00		1.00		1.00	1.00		1.00	1.00
Initial Bse:	42	82	67	81	167	11	28	851	70	68	796	27
Added Vol:	4	0	0	0	0	0	0	66	2	. 0	119	0
Campus Incr:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	46	82	67	81	167	11	28	917		68	915	27
User Adj:	1.00	1.00	1.00		1.00	1.00		1.00			1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00		1.00	1.00
PHF Volume:	46	82	67	81	167	11	28	917	72	68	915	27
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	46	82	67	81	167	. 11	28	917		68	915	27
PCE Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00
Final Vol.:		82	67		167	11	28		72	68		27
							1					
Saturation F	low Mo	odule	:									
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.93	0.93	0.95	0.99	0.99	0.95	0.94	0.94	0.95	0.95	0.95
Lanes:		0.55	0.45	1.00	0.94	0.06	1.00	1.85	0.15	1.00	1.94	0.06
Final Sat.:			797	1805	1767	116	1805	3310	260	1805	3493	103
Capacity Ana	lvsis	Modu	le:	,			•					·
Vol/Sat:		0.08		0.04	0.09	0.09	0.02	0.28	0.28	0.04	0.26	0.26
Crit Moves:			****		****			****		****		
Green/Cycle:	0.15	0.15	0.15	0.17	0.17	0.17	0.03	0.49	0.49	0.07	0.53	0.53
Volume/Cap:		0.56	0.56		0.56	0.56	0.49	0.56	0.56	0.56	0.49	0.49
Delay/Veh:		42.1			40.4	40.4		18.1			15.2	15.2
User DelAdj:					1.00	1.00		1.00			1.00	1.00
AdiDel/Veh:		42.1			40.4	40.4		18.1			15.2	15.2
	2 / . 4		3	30.7	8	10.1	2 2	28	2	4		1
DesignQueue:	2	4	3	4				40	2	*	20	-

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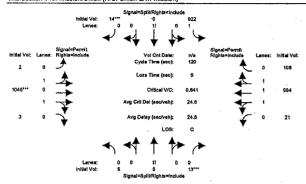
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November 2003

Level Of Service Computation Report
2000 HCM Operations (Future Volume Atternative)
Existing AM

Intersection #15: Mission/Union [N/S: Union E/w: Mission]

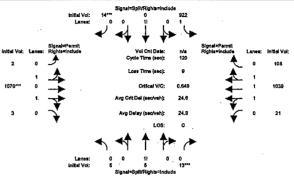


Movement: L - T - R L - T - R L - T - R L - T - R L - T - R Min. Green: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Approach:			ound			ound			ound		est Bo	
Min. Green: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Movement:	L ·	- T	- R	L ·	- T	- R	L	- T	- R	ъ	- T	- R
Min. Green: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					:								
Volume Module: Base VOl: 5 5 5 13 922 0 14 2 1046 3 21 984 108 Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Base Vol: 5 5 13 922 0 14 2 1046 3 21 984 108 Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0					~					·			
Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0													
Initial Bse: 5 5 13 922 0 14 2 1046 3 21 984 108 Added Vol: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 Initial Fut: 5 5 13 922 0 14 2 1046 3 21 984 108 User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0					922	0	14	2	1046	3	21	984	108
Added Vol: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						1.00							
Campus Incr: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Initial Bse:			13	922	0	14	2	1046	. 3	21		108
Initial Fut: 5 5 13 922 0 14 2 1046 3 21 984 108 User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Added Vol:			0	0	0	0	· D	. 0	. 0	0	. 0	0
User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0						0	0	0	0	0	0	0	0
PHF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0								2	1046	3	21	984	108
PHF Volume: 5 5 13 922 0 14 2 1046 3 21 984 108 Reduct Vol: 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	1.00	1.00	1.00	1.00
Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 90 0 0 0 0	PHF 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
Reduced Vol: 5 5 13 922 0 14 2 1046 3 21 984 108 PCE Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	PHP Volume:	5		13	922	0	14				21		108
Reduced Vol: 5 5 13 922 0 14 2 1046 3 21 984 108 PCE Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Reduct Vol:	0	0	0	0	0	Ò	0	. 0	. 0	0	. 0	0
MLF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Reduced Vol:	5	5	13	922	0	14	2	1046	3	. 21	984	108
Final Vol.: 5 5 13 922 0 14 2 1046 3 21 984 108 Saturation Flow Module: Sat/Lane: 1900 1900 1900 1900 1900 1900 1900 190			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Saturation Flow Module: Sat/Jane: 1900 1900 1900 1900 1900 1900 1900 190				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1:00	1.00
Saturation Flow Module: Sat/Lane: 1900 1900 1900 1900 1900 1900 1900 190	Final Vol.:	5	5		922		14	2	1046	3	21	984	108
Sat/Lane: 1900 1900 1900 1900 1900 1900 1900 190		1											
Adjustment: 0.90 0.90 0.90 0.93 1.00 0.93 0.89 0.89 0.89 0.79 0.79 0.79 Lanes: 0.22 0.22 0.56 1.97 0.00 0.03 0.00 1.99 0.01 0.06 2.65 0.29 Final Sat.: 370 370 962 3490 0 52 63363 1.0 85 3984 437	Saturation F	low Me	odule:					•			•		
Lanes: 0.22 0.22 0.56 1.97 0.00 0.03 0.00 1.99 0.01 0.06 2.65 0.29 Final Sat.: 370 370 962 3490 0 52 6 3363 10 85 3984 437	Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Final Sat.: 370 370 962 3490 0 52 6 3363 10 85 3984 437	Adjustment:	0.90	0.90	0.90	0.93	1.00	0.93	0.89	0.89	0.89	0.79	0.79	0.79
Capacity Analysis Module: Vol/Sat: 0.01 0.01 0.01 0.26 0.00 0.27 0.31 0.31 0.31 0.25 0.25 0.25 Crit Moves: Green/Cycle: 0.02 0.02 0.02 0.42 0.00 0.42 0.49 0.49 0.49 0.49 0.49 0.49 Volume/Cap: 0.64 0.64 0.64 0.63 0.00 0.64 0.64 0.64 0.64 0.51 0.51 0.51 Delay/Veh: 91.4 91.4 91.4 28.5 0.0 28.7 23.9 23.9 23.9 21.3 21.3 21.3 User DelAdj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Lanes:	0.22	0.22	0.56	1.97	0.00	0.03	0.00	1.99	0.01	0.06	2.65	0.29
Capacity Analysis Module: Vol/Sat: 0.01 0.01 0.01 0.026 0.00 0.27 0.31 0.31 0.31 0.25 0.25 0.25 Crit Moves: **** Green/Cycle: 0.02 0.02 0.02 0.42 0.00 0.42 0.49 0.49 0.49 0.49 0.49 0.49 Volume/Cap: 0.64 0.64 0.64 0.64 0.64 0.64 0.64 0.64	Final Sat.:	370	370	962	3490	0	52	6	3363	10	85	3984	437
Vol/Sat: 0.01 0.01 0.01 0.02 0.26 0.00 0.27 0.31 0.31 0.31 0.25 0.25 0.25 Crit Moves: **** Green/Cycle: 0.02 0.02 0.02 0.42 0.00 0.42 0.49 0.49 0.49 0.49 0.49 0.49 Volume/Cap: 0.64 0.64 0.64 0.64 0.64 0.64 0.64 0.64		} -]	1]	1		
Crit Moves: **** Green/Cycle: 0.02 0.02 0.02 0.42 0.00 0.42 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49	Capacity Anal	lysis	Modu]	le:			,	•			•		
Green/Cycle: 0.02 0.02 0.02 0.42 0.00 0.42 0.49 0.49 0.49 0.49 0.49 0.49 Volume/Cap: 0.64 0.64 0.64 0.63 0.00 0.64 0.64 0.64 0.64 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.51	Vol/Sat:	0.01	0.01	0.01	0.26	0.00	0.27	0.31	0.31	0.31	0.25	0.25	0.25
Volume/Cap: 0.64 0.64 0.64 0.63 0.00 0.64 0.64 0.64 0.64 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.51	Crit Moves:			****			****		***				
Volume/Cap: 0.64 0.64 0.64 0.63 0.00 0.64 0.64 0.64 0.64 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.51	Green/Cycle:	0.02	0.02	0.02	0.42	0.00	0.42	0.49	0.49	0.49	0.49	0.49	0.49
Delky/Veh: 91.4 91.4 91.4 28.5 0.0 28.7 23.9 23.9 23.9 21.3 21.3 21.3 User DelAdj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0					0.63	0.00	0.64	0.64	0.64	0.64			0.51
User DelAdj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Delay/Veh:	91.4	91.4	91.4	28.5	α.ο	28.7	23.9	23.9	23.9			21.3
AdjDel/Veh: 91.4 91.4 91.4 28.5 0.0 28.7 23.9 23.9 23.9 21.3 21.3 21.3	User DelAdi:	1.00	1.00		1.00	1.00							
				1	38	0	1	0	39			36	4

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Ex + Ph 1 AM

Intersection #15: Mission/Union [N/S: Union E/w: Mission]



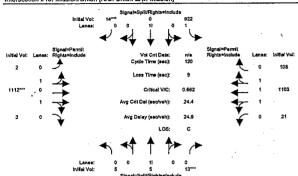
			Signal	-Spinnign	B=Include							
Approach:												
Movement:	L	- T	- R	L ·	- T	- R	L	- T	- R	L ·	- T	- R
Min. Green:	. 0	0	۰,	, 0	. 0	. 0	, 0	0	٥,	. 0	0	٥.
Min. Green:	~											
Volume Modula Base Vol:	e:											
Growth Adi:												
Initial Bse:												
Added Vol.	9	_	13	744	0	7.2	_	1040	•	21	204	100
Added Vol: Campus Incr:	0	ŏ	0	,	0		0	24	0	ŭ	23	0
Initial Fut:			12	922	0	14	2	1070		71	7070	108
User Adj:												
PHF Adj:												
PHF Volume:	1.00	1.00	1.00	1.00	1,00	1.00	1.00	1070	1.00	1.00	1030	100
Reduct Vol:	9	9	13	744			-	10/0		21	1035	100
Reduced Vol:		-	12	922	ŏ	14	,	2070	3	21	1020	108
PCE Adj:	1 00	3 00	1 00	1 00	1 00	3 00	1 00	1 00	1 00	1 00	1 00	1.00
MLF 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
Final Vol.:	5.00	5	13	922	1.00	14		1070	2.00	21	1030	108
	1		1	1			1		1	1		1
Saturation F				1		'			,	٠.		
Sat/Lane:				1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:												
Lanes:												
Final Sat.:												
	l		1	1			1		1	1		1
Capacity Ana				'		'	•		•			
Vol/Sat:				0.26	0.00	0.27	0.32	0.32	0.32	0.26	0.26	0.26
Crit Moves:										• •		
Green/Cycle:										0.49	0.49	0.49
Volume/Cap:												
Delay/Veh:												
User DelAdj:												
AdjDel/Veh:												
DesignQueue:												
_ ~ ~ ~ ~ ~ ~												

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Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative

Intersection #15: Mission/Union [N/S: Union E/w: Mission]



Approach:	No:	rth Bo	ound	Sot	ith Bo	ound	Ba	ast Bo	ound	We	est Bo	ouna
Movement:	L ·	- T	- R	L ·	T	- R	ъ.	- T	- R			- R
Min. Green:								0		0		0 1
Volume Module			,			1						'
Base Vol:	5	5	13	922	0	14	2	1046	3	21	984	108
Growth Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	5	5	13	922	0	14	2	1046	. 3	21	984	108
Added Vol:	0	0	0	0	0	0	0	66	0	0	119	0
Campus Incr:	0	0	0	0	0	0	0	0	0	Ö	0	0
Initial Fut:	5	5	13	922	0	14	2	1112	3	21	1103	108
User 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
PHF 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
PHF Volume:	5	5	13	922	0	14	2	1112	3	21	1103	108
Reduct Vol:	0	0	0	0	0	0	0	0	. 0	0	0	0
Reduced Vol:	5	5	13	922	0	14	. 2	1112	3	21	1103	108
PCE 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
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00
Final Vol.:					0			1112			1103	108
Saturation F												
Sat/Lane:			1900					1900		1900		
Adjustment:									0.89			
Lanes:		0.22			0.00				0.01	0.05		
Final Sat.:		370		3490	0			3363		. 77		395
									!			
Capacity Ana												
Vol/Sat:	0.01	0.01		0.26	0.00		0.33	0.33	0.33	0.27	0.27	0.27
Crit Moves:			****			****		****				
Green/Cycle:					0.00			0.50			0.50	
Volume/Cap:						0.66					0.55	
Delay/Veh:										21.0		
User DelAdj:					1.00					1.00		
AdjDel/Veh:					o. o			23.5			21.0	
DesignQueue:	0	0	1	39	0	1	0	40	0	1	39	4

COMPARE

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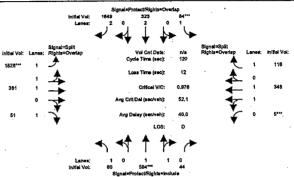
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Level Of Service Computation Report 2000 HCM Operations (Future Volume Alterna

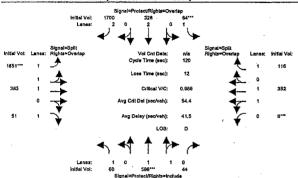
Intersection #16: Mission/Chestnut [N/S: Chestnut E/w: Mission]



in. Green: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0												
Movement:	ъ.	- T	- R	· L	- T	- R	L -	T	- R	L.		
Min. Green:	0	0	Ö	0	0	0	0	. 0	. 0	0	0	0
Volume Module	:											
Base Vol:	60	594	44	84	323	1649	1828	381	51	5	348	116
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00				1.00
Initial Bse:	60	594	44	84	323	1649	1828	381	51			116
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	(
Campus Incr:	0	0	0	0	0	0	0	0	0			
Initial Fut:	60	594	44	84	323	1649	1828	381	51			
User 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
PHF Volume:	60	594	44	84	323	1649	1828	381	51			116
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	
Reduced Vol:	60	594	44	84	323	1649	1828	381	51,	5	348	110
PCE Adi:					1.00	1.00	1.00.	1.00	1.00	1.00	1.00	1.00
MLF Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.:	60	594	44	84								110
				11						1		
							• •					
				1900	1900	1900	1900	1900	1900	1900	1900	190
					0.91	0.72	0.68	0.88	0.82	0.93	0.93	0.8
Lanes:					2.00	2.00	2.00	1.00	1.00	0.03	1.97	1.00
Final Sat.:	1769	3261	242	1736	3473	2734	3334	1667	1554	50	3484	158
				11			1					
				' '			•					
Vol/Sat:	0.03	0.18	0.18	0.05	0.09	0.60	0.55	0.23	0.03	0.10	0.10	0.0
							****		•	***		
			0.19	0.05	0.17	0.73	0.56	0.56	0.62	0.10	0.10	0.1
Volume/Cap:	0.54	0.98	0.98	0.98	0.54	0.82	0.98	0.41	0.05	0.98	0.98	0.4
Delay/Veh:	59.6	77.8	77.8	145.8	46.2	13.5	39.3	15.0	8.8	94.6	94.6	48.
Uger DelAdi:	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.0
							39 3	15.0	A.B	94.6	94.6	48.
AdiDel/Veh:	59.6											

Level Of Service Computation Report 2000 HCM Operations (Future Volume Atternative) Ex + Ph 1 AM

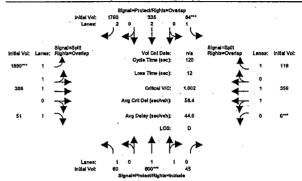
Intersection #16: Mission/Chestnut [N/S: Chestnut E/w: Mission]



Approach:	No:	rth Bo	ound	So	uth Bo	ound	E	ast Bo	ound	Wes	st Bo	ound	
Movement:	L ·	- Т	- R	L	- T	- R	T,	- T	- R	L ~	T	- R	
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0	
Volume Module	e:											•	
Base Vol:	60	594	44	84	323	1649	1828	381	51	5	348	116	
Growth Adj:	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	
Initial Bse:	60	594	44	84	323	1649	1828	381	51	5	348	116	
Added Vol:	0	2	0	0	5	51	23	2	0	1	4	0	
Campus Incr:	0	0	0	0	0	0	0	0	0	0	0	0	
Initial Fut:	60	596	44	84	328	1700	1851	383	51	6	352	116	
Ùser 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	
PHP 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	
PHF Volume:	60	596	44	84	328	1700	1851	383	51	6	352	116	
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0	
Reduced Vol:	60	596	44	84	328	1700	1851	383	51	6	352	116 .	
PCB 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	
MLF 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	
Final Vol.:	60	596	44	84	328	1700	1851	383	51	. 6	352	116	
												1	
Saturation F	low Mo	dule:	:				•			•		•	
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900 1	900	1900	
Adjustment:	0.93	0.92	0.92	0.91	0.91	0.72	0.88	0.88	0.82	0.93 0	1.93	0.83	
Lanes:	1.00	1.86	0.14	1.00	2.00	2.00	2.00	1.00	1.00	0.03 1	.97	1.00	
Final Sat.:	1769	3262	241	1736	3473	2734	3334	1667	1554	59 3	475	1583	
	!												
Capacity Ana	lysis	Modu]	le:			•	•		,•	٠,			
Vol/Sat:		0.18	0.18	0.05	0.09	0.62	0.56	0.23	0.03	0.10 0	1.10	0.07	
Crit Moves:		****		****			***			****			
Green/Cycle:	0.06	0.19	0.19	0.05	0.17	0.74	0.56	0.56	0.62	0.10 0	.10	0.15	
Volume/Cap:	0.55	0.99	0.99	0.99	0.55	0.85	0.99	0.41	0.05	0.99 0	.99	0.48	
Delay/Veh:	60.4	80.5	80.5	149.7	46.5	14.6	41.5	14.9	8.8	97.1 9	7.1	48.1	
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00 1	00	1.00	
AdjDel/Veh:	60.4	80.5	80.5	149.7	46.5	14.6	41.5	14.9	8.8	97.1 9	7.1	48.1	
DesignOueue.	a	34		- 5	10	34		12				7	

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Intersection #16: Mission/Chestnut [N/S; Chestnut E/w: Mission]



Approach:	No:	rth Bo	und		uth Bo				bauc		est Bo	
Movement:			- R			- R			- R		- T	
Min. Green:			0		0				0			0
							1			}		}
Volume Module										_		
Base Vol:	60		44	84	323	1649				5		116
Growth Adj:		1.00	1.00		1.00	1.00		1.00			1.00	1.00
Initial Bse:		594	44	84		1649	1828	381	51		348	116
Added Vol:	0	6	1	0	12	111	62	5	0			0
Campus Incr:		0	0	0	0	0	0	0	0			0
Initial Fut:			45	84	335	1760	1890					116
User Adj:			1.00		1.00	1.00		1.00			1.00	1.00
PHF Adj:		1.00	1.00		1.00	1.00		1.00	1.00		1.00	1.00
PHF Volume:	60	600	45	84	335	1760	1890	386	51	6	356	116
Reduct Vol:	0	0	0	0	0	0	Ó	0	. 0	0	0	0
Reduced Vol:	60	600	45	84	335	1760	1890	386	51	6	356	116
PCE 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
MLP 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
Final Vol.:			45	84	335	1760	1890		51	6		116
]				11		
Saturation Fi	low Mo	odule:					•	1.				
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.93	0.92	0.92	0.91	0.91	0.72	0.88	0.88	0.82	0.93	0.93	0.83
Lanes:	1.00	1.86	0.14	1.00	2.00	2.00	2.00	1.00	1.00	0.03	1.97	1.00
Final Sat.:	1769	3258	244	1736	3473	2734	3334	1667	1554	59	3476	1583
	 -									11		
Capacity Anal	lysis	Modul	.e:			•	•					
Vol/Sat:		0.18		0.05	0.10	0.64	0.57	0.23	0.03	0.10	0.10	0.07
Crit Moves:		****		****			****			****		
Green/Cycle:	0.06	0.18	0.18	0.05	0.17	0.74	0.57	0.57	0.63	0.10	0.10	0.15
Volume/Cap:			1.00		0.56	0.87		0.41	0.05	1.00	1.00	0.49
Delay/Veh:			85.0	156.0	46.8	16.1	45.4	14.8	8.7	101.7	102	48.3
User DelAdi:				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdiDel/Veh:				156.0		16.1		14.8		101.7	102	48.3
DesignOueue:			3	5		35	63	12	1	0	22	7

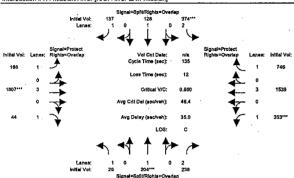
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el Of Service Computation Report

Intersection #17: Mission/River [N/S: River E/w: Mission]



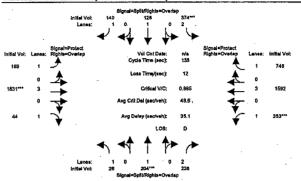
Approach:						ound					st Bo	und
Movement:			~ R			- R					T	
Min. Green:		0		. 0	0	۰۰.		0	0	. 0	0	
Volume Module												
Base Vol:	26		238	374	128	137		1807			1539	746
Growth Adj:		1.00	1.00		1.00	1.00		1.00		1.00		1.00
Initial Bse:	26	204	238	374	128	137		1807	44		1539	746
Added Vol:	Ö		0	0	. 0	0	0	0	0	0	0	0
Campus Incr:			0	0	_	0	0	0	0	0	0	0
Initial Fut:	26	204	238	374	128	137		1807			1539	746
User Adj:		1.00	1.00		1.00	1.00		1.00	1.00	1.00		1.00
PHF Adj:		1.00	1.00		1.00	1.00		1.00	1.00	1.00		1.00
PHF Volume:	26	204	238	374	128	137	168	1807	44	353	1539	746
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:			238	374	128	137			44	353	1539	746
PCE 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
MLF 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
Final Vol.:		204	238	374		137		1807	44		1539	746
Saturation F	Low Mo	dule:								•		
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.93	0.98	0.73	0.90	0.98	0.83	0.93	0.89	0.83	0.93	0.89	0.83
Lanes:	1.00	1.00	2.00	2.00	1.00	1.00	1.00	3.00	1.00	1.00	3.00	1.00
Final Sat.:	1769	1862	2786	3432	1862	1583	1769	5083	1583	1769	5083	1583
Capacity Anal	lysia	Modu1	e:	•		,	•					•
Vol/Sat:	0.01	0.11	0.09	0.11	0.07	0.09	0.09	0.36	0.03	0.20	0.30	0.47
Crit Moves:		***		****				****		****		
Green/Cycle:	0.13	0.13	0.36	0.13	0.13	0.24	0.11	0.41	0.54	0.23	0.54	0.66
Volume/Cap:	0.12	0.86	0.24	0.86	0.54	0.37	0.88	0.86	0.05	0.86	0.56	0.71
Delay/Veh:	46.6	76.9	27.0	67.1	51.7	39.1	86.2	35.8	13.0	60.7	18.7	15.1
User DelAdj:			1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00
AdiDel/Veh:			27.0	67.1	51.7	39.1	86.2	35.8	13.0	60.7	18.7	151
2								-				

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Level Of Service Computation Report

Intersection #17: Mission/River [N/S: River E/w: Mission]

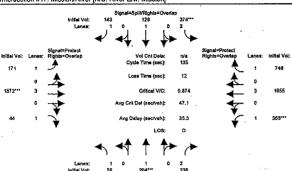


Approach:	No	rth Bo	ound	So	uth Bo	ound	E	ast B	ound	Wes	st Bo	ound
Movement:	L		- R		- T		. L	- Т	- R	. L -	T	- R
Min. Green:	, 0		0	. 0	0	٥,	. 0	0		. 0	0	
Volume Modul							1			,		
Base Vol:	26	204	238	. 374	128	137	168	1807	44	353 1	L539	746
Growth Adi:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:		204	238	374	128	137	168	1807	44	353 3	1539	746
Added Vol:	0	0	0	0	0	3	1	24	0	0	53	0
Campus Incr:	0	0	0	0	0	0	. 0	0	0	0	0	0
Initial Fut:	26	204	238	374	128	140	169	1831	44	353 1	1592	746
User Adj:	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
PHF Adi:	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
PHF Volume:	26	204	238	374	128	140	169	1831	44	353 1	1592	746
Reduct Vol:	O.	. 0	0	0	0	0	0	0	0	-0	0	0
Reduced Vol:	26	204	238	374	128	140	169	1831	44	353 1	1592	746
PCE Adi:	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
MLF Adj:	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
Final Vol.:	26	204	238	374	128	140		1831	44			746
		<i></i>		1								
Saturation F	low M	odule	. '	•								
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900 1	1900	1900
Adjustment:	0.93	0.98	0.73	0.90	0.98	0.83	0.93	0.89	0.83	0.93 (.89	0.83
Lanes:	1.00	1.00	2.00	2.00	1.00	1.00	1.00	3.00	1.00	1.00 3	3.00	1.00
Final Sat.:		1862			1862	1583		5083		1769 5		
				1								
Capacity Ana												
Vol/Sat:	0.01	0.11	0.09		0.07	0.09	0.10		0.03	0.20	3.31	0.47
Crit Moves:		***		***				****		****		
Green/Cycle:				0.13				0.42				
Volume/Cap:						0.38		0.86				
Delay/Veh:								35.9				
User DelAdj:					1.00	1.00		1.00				
AdjDel/Veh:		78.0			51.9	39.1		35.9		61.6		15.1
DesignOueue:	2	12	10	22	8	7	10	78	1	. 19	53	19

November 2003

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex+Ph 1+Ph 2 AM

Intersection #17: Mission/River [N/S: River E/w: Mission]



Approach:	No	rth B	ound	Sou	ith Bo	ound	Ea	st Bo	ound	· · We	est Bo	ound
Movement:	L.	- T	- R			~ R		т			- T	
	l											
Min. Green:	. 0				0	٥.	, 0		٥,	, 0	0	٥,
Volume Modul												
Base Vol:	26	204	238	374	128	137		1807	44		1539	746
Growth Adj:		1.00	1.00	1.00	1.00	1.00		1.00	1.00		1.00	1.00
Initial Bse:	26	204	238	374	128	137		1807	44		1539	746
Added Vol:	0	0	0	0	0	6	3	65	0	0	116	0
Campus Incr:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	26	204	238	374	128	143	171	1872	44	353	1655	746
User 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
PHF 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
PHF Volume:	26	204	238	374	128	143	171	1872	44	353	1655	746
Reduct Vol:	0	0	0	0	0	0	0	0	. 0	. 0	0	0
Reduced Vol:	26	204	238	374	128	143	171	1872	44	353	1655	746
PCE Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.:	26	204	238	374	128	143	171	1872	44	353	1655	746
			1				1					
Saturation F	low Mo	odule	:			-						
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.93	0.98	0.73	0.90	0.98	0.83	0.93	0.89	0.83	0.93	0.89	0.83
Lanes:	1.00	1.00	2.00	2.00	1.00	1.00	1.00	3.00	1.00	1.00	3.00	1.00
Final Sat.:	1769	1862	2786	3432	1862	1583	1769	5083	1583	1769	5083	1583
							l :			1		
Capacity Ana	lysis	Modu.	le:	•			• •		•	. 1		
Vol/Sat:		0.11	0.09	0.11	0.07	0.09	0.10	0.37	0.03	0.20	0.33	0.47
Crit Moves:		****		***				****		****		
Green/Cycle:	0.13	0.13	0.35.	0.12	0.12	0.24	0.11	0.42	0.55	0.23	0.54	0.66
Volume/Cap:		0.87	0.24	0.87	0.55	0.38	0.87	0.87	0.05	0.87	0.60	0.71
Delay/Veh:		79.9	27.5		521.2	39.2		36.1	12.7		19.3	15.1
User DelAdj:			1.00	1.00		1.00		1.00	1.00		1.00	1.00
AdjDel/Veh:		79.9	27.5		52.2	39.2		36.1	12.7		19.3	15.1
DesignQueue:	2	12	10	22	8	7	10	79	1	19	-55	19

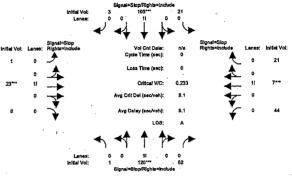
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November 2003

Level Of Service Computation Report

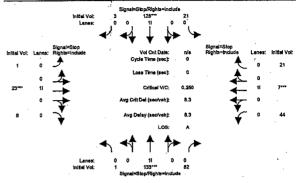
Intersection #18: Western/Meder [N/S: Western E/w: Meder]



Approach:	No	rth Bo	ound					ast Bo	und	We	est Bo	und
Movement:											_	
						_	_				_	
	-					•			_	-		
Campus Incr:				-	_	-	-	_	•	-	•	-
Novement: L - T - R												
Novement: L - T - R												
			1.00				1.00		1.00		1.00	
PHF Volume:					105				-			
Reduct Vol:			-	_	-				•	-	-	
Novement: L - T - R L - T - T - R L - T - T - R L - T - R L - T - T - R L - T - T - R L - T - T - R L - T - T - R L												
PCE Adj:												
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00
											7	21
			·				1					
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.01	0.59	0.40	0.16	0.82	0.02	0.03	0.77	0.20	0.61	0.10	
								565				
				1								
Capacity Anal				-								
Novement: L - T - R I - T - R I - T - T I -		0.10										
Crit Moves:		***			****			****			****	
Delay/Veh:	8.2	8.2	8.2	8.1	8.1	8.1	7.7	7.7	7.7	8.0	8.0	8.0
Delay Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Nemerical		8.0									
LOS by Move:		A	A	A	A	A	A	A	A	A	A	A
ApproachDel:	ent: L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R R R R R R R R R R R R R R R R R											
Delay Adj:	Second Company Compa											
		8.2						7.7			8.0	
LOS by Appr:		A			A			A			A	

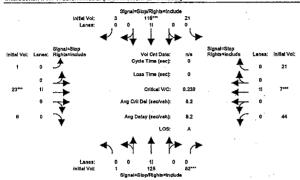
Level Of Service Computation Report 2000 HCM 4-Way Stop (Future Votume Alternative) Ex+Ph 1+Ph 2 AM

Intersection #18: Western/Meder [N/S: Western E/w: Meder]



			0.9.14		~,							
Approach:	No	rth Bo	ound	Son	ith Bo	ound	E	ast Bo	ound ·	We	est Bo	ound
Movement:			- R			~ R			- R		- Т	
Min. Green:		0			- 0		. 0			, 0,		٠.
				[
Volume Modul												
Base Vol:			82	21	105	3	1		6	44	7	21
Growth Adj:		1.00			1.00	1.00		1.00	1.00	1.00		1.00
Initial Bse:	1		82	21		3	1		6	44		21
Added Vol:		13	0	. 0	23	0	0	_	0	0		0
Campus Incr:		0	0	0	0	0		0	0	0	•	0
Initial Fut:			82	21	128	3	1		6	44	7	
User Adj:	1.00	1.00	1.00	1.00	1.00			1.00			1.00	
PHF 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
PHF Volume:	1	133	82	21	128	3	` 1	23	6	44	7	21
Reduct Vol:	0	. 0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	1	133	82	21	128	3	1	23	6		7	21
PCE Adj:	1.00	1.00	1.00			1.00					1.00	
MLF Adj:	1.00	1.00	1.00	1.00		1.00		1.00			1.00	1.00
Pinal Vol.:		133	82	21			1		6		7	21
							1					
Saturation F												
Adjustment:											1.00	
Lanes:				0.14	0.84	0.02	0.03	0.77	0.20	0.61	0.10	
Final Sat.:	. 4	532	· 328		678			552				211
									1			
Capacity Ana	lysis	Modu.	Le:									
Vol/Sat:	0.25	0.25	0.25	0.19	0.19		0.04	0.04	0.04	0.10	0.10	0.10
Crit Moves:		****		,	***	• •		****			****	
Delay/Veh:		8.4	, 8.4			8.3	7.8			8.1		8.1
Delay Adj:	1.00	1.00	1.00		1.00	1.00		1.00	1.00			1.00
AdjDel/Veh:			8.4	8.3		. 8.3	7.8	7.8	- 7.8	8.1		8.1
LOS by Move !				A.		Α	A	A		A		· A
ApproachDel:		8.4			8.3			7.8			8.1	
Delay Adj:		1.00			1.00			1.00			1.00	
ApprAdjDel:		8.4			8.3			7.8			8.1	
LOS by Appr:		A			A.			A			A	

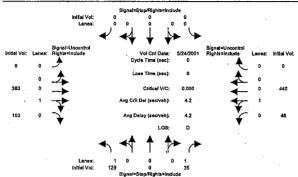
Intersection #18: Western/Meder [N/S: Western E/w: Meder]



Approach:	No	rth Bo	und		uth Bo		Ea	ast Bo	ound	We	est Bo	ound
Movement:	L.		- R	L ·	- T	- R	L.	- T	- R	ъ.	- т	– Ř
				1		- R						
Min. Green:	0	ò	oʻ		0	0	. 0	0	0	. 0	0	o ·
Volume Module	:				*		•			٠.		•
Base Vol:	1	120	82	21	1.05	3	1	23	. 6	44	7	21
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00		1.00	1.00
Initial Bse:	1	120	82	21	105	3	1	23	6	44	7	21
Added Vol:	0	5	0	0	11	0	0	. 0	0	0	0	0
Campus Incr:			0	0		0	0	-	0	0	0	0
Initial Fut:	1	125	82	21	116	3	1		6	44	7	21
		1.00	1.00		1.00	1.00		1.00	1.00		1.00	1.00 .
		1.00	1.00		1.00	1.00		1.00	1.00		1.00	1.00
PHF Volume:		125	82		116	3	1	23	6	44	7	21
Reduct Vol:	0	_	0	0	0	0	Ō	-	. 0	0	0	0
Reduced Vol:			82	21		3		23	6	44	7	
		1.00	1.00		1.00			1.00			1.00	
MLF Adj:			1.00		1.00	1.00		1.00			1.00	1.00
Final Vol.:			82	21			. 1	23	6	. 44	7	21
]									1	1		
Saturation Flo												
			1.00					1.00		.1.00		
		0.60	0.39		0.83	0.02		0.77			0.10	0.29
Final Sat.:			343	121		17		560		449	71	214
				}								
Capacity Anal												
	0.24	0.24	0.24	0.17	0.17	0.17	0.04	0.04		0.10	0.10	0.10
Crit Moves:												8.1
	8.3		8.3	8.2	8.2	8.2	7.8		7.8	8.1		1.00
		1.00	1.00		1.00	1,00		1.00	1.00		1.00 B.1	8.1
	8.3 A	8.3 A	8.3	8.2 A		8.2 A	7.8	7.8 A	7.8 A	8.1 A	B.I	8.1 A
LOS by Move:	A	8.3	A	A	8 ¹ 2	A	A	7.8	A	A	8.1	A
ApproachDel:		1.00			1.00			1.00			1.00	
Delay Adj: ApprAdjDel:					8.2			7.8			8.1	
LOS by Appr:					8.2 A			7.8 A			a.ı	
nos ny wbbr:		A						A			~	

Level Of Service Computation Report 2000 HCM Unsignalized (Future Volume Alternative) Existing AM

Intersection #19: High/Western [N/S: Western E/w: High]



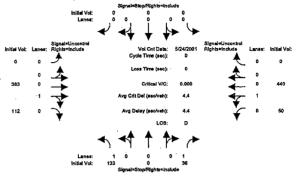
Approach: No	rth Bound	South B	ound	East Bound	West Bound
Movement: L	- T - R	L - T	- R L	- T - R	L - T - R
					
Volume Module: >>	Count Date	: 24 May 20	01 <<		
Base Vol: 89	0 18	0 0	0	0 334 78	43 334 0
Growth Adj: 1.00	1.00 1.00	1.00 1.00	1.00 1.0	0 1.00 1.00	1.00 1.00 1.00
Initial Bse: 89	0 18	0 0	ο.	0 334 78	43 334 0
Added Vol: 0	0 0	0 0	0	0 0 0	0 0 0
Campus Incr: 40	0 17	0 0	0	0 49 25	5 106 0
Initial Put: 129	0 35	0 0	0	0 383 103	48 440 0
User Adj: 1.00	1.00 1.00	1.00 1.00	1.00 1.0	0 1.00 1.00	1.00 1.00 1.00
PHF Adj: 1.00	1.00 1.00	1.00 1.00	1.00 1.0	0 1.00 1.00	1.00 1.00 1.00
PHF Volume: 129	0 35	0 0	0	0 383 103	48 440 0
Reduct Vol: 0	0 0	0 0	0	0 0 0	0 0 0
Final Vol.: 129	0 35	0 0	0	0 383 103	48 440 0
Critical Gap Modu	le:				
Critical Gp: 6.4	xxxx 6.2	XXXXX XXXX	XXXXX XXXXX	x xxxx xxxxx x	4.1 2000 2000
FollowUpTim: 3.5	xxxx 3.3	XXXXX XXXX	XXXXX XXXX	x xxxx xxxx x	2.2 20000 200000
		11			[
Capacity Module:			• •		
Cnflict Vol: 971	xxxx 435	XXXX XXXX	XXXXXX XXX	x xxxx xxxx x	486 2020 2000
Potent Cap.: 283	жжж 626	XXXX XXXX	XXXXXX XXX	× xxxx xxxx	1087 XXXX XXXXX
Move Cap.: 273	xxxx 626	XXXX XXXX	XXXXX XXX	X XXXXX XXXXXX X	1.087 30000 300000
Level Of Service	Module:				
Stopped Del: 29.4	XXXX 11.1	XXXX XXXXX	XXXXX XXXXX	x xxxx xxxxx x	8.5 XXXX XXXXX
LOS by Move: D	* B	* *	* *	* *	A * *
Movement: LT	- LTR - RT	LT - LTR	- RT LT	- LTR - RT	LT - LTR - RT
Shared Cap.: xxxx	XXXX XXXXX	XXXX XXXX	XXXXX XXX	x xxxx xxxxx	SCHOOL SCHOOL SCHOOL
Shrd StpDel:xxxxx	XXXX XXXX	XXXXX XXXX	XXXXX XXXX	x xxxx xxxx x	8.5 XXXX XXXXX
Shared LOS: *	* *	* *	* *	* *	A * *
ApproachDel:	25.5	XXXXXX		XXXXXX	XXXXXXX
ApproachLOS:	D	*		*	*

Level Of Service Computation Report

2000 HCM Unsignatized (Future Volume Alternative)

Ex + Ph 1 AM

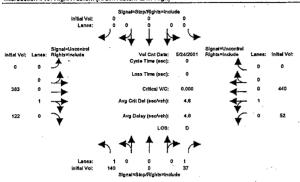
Intersection #19: High/Western [N/S: Western E/w: High]



			-									
Approach:	No	rth Bo	ound	Son	uth B	ound	E	ast B	ound	W	est B	ound
Movement:	L	- T	- R	L ·	- T	- R	L	- , т	- R	L	- т	- R
				11								
Volume Module	: : >>	Count	Date	: 24 M	ay 20	01 <<:						
Base Vol:	. 89	0	18	0	0	0	0	334	78	43	334	. 0
Growth 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
Initial Bse:	89	0	18	0	0	. 0	٥	334	78	43	334	0
Added Vol:	4	0	1	0	0	0	0	0	, 9	2		0
Campus Incr:	40	. 0	17	0	0	0	0	49	25	5	106	0
Initial Fut:	133	0	36		0	. 0	0	383				
User 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
PHF 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
PHF Volume:			36	0	0	0	0	383	112	50		0
Reduct Vol:			0	0	0	0	0	0	0	. 0	0	0
Final Vol.:	133	0	36	0	0.	. 0	0	383	112	50	440	0
Critical Cap												
Critical Gp:				XXXXXX	XXXX	XXXXX	XXXXX	XXXX	XXXXX	4.1	XXXX	XXXXX
FollowUpTim:									XXXXX			XXXXXX
				[
Capacity Mod												
Cnflict Vol:	979	XXXX			XXXX	XXXXX	XXXXX	XXXX	XXXXX			
Potent Cap.:						XXXXX			XXXXX			XXXXX
Move Cap.:						XXXXX			XXXXX		XXXX	XXXXXX
				,				,				
Level Of Serv												
Stopped Del:				XXXXXX	XXXX	XXXXX	XXXXXX	XXXXX	XXXXX			XXXXX
LOS by Move:			_		*			*		A		*
Movement:									- RT		LTR	
Shared Cap.:											XXXX	XXXXX
Shrd StpDel:	OOCK									8.5		XXXXX
Shared LOS:	*	*	*	*	*		*	*		A	*	*
ApproachDel:				×	CCCCC		×	CXXXX			CCCCC	
ApproachLOS:		D			*			*			*	

Level Of Service Computation Report
2000 HCM Unsignalized (Future Volume Attamative)
Ex + Ph 1 + Ph 2 AM

Intersection #19: High/Western [N/S: Western E/w: High]



Movement:	Approach:	No:	rth Bo	ound	Sou	uth B	ound	E	ast Bo	ound	W	est Bo	ound
Volume Module: >> Count Date: 24 May 2001 << Base Vol: 89 0 18 0 0 0 0 0 334 78 43 334 0 Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Movement:	L ·	- т	- R	L.	- т	- R	L ·	- T	- R	L ·	- Т	- R
Volume Module: >> Count Date: 24 May 2001 << Base Vol: 89 0 18 0 0 0 0 0 334 78 43 334 0 Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0								1					
Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Volume Module	: >>	Count	Date:				•					
Initial Bae: 89 0 18 0 0 0 0 0 334 78 43 334 0 Added Vol: 11 0 2 0 0 0 0 0 0 19 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Base Vol:	89	0	18	0	0	0	0	334	78	43	334	٥
Added Vol: 11 0 2 0 0 0 0 0 19 4 0 0 0 Campus Incr: 40 0 17 0 0 0 0 0 49 25 5 106 0 0 Initial Fut: 140 0 37 0 0 0 0 0 48 25 5 106 0 User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Growth 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
Campus Incr: 40	Initial Bse:	89	0	18	0	0	0	0	334	78	43	334	0
Initial Fut: 140 0 37 0 0 0 0 383 122 52 440 0 User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Added Vol:	11	0	2	0	0	0	0	o	19	4	0	0 ′
User Adj;	Campus Incr:	40	0	17	0	0	0	0	49	. 25	5	106	0
PHF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Initial Fut:	140	0	37	0	0	0	0	383	122	52	440	` 0
PHF Volume: 140 0 37 0 0 0 0 383 122 52 440 0 Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	User 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
Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PHF 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
Final Vol.: 140 0 37 0 0 0 0 383 122 52 440 0 Critical Gap Module: Critical Gp: 6.4 MOOK 6.2 MOOK MOOK MOOK MOOK MOOK MOOK 4.1 MOOK MOOK MOOK MOOK MOOK MOOK MOOK MOO	PHF Volume:	140	0	137	0	0	0	0	383	122	52	440	0
Critical Gap Module:	Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Critical Gp: 6.4 MOKK	Final Vol.:	140	o	37	0	0	0	0	383	122	52	440	. 0
Capacity Module: Capacity Mo	Critical Gap	Modu.	le:										
Capacity Module: Cnflict Vol: 988 XXXX 444 XXXX XXXX XXXXX XXXXX XXXXX XXXXX XXXXX	Critical Gp:	6.4	XXXX	6.2	XXXXX	XXXX	XXXXX	XXXXXX	xxxx	XXXXX	4.1	xxxx	XXXXX
Capacity Module: Cnflict Vol: 988 xxxx	FollowUpTim:	3.5	XXXX	3.3	xxxxx	xxxx	XXXXX	XXXXXX	XXXX	XXXXX	2.2	XXXX	XXXXX
Chilict Vol: 988 xxxx					11				. <i></i> -				
Potent Cap : 276 KKKK 618 KKKK KKKKK KKKKK KKKKK KKKKK KKKKK KKKK	Capacity Modu	1e:											
Move Cap.: 266 xxxxx 618 xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxx	Cnflict Vol:	988	xxxx	444	XXXX	хххх	XXXXXX	XXXX	XXXX	XXXXX	505	xxxx	XXXXX
Level Of Service Module: Stopped Del: 32.7 XXXX 11.2 XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX XXXX	Potent Cap.:	276	XXXX	618	XXXX	xxxx	XXXXX	XXXX	XXXX	XXXXX	1070	XXXX	XXXXX
Stopped Del: 32.7 xxxxx	Move Cap.:	266	XXXX	618	XXXX	XXXXX	XXXXX	XXXXX	XXXX	XXXXXX	1070	XXXX	XXXXXX
Stopped Del: 32.7 xxxxx										i			
LOS by Move: D * B * * * * * * * * * A * * * * * * * *	Level Of Serv	ice !	Module	e: '									
Movement:	Stopped Del:	32.7	XXXX	11.2	XXXXX	XXXX	XXXXX	XXXXX	XXXX	XXXXXX	8.5	XXXXX	XXXXXXX
Shared Cap.: XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX XXXXXX XXXXXX XXXXXX XXXXXXX XXXXXXX XXXXXXX XXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	LOS by Move:	D	*	В	*	*	*	*	*	*	A	*	*
Shrd StpDel: 200000 100000 100000 100000 100000 10000 10000 10000 10000 8.5 1000 1000000	Movement:	LT	- LTR	- RT	LT ·	- LTR	- RT	LT	LTR	- RT	LT ·	- LTR	- RT
Shared LOS: * * * * * * * * * * * A * * ApproachDel: 28.2 XXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXX	Shared Cap.:	xxxx	XXXX	XXXXX	XXXX	XXXXX	XXXXX	XXXX	XXXX	XXXXX	XXXXX	XXXXX	XXXXXX
ApproachDel: 28.2 XXXXXX XXXXXX XXXXXX	Shrd StpDel:x	xxxx	xxxx	XXXXX	XXXXX	20000	XXXXX	2000000	xxxx	XXXXXX	8.5	ж	XXXXX
	Shared LOS:		*	*	*	*	*	*	*		A	*	*
	ApproachDel:		28.2		x	xxxxx		x	XXXXX		30	aaxx	
	ApproachLOS:		D			F			*			*	

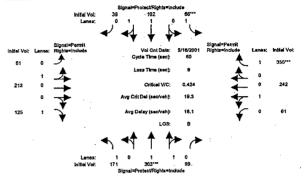
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Marine Science Center

November 2003

Level Of Service Computation Report
2000 HCM Operators (Future Volume Alternative)
Existing AM

Intersection #20: High/Bay [N/S: Bay E/w: High]

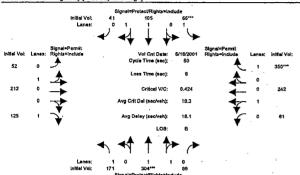


Approach:	No	rth Bo			ath Bo				ound		est Bo	
Movement:	L ·		- R			~ R			- R	Ł.	- т	- R
	1											
	· 0		0	. 0					. 0	0	0	
									·			
Volume Module	ė: >,>	Count	Date:	16 M	ay 200	1 <<						
Base Vol:	171	303	99	66	102	39	51	212	125	61	242	350
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	171	303	99	66	102	39	51	212	125	61	242	350
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	(
Campus Incr:	0	0	0		0	0	0	0	0	0	0	(
Initial Fut:	171	303	99 '	66	102	39	51	212	125	61	242	350
User 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
PHF 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
PHF Volume:	171	303	99	66	102	39	51	212	125	61	242	350
Reduct Vol:	0	0	0	. 0	0	0	0	ò	0	0	0	
Reduced Vol:	171	303	99	66	102	39	51	212	125	61	242	350
PCE Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF 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
Final Vol.:	171		99		102			212	125		242	350
	1		1									
Saturation F	low M	dule:										
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.93	0.90	0.90	0.93	0.89	0.89	0.88	0.88	0.83	0.88	0.88	0.83
Lanes:	1.00	1.51	0.49	1.00	1.45	0.55	0.19	0.81	1.00	0.20	0.80	1.00
Final Sat.:	1769	2568	839	1769	2452	937		1346			1330	1583
					<i>-</i> -							
Capacity Ana	İysis	Modul	e: ˈ	•			•		٠			
Vol/Sat:	0.10	0.12	0.12	0.04	0.04	0.04	0.16	0.16	0.08	0.18	0.18	0.22
Crit Moves:		****		****								***
Green/Cycle:	0.26	0.28	0.28	0.09	0.11	0.11	0.52	0.52	0.52	0.52	0.52	0.5
Volume/Cap:			0.42	0.42	0.38	0.38	0.30	0.30	0.15	0.35	0.35	0.42
Delay/Veh:			23.9	36.4	33.7	33.7	11.1	11.1	10.0		11.4	12.
User DelAdj:			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.0
AdjDel/Veh:			23.9	36.4	33.7	33.7	11.1	11.1	10.0	11.4	11.4	12.3
DesignQueue:		10	3	3	4	2	1	5	3	1	5	

Traffix 7,5.0715

Level Of Service Computation Report 2000 HCM Operations (Future Volume Allen Ex + Ph 1 AM

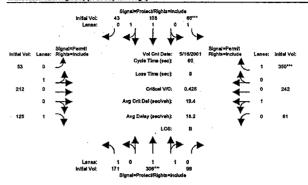
Intersection #20: High/Bay [N/S; Bay E/w: High]



Approach:	No	rth Bo	ound	So	uth Bo	ound	E	ast Bo	ound	W	est Bo	ound
Movement:			- R			- R		- т	- R	L	- T	- R
	.											
Min. Green:		0				0		, 0	0			
					~ -							
Volume Modul	.ė. >>	Count	: Date:	16 M	ay 200	01 << '						
Base Vol:	171	303	99	66	102	39	51	212	125	61	242	350
Growth 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
Initial Bse:	171	303	99	66	102	39	51	212	125	61	242	350
Added Vol:	0	. 1	0	0	3	2	1	0	0	0	0	0
Campus Incr:	0	0	0	0	0	0	0	0	. 0	0	0	Ò
Initial Fut:	171	304	. 99	66	105	41	52	212	125	61	242	350
User 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
PHF 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
PHF Volume:	171	304	99	66	105	41	52	212	125	61	242	350
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	171	304	99	66	105	41	52	212	125	61	242	350
PCE 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
MLF 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
Final Vol.:	171	304	99	66	105	41	52	212	125	61	242	350
					 -					11		
Saturation F	low M	odule:					•			•		•
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.93	0.90	0.90	0.93	0.89	0.89	0.87	0.87	0.83	0.88	0.88	0.83
Lanes:	1.00	1.51	0.49	1.00	1.44	0.56	0.20	0.80	1.00	0.20	0.80	1.00
Final Sat.:	1769	2570	837	1769	2437	952	327	1334	1583	335	1330	1583
										1		
Capacity Ana	iysis	Modu1	Le:				•		'	•		•
Vol/Sat:	0.10	0.12	0.12	0.04	0.04	0.04	0.16	0.16	0.08	0.18	0.18	0.22
Crit Moves:		***		****								****
Green/Cycle:	0.25	0.28	0.28	0.09	0.11	0.11	0.52	0.52	0.52	0.52	0.52	0.52
Volume/Cap:	0.38	0.42	0.42	0.42	0.38	0.38	0.31	0.31	0.15	0.35	0.35	0.42
Delay/Veh:		23.9		36.4	33 .5	33.5	11.1	11.1	10.1	11.5	11.5	12.1
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	25.2	23.9	23.9	36.4	33.5	33.5	11.1	11.1	10.1	11.5	11.5	12.1
DesignOueue:	6	10	3	3	4	. 2	1	5	3	1	5	8

Level Of Service Computation Report 2000 HCM Operations (Future Volume Attenuative) Ex + Ph 1 + Ph 2 AM

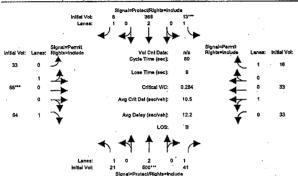
Intersection #20: High/Bay [N/S: Bay E/w: High]



Approach: N	orth Bound	South Bound	East Bound	West Bound
	- T - R	L - T - :	R L - T - R	L - T - R
	0 0	. 0 0	0 0 0	
			·-	
Volume Module: >				
Base Vol: 17			39 51 212 1 2 5	
	0 1.00 1.00	1.00 1.00 1.		
Initial Bse: 17			39 51 212 125	
	3 0		4 2 0 0	
	0 0		0 0 0 0	
Initial Fut: 17			13 53 212 125	
	1.00 1.00	1.00 1.00 1.0		
	1.00 1.00	1.00 1.00 1.0		
PHF Volume: 17		66 108	3 53 212 125	61 242 350
	0 0	0 0	0 0 0 0	
Reduced Vol: 17	1 306 99	66 108	13 53 212 125	61 242 350
PCE Adj: 1.0	1.00 1.00	1.00 1.00 1.0	0 1.00 1.00 1.00	1.00 1.00 1.00
MLF Adj: 1.0	1.00 1.00	1.00 1.00 1.0	0 1.00 1.00 1.00	1.00 1.00 1.00
Final Vol.: 17			3 53 212 125	61 242 350
Saturation Flow !	dodule:			
Sat/Lane: 190	1900 1900	1900 1900 19		
Adjustment: 0.9	3 0.90 0.90	0.93 0.89 0.1	89 0.87 0.87 0.83	0.88 0.88 0.83
Lames: 1.0	1.51 0.49	1.00 1.43 0.5	7 0.20 0.80 1.00	0.20 0.80 1.00
Final Sat.: 176	2574 833	1769 2422 90	4 332 1327 1583	335 1330 1583
Capacity Analysis	Module:	•	• •	
Vol/Sat: 0.1	0.12 0.12	0.04 0.04 0.0	4 0.16 0.16 0.08	0.18 0.18 0.22
Crit Moves:	****	****		***
Green/Cycle: 0.2	0.28 0.28	0.09 0.12 0.3	12 0.52 0.52 0.52	0.52 0.52 0.52
Volume/Cap: 0.3	3 0.43 0.43	0.43 0.38 0.3	8 0.31 0.31 0.15	0.35 0.35 0.43
Delay/Veh: 25.	23.9 23.9	36.5 33.3 33	3 11.2 11.2 10.1	11.5 11.5 12.2
User DelAdj: 1.0	1.00 1.00	1.00 1.00 1.0	0 1.00 1.00 1.00	1.00 1.00 1.00
AdjDel/Veh: 25.	23.9 23.9	36.5 33.3 33	3 11.2 11.2 10.1	11.5 11.5 12.2
DesignQueue:	5 10 3	3 4	2 1 5 3	1 5 8

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Existing AM

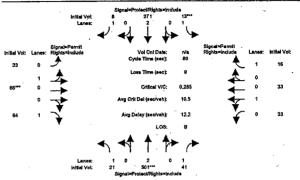
Intersection #21: Bay/lowa [N/S: Bay E/w: lowa]



Approach: No	orth Bound	South Bo	und	East Bo	und	West Bo	nund .
Movement: L			- R			- T	- R
			1		11		
Min. Green:		'` 0 0	0	0 0	۰''	0 0	۰'
Volume Module:	'			•			•
Base Vol: 21	500 41	13 368	8.	33 68	64	33 33	16
Growth 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
Initial Bse: 21	500 41	13 368	8	33 68	64	33 33	16
Added Vol: 0	0 0	0 0	0	0 0	0	0 0	0
Campus Incr: () · 0 0	0 0	0	0 0	0	0 0	0
Initial Fut: 21	500 41	13 368	8	33 68	64	33 33	16
User 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
PHF Adj: 0.83	0.83 0.83	0.83 0.83	0.83	0.83 0.83	0.83 0.	83 0.83	0.83
PHF Volume: 25	602 49	16 443	10	40 82	77	40 40	19
Reduct Vol: 0	0 0	0 0	0	0 0	0	0 0	. 0
Reduced Vol: 25	602 49	16 443	10	40 82	77	40 40	19
PCE 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
MLF 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
	602 49	16 443	10	40 82	77	40 40	19
Saturation Flow N	todule:						
Sat/Lane: 1900	1900 1900	1900 1900	1900	1900 1900		00 1900	1900
Adjustment: 0.93	0.93 0.83	0.93 0.93	0.83	0.88 0.88		82 0.82	0.83
Lanes: 1.00	2.00 1.00	1.00 2.00	1.00	0.33 0.67		50 0.50	1.00
Final Sat.: 1769	3538 1583	1769 3538	1583	544 1121	1583 7	79 779	1583
				1	·		
Capacity Analysis	Module:						
Vol/Sat: 0.01	L 0.17 0.03	0.01 0.13	0.01	0.07 0.07	0.05 0.	05 0.05	0.01
Crit Moves:	****	****		****			
Green/Cycle: 0.06		0.03 0.57	0.57	0.26 0.26		26 0.26	0.26
Volume/Cap: 0.22	0.28 0.05	0.28 0.22	0.01	0.28 0.28		20 0.20	0.05
Delay/Veh: 36.5		40.7 8.7	7.6	24.2 24.2		.5 23.5	22.4
User DelAdj: 1.00		1.00 1.00	1.00	1.00 1.00		00 1.00	1.00
AdjDel/Veh: 36.9		40.7 8.7	7.6	24.2 24.2		.5 23.5	22.4
DesignQueue:	1 11 1	1 9	0	1 3	3	1 1	1

Level Of Service Computation Report
2000 HCM Operations (Future Volume Atternative)
Ex + Ph 1 AM

Intersection #21: Bay/lowa [N/S: Bay E/w: Iowa]



Approach:	No:	rth Bo	und	Sou	ith Bo	und	Εá	ist Bo	und	We	est Bo	ound
Movement:			- R			- R		- т			- Т	
	1									-		
Min. Green:	. 0	0	0	0	. 0	0	0	0	0	0		
]	- -										
Volume Module	ė:											
Base Vol:	21		41	13		8	33	68	64	33	33	16
Growth Adj:	1.00		1.00	1.00				1.00	1.00		1.00	
Initial Bse:	21	500	41	13	368	8	33	68	64		33	16
Added Vol:	0	1	0	0	3	. 0	0		0		. 0	0
Campus Incr:	0	0	0			. 0	0		0	0		0
Initial Fut:	21	501					33		64	33		
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00		1.00	1.00
PHF Adj:	0.83	0.83	0.83	0.83	0.83	0.83		0.83	0.83			0.83
PHF Volume:	25	604	49	16	447	10	40	82	77	40	40	19
Reduct Vol:	0	0	0	0	0	0	0	. 0	0	0	0	0
Reduced Vol:	25	604	49	16	447	10	40	82	77	40		
PCE Adi:	1,00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00
Final Vol::		604			447		40		77	40		19
				1								
Saturation F	iow M	odule:		•								
Sat/Lane:			1900								1900	
Adjustment:	0.93	0.93	.0.83	0.93	0.93	0.83	0.88	0.88	0.83	0.82	0.82	
Lanes:			1.00								0.50	
Final Sat.:	1769	3538	1583	1769	3538	1583	544	1121	1583		779	
Capacity Ana	lysis	Modu.	le:			1						
Vol/Sat:	0.01		0.03		0.13	0.01	0.07		0.05	0.05	0.05	0.01
Crit Moves:		****		****				****				
Green/Cycle:	0.06	0.60					0.26	0.26	0.26	0.26	0.26	
Volume/Cap:	0.22	0.28		0.28					0.19		0.20	
Delay/Veh:				40.7					23.4		23.5	
User DelAdj:	1.00	1.00			1.00		1.00		1.00		1.00	
AdjDel/Veh:	36.5	7.8	6.6		8.7		24.2		23.4		23.5	
DesignQueue:	1	11	1	1	9	0	1	3	3	. 1	1	1
=												

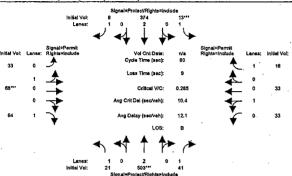
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Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex + Ph 1 + Ph 2 AM

Intersection #21: Bay/lowa [N/S: Bay E/w: lowa]

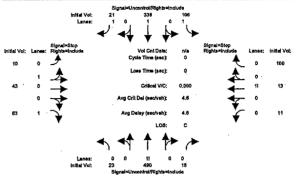


Approach:	No	rth B	ound	So	ith Bo	ound	E	ast Bo	und	We	est Bo	ound
Movement:	·L	- T	- R	ь	- T	- R	L.	- т	- R	L -	· T	- R
Min. Green:		. 0		. 0		o ·			oʻ	. 0		oʻ
									1			
Volume Module	ė:			•			•			•		
Base Vol:	21	500	41	13	368	8	33	68	.64	33	33	16
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	21	500	41.	1.3	368	8	33	68	64	. 33	33	16
Added Vol:	0	3	0	0	6	0	0	0	0	Ð	0.	0
Campus Incr:	0	0	0	0	0	0	0	0	0	٥	0	0
Initial Fut:	21	503	41	13	374	8.	33	68	64	33	33	16
User 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
PHF Adj:	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
PHF Volume:	25	606	49	16	451	10	40	82	77.	40	40	19
Reduct Vol:	0	0	0	0	. 0	0	0	0	0	0	0	. 0
Reduced Vol:	25	606	49	16	451	10	40	82	77	40	40	19
PCE 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
MLF 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
Final Vol.:	25	606	49	. 16	451	10	40	82	77	40	40	19
				1		1	1					1
Saturation F	low M	dule	. '							•		
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.93	0.93	0.83	0.93	0.93	0.83	0.88	0.88	0.83	0.82	0,82	0.83
Lanes:	1.00	2.00	1.00	1.00	2.00	1.00	0.33	0.67	1.00	0.50	0.50	1.00
Final Sat::	1769	3538	1583	1769	3538	1583	544	1121	1583	779	779	1583
							1					1
Capacity Ana:	İysis	Modu.	le:	•		•	•			•		
Vol/Sat:	0.01	0.17	0.03	0.01	0.13	0.01	0.07	0.07	0.05	0.05	0.05	0.01
Crit Moves:		***		****				****				
Green/Cycle:	0.06	0.60	0.60	0.03	0.57	0.57	0.26	0.26	0.26	0.26	0.26	0.26
Volume/Cap:			0.05	0.29	0.22	0.01	0.29	0.29	0.19	0.20	0.20	0.05
Delay/Veh:	36.6	7.8	6.6	40.7	81.6	7.5	24.2	24.2	23.5	23.6	23.6	22.5
User DelAdi:		1.00	1.00		1.00	1.00		1.00-	1.00	1.00		1.00
AdjDel/Veh:	36.6	7.8	6.6	40.7	8.6	7.5		24.2	23.5	23.6		22.5
DesignOueue:	1	1.1	1	1	_			3		1		1

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Level Of Service Computation Report 2000 HCM Unalgnatized (Future Volume Atternative) Existing AM

Intersection #22: Bay/Escalona [N/S: Bay E/w: Escalana]



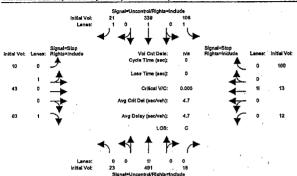
-												
Approach:	No	rth B	ound	So	uth B	ound	E	ast B	ound	W	est B	ound
Movement:												
				11								
Volume Module	ė:											
Base Vol:	23	490	18	106	336	21	10	43	63	11	13	100
Growth Adj:	1.00	1.00	1.00					1.00			1.00	
Initial Bse:	23	490	18	106	336	21	10	43	63	11	13	100
Added Vol:	0	0	0	0	. 0	0	0			0		
Campus Incr:								0	0	0	0	0
Initial Fut:	23	490	18	106	336	21	10	43	63	11	13	100
User 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
PHF 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
PHF Volume:					336							100
Reduct Vol:				0	o	0	0	0	0	. 0	0	0
Final Vol.:	23	490	18	106	336	21	10	43	63	11	13	100
Critical Gap												
Critical Gp:	4.1	XXXXX	200000	4.1	XXXXX	XXXXX	7.1	6.5	6.2	7.1	6.5	
FollowUpTim:						XXXXX				3.5		
Capacity Mod												
Cnflict Vol:										1157		
Potent Cap.:										175		
Move Cap.:										120		
				{								
Level Of Ser												
Stopped Del:												
LOS by Move:						*			_	*		
Movement:												
Shared Cap.:												
Shrd StpDel:												
Shared LOS:			*			*	Œ			*	C	*
ApproachDel:				ж				21.7			19.6	
ApproachLOS:		*			*			С			C	

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ei Of Service Computation Report

Intersection #22: Bay/Escalona [N/S: Bay E/w: Escalana]



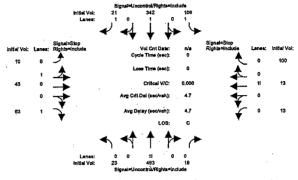
Approach:	No	rth B	ound	Son	ith B	ound	E	ast Bo	ound	We	est Bo	ound
Movement:	L	- T	- R	L ·	- T	- R	L.	- T	- R	ъ.	- T	- R
	1											
Volume Modul	ė:											
Base Vol:	23	490	18	106	336	21	10	43	63	11	13	100
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	23	490	18	106	336	21	10	43	63	11	13	- 100
Added Vol:	0	1	0	0	3	0	0	. 0	. 0	1	. 0	0
Campus Incr:	. 0	0	0	0	. 0	0	0	. 0	0	0	0	0
Initial Put:	23	491	18	106	339	21	1.0	43	63	12	13	100
User 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
PHF 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
PHF Volume:	23	491	18	106	339	21	10	43	63	12	13	100
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Final Vol.:	23	491	18	106	339	21	10	43	63	12	13	100
Critical Gap	Modu	le:										
Critical Gp:	4.1	XXXX	XXXXXX	4.1	XXXXX	XXXXXX	7.1	6.5	6.2	7.1	6.5	6.2
FollowUpTim:	2.2	XXXX	XXXXX	2.2	XXXX	XXXXX	3.5	4.0	3.3	3.5	4.0	3.3
	1											
Capacity Mod	ule:					•	-					-
Cnflict Vol:	360	XXXX	XXXXX	509	xxxx	XXXXX	1154	1106	339	1161	1118	500
Potent Cap.:	1210	xxxx	xxxxx	1066	XXXX	xxxxx	176	212	708	174	209	575
Move Cap.:	1210	XXXX	XXXXX	1066	XXXX	XXXXX	125	187	708	119	184	575
]								
Level Of Ser	vice :	Modul	e:									
Stopped Del:	8.0	XXXX	XXXXX	8.7	XXXX	XXXXX	XXXXX	XXXX	10.6	XXXXX	XXXX	XXXXX
LOS by Move:	A	*	*	A	*	*	*	*	В	*	*	*
Movement:	LT	- LTR	- RT	LT ·	- LTR	- RT	LT ·	- LTR	- RT	LT ·	- LTR	- RT
Shared Cap.:	XXXX	XXXX	xxxxx	XXXX	XXXX	XXXXX	171	XXXX	XXXXXX	30000	362	XXXXX
Shrd StpDel:	XXXXX	xxxx	xxxxx	XXXXX	XXXX	XXXXX	35.1	xxxx	XXXXX	XXXXXX	20.1	XXXXX
Shared LOS:	*	*	*	*	*	*	E	*	*	*	C	*
ApproachDel:	x	XXXXX		30	00000			21.8			20.1	
ApproachLOS:		*			ŕ			c			C	
					- 1							

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Level Of Service Computation Report
2000 HCM Unsignalized (Future Volume Alternative)
Ex+Ph 1+Ph 2 AM

Intersection #22: Bay/Escalona [N/S: Bay E/w: Escalana]



			Signalet	J neontro/Pi	ghts#Indu	klė							
Approach:	ио:	rth Bo	bruc			ound			ound		est B	ound	
Movement:			- R			- R						- R	
					,								l
Volume Module	e:												
Base Vol:		490		106	336	21	10	43		11	13	100	
Growth 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	
Initial Bse:	23	490	18	106	336	21	10	43	63	11	13	100	
Added Vol:	0	3	1	. 0	6	. 0	Ö	0	0	2	0	0	
Campus Incr:		0	0	0	0	0	0	0	0	0	0	0	
Initial Fut:	` 23	493					10	43	63	13	13		
User 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	
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	
PHF Volume:	23	493	19	106	. 342	21	` 10	43	63	13	13	100	
Reduct Vol:	0	0	0	0	O	0	. 0	0	0	0	0	0	
Final Vol.:	23	493	19	. 106	342	21	10	4.3	63	13	13	100	
Critical Gap	Modu.	le: ˈ											
Critical Gp:	4.1	XXXXX	XXXXXX	4.1	XXXXX	XXXXX	7.1	6.5	6.2	7.1	6.5	6.2	
FollowUpTim:	2.2	XXXX	XXXXXX			XXXXX			3.3		4.0		
						,							
Capacity Modi	ule:												
Cnflict Vol:	363	XXXXX	XXXXXX	512	XXXX	XXXXXX	1159	1112	342	1166	1124	. 503	
Potent Cap.:	1207	XXXX	2000000	1064	XXXX	2000000	174	211	705	172	207	573	
Move Cap.:	1207	XXXX	XXXXX	1064	xxxx	XXXXX	124						
Level Of Ser													
Stopped Del:	8.0	XXXX	XXXXX	8.8	XXXX	XXXXXX	XXXXX	XXXX	10.6	XXXXX	XXXX	XXXXX	
LOS by Move:	A	*	*	A			· *		В		*		
Movement:											- LTR	- RT	
Shared Cap.:	XXXX	XXXX	XXXXX	30000	XXXX	XXXXXX						XXXXXX	
Shrd StpDel:	xxxxxx	XXXX	XXXXX	XXXXXX	XXXX	XXXXXX	35.5	XXXX	XXXXX	XXXXX		XXXXXX	
Shared LOS:	*		*	*	*	*	E	*	*	*	С	*	
ApproachDel:	ж	ххххох		×	XXXXX	1		22.0			20.7		
ApproachLOS:		*			*			C			С		

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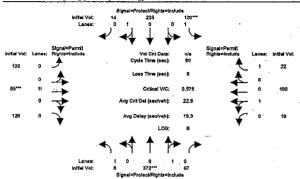
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November 2003

November 2003
Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Extend AM

Intersection #23: Bay/King [N/S: Bay E/w: King]



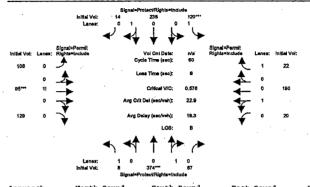
Movement: L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R Min. Green:	Approach:	No	rth Bo	ound		ath Bo		E	ast Bo	und	W	est Bo	ound
Min. Green: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Movement:	ъ.	- т	- R	ъ	т	- R	ь	- T	- R	L ·	- Т	- R
Volume Module: Base Vol: 8 372 67 120 235 14 106 95 129 19 190 22 Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0					1								
Volume Module: Base Vol: 8 8 372 67 120 235 14 106 95 129 19 190 22 Growth Add: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0									0	oʻ	Ċ	0	0
Base Vol: 8 372 67 120 235 14 106 95 129 19 190 22 Added Vol: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0													
Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Volume Module	9:		•	•								
Initial Base: 8 372 67 120 235 14 106 95 129 19 190 22 Added Vol: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Base Vol:	8	372	67	120	235	14	106	95	129	19	190	22
Added Vol: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Growth 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
Campus Incr: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Initial Bse:	. в	372	67	120	235	14	106	95	129	19	190	22
Initial Fut: 8 372 67 120 235 14 106 95 129 19 190 22 User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Added Vol:	0	0	0	. 0	0	0	0	0	0	0	0	0
User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Campus Incr:	0	0	0	0	0	0	0	0	0	0	0	0
PHF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Initial Fut:	8	372	67	120	235	14	106	95	129	19	190	22
PHF Volume: 8 372 67 120 235 14 106 95 129 19 190 22 Reduced Vol: 8 372 67 120 235 14 106 95 129 19 190 22 PCE Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	User 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
Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PHF 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
Reduced Vol: 8 372 67 120 235 14 106 95 129 19 190 22 PCE Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	PHF Volume:	8	372	67	120	235	14	106	95	129	19	190	22
PCE Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Reduct Vol:	0	0	. 0	0	0	0	0	0	0	. 0	0	. 0
MLF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Reduced Vol:	8	372	67	120	235	14	106	95	129	19	190	22
Final Vol.: 8 372 67 120 235 14 106 95 129 19 190 22	PCE 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
Saturation Flow Module: Sat/Lane: 1900 1900 1900 1900 1900 1900 1900 190	MLF 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
Saturation Flow Module: Sat/Lane: 1900 1900 1900 1900 1900 1900 1900 190	Final Vol.:	8	372	67	120	235	14	106	95	129	19	190	. 22
Sat/Lane: 1900 1900 1900 1900 1900 1900 1900 190													
Adjustment: 0.93 0.96 0.96 0.93 0.97 0.97 0.78 0.78 0.78 0.78 0.94 0.94 0.83 Lanes: 1.00 0.85 0.15 1.00 0.94 0.06 0.32 0.29 0.39 0.09 0.01 1.00 Final Sat: 1769 1542 278 1769 1743 104 476 427 580 163 1628 1583 1	Saturation F	Low Mo	dule:										
Lanes: 1.00 0.85 0.15 1.00 0.94 0.06 0.32 0.29 0.39 0.09 0.91 1.00 Final Sat: 1769 1542 278 1769 1743 104 476 427 580 163 1628 1583 1.00 0.00 0.24 0.24 0.07 0.13 0.13 0.22 0.22 0.22 0.12 0.12 0.01 Crit Moves: **** Green/Cycle: 0.02 0.42 0.42 0.42 0.12 0.52 0.52 0.39 0.39 0.39 0.39 0.39 volume/Cap: 0.26 0.57 0.57 0.57 0.26 0.26 0.57 0.57 0.57 0.57 0.57 0.57 0.57 0.57	Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Final Sat: 1769 1542 278 1769 1743 104 476 427 580 163 1628 1583	Adjustment:	0.93	0.96	0.96	0.93	0.97		0.78	0.78		0.94	0.94	
Capacity Analysis Module: Vol/Sat: 0.00 0.24 0.24 0.07 0.13 0.13 0.22 0.22 0.22 0.12 0.12 0.01 Crit Moves: **** **** **** Volume/Cap: 0.26 0.57 0.57 0.57 0.26 0.26 0.57 0.57 0.57 0.30 0.30 0.39 Volume/Cap: 0.26 0.57 0.57 0.57 0.26 0.26 0.57 0.57 0.57 0.30 0.30 0.04 Delay/Veh: 43.2 18.8 18.8 37.3 10/.8 10.8 20.8 20.8 20.8 17.3 17.3 15.3 User Deladj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Lanes:	1.00	0.85	0.15	1.00	0.94	0.06	0.32	0.29	0.39	0.09	0.91	1.00
Capacity Analysis Module: Vol/Sat: 0.00 0.24 0.24 0.07 0.13 0.13 0.22 0.22 0.22 0.12 0.12 0.01 Crit Moves: **** Green/Cycle: 0.02 0.42 0.42 0.12 0.52 0.52 0.39 0.39 0.39 0.39 0.39 Volume/Cap: 0.26 0.57 0.57 0.57 0.26 0.26 0.57 0.57 0.57 0.57 0.57 0.57 Delay/Veh: 43.2 18.8 18.8 37.3 10.8 10.8 20.8 20.8 20.8 20.8 17.3 17.3 17.3 15.3 User DelAdj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0									427	580	163	1628	
Vol/Sat: 0.00 0.24 0.24 0.07 0.13 0.13 0.22 0.22 0.22 0.12 0.12 0.01 Crit Moves: **** **** **** **** **** **** **** *]								
Crit Moves: **** **** **** **** **** **** Green/Cycle: 0.02 0.42 0.42 0.12 0.52 0.52 0.39 0.39 0.39 0.39 0.39 0.39 Volume/Cap: 0.26 0.57 0.57 0.57 0.26 0.26 0.57 0.57 0.57 0.30 0.30 0.04 Delay/Veh: 43.2 18.8 18.8 37.3 10.8 10.8 20.8 20.8 20.8 17.3 17.3 17.3 15.3 User DelAdj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0													
Green/Cycle: 0.02 0.42 0.42 0.12 0.52 0.52 0.39 0.39 0.39 0.39 0.39 volume/Cap: 0.26 0.57 0.57 0.57 0.26 0.26 0.57 0.57 0.57 0.50 0.26 0.57 0.57 0.57 0.57 0.57 0.57 0.57 0.57	. Vol/Sat:	0.00	0.24	0.24	0.07	0.13	0.13	0.22	0.22	0.22	0.12	0.12	0.01
Volume/Cap: 0.26 0.57 0.57 0.57 0.57 0.26 0.26 0.57 0.57 0.57 0.50 0.30 0.04 Delay/Veh: 43.2 18.8 18.8 37.3 10.8 10.8 20.8 20.8 20.8 20.8 17.3 17.3 17.3 15.3 User Deladj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0					****				****				
Delay/Veh: 43.2 18.8 18.8 37.3 10.8 10.8 20.8 20.8 20.8 17.3 17.3 15.3 User DelAdj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0					0.12	0.52		0.39	0.39				
User DelAdj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0										0.57			
					37.3	10.8	10.8	20.8	20.8	20.8	17.3	17.3	15.3
		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
				18.8			10.8			20.8		17.3	15.3
DesignQueue: 0 10 2 5 5 0 3 3 4 1 5 1	DesignQueue:	0	10	2	. 5	5	0	. 3	. 3	. 4	1	5	1

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Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex + Ph 1 AM

Intersection #23: Bay/King [N/S: Bay E/w: King]-

COMPARE

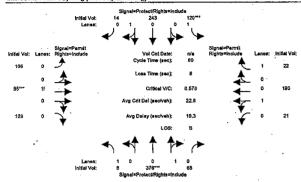


Approach:	No	rth Bo	ound		ith Bo			ast Bo		We	est Bo	ound
Movement:			- R			- R		- T			- т	
						}	1					
Min. Green:		0			. 0		0		0	0		0
				}]		}			
Volume Module		1										
Base Vol:	8		67	120	235		106	95	129		190	22
Growth Adj:		1.00			1.00	1.00	1.00		1.00		1.00	1.00
Initial Bse:				120	235	14	106	95	129	19	190	22
	0		0	0	. 3	0	0		0	1	0	0
Campus Incr:				0	0	0	0	0	0	0	-	0
Initial Fut:							106	95				22
User Adj:		1.00				1.00		1.00	1.00		1.00	1.00
PHF Adj:		1.00			1.00	1.00		1.00	1.00		1.00	1.00
PHF Volume:			67	120		14	106		129	20	190	22
Reduct Vol:		0	0	0	Ó	0	0	-	0	0	0	0
Reduced Vol:		374					106		129		190	
PCE Adj:			1.00				1.00				1.00	
MLF Adj:			1.00				1.00		1.00		1.00	
Final Vol.:	8	374	67		236		106		129	20		
Saturation F												
Sat/Lane:						1900					1900	1900
Adjustment:			0.96				0.78				0.94	0.83
Lanes:				1.00		0.06		0.29	0.39		0.90	1.00
Final Sat.:		1543			1744	103		427	580		1612	1583
				}								
Capacity Ana												
Vol/Sat:			0.24		0.14	0.14	0.22		0.22	0.12	0.12	0.01
Crit Moves:		****		****				****				
Green/Cycle:							0.39				0.39	
Volume/Cap:							0.58				0.31	0.04
Delay/Veh:							20.8				17.3	
User DelAdj:							1.00				1.00	
AdjDel/Veh:							20.8				17.3	15.3
DesignQueue:	0	10	2	. 5	5	. 0	3	3	4	. 1	5	1

Wed Nov 28 10:35:56 2003

Level Of Service Computation Report
2000 HCM Operations (Future Volume Allernative)
Ex+Ph 1+Ph 2AM

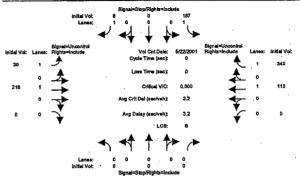
Intersection #23: Bay/King [N/S: Bay E/w: King]



Approach:	No	rth B	ound	Son	ath Bo	und	E	ast Bo	und	We	est Bo	ound
Movement:	L	- т	- R	ъ.	- T	- R	L ·	- Т	- R	L -	т	- R
			1				1					1
Min. Green:			0		٥			0		0		
										1		
Volume Module	e:											
Base Vol:	8	372	67	120	235	14	106	95	129	19	190	22
Growth 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
Initial Bse:	8	372	67	120	235	14	106	95	129	19	190	22
Added Vol:		4	1	.0	8	0	0	0	0	2	0	0
Campus Incr:	Ó	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	8	376	68	120	243	14	106	95	129	21	190	22
User 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
PHF 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
PHF Volume:	8	376	68	.120	243	14	106	95	129	21	190	22
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	8	376	68	120	243	14	106	95	129	21	190	22
PCE 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
MLF 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
Final Vol.:	8	376	68	120	243	14	106	95	129	21	190	22
	1											1
Saturation F	low M	odule	. '			•	•			•		•
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.93	0.96	0.96	0.93	0.97	0.97	0.78	0.78	0.78	0.94	0.94	0.83
Lanes:	1.00	0.85	0.15	1.00	0.95	0.05	0.32	0.29	0.39	0.10	0.90	1.00
Final Sat.:	1769	1541	279	1769	1746	101	476	426	579	177	1603	1583
				1	,		1			1		
Capacity Ana	İysis	Modu	le: '	•			•	1.		•		
Vol/Sat:		0.24		0.07	0.14	0.14	0.22	0.22	0,22	0.12	0.12	0.01
Crit Moves:		****		***				****				
Green/Cycle:			0.42	0.12	0.52	0.52	0.39	0.39	0.39	0.39	0.39	0.39
Volume/Cap:				0.58		0.27	0.58	0.58	0.58	0.31	0.31	0.04
Delay/Veh:				37.4		10.7		20.9	20.9	17.4	17.4	15.3
User DelAdj:				1.00		1.00	1.00	1.00	1.00		1.00	1.00
AdjDel/Veh:				37.4		10.7		20.9	20.9			15.3
DagionOuous.												

November 2003

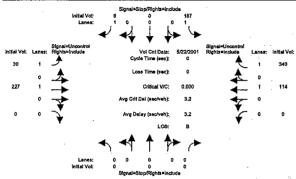
Level Of Bendes Computation Report
2000 HCM Unalgnatized (Future Volume Alternative)
Existing Alternative (Future Volume Alternative)
Existing Alternative (Future Volume Alternative)



Volume Module: >> Count Date: 22 May 2001 <<	Approach:	` Not	rth Bo	nund	Sou	ith Bo	ound	E	ast B	bund		t Bo	und
Volume Module: >> Count Date: 22 May 2001 << Base Vol: 0 0 0 187 0 8 30 218 0 0 110 340 Growth Add: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Movement:	L	- T	- R	L	- T	- R	L ·	- T	- R	ь-	T	- R
Base vol:								}					
Scowth Add: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0		e: >>											
Initial Base: 0 0 0 187 0 8 30 218 0 0 110 340 Added Vol: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-	_	-		_	-			-			
Added Vol: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Growth Adj:	1.00	1.00				1.00						
Campus Incr: 0 0 0 187 0 8 30 218 0 0 110 340 DHF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0		0	0	-						-	-		
Initial Fut: 0 0 0 0 187 0 8 30 218 0 0 110 340	Added Vol:	-		-	-	-	=	-	•	-		-	-
User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Campus Incr:	0	0	0	-	0	•	•	•	•	•	-	_
PHF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Initial Fut:	0	0	-		-				-	-		
PHF Volume: 0 0 0 187 0 8 30 218 0 0 110 340 Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	User Adj:	1.00	1.00	1.00	1.00		1.00						
Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PHF Adj:	1.00	1.00	1.00		1.00	1.00						
Final Vol.: 0 0 0 0 187 0 8 30 218 0 0 110 340 Critical Gap Module: Critical Gap Modul	PHF Volume:	0	0	0	187	. 0	8	30	218	0	0	110	340
Critical Gp: Module: Critical Gp: Module: Critical Gp: Module: Critical Gp: Module: Critical Gp: Module: Critical Gp: Module: Critical Gp: Module: Capacity Module: Ca	Reduct Vol:	0	0	0	0	0	0	0	0	0		-	0
Critical Gp::xxxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxx	Final Vol.:	0	0	0	187	0	8	30	218	0	0	110	340
FollowDpTim:xxxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxx	Critical Gap	Modu!	le:										
Capacity Module: Capacity Mo	Critical Gp:2	CCCCCC	XXXX	XXXXX	6.4	XXXX	6.2	4.1	XXXX	XXXXX	XXXXXX X	XXX	XXXXX
Capacity Module: Cafflict Vol: NORK NORK NORK 388 NORK 110	FollowUpTim:2	XXXXX	XXXX	XXXXXX	3.5	XXXX	3.3	2.2	XXXX	XXXXX	XXXXX X	XXX	XXXXX
Cufflict Vol: XXXX XXXX XXXX XXXX XXXX XXXX XXXX X		j											
Potent Cap.: x000x x000x x000x	Capacity Modi	ıle:											
Move Cap.: xxxx xxxx xxxx xxxx xxxx xxxx xxxx x	Cnflict Vol:	XXXX	XXXX	XXXXX	388	XXXX	110	450	XXXX	XXXXX	XXXX X	XXX	XXXXX
Level Of Service Module: Comparison	Potent Cap.:	20000	XXXXX	XXXXXX	619	XXXX	949	1121	XXXX	XXXXXX	XXXXX	ххх	XXXXX
Level Of Service Module: Stopped Del:xxxxx xxxx xxxx xxxx xxx xxxx xxxx xx	Move Cap .:	XXXX	XXXX	XXXXX	607	XXXX	949	1121	XXXXX	XXXXXXX	XXXXX X	XXX	XXXXXX
Stopped Del:xxxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxx				}									
LOS by Move:	Level Of Ser	vice 1	Module	: :									
Movement: LT - LTR - RT LT - LTR - RT LT - LTR - RT LT - LTR - RT LT - LTR - RT Shared Cap.: xxxxx xxxxx xxxxx xxxxx xxxxx xxxx x	Stopped Del:	CCCCC	XXXX	XXXXXX	13.6	XXXX	8.8	8.3	XXXX	XXXXXX	XXXXX X	XXX	XXXXX
Shared Cap.: 2000:	LOS by Move:	*	*	*	В	*	A	A	*	*	*	*	*
Shrd StpDel::00000 00000 00000 00000 00000 00000 0000	Movement:	LT ·	- LTR	- RT	LT ·	- LTR	- RT	LT ·	- LTR	- RT	LT -	LTR	- RT
Shared LOS: * * * * * * * * * * * * * * * * * * *	Shared Cap.:	20000	xxxxx	XXXXXX	XXXX	30000	200000	XXXXX	XXXXX	XXXXX	XXXX X	XXX	XXXXX
ApproachDel: xxxxxx 13.4 xxxxxx	Shrd StpDel:	dooox	300000	XXXXXX	XXXXX	3000C	XXXXXX	200000	20000	300000	XXXXXX X	XXX	XXXXXX
inprovement in the second seco	Shared LOS:	*	*	*	•	* .	*	*	*	*	*	*	*
	ApproachDel:	30	COCC			13.4		X	00000		жж	жж	
	ApproachLOS:		*			В			*			*	

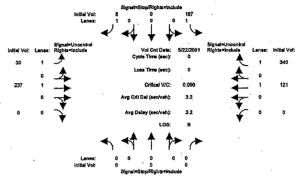
Level Of Service Computation Report 2000 HCM Unsignalized (Future Volume Alternative) Ex + Ph 1 AM

Intersection #24: Empire Grade/Heller [N/S: Heller E/w: Empire Grade]



										٠.		
Approach:	·No	rth B	ound	So	uth B	ound	E	ast B	ound	W	est B	ound
Movement:	L ·	- T	- R	L	- T	- R	L	- т	- R	L ·	т	~ R
	·											
Volume Modul	e: >>				ay 20	01 <<						
Base Vol:	0	0	0	187	0	8	30	218	0	0	110	
Growth Adj:		1.00	1.00			1.00	1.00		1.00	1.00	1.00	1.00
Initial Bse:	0	0	0	187	0	8	30	218	0	0	110	340
Added Vol:	0	0	0	Ó	0	0	0	9	0	0	4	0
ampus Incr:	0	0	0	0	0	0	- 0	0	0	O.	0	0
nitial Fut:	0	0	0	187	0	8	30	227	0	0	114	340
вег Adj:		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
HF Adj:	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
HF Volume:	0	0	0	187	0	8	30	227	0	0	114	340
Reduct Vol:	0	0	0	, 0	0	0	0	0	0	0	0	0
inal Vol.:	0	0	0	187	0	· 8	30	227	. 0	0	114	340
ritical Gap	Modu.	le:										
ritical Gp::	XXXXXX	XXXX	XXXXX	6.4	XXXX	6.2	4.1	XXXX	XXXXXX	XXXXX	XXXX	XXXXX
ollowUpTim::	00000	XXXX	XXXXX	3.5	XXXX	3.3	2.2	XXXXX	XXXXXX	XXXXXX	XXXXX	XXXXXXX
apacity Modu	ule:											
nflict Vol:	XXXX	XXXX	XXXXX	401	XXXX	114	454	XXXX	XXXXX	XXXX	xxxx	XXXXX
otent Cap.:	XXXX	XXXX	XXXXX	609	XXXX	944	1117	XXXX	XXXXX	XXXX	XXXXX	XXXXXX
love Cap.:	XXXX	XXXX	XXXXX	596	xxxx	944	1117	XXXX	2000000	XXXXX	XXXX	XXXXX
	-			11								
evel Of Serv	vice t	Module	:									
Stopped Del:	XXXXX	XXXX	xxxxx	13.8	XXXX	8.8	8.3	xxxx	XXXXX	XXXXX	XXXX	XXXXX
LOS by Move:	* .	*	*	В	*	A	A	*	*	*	*	*
lovement:	LT ·	- LTR	- RT	LT ·	LTR	- RT	LT ·	- LTR	- RT	LT ·	- LTR	- RT
Shared Cap.:	XXXX	XXXX	XXXXX	XXXX	XXXX	XXXXX	XXXX	XXXX	XXXXXX	XXXX	хжж	XXXXXX
hrd StpDel::	CCCCC	ххххх	XXXXX	XXXXX	XXXX	XXXXXX	XXXXX	XXXX	XXXXX	XXXXX	XXXX	XXXXX
hared LOS:	*	*	*	*	*	*	*	*	*	*	*	*
pproachDel:	x	XXXXX			13.6		x	XXXXX		X	CUXX	
ApproachLOS:		*			₽						*	

Leval Of Savins Computation Report
2000 HCM Unalgnatized (Future Volume Alternative)
Ex+ Ph. 1-Ph.2 AM
Intersection #24: Empire Grade/Heller [N/S: Heller E/w: Empire Grade]



			Signa	III-a sopregn	z=mause								
Approach:	No	rth Bo	ound	So	uth B	bnuc	E	ast B	ound	W	est B	bund	
Movement:	ъ	Т	- R			- R			- R	L	- Т	- R	
]						11			1
Volume Module	e: >>	Count	Date	: 22 M	ay 20	01 <<	•						
Base Vol:	0	0	0		. 0			218		0	110		
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	
Initial Bse:	0	0	0	187	0	. 8	30	218	٥	0	110	340	
Added Vol:	0	0	0	0	0	0	0	19	0	0	11	0	
Campus Incr:	0	-0	0	0	0	0	0	0	0	0	0	0	
Initial Fut:	0	0	0	187	0	8	30	237	. 0	0	121	340	
User 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	
PHF 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	
PHF Volume:	0	0	0	187	0	8	30	237	0	0	121	340	
Reduct Vol:	0	0	0	0	0	. 0	0	0	0	0	0	0	
Final Vol.:	0	0	0	167	0	8	30	237	0	0	121	340	
Critical Gap	Modu.	Le:											
Critical Gp:	20000	XXXX	XXXXXX	6.4	XXXX	6.2	4.1	XXXX	XXXXXX	XXXXX	XXXX	XXXXX	
FollowUpTim:	XXXXX	XXXX	XXXXX	3.5	XXXX	3.3	2.2	XXXX	XXXXX	XXXXX	XXXX	XXXXX	
	l												ĺ
Capacity Modu	ile:	,											
Cnflict Vol:	XXXX	XXXX	XXXXXX	418	XXXX	121	461	XXXX	100000	XXXXX	XXXX	XXXXX	
Potent Cap.:	200000	XXXXX	XXXXX	595	XXXX	936	1111	XXXX	XXXXXX	XXXXX	XXXX	XXXXXX	
Move Cap.:	XXXX	XXXX	XXXXX		XXXX					XXXXX			
													Ĺ
Level Of Serv													
Stopped Del:	COCCC	XXXX	XXXXXX	14.1	XXXX	. 8.9	8.3	XXXX	XXXXX	XXXXXX	XXXX	XXXXXX	
LOS by Move:		*	*.		. *		A		*	*	*	*	
Movement:									- RT		- LTR		
Shared Cap.:													
Shrd StpDel:	00000	XXXX	XXXXXX		xxixx		XXXXX		XXXXX	XXXX	XXXX	XXXXX	
Shared LOS:	*	*	*	*	. *	. *	*	. *	*	*	*	*	
ApproachDel:	303	OCCU			13.8		303	CCCCC		30	COCC		
ApproachLOS:		*			, в			*			*		

Marine Science Center

November 2003

Summary Scenario Comparison Report (With Average Critical Delay) Future Volume Alternative

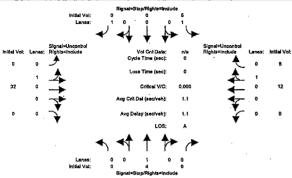
			Exist	ing PM		<u> </u>	Ex + F	Ph 1 PM		<u> </u>		Ex + Ph 1	I + Ph 2 PM		~		?	??	
			Avg	•	Avg Crit		Avg		Avg Crit		Avg		Crit	Avg Crit	Avg Crit				Avg
	·	i .	Del	Crit	Del		Del	Crit	Del		Del	Crit	V/C	Del	Del		Avg Del	Crit	Crit Del
Interse	Delaware/Shaffer [N/S:Shaffer E/W:Delaware]	LOS	(sec) 1.1	0.000	(sec)	LOS	(sec) 0.3	0.000	(sec) 0.3	LOS	(sec) 0,2	0.000	Change	(sec)	Change	LOS	(sec)	V/C	(sec)
#2	Delaware/Natural Bridges [N/S:Natural Bridges E/W:Delaware]	A	8.4	0.162	8.4	A	9.0	0.282	9.0	В	10.5	0.455	+ 0.000	0.2 10.5	- 0.1	?	xx.x	x.xxx	xx.x
#3	Delaware/Swanton [N/S: Swanton E/W: Delaware]	В	3.5	0.000	3.5	В	3.1	0.000	3,1	В	2.9	0.000	+ 0.000	2.9	+ 1.4	?	XX.X	X.XXX	XX.X
#4	Bay/Laguna [N/S:Laguna E/W: Bay]	В	4.3	0.000	4.3	В	4.5	0.000	4.5	В	4.8	0.000	+ 0.000	4.8	+ 0.3	7	XX.X	x.xxx x.xxx	XX.X
#5	SR 1/Shaffer [N/S: Shaffer E/w: SR 1]	В	2.2	0.000	2.2	В	2.3	0.000	2.3	В	2.3	0.000	+ 0.000	2.3	+ 0.1	?	×x.x	x.xxx	xx.x
#6	Delaware/Swift [N/S: Swift E/W: Delaware]	В	10.9	0.477	10.9	В	11.9	0.525	11.9	В	13.8	0.604	+ 0.079	13.8	+ 1.9	?	XX.X	x.xxx	XX.X
#7	Delaware/Almar [N/S: Almar E/W: Delaware]	В	11.4	0.548	11.4	В	12.5	0.617	12.5	В	14.5	0.703	+ 0.085	14.5	+ 2.0	?	XX.X	, x.xxx	XX.X
#8	SR 1/Western [N/S: Western E/w: SR 1]	В	18.1	0.510	17.7	В	19.0	0.524	19.0	С	20.2	0.546	+ 0.023	21.0	+ 2.0	?	xx.x	x.xx	xx.x
#9	SR 1/Swift [N/S: Swift E/w: SR 1]	С	20.0	0.398	24.9	C	20.2	0.410	25.1	С	20.5	0.427	+ 0.017	25.6	+ 0.5	?	xx.x	X.XXX	xx.x
#10	Mission/Almar [N/S: Almar E/w: Mission]	С	24.6	0.568	31.4	С	25.7	0.604	32.8	С	27.2	0.650	+ 0.046	34.8	+ 2.0	?	xx.x	x.xxx	xx.x
#11	Mission/Bay [N/S: Bay E/w: Mission]	D	51.1	0.940	54.7	E	55.0	0.959	58.2	E	61.9	0.987	+ 0.028	66.5	+ 8.2	?	xx,x	x.xxx	xx.x
#12	Laurel/California [N/S: California E/w: Laurel]	С	20.6	0.578	22.4	С	20.7	0.587	22.8	С	21.0	0.600	+ 0.013	23.3	+ 0.5	- ?	жx	x.xxx	xx.x
#13	Mission/Laurel [N/S: Laurel E/w: Missionl]	D	35.3	0.851	37.8	D	36.1	0.873	38.9	D	37.4	0.900	+ 0.027	40.7	+ 1.8	?	xx.x	x.xxx	ж.х
#14	Mission/Walnut [N/S: Walnut E/w: Mission]	В	19.2	0.547	18.6	В	19.0	0.562	20.9	В	18.6	0.586	+ 0.024	20.6	- 0.3	?	xx.x	x.xxx	xx.x
#15	Mission/Union [N/S: Union E/w: Mission]	C	24.1	0.621	21.6	С	24.2	0.628	21.5	С	24.2	0.645	+ 0.017	21.1	- 0.4	?	xx.x	x.xxx	xx.x
#16	Mission/Chestnut [N/S: Chestnut E/w: Mission]	E	79.4	1.122	93.6	F	82.7	1.133	97.7	F	88.6	1.152	+ 0.019	100.8	+ 3.1	?	xx. x	x.xxx	xx.x
#17	Mission/River [N/S: River E/w: Mission]	D	45.1	0.904	57.2	D	45.9	0.918	58.6	D	47.1	0.934	+ 0.016	60.6	+ 2.0	?	xx.x	x.xxx	xx.x
#18	Western/Meder [N/S: Western E/w: Meder]	Α	8.7	0.257	8.7	Α	8.8	0.272	8.8	А	8,9	0.292	+ 0.020	8.9	+ 0.1	?	xx.x	x.xxx	xx.x
#19	High/Western [N/S: Western E/w: High]	D	4.4	0.000	4.4	D	4.8	0.000	4.8	E	5.3	0.000	+ 0.000	5.3	+ 0.5	?	xx.x	x.xxx	xx.x
#20	High/Bay [N/S: Bay E/w: High]	С	22.9	0.558	25.1	С	22.9	0.559	25.1	C	22.9	0.561	+ 0.002	25.1	+ 0.0	?	XX.X	x.xxx	xx.x
#21	Bay/lowa [N/S: Bay E/w: Iowa]	В	10.1	0.395	9.6	В	10.1	0.395	9.6	В	10.0	0.396	+ 0.001	9.6	- 0.0	?	xx.x	x.xxx	xx.x ·
#22	Bay/Escalona [N/S: Bay E/w: Escalana]	F	9.1	0.000	9.1	F.	9.2	0.000	9.2	F	9.7	0.000	+ 0.000	9.7	+ 0.5	?	xx.x	x.xxx	xx.x
#23	Bay/King [N/S: Bay E/w: King]	С	22.7	0.749	29.2	С	22.8	0.751	· 29.3	С	22.9	0.755	+ 0.004	29.5	+ 0.1	? .	xx.x	x.xxx	xx.x
#24	Empire Grade/Heller [N/S: Heller E/w: Empire Grade]	С	8.9	0.000	8.9	С	9.2	0.000	9.2	С	9.6	0.000	+ 0.000	9.6	+ 0.4	?	xx.x	x.xxx	xx.x
				v.					. 1						. 1				•

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Level Of Service Computation Report 2000 HCM Unsignalized (Future Volume Alternative

Intersection #1: Delaware/Shaffer [N/S:Shaffer E/W:Delaware]



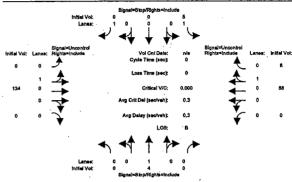
	Sig	Signal=Sup/Rights=Include													
Approach: No	orth Bound	South	Bound	East E	ound	West Bo	und								
Movement: L	- T - R	ь - т	~ R	L - T	- R	L - T	- R								
		-		11	(1		1								
Volume Module:		• •		• • • • • • • • • • • • • • • • • • • •	.,		•								
Base Vol:	0 4	0 5	0 0	0 32	0	0 12	8								
Growth Adj: 1.0	1.00 1.0	0 1.00 1.0	0 1.00	1.00 1.00	1.00	1.00 1.00	1.00								
Initial Bse: .	4	0 5	0 0	0 32	. 0	0 12	8								
Added Vol:	0 0	0 0	0 0	0 0		0 0	. 0								
Campus Incr: 0	0		0 0	0 0	0	. 0 0	0								
Initial Fut:	4	0 5	0 0	0 32	0	0 12	8								
	1.00 1.0					1.00 1.00	1.00								
PHF Adj: 1.00	1.00 1.0	0 1.00 1.0	0 1.00			1.00 1.00	1.00								
PHF Volume:	4	0 5	0 0	0 32	0	0 12	В								
Reduct Vol:	0		0 0		_	0 0	0								
		0 5	0 0	0 32	0	0 12	8								
Critical Gap Modu	ıle:														
Critical Gp:xxxxx	6.6 xxxx	x 7.2 xxx	x xxxxx	XXXXXX XXXXX	XXXXXX X	XXXX XXXX	X0000X								
FollowUpTim:xxxxx	4.1 XXXX	x 3.6 xxx	x xxxxx	XXXXX XXXX	XXXXXX X	XXXXX XXXXX	XOCOCK .								
		-]											
Capacity Module:															
Cnflict Vol: xxxx			x xxxx x	XXXX XXXX	XXXXX	XXXX XXXX	200000								
Potent Cap.: xxx			x xxxxx	XXXX XXXX	XXXXX	XXXXX XXXXX	XXXXXX								
Move Cap.: xxxx					XXXXXX	XXXXX XXXXX	300000								
		-		1											
Level Of Service															
Stopped Del:xxxxx						XXXX XXXX									
LOS by Move: *	A *	A *	*	* *	*	* *	. *								
	- LTR - RT			LT - LTR		LT - LTR									
Shared Cap.: xxxx						XXXX XXXXX									
Shrd StpDel:xxxxx															
Shared LOS: *	* *	* *	*	* *	*	* . *	*								
ApproachDel:	9.4	8.	-	2000000	;	XXXXXXX									
ApproachLOS:	A	. , A		*		*									

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November 2003

Level Of Service Computation Report 1900 HCM Unsignatized (Future Volume Alternativ

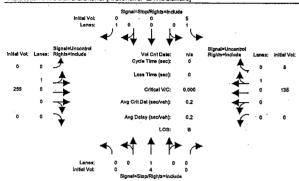
Intersection #1: Delaware/Shaffer [N/S:Shaffer E/W:Delaware]



			Signa	l=8bp/Righ	ts=Include	٠,						
Approach:	No	rth B	ound	So	uth B	ound	E	ast B	bauc	W	est B	ound
Movement:			- R	Ŀ	- T	- R	L		- R			- R
Volume Modul	: e:			11								
Base Vol:		4	0	5	. 0	0	0	32	0	0	12	8
Growth Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	4	0	5	0	0	0	32	0	0	12	8
Added Vol:	0	0	0	0	0	0	0	102	0	0	46	. 0
Campus Incr:	0	. 0	0	. 0	0	0	0	0	0	0	0	0.
Initial Fut:	0.	4	0	5	0	0	0	134	0	0	58	8
User 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
PHF 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
PHF Volume:	0	4	0	5	0	0	0	134	0	0	58	8 :
Reduct Vol:		0			. 0	0	0	0	0	0	0	0
Final Vol.:	0	4	0	5	0	0	0	134	0	0	58	8
Critical Gap	Modu.	le:										
Critical Gp:	XXXXXX	6.6	XXXXX	7.2	XXXX	XXXXX	XXXXXX	XXXX	XXXXX	XXXXXX	XXXXX	XXXXXX
FollowUpTim:	COCC	4.1	XXXXX	3.6	XXXXX	2000000	XXXXX	XXXX	XXXXXX	xxxxx	xxxxx	XXXXX
	1			11			11			11		
Capacity Mod	ule:						•					
Cnflict Vol:		200	XXXXX	198	XXXX	xxxxx	XXXXX	XXXX	XXXXX	XXXX	XXXX	XXXXX
Potent Cap.:	20000	685	3000000	748	xxxx	XXXXXX	XXXX	XXXX	XXXXX	XXXXX	XXXX	XXXXXX
Move Cap.:	XXXX	685	300000	745	XXXXX	XXXXXX	XXXXX	XXXX	2000000	XXXX	XXXX	XXXXXX
			<u>-</u>				11					
Level Of Ser												•
Stopped Del:	XXXXXX	10.3	XXXXX	9.9	XXXX	XXXXXX	XXXXX	XXXX	XXXXX	XXXXX	XXXX	XXXXX
LOS by Move:	*	. 13	*	A	* 1	*	*		*	*	*	*
Movement:	LT	- LTR	- RT	LT ·	- LTR	~ RT	LT	- LTR	- RT	LT ·	- LTR	- RT
Shared Cap.:	XXXX	20000	XXXXXX	XXXXX	XXXX	XXXXX	20000	XXXX	XXXXX	XXXX	xxxx	XXXXX
Shrd StpDel:					XXXX	XXXXX	200000	XXXX	XXXXX	XXXXX	XXXX	XXXXX
Shared LOS:	*	*		*	. *	*	*		*	*	*	*
ApproachDel:	•	10.3			9.9		×	XXXXX		x	хххх	
ApproachLOS:		В			A			*			*	

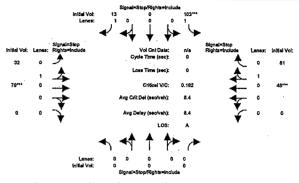
Leval Of Service Computation Report 2000 HCM Unsignatized (Future Volume Allamativa) Ex + Ph 1 + Ph 2 PM

Intersection #1: Delaware/Shaffer [N/S:Shaffer E/W:Delaware]



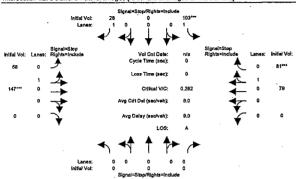
Approach:	No:	rth B	ound	So	uth B	ound	E	ast B	ound	W	est B	ound
Movement:	L	- Т	- R	L	- T	- R	L	- T	- R	L	- T	- R
,												
Volume Module	≥:											
Base Vol:	0	4	0	5	0	0	b	32	0	0	12	8
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	4	0	5	0	0	0	32	0	0	12	8
Added Vol:	0	0	0	0	0	0	0	223	0	0	123	0
Campus Incr:	0	0	0	0	0	0	0	Ö	0	0	0	0
Initial Fut:	0	4	0	5	0	0	0	255	0	0	135	8
User 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
PHF 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
PHF Volume:	0	4	0	5	0	0	0	255	Ó	0	135	8
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Final Vol.:		. 4	0	5	0	0	0	255	0	ō	135	8
Critical Gap	Modu.	le:										
Critical Gp:2	COCC	6.6	XXXXX	7.2	XXXX	XXXXX	XXXXX	XXXX	XXXXX	XXXXXX	XXXX	XXXXX
FollowUpTim:2	XXXX	4.1	xxxxx	3.6	XXXX	XXXXX	XXXXXX	XXXX	XXXXX	XXXXX	xxxx	XXXXX
							11					
Capacity Modu	ıle:											•
Cnflict Vol:	хжж	398	XXXXXX	396	XXXX	XXXXX	XXXX	XXXX	XXXXX	xxxx	XXXX	XXXXXX
Potent Cap.:	XXXX	530	XXXXX	553	XXXX	XXXXXX	XXXX	xxxx	XXXXXX	XXXXX	30000	XXXXXX
Move Cap.:	XXXX	530	XXXXX	550	XXXX	XXXXX	XXXX	XXXX	XXXXX	XXXXX	XXXX	XXXXXX
								. i		11		
Level Of Serv				,						``		
Stopped Del:>	COCCC	11.8	XXXXX	11.6	XXXX	2000000	XXXXXX	XXXX	XXXXX	XXXXX	жж	XXXXX
LOS by Move:	*	В	*	В		*	*	*	*	. *	*	*
Movement:	LT :	LTR	- RT	LT ·	- LTR	- RT	LT ·	- LTR	- RT	LT ·	LTR	- RT
Shared Cap.:	XXXX	XXXX	XXXXX	XXXX	XXXX	XXXXX	XXXX	XXXX	XXXXX	XXXX	XXXXX	XXXXX
Shrd StpDel:>	XXXX	XXXX	XXXXX	XXXXXX	xxxx	xxxxx	xxxxx	XXXX	XXXXX	XXXXX	XXXX	XXXXX
Shared LOS:	*	*	*	*	*	*	*	·, *	*	*	*	*
ApproachDel:		11.8			11.6	*	202	COCCX		303	XXXX	
ApproachLOS:		В			l B			*		-	*	

Level Of Service Computation Report
2000 HCM 4-Wey Stor (Future Volume Alternetive)
Esting PM
Intersection #2: Delaware/Natural Bridges [N/S:Natural Bridges EW:Delaware]



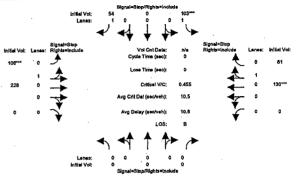
Approach:		rth Bo				ound		ast Bo		West B	ound
Movement:			- R			- R			- R		
Min. Green:	0		0	0		اا			ا ا		
Volume Module							•			•	
Base Vol:	0			103	0	13	32	79	0	0 48	81
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00 1.00	1.00
Initial Bse:	0		0	103	0	13	32	79	0	0 48	81
Added Vol:	0		0	0	0	0	0	0	0	0 0	0
Campus Incr:	0	0	0	0	0	0	0	0	0	0 0	0
Initial Fut:	0	0	0	103	0	13	32	79	0	0 48	81
User 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
PHF 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
PHF Volume:	0	0	0	103	0	13	32	79	0	0 48	81
Reduct Vol:	0	0	0	0	0	0	0	0	0	0 0	0
Reduced Vol:	0	0	0	103	0	13	32	79	0	0 48	81
PCE Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00 1.00	1.00
MLF 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
Final Vol.:			0	103	0	13	32	79		0 48	81
						1	1				
Saturation Fl	ow Mo	dule:		•			•		•	•	,
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00 1.00	1.00
Lanes:	0.00	0.00	0.00	1.00	0.00	1.00	0.29	0.71	0.00	0.00 0.37	0.63
Final Sat .:	0	0	0	634	0	802	222	548	0	0 316	534
							i		1	ļ	
Capacity Anal	ysis	Modu1	e:						•	•	•
Vol/Sat:	XXXX	XXXX	XXXXX		XXXX	0.02	0.14	0.14	XXXXX	жжжж 0.15	0.15
Crit Moves:				****				****		****	
Delay/Veh:	0.0	0.0	0.0	9.2	0.0	7.1	8.3	8.3	0.0	0.0 7.8	7.8
Delay 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
AdjDel/Veh:	0.0	0.0	0.0	9.2	0.0	7.1	8.3	8.3	0.0	0.0 7.8	7.8
LOS by Move:	*	*	*	A	*	A	A	A	. *	* A	A
ApproachDel:	202	CCCCC			9.0			8.3		7.8	
Delay Adj:	,	COCC			1.00			1.00		1.00	
ApprAdjDel:	ж	00000			9.0			8.3		7.8	
LOS by Appr:		*			A			A		A	

Intersection #2: Delaware/Natural Bridges [N/S:Natural Bridges E/W:Delaware]



Approach:	North Bound			Son	uth Bo	ound		ast Bo		West Bo	und
Movement:	~	- T		-	- T	- R	г, -	т	- R	ь - т	- R
,											
Min. Green:	0				0	0	0		0	0 0	0
Volume Module	e:										
Base Vol:	0	0	0	103	0	13	32	. 79	0	0 48	81
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00 1.00	1.00
Initial Bse:	0	0	0	103	0	13	32	79	0	0 48	81
Added Vol:	0	0	0	0	0	15		68	0	0 31	0
Campus Incr:	0	0	0	. 0	0	0	0	0	0	0 0	0
Initial Fut:	0	0	0	103	0	28	66	147	0.	0 79	81
User 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
PHF 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
PHF Volume:	0	0	0	103	0	28	66	147	0	0 79	81
Reduct Vol:	0	0	0.	0	0	0	0	0	0	0 0	0
Reduced Vol:	0	0	0	103	0	28	66	147	0	0 79	81
PCE 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
MLF 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
Final Vol.:	0	0	0	103	0	28	66	147	0	0 79	81
	1		i	1							
Saturation F	low Mo	odule	• '	•			•			•	
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00 1.00	1.00
Lanes:	.0.00	0.00	0.00	1.00	0.00	1.00	0.31	0.69	0.00	0.00 0.49	0.51
Final Sat.:			0	593	0	737		521	0	0 396	406
	i :			1						1	1
Capacity Ana.	lysis	Modu:	le:			,	٠.		•	•	
Vol/Sat:	XXXX	XXXX	XXXXX	0.17	XXXX	0.04	0.28	0.28	XXXXX	xxxx 0.20	0.20
Crit Moves:				***				***			***
Delay/Veh:	0.0	0.0	0.0	9.7	0.0	7.5	9.4	9.4	0.0	0.0 8.4	8.4
Delay 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
AdjDel/Veh:	0.0	0.0	0.0	9.7	0.0	7.5	9.4	9.4	0.0	0.0 B.4	B.4
LOS by Move:	*	*	*	A	*	A	A	A	*	* A	A
ApproachDel:	30	XXXXX			9.2			9.4		8.4	
Delay Adj:	:	XXXXX			1.00			1.00		1.00	
ApprAdjDel:	30	XXXXXX			9.2			9.4		8.4	
LOS by Appr:		*			A			A		A	
,											

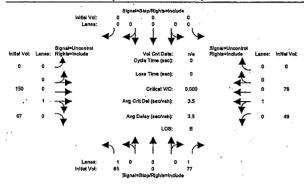
Level Of Service Computation Report
2000 HCkl 4-Way Bloc (Fubra Volume Altimative)
Ext P h 1 + Ph 2 PM
Intersection #2: Delaware/Natural Bridges [N/S:Natural Bridges E/W:Delaware]



Approach:	North Bound				th Bo			ast Bo			st Bo	
Movement:	L ·	- T	- R	ь -	· T	- R		- Т		L.	• т	~ R
Min. Green:	0	0	0	0	. 0	0	0		0	0	0	0
							1			1		
Volume Modul	e:											
Base Vol:	0	0	0	103	0	13	32	79		. 0	48	81
Growth Adj:	1.00	1.00	1.00	1.00		1.00		1.00	1.00		1.00	1.00
Initial Bse:	0	. 0	0	103	.0	13.	32	79	0	0	48	81
Added Vol:	0	0	0	0	0	41	74		0	0	82	0
Campus Incr:	. 0	0	0	0	0	0	0		0	0	0	0
Initial Fut:	0	0	0	103	0	54	106	228	0	0	130	81
User 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
PHF 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
PHF Volume:	0	0	0	103	0	54	106	228	0	0	130	81
Reduct Vol:	0	. 0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	0		0	103	.0	54	106	228	0	0	130	81
PCE Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF 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
Final Vol.:	0	0	0		. 0	54	106		0		130	81
]		[·						
Saturation F	low Mo	dule	. '	•					•	•		
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.00	0.00	0.00	1.00	0.00	1.00	0.32	0.68	0.00	0.00	0.62	0.38
Final Sat.:		0	0	548		670		501	0		461	287
						1						
Capacity Ana	lysis	Modu.	le:	•		•						
Vol/Sat:			XXXXX	0.19	XXXX	0.08	0.46	0.46	XXXX	XXXXX	0.28	0.28
Crit Moves:				****			****				***	
Delay/Veh:	0.0	0.0	0.0	10.2	0.0	8.1	11.6	11.6	0.0	0.0	9.4	9.4
Delay 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
AdjDel/Veh:	0.0	0.0	0.0	10.2	0.0	8.1	11.6	11.6	0.0	0.0	9.4	9.4
LOS by Move:	*	*	*	. в	*	A	В	В	*	*	A	A
ApproachDel:	30	CCCC			9.5			11.6			9.4	
Delay Adj:		COCCC			1.00			1.00			1.00	
ApprAdjDel:	×	00000			9.5			11.6			9.4	
LOS by Appr:		*			A			В			A	

Level Of Service Computation Report
2000 HCM Unsignalized (Future Volume Alternative)
Existing PM

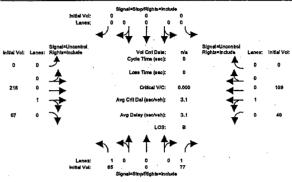
Intersection #3: Delaware/Swanton [N/S: Swanton E/W: Delaware]



Approach:	North	Bound	Son	uth B	ound	E	ast Bo	ound	We	est Bo	ound
Movement: I	- T	- R	L ·	- T	- R	L.	- T	- R	L -	· T	- R
									11		
Volume Module:									•		•
Base Vol:	65	77	0	0	0	0	150	67	49	78	0
Growth Adj: 1.	00 1.0	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	65	77	0	0	0	0	150	67	49	78	0
Added Vol:	0	0 0	. 0	0	0	0	0	0	0	0	0
Campus Incr:	0	0 0	0	0	0	0	0	0	0	0	0 -
Initial Fut:	65	77	0	0	0	0	150	67	49	78	0
User Adj: 1.	00 1.0	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj: 1.	00 1.0	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	65	77	0	0	0	0	150	67	49	78	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0
Final Vol.:	65	77	Ó	0	0	0	150	67	49	78	0
Critical Gap Mo	dule:										
Critical Gp: 6	.4 xxxx	c 6.2	XXXXX	XXXX	XXXXX	XXXXX	XXXX	XXXXX	4.1	XXXX	2000000
FollowUpTim: 3	.5 xxx	K 3.3	XXXXX	XXXX	XXXXX	XXXXXX	XXXX	XXXXXX	2.2	XXXX	XXXXXX
			11								
Capacity Module	:						•				
Cnflict Vol: 3	60 xxx	c 184	XXXX	XXXX	XXXXX	XXXX	XXXX	XXXXXX	217	XXXX	XXXXXX
Potent Cap.: 6	39 xxx	K 859	XXXX	XXXX	XXXXX	XXXXX	XXXX	XXXXXXX	1335	XXXX	XXXXXX
Move Cap.: 6	21 xxx	c 859	XXXX	XXXX	XXXXX	XXXX	XXXX	XXXXXX	1335	XXXXX	XXXXX
			11							 -	
Level Of Service	e Modu	le:									
Stopped Del: 11	.5 xxx	¢ 9.6	XXXXXX	XXXX	XXXXX	XXXXXX	200000	XXXXXX	7.8	3000K	XXXXXX
LOS by Move:	в *	A	*	*	*	*	*	. *	A	*	. *
Movement: I	T - LT	R - RT	LT ·	- LTR	- RT	LT ·	- LTR	- RT	LT -	LTR	- RT
Shared Cap.: xx	xx xxx	K XXXXXX	XXXX	XXXX	XXXXXX	XXXX	XXXX	XXXXXX	XXXX	XXXXX	2000000
Shrd StpDel:xxx	xx xxx	xxxxxx	XXXXXX	жж	XXXXXX	XXXXXX	XXXX	XXXXXX	7.8	XXXXX	3000000
Shared LOS:	* *	*	*	*	*	*	* *	*	A	*	*
ApproachDel:	10.	5	x	COCIO		303	XXXXX		20	OCKOKOK.	
ApproachLOS:	В			1 *			*			*	
				1							

Level Of Service Computation Report 2000 HCM Unsignalized (Future Volume Alternative) Ex + Ph 1 PM

Intersection #3: Delaware/Swanton [N/S: Swanton E/W: Delaware]

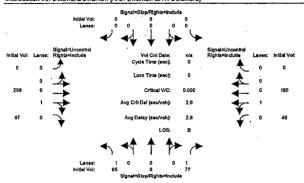


			Signi	n gervaler sam	B-tocke	,						
Approach:	No:	rth Bo	ound	So	ith B	ound	E	ast B	ound	W	est B	ound
Movement:						- R			- R			- R
Volume Modula	ė:								-			
Base Vol:	65	0	77	0	0	0	0	150	67	49	78	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	65	0	77	0	0	0	0		67	49	78	0
Added Vol:		0	0	.0	. 0	0	0	68	0	0	31	0
Campus Incr:	0	. 0	0	0		0	0	0	0	0	0	0
Initial Fut:	65	0	77	0	0	0	0	218	67	49	109	0
User 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
PHF Adj:	1.00	1.00			1.00	1.00	1.00			1.00	1.00	1.00
PHF Volume:	65	0	77	. 0	.0	0	0	218	67	49	109	0
Reduct Vol:			0	•	•	0	0	0	0	0	_	. 0
Final Vol.:		0	77	0	0	0	0	218	67	49	109	0
Critical Gap												
Critical Gp:												XXXXX
FollowUpTim:												XXXXX
Capacity Mod												
Cnflict Vol:					XXXX	XXXXX	XXXX	XXXX	XXXXX			XXXXX
Potent Cap.:									XXXXX			XXXXX
Move Cap.:									XXXXXX			XXXXXX
					- -							
Level Of Ser												
Stopped Del:												XXXXX
LOS by Move:				*	*	. *	*	*		A		*
Movement:											- LTR	
Shared Cap.:												XXXXX
Shrd StpDel::					XXXX		XXXXXX	XXXX	XXXXX			XXXXX
Shared LOS:	*	*	*	*	*	*	*	*	*	A	*	*
ApproachDel:		11.2		x	opoor		×	KKKKK		×	CCCCC	
ApproachLOS:		В			*			*			. *	

Level Of Service Computation Report
2000 HCM Unsignolized (Future Volume Alternative)

Ex + Ph 1 + Ph 2 PM

Intersection #3: Delaware/Swanton [N/S: Swanton E/W: Delaware]

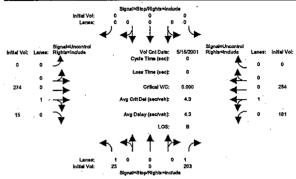


Approach:	North Bound			th Bo	ound	Ba	ast Bo	ound .	₩e	st Bo	ound
Movement: I	, - Т	- R	L -	T	- R	L ·	- T	- R	L -	т	- R
Volume Module:											
Base Vol:	65 0	77	0	0	0	0	150	67	49	78	0
Growth Adj: 1.	00 1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	65 0	77	0	0	0	0	150	67	49	78	0
Added Vol:	0 0	0	0	. 0	0	0	149	0	0	82	0
Campus Incr:	0 0	0	0	Ò	0	0	0	0	0	0	0
Initial Fut:	65 0	77	0	0	0	0	. 299	.67	49	160	. 0
User 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
PHF 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
PHF Volume:	65 0	77	0	0	0	0	299	67	49	160	0
Reduct Vol:	0 0	0	0	0	0	0	. 0	. 0	0	0	0
Final Vol.:	65 0	77	0	0.	0	0	299	67	49	160	0
Critical Gap Mo	dule:										
Critical Gp: 6	.4 xxxx	6.2	XXXXX	XXXX	ж	XXXXX	XXXXX	XXXXX	4.1	XXXXX	XXXXXX
FollowUpTim: 3	.5 xxxx	3.3	XXXXX	XXXX	XXXXXX	XXXXX	XXXXX	XXXXXX	2.2	XXXX	XXXXXX
Capacity Module	: 1			•							
Cnflict Vol: 5	91 xxxx	333	XXXX	XXXX	XXXXX	XXXX	XXXX	XXXXXX	366	жж	XXXXXX
Potent Cap.: 4	70 xxxx	709	XXXXX	XXXX	XXXXXX	XXXXX	XXXXX	XXXXXX	1176	XXXX	XXXXXX
Move Cap.: 4	54 XXXX	709	XXXX	XXXX	XXXXXX	XXXX	XXXX	XXXXXXX	1176	XXXXX	XXXXX
Level Of Service	e Modul	e:									
Stopped Del: 14	.2 хххх	10.7	XXXXX	XXXX	XXXXX	XXXXX	XXXX	XXXXXX	8.2	жж	XXXXXX
LOS by Move:	B *	В	. *	*	*	*	*	*	. А	*	*
Movement: I	T - LTR	- RT	LT -	LTR	- RT	LT -	LTR	- RT	LT -	LTR	- RT
Shared Cap.: xx	XX XXX	XXXXX	XXXX	XXXX	XXXXX	XXXX	XXXX	XXXXXXX	XXXX	XXXX	XXXXXX
Shrd StpDel:xxx	xx xxx	xxxxx	XXXXX	XXXX	xxxxx	XXXXX	xxxx	XXXXX	8.2	XXXX	XXXXXX
Shared LOS:	* *	*	* .	*.	*	*	*	*	, A	*	*
ApproachDel:	12.3		XX	XXXX		, x:	CCCCC		X	20000	
ApproachLOS:	. В			*			* 1			*	

November 2003

Level Of Service Computation Report 2000 HCM Unsignalized (Future Volume Alternative) Existing PM

Intersection #4: Bay/Laguna [N/S:Laguna E/W: Bay]



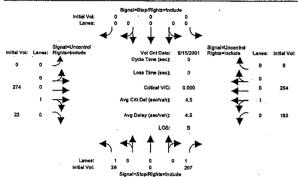
Oldstein-order to the automa												
Approach:	No	rth Bo	ound	Son	uth B	ound	E	ast B	ound	We	est Br	ound
Movement:	L ·	- T	→ R	L	- T	- R	L	- T	- R	L ·	- T	→ R
									(Į		
Volume Modul	e: `>>	Count	Date	: 15 M	ay 20	01 <<						
Base Vol:		0			0			274				0
Growth Adj:										1.00		1.00
Initial Bse:					. 0	0	0	274	1.5	181	254	0
Added Vol: Campus Incr:	0	0	0		0		0	0	0	0	0	0
Campus Incr:	0	. 0	0	0	.0	0	0	٥	0	0	0	0
Initial Fut:	23	0	203	0	0	0	0	274	15	181	254	0
User 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
PHF 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
PHF Volume:	23	0	203	0	0	0	0	274	15	181	254	0
Reduct Vol:	0	.0	. 0	. 0	0	0	0	0	0	0	0	0
Final Vol.:	23	0	203	0	0	0	0	274	15	181	254	0
Critical Gap	Modu.	le:										
Critical Gp:											XXXX	XXXXXXX
FollowUpTim:	3.5	XXXX	3.3	XXXXX	XXXX	XXXXX	XXXXX	XXXX	XXXXXX	2.2	XXXX	XXXXX
Capacity Mod	ule:											
Cnflict Vol:	898	XXXX	282	XXXX	XXXX	XXXXXX	XXXXX	XXXX	XXXXXX	289	XXXXX	2000000
Potent Cap.:						XXXXXX			XXXXX	1284	XXXX	2000000
Move Cap.:	275	XXXX	762	XXXXX	XXXX	XXXXX	XXXXX	XXXX	XXXXXX	1284	XXXX	XXXXX
				11							·	
Level Of Ser				,								
Stopped Del:	19.3	XXXX	.11.4	XXXXXX	XXXX	XXXXXXX	XXXXXX	XXXX	XXXXXX	8.3	XXXXX	XXXXXX
LOS by Move:	С	*	В	*	*		•	. *	*	A	*	* *
Movement:	LT ·	- LTR	- RT	LT.	- LTR	- RT	LT ·	- LTR	- RT	LT -	- LTR	- RT
Shared Cap.:	XXXX	XXXX	XXXXX	XXXX	XXXXX	XXXXX	XXXX	XXXX	XXXXX	XXXX	XXXX	200000
Shrd StpDel:	XXXXXX	XXXX	XXXXX	XXXXX	XXXXX	XXXXXX	XXXXX	XXXX	XXXXX	8.3	XXXX	300000
Shared LOS:	* -	*	*	*	*	*	*	*	*	A	*	*
ApproachDel:		12.2	•	×	XXXXX		x	XXXXX		20	CCCC	
ApproachLOS:		В			. *			*			*	

Wed Nov 26 10:27:06 2003

November 2003

Level Of Service Computation Report 2000 HCM Unalgnalized (Future Volume Attemative) Ex + Ph 1 PM

Intersection #4: Bay/Laguna [N/S:Laguna E/W: Bay]

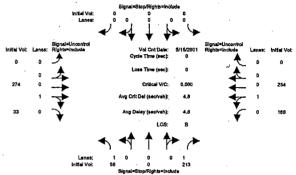


Approach:	North Bound		So	uth B	ound	E	ast B	ound	W	est B	ound		
Movement:	L	- T	- R	ъ.	- T	- R	Ŀ	- Т	- R	L	- T	- R	
							11			11			ŀ
Volume Module:	: >>	Coun	t Date	15 M	ay 20	01 <<				. ,			'
Base Vol:	23	0	203	0	٠ ٥	0	0	274	15	181	254	0	
Growth Adj: 1	L.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Initial Bse:	23	0	203	0	0	0	0	274	15	181	254	0	
Added Vol:	15	0	4	Q	0	0	0	0	7	2	0	0	
Campus Incr:	0	0	0	0	0	0	0	0	0	0	0	Ó	
Initial Fut:	38	0	207	0	0	0	0	274	22	183	254	0	
User.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	
PHF 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	
PHF Volume:	38	0	207	0	0	0	0	274	22	183	254	0	
Reduct Vol:	0	0	.0	0	0	0	0	0	0	Ö	0	0	
Final Vol.:	38	. 0	207	0	0	. 0	0	274	22	183	254	0	
Critical Gap N	lodu.	le:											
Critical Gp:	6.4	XXXX	6.2	XXXXX	XXXX	3000X	200000	XXXX	XXXXX	4.1	XXXXX	XXXXX	
FollowUpTim:	3.5	XXXXX	3.3	XXXXX	XXXX	XXXXXX	XXXXXX	XXXXX	XXXXX	2.2	XXXX	XXXXX	
													1
Capacity Modul	le:			-									
Cnflict Vol:	905	XXXX	285	XXXX	XXXX	XXXXX	XXXXX	XXXX	XXXXX	296	XXXX	XXXXX	
Potent Cap.:	309	XXXX	759	XXXX	XXXX	XXXXX	XXXX	XXXX	200000	1277	XXXX	XXXXXX	
Move Cap.:	272	XXXX	759	XXXX	XXXX	XXXXXX	XXXXX	XXXX	XXXXX	1277	XXXX	XXXXX	
													[
Level Of Servi	ce 1	iodule): :	•									
Stopped Del: 2	0.4	XXXX	11.5	XXXXX	жжж	XXXXX	XXXXX	XXXX	XXXXX	8.3	XXXX	XXXXXX	
LOS by Move:	С	*	В	*	*	*	*	*	*	A	*	. *	
Movement:	LT ·	LTR	- RT	LT -	LTR	- RT	LT ·	LTR	- RT	LT ·	- LTR	- RT	
Shared Cap.: x						XXXXXX			XXXXX	XXXX	XXXXX	XXXXXXX	
Shrd StpDel:xx	XXX	XXXX	XXXXX	XXXXX	XXXX	XXXXXX	XXXXX	XXXX	XXXXX	8.3	XXXX	XXXXX	
Shared LOS:	*	*	*	*	*	*	*	*		A	*	*	
ApproachDel:		12.9		x	00000		20	00000		30	œxx		
ApproachLOS:		В			*			*			*		
					1								

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November 2003
Level Of Service Computation Report
2000 HCM Unsignatized (Future Volume Alternative)
Ex + Ph 1 + Ph 2 PM

Intersection #4: Bay/Laguna [N/S:Laguna E/W: Bay]



Signal=Stop/Rights=Include												
Approach: No	rth Bou	nd So	uth Bo	und	E	ast B	ound	W	est B	ound		
Movement: L	- T -	R L	- т	- R	L ·	- T	~ R	L	- т	- R		
										1		
Volume Module: >>	Count I	Date: 15 M	ay 200	1 <<				•		'		
Base Vol: 23	0	203 0	0	0	0	274	15	181	254	0		
Growth 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		
Initial Bse: 23	. 0	203 0	0	0	0	274	15	181	254	0		
Added Vol: 33	. 0	10 0	. 0	0	0	0	18	5	0	0		
Campus Incr: 0		0 0	O	-0	0	0	0	0	0	0		
Initial Fut: 56			0	0	0	274	- 33	186	254	0.		
User Adj: 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		
PHF 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		
PHF Volume: 56	. 0	213 0	٠ ٥	0	0	274	33	186	254	0		
Reduct Vol: 0	0	0 0	0	0	0	0	0	0	D	0		
Final Vol.: 56	. 0	213 0	. 0	0	0	274	33	186	254	0		
Critical Gap Modu	le:											
Critical Gp: 6.4	XXXXX	6.2 XXXXXX	XXXXX 2	200000	200000	XXXX	XXXXX	4.1	XXXX	XXXXX		
FollowUpTim: 3.5	XXXX	3.3 хосоос	XXXXX :	XXXXXX	XXXXX	XXXX	XXXXX	2.2	XXXX	XXXXXX		
								1				
Capacity Module:		*										
Cnflict Vol: 916	XXXX	291 xxxx	XXXXX :	XXXXXX	XXXX	XXXXX	XXXXX	307	XXXXX	XXXXX		
Potent Cap.: 305	XXXX	753 300000	XXXXX :	XXXXXX	жжж	XXXX	XXXXX	1265	XXXX	XXXXXX		
Move Cap.: 266	XXXX	753 xxxx	XXXXX :	xxxxx	XXXX	XXXX	XXXXX	1265	хххх	XXXXXX		
			-,- 		1							
Level Of Service	Module:											
Stopped Del: 22.1	xxxxx 1	11.7 xxxxx	XXXXX 2	XXXXX	XXXXX	XXXX	XXXXX	8.3	XXXX	XXXXX		
LOS by Move: C	*	B *	*	*		*	*	A	*	*		
Movement: LT	~ LTR -	RT LT -	- LTR	- RT	LT -	LTR	- RT.	LT -	LTR	- RT		
Shared Cap.: xxxx	200000 20	OCKX XXXX	XXXX 2	XXXXX	XXXX	XXXX	XXXXX	XXXX	XXXX	XXXXX		
Shrd StpDel:xxxxx	2000000 200	OCCU XXXXXX	XXXX	XXXXX	200000	XXXX	XXXXX	8.3	XXXX	XXXXXX		
Shared LOS: *	*	* *	*	. *	*	*	*	A	*	•		
ApproachDel:	13.8	30	COCC		x	хххх		20	XXXXX			
ApproachLOS:	В		*			*			*			

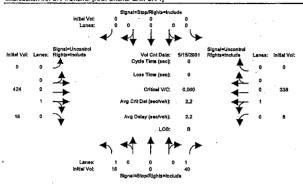
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November 2003

Level Of Service Computation Report 2008 HCM Unsignalized (Future Volume Alternative) Existing PM

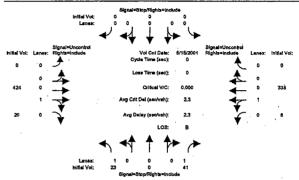
Intersection #5: SR 1/Shaffer [N/S: Shaffer E/w: SR 1]



Approach: No	rth Bound	South B	ound	East	Bound	West B	ound
	- T - R				T - R	L - T	
		1					
Volume Module: >>	Count Date	: 15 May 20	01 <<				-
Base Vol: 18	0 40	0 0	0	0 4	24 18	8 338	0
	1.00 1.00	1.00 1.00	1.00	1.00 1.	00 1.00	1.00 1.00	1.00
Initial Bse: 18	0 40	0 0	0	0 4	24 18	8 338	0
Added Vol: 0	0 0	0 0	0	0	0 0	0 0	0
Campus Incr: 0	0 0	. 0 0	0	0	0 0	0 0	Q
Initial Fut: 18	0 40	0 0	0	0 4	24 18	8 338	0
User 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
PHF 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.
PHF Volume: 18	0 40	0 0	0	0 4	24 18	8 338	0
Reduct Vol: 0	0 0	0 0	0	0	0 0	0 0	0
Final Vol.: 18	0 40	0 0	0	0 4:	24 18	8 338	0
Critical Gap Modu	le:						
Critical Gp: 6.4	xxxx 6.2	XXXXX XXXXX	XXXXX	XXXXX XX	XXX XXXXXX	4.1 xxxx	XXXXXX
FollowUpTim: 3.5	xxxx 3.3	XXXXX XXXX	XXXXXX	xxxxx xx	OK XXXXXX	2.2 хххх	XXXXX
			[
Capacity Module:		• •		•		• •	
Cnflict Vol: 787	XXXX 433	XXXX XXXX	XXXXX	XXXX XX	XXXXXXX XX	442 XXX	XXXXXX
Potent Cap.: 363	XXXX 627	XXXX XXXX	xxxxx	XXXX XX	XXXXXX XX	1129 xxxx	XXXXX
Move Cap.: 361	XXXX 627	XXXX XXXX	XXXXX	XXX XXXX	XXXXXX XX	1129 XXXX	XXXXX
		11					
Level Of Service	Module:			•		•	•
Stopped Del: 15.5	XXXX 11.1	XXXXX XXXXX	XXXXX	XXXXX XX	XXXXXX	8.2 xxxx	XXXXXX
LOS by Move: C	* B	* *	*	*	* *	A *	*
Movement: LT	- LTR - RT	LT - LTR	- RT	LT - L	FR - RT	LT - LTR	- RT
Shared Cap.: xxxx	XXXX XXXXX	XXXX XXXXX	XXXXXX	XXXX XX	жоож ю	XXXX XXXX	XXXXXX
Shrd StpDel:xxxxx	XXXX XXXXX	XXXX XXXXX	XXXXXX	XXX XXXXX	CK XXXXX	8.2 XXXX	XXXXX
Shared LOS: *	. * *	* *	*	*		A *	*
ApproachDel:	12.5	1000000		жжж	cx.	XXXXXX	
ApproachLOS:	В	! *		·.	•	*	

Level Of Service Computation Report 2000 HCM Unsignatized (Future Volume Atlemative) Ex + Ph 1 PM

Intersection #5: SR 1/Shaffer [N/S: Shaffer E/w: SR 1]



Approach:	North Bound		So	uth B	ound	E	ast B	ound	We	est B	ound	
Movement:	Ļ	- T	- R	L.	- T	- R	L	- T	- R	L ·	- T	- R
				11			11					
Volume Modul	.ė: >>	Count	Date	: 15 M	ay 20	01 <<						·
Base Vol:	18	0	40	0	. 0	0	0	424	18	8	338	0
Growth 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
Initial Bse:	18	0	40	0	0	0	0	424	18	8	338	0
Added Vol:	5	0	1	0	0	0	0	0	. 2	0	0	0
Campus Incr:	0	. 0	. 0	0	0	0	0	0	0	0	0	0
Initial Fut:	23	0	41	. 0	0	0	0	424	20	8	338	0
User 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
PHF 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
PHF Volume:	23	0	41	0	. 0	0	0	424	20	8	338	ο.
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	ò
Final Vol.:	23	0	41	0	. 0	0	0	424	20	8	338	0
Critical Gap	Modu	le:										
Critical Gp:	6.4	XXXX	6.2	XXXXXX	XXXX	XXXXX	XXXXX	XXXX	XXXXX	4.1	XXXX	XXXXXX
FollowUpTim:	3.5	XXXX	3.3	XXXXX	XXXX	XXXXX	XXXXX	XXXX	XXXXX	2.2	XXXX	XXXXX
	1			11					1	1		
Capacity Mod	ule:			•					,	•		
Cnflict Vol:		XXXX	434	XXXX	xxxx	XXXXXX	XXXX	XXXX	XXXXXX	444	xxxx	XXXXXX
Potent Cap.:				20000	xxxx	XXXXX	xxxx	XXXX	XXXXX	1127	XXXX	XXXXXX
Move Cap.:		XXXX		XXXX	XXXX	xxxx	300000	xxxx	XXXX	1127	XXXXX	XXXXX
	1			11			11			1		
Level Of Ser	vice 1	Module	:						•	•		,
Stopped Del:	15.7	XXXX	11.2	XXXXX	XXXX	2000000	xxxxx	xxxx	XXXXX	8.2	XXXX	XXXXX.
LOS by Move:				*	*	*	*	*	*	A	. *	*
Movement:		- LTR		LT -	LTR	- RT	LT ·	- LTR	- RT	LT -	LTR	- RT
Shared Cap.:	XXXX	XXXX	XXXXX	300000	2000	XXXXX	200000	30000	2000000	XXXX	XXXX	XXXXX
Shrd StpDel:	жхоок	XXXX	200000	xxxxx	XXXXX	xxxxx	XXXXX	20000	2000000	8.2	xxxx	XXXXX
Shared LOS:	*	*	*	*	*		*	*	*	A	*	*
ApproachDel:		12.8		30	OCCC		x	00000		ж.	COCOC	
ApproachLOS:		В			*			*			*	
••												

COMPARE

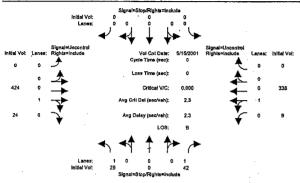
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November 2003 Level Of Service Computation Report 2000 HCM Unsignalized (Future Volume Alternative) Ex + PH 1 + Ph 2 PM

Intersection #5: SR 1/Shaffer [N/S: Shaffer E/w: SR 1]



Approach:	No	rth B	ound	Son	ath B	ound	E	ast B	ound	We	est Bo	ound
Movement:	L	- T	- R	ъ	- T	- R	L ·	- T	- R	L,	- T	- R
Volume Module	2: >>	Coun	t Date	15 M	ay 20	01 <<						·
Base Vol:	18	0	40	0	0	0	0	424	18	8	338	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	100	1.00	1.00	1.00
Initial Bse:	18	0	40	0	0	0	0	424	18	8	338	0
Added Vol:	11	0	2	0	0	0	0	0	6	1	0	0
Campus Incr:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	29	0	42	0	0	0	0	424	24	9	338	0
User 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
PHF 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
PHF Volume:	29	0	42	0	0	0	0	424	24	9	338	0
Reduct Vol:	0	0	0	. 0	0	0	0	0	. 0	0	0	0
Final Vol.:	29	0	42	0	0	0	0	424	24	و	338	0
Critical Gap	Modu.	le:										
Critical Gp:	6.4	жжж	6.2	XXXXX	XXXX	XXXXXX	XXXXXX	XXXX	XXXXX	4.1	XXXX	XXXXX
FollowUpTim:	3.5	XXXX	3.3	XXXXX	XXXX	xxxxx	XXXXXX	xxxx	XXXXXX	2.2	xxxx	XXXXX
			'	11			11			1		
Capacity Modu	ile:			• •				-		•		•
Cnflict Vol:	792	XXXX	436	XXXX	XXXX	ххохх	XXXX	XXXX	XXXXX	448	XXXX	XXXXXX
Potent Cap.:	361	xxxx	625	XXXX	XXXX	XXXXXX	XXXX	XXXX	XXXXX	1123	XXXX	xxxxxx
Move Cap.:	359	xxxx	625	XXXX	XXXX	3000000	XXXX	XXXX	XXXXX	1123	xxxx	xxxxx
				11						1		
Level Of Serv	rice 1	Module	2:					,				•
Stopped Del:	15.9	XXXX	11.2	XXXXX	XXXX	XXXXX	XXXXX	XXXX	XXXXX	8.2	XXXX	XXXXX
LOS by Move:	C	*	В	*	*	*	*	*	*	A	*	*
Movement:	LT ·	- LTR	- RT	LT ·	- LTR	- RT	LT ·	- LTR	- RT	LT -	LTR	- RT
Shared Cap.:	xxxx	XXXX	xxxxx	XXXX	XXXX	XXXXX	XXXXX	30000	XXXXXX	XXXX	XXXX	SCOCOCK
Shrd StpDel:	OCCC	xxxx	XXXXX	XXXXX	xxxx	XXXXX	xxxxx	XXXX	XXXXX	8.2	XXXX	XXXXX
Shared LOS:	*	*	*	*	*		*	*	*	A	*	*
ApproachDel:		13.1		x	OCKXX		303	XXXX		302	00000	•
ApproachLOS:		В			. *			*			*	

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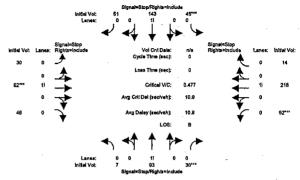
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Level Of Service Computation Report 2000 HCM 4-Way Stop (Future Volume Atlamative) Existing PM

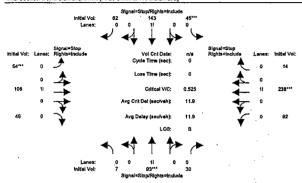
Intersection #6: Delaware/Swift [N/S: Swift E/W: Delaware]



Approach: Movement:	No:	rth B	ound	Son	ith Bo	bnuc	East B	bund	West Bo	ound
Movement:	L ·	- T	- R	L ·	- т	- R	L - T	- R	L - T	- R
Min. Green:										
Volume Modul	e:									
Base Vol:								46		14
Growth Adj:										
Initial Bse:	7	93	30	45	143	51	30 62	46		
Added Vol:	0	0	0	0	0	0	0 0	. 0	0 0,	0
Campus Incr:										
Initial Fut:								46		
User Adj:									1.00 1.00	1.00
PHF Adj:				1.00	1.00	1.00	1.00 1.00			1.00
PHF Volume:				45	143	51	30 62	46		
Reduct Vol:										
Reduced Vol:										
PCE Adj:										
MLF 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
Final Vol.:										
Saturation F										
Adjustment:										
Lanes:										
Final Sat.:										
Capacity Ana:										
Vol/Sat:		0.21			0.37	0.37				0.48
Crit Moves:			****				****		***	
Delay/Veh:							9.4 9.4			
Delay Adj:							1.00 1.00			
AdjDel/Veh:										
LOS by Move:	A	A	A	В	В	В	A A	A	в в	в.
ApproachDel: Delay Adj:		9.5			10.8		9.4		12.2	
Delay Adj:		1.00			1.00		1.00		1.00	
ApprAdjDel:		9.5			10.8		9.4		12.2	
ApprAdjDel: LOS by Appr:		A			В		A		В	

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Intersection #6: Delaware/Swift (N/S; Swift E/W; Belaware)

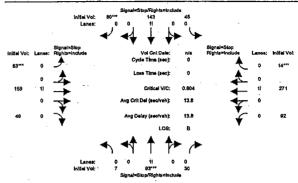


Approach:	No	rth B	ound	Şot	South Bound			ast Bo	ound	We	est Bo	nnd	
			- R			- R			- R		- Т		
										j			
Min. Green:	. 0	0	0	0	0	o ·	. 0	o	0	` 0	. 0	o o	
	1				- -					1			
Volume Modul						,				•			
Base Vol:	7	93	30	45	143	51	30	62	46	92	218	1.4	
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Initial Bse:	7	93	30	45	143	51	30	62	46	92	218	14	
Added Vol:	0	0	0	0	0	11	24	44	0	0	20	0	
Campus Incr:	0	0	0	0	0	0	0	0	0	0	0	0	
Initial Fut:	7	93	30	45	143	62	54	106	46	92	238	14	
User 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	
PHF 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	
PHF Volume:	7	93	30	45	143	62	. 54	106	46	92	238	14	
Reduct Vol:	0	0	0	0	0	0	0	0	,0	0	0	0	
Reduced Vol:	7	93	30	45	143	62	54	106	46	92	238	14	
PCE 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	
MLF 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	
Final Vol.:	7	93	30	45	143	62	54	106	46	92	238	14	
				1					1				
Saturation F	low M	odule	:	•						•		-	
Adjustment:	1.00	1.00	1.00			1.00		1.00	1.00	1.00	1.00	1.00	
Lanes:	0.05	0.72	0.23	0.18	0.57	0.25	0.26	0.52	0.22	0.27	0.69	0.04	
Final Sat.:		413			354			322			454	27	
				1						1			
Capacity Ana													
Vol/Sat:		0.23	0.23		0.40	0.40		0.33	0.33	0.52		0.52	
Crit Moves:		****		***			***				****		
Delay/Veh:					11.6			10.7			13.4		
Delay Adj:			1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
AdjDel/Veh:			10.0	11.6	11.6	11.6	10.7	10.7	10.7	13.4	13.4	13.4	
LOS by Move:		В	В	В	B	B	В	В	В	В	Э	в.	
ApproachDel:		10.0			11.6			10.7			13.4		
Delay Adj:		1.00			1.00			1.00			1.00		
ApprAdjDel:		10.0			11.6			10.7			13.4		
LOS by Appr:		В			B			В			В		

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Level Of Service Computation Report 2000 HCM 4-Way Stop (Future Volume Atternative) Ex + Ph 1 + Ph 2 PM

Intersection #6: Delaware/Swift [N/S: Swift E/W: Delaware]



Approach:	No:	rth Bo	ound	So	South Bound			ast Bo	ound	W	est B	ound	
Movement:	ь		- R		- т	- R		T		L	- т	- R	
Min. Green:	o	0		' '0	. 0		· 0	0		່ 0	0	· ·	
Volume Module				1						,			
Base Vol:	7	93	30	45	143	51	30	62	46	92	218	14	
Growth 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	•
Initial Bse:	7	. 93	30	45	143	51	30	62	46	92	218	14	
Added Vol:	0	0	0	0	0	- 29	53	97	0	0	53	0	
Campus Incr:	0	0	. 0	0	. 0	. 0	ď	0	0	0	0	0	
Initial Fut:	7	93	30	45	143	80	83	159	46	92	271	14	••
User 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	
PHF 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	
PHF Volume:	. 7	93	30	45	143	80	83	159	46	92	271	14	
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0	
Reduced Vol:	7	93	30	45	143	80	83	159	46	92	271	14	
PCE Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
MLF Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Final Vol.:	7	93	30	45	143	80	83	159	46	92	271	14	
										1		1	
Saturation Fi	low Mo	odule:											
Adjustment:	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
Lanes:	0.05	0.72	0.23	0.17	0.53	0.30	0.29	0.55	0.16	0.24	0.72	0.04	
Final Sat.:	28	372	120		. 309	173	174		96		449	23	
										1			
Capacity Anal													
Vol/Sat:	0.25	0.25	0.25	0.46	0.46	0.46		0.48	0.48	0.60	0.60		
Crit Moves:		***				****	***					****	
Delay/Veh:	10.7	10.7	10.7	13.0	13.0	13.0		13.1			15.9		
Delay Adj:	1.00	1.00	1.00	1.00		1.00		1.00			1.00		
AdjDel/Veh:		10.7	10.7	13.0		13.0		13.1	13.1		15.9	15.9	
LOS by Move:	В	В	В	в.		В	В	B	В	С	C	C	
ApproachDel:		10.7			13.0			13.1			15.9		
Delay Adj:		1.00			1.00			1.00			1.00		
ApprAdjDel:		10.7			13.0			13.1			15.9		
LOS by Appr:		В			В			В			C		

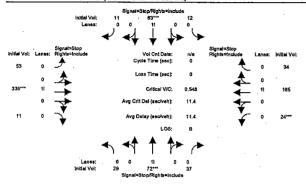
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November 2002

Level Of Service Correputation Report 2000 HCM 4-Way Stop (Future Volume Alternative)

Intersection #7: Delaware/Almar (N/S: Almar E/W: Delaware)



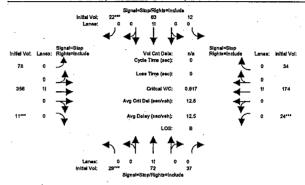
Approach:	No	rth B	ound	South Bound			East Bound			Wes	st Bo	und
Movement:	Ŀ	- T	- R	L-	- T	- R	L.	- T	- R	L -	T	- R
				1		·						
Min. Green:	0				0			0		. 0		o ·
Volume Modul												
Base Vol:	29	.72	37	12	63	11	53	336	11	24	165	34
Growth Adj:		1.00		1.00		1.00		1.00	1.00	1.00 1		1.00
Initial Bse:		72	37	12	63	11	53	336	. 11	24	165	34
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Campus Incr:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	29	72	37	12	63	11	53	336	11	24	165	34
User Adj:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	.1.00	1.00 1	00	1.00
PHF Adj:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00 1	.00	1.00
PHF Volume:	29	72	37	12	63	11	53	336	11	24	165	34
Reduct Vol:	0	0	0	0	0	0	0	ó	0	0	0	0
Reduced Vol:	29	72	37	12	63	11	53	336	11	24	165	34
PCE Adj:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	. 1.00	1.00 1	.00	1.00
MLF Adj:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00 1	.00	1.00
Final Vol.:	29	72	37	12	63	11	53		11		165	34
Saturation F												
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00 1	.00	1.00
Lanes:		0.52	0.27	0.14	0.73	0.13	0.13	0.84	0.03	0.11 0	.74	0.15
Final Sat.:			163		427	74	97		20		516	106
Capacity Anal												
Vol/Sat:	0.23		0.23	0.15		0.15	0.55	0.55	0.55	0.32 0	.32	0.32
Crit Moves:		****			****			****		****		
Delay/Veh:		9.7	9.7	9.4	9.4	9.4	13.1	13.1	13.1	10.1 1	0.1	10.1
Delay 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
AdjDel/Veh:	9.7	9.7	9.7	9.4	9.4	9.4	13.1	13.1	13.1	10.1 1	0.1	10.1
LOS by Move:	A	A	A	A	A	A	В	В	В	В	В	В
ApproachDel:		9.7		- 1	9.4			13.1		1	0.1	
Delay Adj:		1.00			1.00			1.00		1	.00	
ApprAdjDel:		9.7			9.4			13.1		1	0.1	
LOS by Appr:		A			A			В			В	

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Level Of Service Computation Report 2000 HCM 4-Way Stop (Future Volume Attenuative) Ex + Ph 1 PM

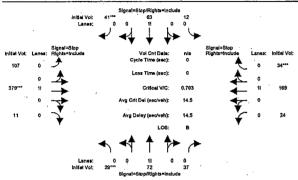
Intersection #7: Delaware/Almar [N/S: Almar E/W: Delaware]



Approach:	North Bound			South B	ound	East	Bound	West Bo	ound
Movement:	L	- Т	- R	L - T	- R	L - 1	- R	L - T	~ R
Min. Green:		0		0 0			0 0	0 0	
									1
Volume Module	e :					-		•	•
Base Vol:	29	72	37	12 63	11	53 33	6 11	24 165	34
Growth Adj:	1.00	1.00	1.00	1.00 1.00	1.00	1.00 1.0	0 1.00	1.00 1.00	1.00
Initial Bse:	29	72	37	12 63	11	53 33	6 11	24 165	34
Added Vol:	0	0	Ö	0 0	11	25 2	0 0	0 9	0
Campus Incr:	0	0	0	0 . 0	0	0	0 0	0 0	0
Initial Fut:	29	72	37	12 63	22	78 35	6 11	24 174	34
User Adj:	1.00	1.00	1.00	1.00 1.00	1.00	1.00 1.0	0 1.00	1.00 1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00 1.00	1.00	1.00 1.0	0 1.00	1.00 1.00	1.00
PHF Volume:	29	72	37	12 63	22	78 35	6 11	24 174	34
Reduct Vol:	0	. 0	0	0 0	0	0	0 0	0 0	. 0
Reduced Vol:	29	72	37	12 63	22	78 35	6 11	24 174	34
PCE Adj:	1.00	1.00	1.00	1.00 1.00	1.00	1.00 1.0	0 1.00	1.00 1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00 1.00	1.00	1.00 1.0	0 1.00	1.00 1.00	1.00
Final Vol.:	29	72	37	12 63	22	78 35	6 11	24 174	34
Saturation Fl	low Mo	dule		•	•	•		•	•
Adjustment:	1.00	1.00	1.00	1.00 1.00	1.00	1.00 1.0	0 1.00	1.00 1.00	1.00
Lanes:	0.21	0.52	0.27	0.12 0.65	0.23	0.18 0.8	0 0.02	0.10 0.75	0.15
Final Sat.:	123	306	157	70 369	129	126 57	7 18	70 510	100
Capacity Anal	Lysis	Modu]	e:	•				•	
Vol/Sat:	0.24	0.24	0.24	0.17 0.17	0.17	0.62 0.6	2 0.62	0.34 0.34	0.34
Crit Moves:	***				***		****	***	
Delay/Veh:	10.0	10.0	10.0	9.6 9.6	9.6	15.0 15.	0 15.0	10.4 10.4	10.4
		1.00	1.00	1.00 1.00	1.00	1.00 1.0	0 1.00	1.00 1.00	1.00
	10.0	10.0	10.0	9.6 9.6	9.6	15.0 15.	0 15.0	10.4 10.4	10.4
LOS by Move:	В	В	В	A A	A	в в	В	в в	В
ApproachDel:	,	10.0		9.6		15.	0 .	10.4	_
Delay Adj:		1.00		1.00		1.0	0	1.00	
AppradiDel:		10.0		9.6		15.		10.4	
LOS by Appr:		В		A		В.		В.	
wi whit.		-						_	

Level Of Service Computation Report 2000 HCM 4-Way Stop (Future Volume Alternative) Ex + Ph 1 + Ph 2 PM

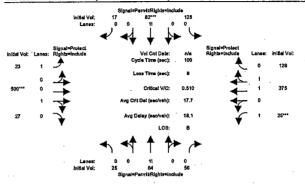
Intersection #7: Delaware/Almar [N/S: Almar E/W: Delaware]



Approach:	No	rth Bo	ound	Sou	South Bound			ast Bo	und	We	est Bo	und
Movement:	L		- R			- R		- T			- т	- R
									·			
Min. Green:	0			0	0		0		0	. 0	0	0
											-	
Volume Modul												
Base Vol:	29	72	37	13	63	11	53	336	11		165	34
Growth Adj:		1.00	1.00	1.00		1.00		1.00	1.00		1.00	1.00
Initial Bse:	29	72	37	12	63	11	53	336	11	24	165	34
Added Vol:	0	0	0	0	0	30	54	43	0	0	24	0
Campus Incr:	0		0	0	0	0	0	0	0	0	0	0
Initial Fut:		72	37	12	63	41	107	379	11	24	189	34
User Adj:		1.00	1.00	1.00		1.00		1.00	1.00		1.00	1.00
PHF Adj:		1.00	1.00	1.00		1.00		1.00	1.00	1.00		1.00
PHF Volume:	.29	72	37	12	63	41	107	379	11	24	189	34
Reduct Vol:	0	0	0	0	0	0	. 0	0	0	0	0	. 0
Reduced Vol:			37	12	63	41	107	379	11	24		
PCE Adj:		1.00		1.00		1.00		1.00	1.00		1.00	1.00
MLF Adj:		1.00	1.00	1.00		1.00		1.00	1.00		1.00	1.00
Final Vol.:		72	37	12	63	41		379	11	24		34
											-	
Saturation F												
Adjustment:								1.00			1.00	1.00
Lanes:		0.52		0.10		0.35		0.76	0.02		0.76	0.14
Final Sat.:					300	195		. 539	16		501	90
Capacity Ana								*				
Vol/Sat:		0.25	0.25	0.21	0.21		0.70	0.70	0.70	0.38	0.38	0.38
Crit Moves:						****		***				***
Delay/Veh:				10.1		10.1		18.3	18.3		11.1	11.1
Delay Adj:				1.00		1.00		1,00	1.00		1.00	1.00
AdjDel/Veh:				10.1		10.1		18.3	18.3		11.1	11.1
LOS by Move:	₿		В		В	В	C	C	C	В	В	В
ApproachDel:		10.4			10.1			18.3			11.1	
Delay Adj:		1.00			1.00			1.00			1.00	
ApprAdjDel:		10.4			10.1			18.3			11.1	
LOS by Appr:		В			В			· C			В	

Level Of Service Computation Report 2000 HCM Operations (Future Volume Atternative) Extelling PM

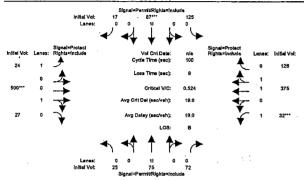
Intersection #8: SR 1/Western [N/S: Western E/w; SR 1]



Approach:	No	rth Bo	ound			und		ast Bo			est Bo	
Movement:			- R			- R			- R		- т	
						1						
Min. Green:			0.		0				٥.		0	
Volume Module												
Base Vol:	25			125	82		23		27	25	375	126
Growth Adj:		1.00		1.00		1.00		1.00	1.00		1.00	1.00
Initial Bse:				125	82	17	23	500	27	25	375	126
Added Vol:	0	. 0		0	0	0	0	0	0	0	0	0
Campus Incr:			0	0	0	0	0	•	0	0	0	0
Initial Fut:					82		23					126
User Adj:	1.00	1.00				1.00		1.00			1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			1.00	1.00
PHF Volume:	25	. 64	56	125	82	17	23	500	27	25	375.	
Reduct Vol:	0	0	0	0	0	0	Ó	0	0	0	0	0
Reduced Vol:	25	64	56	125	82	17	23	500	27	25	375	126
PCE Adj:	1.00	1.00	1.00	1.00			1.00	1.00		1.00	1.00	
MLF Ad1:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.:	25	64	56	125	82	17	23	500	27	25	375	126
									1			· .
Saturation F	low M	odule	•						•			
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adiustment:	0.86	0.86	0.86	0.72	0.72	0.72	0.93	0.97	0.97	0.93	0.90	0.90
Lanes:			0.39		0.37	0.07	1.00	0.95	0.05	1.00	1.50	0.50
Final Sat.:	283	725	635		499	104		1752	95		2547	856
			1				1					
Capacity Ana				•		•	•		,			
Vol/Sat:			0.09	0.16	0.16	0.16	0.01	0.29	0.29	0.01	0.15	0.15
Crit Moves:					****			****		****		
Green/Cycle:	0.32	0 32	0.32	0.32	0.32	0.32	0.05	0.56	0.56	0.03	0.54	0.54
Volume/Cap:							0.27				0.27	
Delay/Veh:		25.5				28.5	47.7			56.6	12.5	12.5
User DelAd1:								1.00			1.00	1.00
AdiDel/Veh:		25.5		28.5				14.0			12.5	12.5
DesignQueue:						1	1		1	1	10	3
restandnene:		4	_			-	-	13	-	_		

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex + Ph 1 PM

Intersection #8: SR 1/Western [N/S: Western E/w: SR 1]

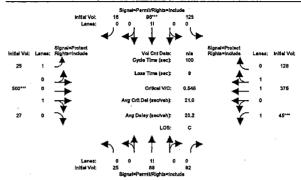


Approach:	No:	rth Bo	ound	South Bound		East Bound		ound	We	est Bo	und	
Movement:	L ·			L -	_		L ·		R		- T	- R
									:			
Min. Green:	0	0			0			0		0		0
Volume Module				1			,		,			
Base Vol:	25	64	56	125	82	17	23	500	27	25	375	126
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1:00	1.00
Initial Bse:	25	64	56	125	82	17	23	500	27	25	375	126
Added Vol:	0	11	16	0	5	0	1	0	0	7	0	a
Campus Incr:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	25	75	72	125	87	. 17	24	500	27	32	375	126
User 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
PHF 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
PHF Volume:	25	75	72	125	87	17	24	500	27	32	375	126
Reduct Vol:	0	0	0	0	0	0	0	0	. 0	0	0	0
Reduced Vol:	25	75	72	125	87	17	24	500	27	32	375	126
PCE 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
MLF 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
Final Vol.:	25	75	72	125	87	17	24	500	27	32	375	126
										1		1
Saturation Fl	ow Mo	dule:							· ·			•
		1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.87	0.87	0.87	0.70	0.70	0.70	0.93	0:97	0.97	0.93	0.90	0.90
		0.44	0.42	0.55		0.07	1.00	0.95	0.05	1.00	1.50	0.50
Final Sat.:	240		691	722		98		1752	95		2547	856
							 -					
Capacity Anal												
	0.10	0.10	0.10	0.17	0.17	0.17	0.01	0.29	0.29	0.02	0.15	0.15
Crit Moves:					****			****		****		
Green/Cycle:				0.33		0.33	0.05	0.54	0.54	0.03	0.53	0.53
Volume/Cap:	0.32	0.32	0.32	0.52	0.52	0.52.	0.28	0.52	0.52	0.52	0.28	0.28
Delay/Veh:	25.4	25.4	25.4	28.3	28.3	28.3	47.6	15.0	15.0	55.5	13.0	13.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	25.4		25.4	28.3		28.3	47.6	15.0	15.0	55.5	13.0	13.0
DesignQueue:	1	3	3	5	3	1	1	14	1	. 2	10	3

Wed Nov 26 10:27:06 2003

Level Of Service Computation Report
2000 HCM Operations (Future Volume Atternative)
Ex + Ph 1 + Ph 2 PM

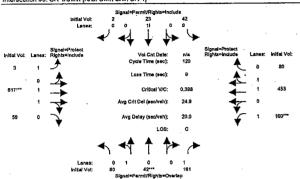
Intersection #8; SR 1/Western [N/S: Western E/w: SR 1]



Min. Green: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	- R 0 126 1.00 126 0
Min. Green: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	126 1.00 126 0
Volume Module: Base Vol: 25 64 56 125 82 17 23 500 27 25 375 Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	126 1.00 126 0
Base Vol: 25 64 56 125 82 17 23 500 27 25 375 Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	1.00 126 0 0
Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	1.00 126 0 0
Initial Bse: 25 64 56 125 82 17 23 500 27 25 375	126 0 0
	0
	ō
Added Vol: 0 25 36 0 14 1 2 0 0 20 0	•
Campus Incr: 0 0 0 0 0 0 0 0 0 0 0	126
Initial Fut: 25 89 92 125 96 18 25 500 27 45 375	
User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	1.00
PHF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	1.00
PHF Volume: 25 89 92 125 96 18 25 500 27 45 375	126
Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0	0
Reduced Vol: 25 89 92 125 96 18 25 500 27 45 375	126
PCE Adi: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	1.00
MLF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	1.00
Final Vol.: 25 89 92 125 96 18 25 500 27 45 375	126
Saturation Flow Module:	1
Sat/Lane: 1900 1900 1900 1900 1900 1900 1900 190	1900
Adjustment: 0.87 0.87 0.87 0.68 0.68 0.68 0.93 0.97 0.97 0.93 0.90	0.90
Lanes: 0.12 0.43 0.45 0.52 0.40 0.08 1.00 0.95 0.05 1.00 1.50	0.50.
Final Sat.: 202 718 742 671 515 97 1769 1752 95 1769 2547	856
	1
Capacity Analysis Module:	,
Vol/Sat: 0.12 0.12 0.12 0.19 0.19 0.19 0.01 0.29 0.29 0.03 0.15	0.15
Crit Moves: **** **** ****	
Green/Cycle: 0.34 0.34 0.34 0.34 0.34 0.34 0.34 0.05 0.52 0.52 0.05 0.52	0.52
Volume/Cap: 0.36 0.36 0.36 0.55 0.55 0.55 0.28 0.55 0.55 0.28	0.28
Delay/Veh: 25.2 25.2 25.2 28.1 28.1 28.1 47.6 16.6 16.6 54.1 13.6	13.6
User DelAdj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	1.00
AdjDel/Veh: 25.2 25.2 25.2 28.1 28.1 28.1 47.6 16.6 16.6 54.1 13.6	13.6
DesignOueue: 1 3 3 5 4 1 1 14 1 2 10	3

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Existing PM

Intersection #9: SR 1/Swift [N/S: Swift E/w: SR 1]



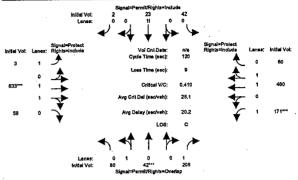
Approach:	No:	rth Bo	ound	South Bound			East Bound			We	est Bo	und
Movement:			- R	L ·	- т	- R	L -	T	- R	L.	- т	- R
	1			J						1		
Min. Green:		0	o'	٠ ،	0	o'	. 0			. 0		o ·
	1		1	1					1	1		
Volume Module				•		'	,		•			
Base Vol:	80	42	181	42	23	2	3	617	59	160	453	80
Growth Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:		42	181	42	23	2	3	617	59	160	453	80
Added Vol:	0	. 0	0	0	0	0	0	0	0	0	0	0
Campus Incr:	0	0	ō	0	0	0	0	0	0	0	0	0
Initial Fut:		42	181	42	23	2	3	617	59	160	453	80
User Adj:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Ad:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	80	42	181	42	23	2	3	617	59	160	453	. 80
Reduct Vol:	0	0	0	0	0	0	.0	o o	. 0	0	0	0
Reduced Vol:	80	42	181	42	23	2	3	617	59	160	453	80
PCE Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.:	80	42	181	42	23	2	3	617	59	160	453	80
				1								
Saturation F	low M	odule	, '				•			•		
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.76	0.76	0.83	0.77	0.77	0.77	0.93	0.92	0.92	0.93	0.91	0.91
Lanes:		0.34	1.00	0.63	0.34	0.03	1.00	1.83	0.17	1.00	1.70	0.30
Final Sat.:		497	1583	917	502	44	1769	3187	. 305	1769	2941	519
~	1		1	1							.	
Capacity Ana				•		,	•		,			
Vol/Sat:		0.08	0.11	0.05	0.05	0.05	0.00	0.19	0.19	0.09	0.15	0.15
Crit Moves:		***						***		****		
Green/Cycle:	0.21	0.21	0.44	0.21	0.21	0.21	0.01	0.49	0.49	0.23	0.71	0.71
Volume/Cap:				0.22	0.22	0.22	0.22	0.40	0.40	0.40	0.22	0.22
Delay/Veh:					39.4	39.4	67.1	19.8	19.8	40.1	6.2	6.2
User DelAdj:				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:		41.6	21.5		39.4	39.4	67.1	19.8	19.8	40.1	6.2	6.2
DesignOueue:			. 7	2		0	0	22	. 2	8	9	2

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Level Of Service Computation Report 2000 HCM Operators (Future Volume Alternative) Ex + Ph 1 PM

Intersection #9: SR 1/Swift [N/S: Swift E/w: SR 1]

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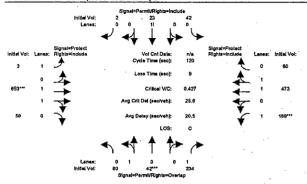
Approach:	Noz	th Bo	und	Sou	ith Bo	und	Ea	st Bo	ound	We	st Bo	und
Movement:	L -	т	~ R	L.	- т	- R	L -	т	- R	L -	- T	- R
				1				. .				
Min. Green:	' a	0	o'	ه ٔ	0	oʻ	` 0	0	o ·	. 0	0	0
			1	1			1	. 				
Volume Module							•					
Base Vol:	80	42	181	42	23	2	3	617	59	160	453	. 80
Growth Adj:	1.00	1.00	1.00			1.00	1.00		1.00	1.00		1.00
Initial Bse:	80	42	181	42	23	2	3	617	59	160	453	80
Added Vol:	0	0	24	0	0	0	0	16	0	11	7	0
Campus Incr:	0	0	0	0	0	0	0	0	. 0	0	0	0
Initial Fut:	80	42	205	42	23	2	3	633	59	171		80
User Adj:	1.00	1.00	1.00		1.00	1.00	1.00		1.00		1.00	1.00
PHF Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00		1.00
PHF Volume:	80	.42	205	42	23	. 2	3	633	59	171	460	80
Reduct Vol:	0	0	0	0	Ò	0	0	0	0	0	0	0
Reduced Vol:	80	42	2,05	42	23	2	3	633	59	171	460	80
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00		1.00	
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00
Final Vol.:	80	42	205	42	. 23	2	3	633	59	171	460	80
Saturation F.	LOW MO	dule:		•								
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	. 1900	1900	1900	1900
Adjustment:	0.76	0.76	0.83	0.77	0.77	0.77	0.93	0.92	0.92	0.93	0.91	0.91
Lanes:	0.66	0.34	1.00	0.63	0.34	0.03	1.00	1.83	0.17		1.70	0.30
Final Sat.:	946	497	1583	916	502	44	1769	3194	298	1769	2947	513
	l										-,	
Capacity Ana	lysis	Modu]	le:	•		•						
Vol/Sat:			0.13	0.05	0.05	0.05	0.00	0.20	0.20		0.16	0.16
Crit Moves:		****						***		****		
Green/Cycle:	0.21	0.21	0.44	0.21	0.21	0.21	0.01	0.48	0.48		0.71	0.71
Volume/Cap:		0.41		0.22	0.22	0.22	0.22	0.41	0.41	0.41	0.22	0.22
Delay/Veh:		42.2		40.0	40.0	40.0	67.1	20.2	20.2	39.5	6.0	6.0
User DelAdj:				1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00
AdiDel/Veh:		42.2	21.7	40.0	40.0	40.0	67.1	20.2	20.2	39.5	6.0	6.0
DesignOueue:	4		8	. 2	1	0	0	23	2	9	9	2
	_	_										

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Ex + Ph 1 + Ph 2 PM

Intersection #9: SR 1/Swift [N/S: Swift E/w: SR 1]



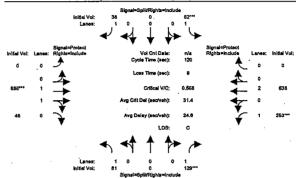
Approach:	No:	rth Bo	ound	South Bound			E	ast Bo	ound	We	est Bo	und	
Movement:	ь	- T	- R	L ·	- T	- R	L.	- T	- k	L,	· T	- R	
									1				
Min. Green:	0	. 0	0	. 0		o`		. 0	oʻ	٠ ٥	0	o`	
				1			1						
Volume Module	:		,				•			•	•	•	
Base Vol:	80	42	181	42	23	2	3	617	59	160	453	80	
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Initial Bse:	80	42	181	42	23	2	3	617	59	160	453	80	
Added Vol:	0	0	53	0	0	0	0	36	0	29	20	0	
Campus Incr:	0	0	0	0	0	0	0	. 0	0	0	0	0	
Initial Fut:	80	42	234	42	23	2	3	653	59	189	473	80	
User 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	
PHF 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	
PHF Volume:	80	42	234	42	23	2	3	653	59	189	473	80	
Reduct Vol:	0	0	. 0	0	0	0	0	0	0	0	0	0	
Reduced Vol:	80	42	234	42	23	2	3	653	59	189	473	80	
PCE 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	
MLF 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	
Final Vol.:	80	42	234	42	23	2	3	653	59	189	473	80	
										1			
Saturation Fl	low Mo	dule:				•	•		. ,				
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	
Adjustment:	0.76	0.76	0.83	0.77	0.77	0.77	0.93	0.92	0.92	0.93	0.91	0.91	
Lanes:	0.66	0.34	1.00	0.63	0.34	0.03	1.00	1.83	0.17	1.00	1.71	0.29	
Final Sat.:	944	496	1583	914	500	44	1769	3206.	290	1769	2959	501	
							1			1			
Capacity Anal	ysis	Modu]	le:			'	•			•		•	
Vol/Sat:	0.08	0.08	0.15	0.05	0.05	0.05	0.00	0.20	0.20	0.11	0.16	0.16	
Crit Moves:		****						****		****			
Green/Cycle:	0.20	0.20	0.45	0.20	0.20	0.20	0.01	0.48	0.48	0.25	0.72	0.72	
Volume/Cap:	0.43	0.43	0.33	0.23	0.23	0.23	0.22	0.43	0.43	0.43	0.22	0.22	
Delay/Veh:	43.2	43.2	. 21.7	40.8	40.8	40.8	67.4	20.8	20.8	38.5	5.7	5.7	
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
AdjDel/Veh:	43.2	43.2	21.7	40.8	40.8	40.B	67.4	20.8	20.8	38.5	5.7	5.7	
DesignQueue:	4	2	9	2	1	0	0	24	2	10	9	2	

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Level Of Service Computation Report 2000 HCM Operations (Future Volume Alterna

Intersection #10: Mission/Almar [N/S: Almar E/w: Mission]

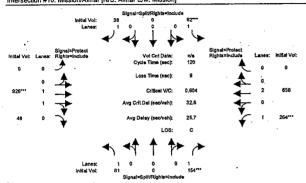


Approach:	No	rth Bo	und				E		ound	W	est Bo	band
Movement:		- T			- т		r.		- R	_	- T	
			·									
Min. Green:	0		. 0			0					0	0
Volume Modul	ė:											
Base Vol:	81	0	129	62	0	38	0	886	48	253	638	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	81	. 0	129	62	0	38	0	886	48	253	638	0
Added Vol:	0	0	0	0	0	0	. 0	0	0	0	0	0
Campus Incr:	0	0	0	0	. 0	0	0	0	0	0	0	0
Initial Fut:	81	0	129	62	0	38	0	886	48	253	638	0
User 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
PHF 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
PHF Volume:	81	0	129	62	0	38	0	886	48	253	638	0
Reduct Vol:	0	0	0	0	. 0	0	0	0	0	0	0	0
Reduced Vol:	81	0	129	62	0	38	0	886	48	253	638	0
PCE Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.:		0	129	62	0-	38	0	886	48	253	638	0
				1		1	1			1		
Saturation F						,	•					
Sat/Lane:			1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:		1.00	0.83	0.93	1.00	0.83	1.00	0.92	0.92	0.93	0.93	1.00
	1.00		1.00			1.00		1.90			2.00	0.00
Final Sat.:		. 0		1769	0			3329			3538	0.00
Capacity Ana	vete	Modul	۱ و		•	,	1		,	,		
Vol/Sat:		0.00		0.04	0.00	0.02	0.00	0.27	0.27	0.14	0.18	0.00
Crit Moves:	0.05	•	****	****				****		****		
Green/Cycle:	0 14	0.00	0.14	0.06	0.00	0.06	0.00	0.47	0.47	0.25	0.72	0.00
Volume/Cap:		0.00	0.57	0.57		0.39		0.57			0.25	0.00
Delay/Veh:			51.3	61.7	0.0	56.7		23.6		40.9		0.0
User DelAdj:			1.00	1.00		1.00		1.00			1.00	1.00
AdjDel/Veh:			51.3	61.7		56.7		23.6		40.9		0.0
DesignQueue:			. 8		0.0	2	0.0	34	23.0	13	12	0.0
nesiduõnene:		v	. 6	*		2	U	34	4	7.3	12	U

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November 2003 Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex + Ph 1 PM

Intersection #10: Mission/Almar [N/S: Almar E/w: Mission]



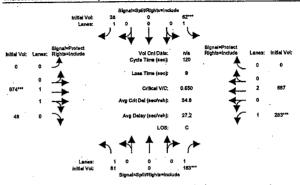
Approach:	No:	rth Bo	ound	South Bound		E	ast Bo	ound	we	est Bo	una	
Movement:	L ·	- Т		L.				- T		L -	_	- R
		<i>-</i>								1		
Min. Green:	. 0	0	0	0	0	0		0	0		. 0	0
				1			ļ					
Volume Modul												
Base Vol:	81	0	129	62	0	38	0	886	48	253	638	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00
Initial Bse:	81	. 0	129	62	0	38	0	886	48	253	63B	0
Added Vol:	- 0	0	25	0	0	0	0	40	0	11	. 18	0
Campus Incr:	0	0	0	0	0	- 0	0	0	0	0	0	0
Initial Fut:	81	0	154	62	0	38	0	926	48	264	656	0
User Adj:	1.00	1.00	1.00		1.00	1.00		1.00	1.00	1.00		1.00
PHF 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
PHF Volume:	81	0	154	62	0	38	0	926	48	264	656	0
Reduct Vol:	0	. 0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	. 81	0	154	62	0	38	0	926	. 48	264	656	D
PCE 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
MLP 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
Final Vol.:	81	0	154	62	D	38	0	926	48	264	656	0
Saturation F						,	٠.		-			
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.93	1.00	0.83	0.93	1.00	0.83		0.92	0.92		0.93	1.00
Lanes:	1.00	0.00	1.00	1.00	0.00	1.00	0.00	1.90	0.10	1.00	2.00	0.00
Final Sat.:	1769	0	1583	1769	0	1583		3340	173	1769	3538	0
				[
Capacity Ana	İysis	Modu.	le: '	•				,				
Vol/Sat:		0.00		0.04	0.00	0.02	0.00	0.28	0.28		0.19	0.00
Crit Moves:			****	****				****		****		
Green/Cycle:	0.16	0.00	0.16	0.06	0.00	0.06	0.00	0.46	0.46	0.25	0.71	0.00
Volume/Cap:			0.60	0.60	0.00	0.41	0.00	0.60	0.60	0.60	0.26	0.00
Delay/Veh:	44.8		50.9	65.0	10.0	57.6	0.0	25.0	25.0	42.4	6.4	0.0
User DelAdj:			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	44.8	0.0	50.9	65.0	0.0	57.6		25.0	25.0	42.4	6.4	0.0
DesignOueue:			9	4	0	2	0	36	2	14	13	0

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Lavel Of Service Computation Report 2000 HCM Operations (Future Volume Alternati

Intersection #10: Mission/Almar [N/S: Almar E/w: Mission]

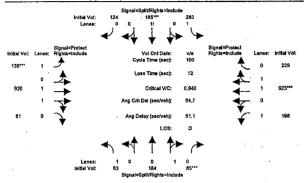


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November 2003

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Exhiling PM

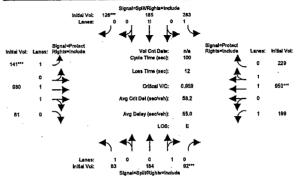
Intersection #11: Mission/Bay [N/S: Bay E/w: Mission]



Approach:	No	rth Bo	ound	Sou	ith Bo	ound	E	ast Bo	ound		st Bo	
Movement:		- T				- R			- R		· T	
Min. Green:	. 0	. 0			0				0	. 0	0	٥.
					- -							·
Volume Module	: :											
Base Vol:	83	184	85	283	185	124	136	920	81	196	923	229
Growth 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
Initial Bse:	83	184	85	283	185	124	136	920	61	196	923	229
Added Vol:	0	0	0	0	0	0	0	. 0	0	0	0	0
Campus Incr:	0	0	0	0	0	0	0	0	0	0	0	٥
Initial Fut:	83	184	85	283	185	124	136	920	81	196	923	229
User 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
PHF 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
PHF Volume:	83	184	85	283	185	124	1.36	920	81	196	923	229
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	83	184	85	283	185	124	136	920	81	196	923	229
PCE Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLP Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.:	83	184	85	283	185	124	136	920	81	196	923	229
									1			
Saturation F	low M	odule.	. '						,	•		•
Sat/Lane:		1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.91	0.92	0.92	0.91	0.91	0.91	0.93	0.92	. 0,92	0.93	0.90	0.90
Lanes:		0.68	0.32	1.31	0.41	0.28	1.00	1.84	0.16	1.00	1.60	0.40
Final Sat.:	1736	1191	550	2274	711	476	1769	3213	283	1769	2750	682
				1						1		1
Capacity Anal									,	r		•
Vol/Sat:		0.15		0.12	0.26	0.26	0.08	0.29	0.29	0.11	0.34	0.34
Crit Moves:			****		****		****				****	
Green/Cycle:	0.16	0.16	0.16	0.28	0.28	0.28	0.08	0.32	0.32	0.12	0.36	0.36
Volume/Cap:			0.94		0.94	0.94		0.91			0.94	
Delay/Veh:			78.7		67.6		102.5				44.9	
User DelAdi:			1.00		1.00			1.00			1.00	1.00
AdiDel/Veh:		78.7	78.7		57.6		102.5				44.9	44.9
DesignOueue:	4	9	4	12	8	5	7	38	3	10	36	9

i.evel OI Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex + Ph 1 PM

Intersection #11: Mission/Bay [N/S: Bay E/w: Mission]

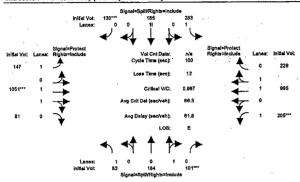


Approach:	No	rth Bo	und						ound	We	st Bo	ound
Movement:	L.		- R			~ R			- R		T	
Min. Green:			. 0	0		0				. 0		
				(
Volume Module	e:											
Base Vol:	83	184	85	283	185	124		920	81			229
Growth Adj:		1.00	1.00		1.00	1.00		1.00	1.00	1.00		1.00
Initial Bse:	83	184	85	283	185	124	136	920	81	196	923	229
Added Vol:	0	0	7	0	. 0	2	5	60	0	3	27	0
Campus Incr:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	83	184	92	283	185	126	141	980	81	199		229
User 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
PHF 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
PHF Volume:	83	184	92	283	185	126	141	980	81	199	950	229
Reduct Vol:	0	0	0	0	. 0	0	0	0	0	0	0	0
Reduced Vol:	83	184	92	283	185	126	141	980	81	199		229
PCE 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
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00
Final Vol.:			92	283	185	126	141		81.	199		229
				1			1					
Saturation F	low M	dule:		•								
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.91	0.91	0.91	0.91	0.91	0.91	0.93	0.92	0.92	0.93	0.90	0.90
Lanes:	1.00	0.67	0.33	1.31	0.41	0.28	1.00	1.85	0.15	1.00		0.39
Final Sat.:	1736	1158	579	2269	707	481		3232		1769		667
Capacity Ana	lysis	Modul	le:	-								
Vol/Sat:		0.16		0.12	0.26	0.26	0.08	0.30	0.30	0.11		0.34
Crit Moves:			***			. ****	***				****	
Green/Cycle:	0.17	0.17	0.17	0.27	0.27	0.27	0.08	0.32	0.32	0.12	0.36	0.36
Volume/Cap:		0.96	0.96	0.46	0.96	0.96		0.94	0.94	0.94		0.96
Delay/Veh:	37.1	83.1	83.1	30.4	61.9	61.9	107.2	48.0	48.0		48.1	48.1
User DelAdj:		1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00
AdiDel/Veh:		83.1	83.1	30.4	61.9	61.9	107.2	48.0	48.0	89.5	48.1	48.1
DesignQueue:			4	12	- 8	5	7	40	3	10	37	9

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Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex + Ph 1 + Ph 2 PM

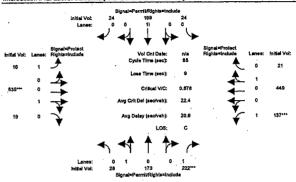
Intersection #11; Mission/Bay [N/S: Bay E/w: Mission]



								ast Bo		10.	est Bo	um đ
Approach:			ound - R			- R		. T			- T	
Movement:												
							11					0
Min. Green:	. 0	0	ο.	. 0	0	0	0	U	. 0	. 0	0	
Volume Module												
Base Vol:	83	184	85	283	185	124	136	920	81	196	923.	- 229
Growth Adj:		1.00	1.00		1.00	1.00		1.00	1.00	1.00		1.00
Initial Bse:	83	184	85	283	185	124		920			923	229
Added Vol:	0	0	16	0	0	6	11	131	0	9	72	Ó
Campus Incr:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Put:	83	184	101	283	185	130		1051	81.	205	995	229
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00
PHF 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
PHF Volume:	83	184	101	283	185	130	147	1051	81	205	995	229
Reduct Vol:	0	0	. 0	0	0	0	0	0	0	0	0	0
Reduced Vol:	83	184	101	283	185	130	147	1051	81	205	995	229
PCE 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
MLF 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
Final Vol.:		184	101	283		130		1051	81	205	995	229
Saturation F	low M	dule		•								
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.91	0.91	0.91	0.91	0.91	0.91	0.93	0.92	0.92	0.93	0.90	0.90
Lanes:	1.00	0.65	0.35	1,31	0.41	0.28	1.00	1.86	0.14	1.00	1.63	0.37
Final Sat.:	1736	1118	613	2262	700	492	1769	3249	250	1769	2795	643
Capacity Ana	ivais	Modu.	le:	•								
Vol/Sat:	0.05	0.16	0.16	0.13	0.26	0.26	0.08	0.32	0.32	0.12	0.36	0.36
Crit Moves:			****			****		****		***		
Green/Cycle:	0.17	0.17	0.17	0.27	0.27	0.27	0.08	0.33	0.33	0.12	0.36	0.36
Volume/Cap:			0.99	0.47	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99
Delay/Veh:		90.7	90.7	30.9	69.5	69.5	115.0	56.7	56.7	102.5	53.8	53.8
User DelAdi:			1.00		1.00	1.00		1.00			1.00	1.00
AdiDel/Veh:		90.7	90.7		69.5		115.0			102.5		53.8
DesignOueue:		9	5	12	8	6	8	4.3	3	10	39	9

Level Of Service Computation Report
2000 HCM Operations (Future Volume Atternative)
Existing PM

Intersection #12: Laurel/California [N/S: California E/w: Laurel]



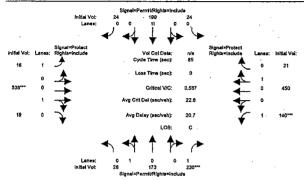
Approach:	No:	North Bound			ith Bo	und		ast Bo			est Bo		
Movement:	L.	T	- R		T T			T		Ŀ	- T	- R	
												·	
Min. Green:	. 0		o ĺ		. 0		. 0		0	. 0		0	
				{					·				
Volume Modul	ė:												
Base Vol:	28	173	222	24	199	24	16	535	19	137	449	21	
Growth Adj:		1.00	1.00		1.00	1.00	1.00	1.00	1.00		1.00	1.00	
Initial Bse:	28	173	222	24	199	24	16	535	19	137	449	21	
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0	
Campus Incr:	0	0	0	0	0	0	0	0	0	0	Q	0	
Initial Fut:	28	173	222	24	199	24	16	535	19	137	449	21	
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00		1.00	1.00	
PHF Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
PHF Volume:	28	173	222	24	199	24	16	535	19	137	449	21	
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0	
Reduced Vol:	28	173	222	24	199	24	16	535	19	137	449	21	
PCE Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
MLF Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Final Vol.:	28	173	222	24	199	24	16	535	19	137	449	21	
			1								·	۱ا	
Saturation P	low M	odule	. '	•			-						
Sat/Lane:		1900		1900	1900	1900	1900	1900	1900	1900	1900	1900	
Adjustment:	0.91	0.91	0.83	0.93	0.93	0.93	0.93	0.98	0.98	0.93	0.97	0.97	
Lanes:		0.86	1.00	0.10	0.80	0.10	1.00	0.97	0.03	1.00	0.96	0.04	
Final Sat.:		1495	1583	171	1420	171	1769	1789	64	1769	1766	83	
				I		1	1		1				
Capacity Ana						•	'		•	•			
Vol/Sat:		0.12		0.14	0.14	0.14	0.01	0.30	0.30	0.08	0.25	0.25	
Crit Moves:			****					****		***			
Green/Cvcle:	n 24	0.24	0.24	0.24	0.24	0.24	0.02	0.52	0.52	0.13	0.63	0.63	
Volume/Cap:					0.58	0.58	0.40	0.58	0.58	0.58	0.40	0.40	
Delay/Veh:		28.4			30.3			15.0	15.0	38.1	8.1	8.1	
User DelAdj:					1.00	1.00		1.00	1.00	1.00	1.00	1.00	
AdjDel/Veh:					30.3	30.3		15.0	15.0	38.1		8.1	
DesignOueue:			8	1		1	1	13	0	6	8	0	
nesiduónene:		•	۰		•		-	13	Ÿ	•	•	•	

Maria - Calanda Canta

November 2003

Level Of Service Computation Report 2000 HCM Operations (Future Volume Atternativa) Ex + Ph 1 PM

Intersection #12: Laurel/California [N/S: California E/w: Laurel]



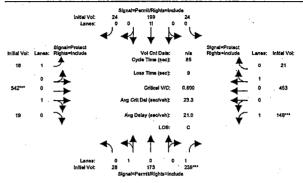
Approach:		rth Bo			uth Bo			ast Bo		We	st Bo	und
Movement:		- T			- т			- T			T	
'									·			
Min. Green:			0		0			0		. 0		0
				1			1					
Volume Modul	e:											
Base Vol:	28	173	222	24	199	24	16	535	19	137	449	21
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	28	173	222	24	199	24	16	535	19	137	449	21
Added Vol:	0	0	8	0	0	0	0	3	0	3	1	0
Campus Incr:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	28	173	230	24	199	24	16	538	19	140	450	21
User 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
PHF Adj:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	28		230	24	199	24	16	538	19	140	450	21
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:			230	.24	199	24	16	538,		140	450	21
PCE Adj:		1.00	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00
MLF 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
Final Vol.:		173	230	24		24	16		19	140		21
							1					
Saturation F	low M	odule:										•
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.92	0.83	0.93	0.93	0.93	0.93	0.98	0.98	0.93	0.97	0.97
Lanes:	0.14	0.86	1.00	0.10	0.80	0.10	1.00	0.97	0.03	1.00	0.96	0.04
Final Sat.:		1500	1583		1420	171		1789	. 63	1769	1767	82
				1			1					
Capacity Ana	lysis	Modul	.e:						-			
Vol/Sat:	0.12	0.12	0.15	0.14	0.14	0.14	0.01	0.30	0.30	0.08	0.25	0.25
Crit Moves:			****					****		****		
Green/Cycle:	0.25	0.25	0.25	0.25	0.25	0.25	0.02	0.51	0.51	0.13	0.62	0.62
Volume/Cap:	0.47	0.47	0.59	0.57	0.57	0.57	0.41	0.59	0.59	0.59	0.41	0.41
Delay/Veh:	28.0	28.0	30.5	29.7	29.7	29.7	47.8	15.4	15.4	38.3	8.3	8.3
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	28.0	28.0	30.5	29.7	29.7	29.7	47.8	15.4	15.4	38.3	8.3	8.3
DesignQueue:	1	6	. 8	1	7	1	1	13	0	6	9	0

Marine Science Center

November 2003

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Ex+Ph1+Ph2PM

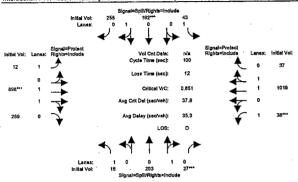
Intersection #12: Laurel/California [N/S: California E/w: Laurel]



Approach:	No	rth B	ound	So	uth B	ound	E	ast B	ound	We	est B	ound
Movement:	L		- R			- R			- R	L -	- Т	- R
	t .											
Min. Green:	. 0	0		. 0			. 0			. 0		
Volume Module												
Base Vol:	28		222	24	199	24	16	535	19		449	
Growth Adj:		1.00	1.00		1.00	1.00	1.00		1.00		1.00	
Initial Bse:	26	173	222	24	199	24	16	535	19	137	449	21
Added Vol:	0	0	17	Þ	0	0	0	7	0	9	4	0
Campus Incr:	0	0	0	0	. 0	0	0	0	0	0	0	0
Initial Fut:	28	173	239	24	199	24	16	542	19	146	453	21
User 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
PHF 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
PHF Volume:	28	173	239	24	199	24	16	542	19	146	453	. 21
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	28	173	239	24	199	24	16	542	19	146	453	21
PCE Ad1:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF 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
Final Vol.:	28	173	239	24	199	24	16	542	19	146	453	21
				1			1		[1		
Saturation F	low Mo	odule	. '	•		•	•			•		. '
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.92	0.92	0.83	0.93	0.93	0.93	0.93	0.98	0.98	0.93	0.97	0.97
Lanes:	0.14	0.86	1.00	0.10	0.80	0.10	1.00	0.97	0.03	1.00	0.96	0.04
Final Sat.:		1505			1420			1790		1769		82
				1						1		1
Capacity Ana			,	,		•	,		•	•		'
Vol/Sat:		0.11		0 14	0.14	0.14	0 01	0.30	0.30	n na	0.26	0.26
Crit Moves:			****	*			*	****	0.00	****	*	***
Green/Cycle:	0 25	0.25	0.25	0.25	0.25	0.25	0 02	0.50	0.50	0 14	0.62	0.62
Volume/Cap:		0.46			0.56	0.56		0.60		0.60		
Delay/Veh:		27.6			29.2	29.2		16.0		38.6	8.5	
User DelAdi:					1.00	1.00		1.00			1.00	
AdjDel/Veh:		27.6			29.2	29.2		16.0	16.0	38.6	8.5	8.5
			30.6		29.2	29.2	48.0	14		38.6		0.5
DesignQueue:	1	6	9	1	7	1	1	14	Q.	6	9	U

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Existing PM

Intersection #13: Mission/Laurel [N/S: Laurel E/w: MissionI]

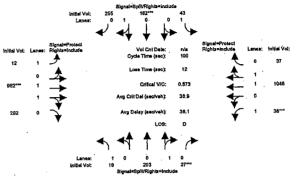


Approach:	No	rth Bo	ound	Sot	ith Bo	ound	Ea	ist Bo	ound	We	est Bo	
Movement:	L.	- т	- R	L.	- т	- R			- R	Ŀ.	- T	- R
	I											
Min. Green:	. 0	0		0		. 0			0	0		0
Volume Modul	ė:											
Base Vol:	18	203	27	43	162	255	12	898	289		1019	37
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00
Initial Bse:	18	203	27	43	162	255	12	898	289		1019	37
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Campus Incr:	0	0	0	0	0	0	0		0	0	0	0
Initial Fut:	18	203	27	43	162	255	12	898			1019	37
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00		1.00	1.00
PHF Volume:	18	203	27	43	162	255	12	898	289		1019	37
Reduct Vol:	0	0	0	0	0	0	0	. 0		0	0	0
Reduced Vol:	18	203	27	43	162	255	12	898	289		10,19	37
PCE Ad:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00
Final Vol.:	18	203	27	43	162	255	12	898	289	38	1019	37
	1											
Saturation F	low M	odule	: '									
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.93	0.96	0.96	0.93	0.89	0.89	0.91	0.88	0.88		0.91	0.91
Lanes:	1.00	0.88	0.12	1.00	0.39	0.61	1.00	1.51	0:49	1.00	1.93	0.07
Final Sat.:	1769	1614	215	1769	657	1034	1736	2533	815	1736	3334	121
	1						11					
Capacity Ana												
Vol/Sat:		0.13		0.02	0.25	0.25	0.01	0.35	0.35	0.02	0.31	0.31
Crit Moves:			****		****			****		****		
Green/Cycle:	0.15	0.15	0.15	0.29	0.29	0.29	0.01	0.42	0.42	0.03	0.43	0.43
Volume/Cap:			0.85	0.08	0.85	0.85	0.71	0.85	0.85	0.85	0.71	0.71
Delay/Veh:		63.4	63.4	25.9	\$6.B	46.8	134.5	31.6	31.6	128.5	24.8	24.8
User DelAdi:				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:				25.9	46.8	46.8	134.5	31.6	31.6	128.5	24.8	24.8
DesignQueue:				2	7	11	1	32	10	2	35	1

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Level OJ Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex + Ph 1 PM

Intersection #13: Mission/Laurel [N/S: Laurel E/w: Mission]

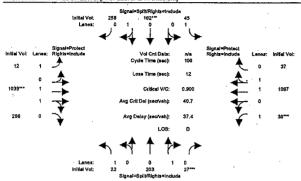


Approach:						und			und		est Bo	
Movement:	L ·	T	- R			- R			- R		т	
Min. Green:	. 0	0	. 0	0	0	0	0	0	0	. 0	0	0
						1						
Volume Module				•			•					
Base Vol:	18	203	27	43	162	255	12	898	289		1019	37
Growth Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00
Initial Bse:	18	203	27	43	162	255	12	898	289	38	1019	37
Added Vol:	1	. 0	.0	0	0	` 0	0	64	3	0	29	0
Campus Incr:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	19		27	43	162	255	12	962	292		1048	37
User Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
PHF Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
PHF Volume:		203	27	43	162	255	12	962	292	38	1048	37
Reduct Vol:	0	0	0	0	. 0	0	0	0	0	0	0	. 0
Reduced Vol:		203	27	43	162	255	12	962	292		1048	
PCE Adi:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adi:		1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Pinal Vol	19	203	27	43	162	255		962	292		1048	37
	1					1						
Saturation F	low Mo	odule:		'			•					
Sat/Lane:		1900		1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.93	0.96	0.96	0.93	0.89	0.89	0.91	0.88	0.88	0.91	0.91	0.91
Lanes:		0.88		1.00	0.39	0.61	1.00	1.53	0.47	1.00	1.93	0.07
Final Sat.:		1614			657		1736	2571	760	1736	3338	118
Capacity Ana				•			' '					
Vol/Sat:			0.13	0.02	0.25	0.25	0.01	0.37	0.37	0.02	0.31	0.31
Crit Moves:	•		****		****			****		****		
Green/Cycle:	0.14	0.14	0.14	0.28	0.28	0.28	0.01	0.43	0.43	0.03	0.44	0.44
Volume/Cap:				0.09	0.87	0.87	0.71	0.87	0.87	0.87	0.71	0.71
Delay/Veh:		67.7			50.3		135.0	32.3	32.3	137.4	24.1	24.1
User DelAdj:				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdiDel/Veh:		67.7			50.3		135.0	32.3	32.3	137.4	24.1	24.1
DesignOueue:			1	2		11	1	33	10	2	. 35	1
Den-3-2decae.	_		-	_								

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Level Of Bervice Computation Report
2000 HCM Operations (Future Volume Atternative)
Ex+Ph 1+Ph 2-PM

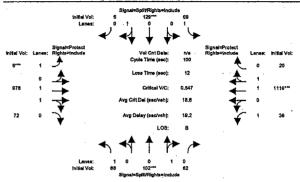
Intersection #13: Mission/Laurel [N/S: Laurel E/w: MissionI]



				South Bound								
Movement:												
Min. Green:												
Min. Green:												۰,
Volume Module							11					
Base Vol:	18	203	27	43	162	255	12	898	289	38	1019	37
Growth Adi:			1.00		1.00	1.00		1.00			1.00	
Initial Bse:			27	43		255	12	898			1019	37
Added Vol:			0	0		233						0
Campus Incr:				ō		-	-					
Initial Fut:		203		43		255	-	1039			1097	-
User Adi:	1.00	1.00	1.00	1.00	1.00	1.00		1.00			1.00	1.00
PHF Adj:	1.00	1.00	1.00		1.00	1.00		1.00			1.00	1.00
PHF Volume:			27	43	162	255		1039			1097	37
Reduct Vol:	0		0	0		0			- 0			0
Reduced Vol:			27	43	162	255	12	1039	296	38	1097	37
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00		1.00			1.00	1.00
MLF 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
Final Vol.:	22	203	27	43	162	255	12	1039	296	38	1097	37
			1							11]
Saturation F	low Mo	odule.		•								•
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.93	0.96	0.96	0.93	0.89	0.89	0.91	0.88	0.88	0.91	0.91	0.91
Lanes:	1.00	0.88	0.12	1.00	0.39	0.61	1.00	1.56	0.44	1.00	1.93	0.07
Final Sat.:						1034				1736		113
i				1								
Capacity Anal												
Vol/Sat:		0.13		0.02	0.25	0.25	0.01	0:40	0.40	0.02	0.33	0.33
Crit Moves:			***		***			****		****		
Green/Cycle:					0.27			0.44			0.46	
Volume/Cap:				0.09		0.90		0.90			0.72	
Delay/Veh:					55.2		140.3			148.6		23.6
User DelAdj:					1.00			1.00				.1.00
AdjDel/Veh:					55.2		140.3			148.6		23.6
DesignQueue:	1	10	1	2	7	11	1.	36	10	2	36	1

Level Of Service Computation Report 2000 HCM Operations (Future Volume Atternative) Existing PM

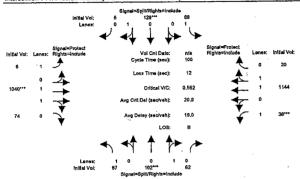
Intersection #14: Mission/Walnut [N/S: Walnut E/w: Mission]



Approach:	No	rth B	bauc	So	uth Bo	ound	E	ast Bo	ound	We	est Bo	ound
Movement:	. L	- Т	- R	, L		- R	. L		- R	L	- T	- R
Min. Green:	0	0	0	0	0	· 0 	0	0	.0	0		0
Volume Module	e:						1					
Base Vol:	66	102	62	69	129	5	6	978	72	36	1116	20
Growth Adj:	1.00	1.00		1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	66	102	62	69	129	5	6	978	72		1116	20
Added Vol:	0	0	0	0	. 0	0	0	0	0	0	0	0
Campus Incr:	. 0	0	0	0	. 0	0	0	0	0	0	0	0
Initial Fut:	66	102	62	69	129	5	6	978	72	36	1116	20
User Adj:	1.00	1.00			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF 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
PHF Volume:	66	102	62	69	129	5	6	978	72	36	1116	20
Reduct Vol:	0	0	0	0	, 0	0	0	0	0	0	0	0
Reduced Vol:	66	102	62	69	129	5	6	978	72		1116	20
PCE 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
MLF 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
Final Vol.:	66	102	62	69	129	5	6	978	72	36	1116	20
Saturation F.	low Mo	dule	:									
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.94	0.94	0.95	0.99	0.99	0.95	0.94	0.94	0.95	0.95	0.95
Lanes:	1.00	0.62	0.38	1.00	0.96	0.04	1.00	1.86	0.14	1.00	1.96	0.04
Final Sat.:	1805	1114	677	1805	1818	70	1805	3329	245	1805	3536	63
Capacity Ana.												
Vol/Sat:	0.04	0.09	0.09	0.04	0.07	0.07		0.29	0.29	0.02		0.32
Crit Moves:		****			****		****				****	
Green/Cycle:			0.17		0.13	0.13		0.55	0.55		0.58	
Volume/Cap:		0.55			0.55	0.55		0.54			0.55	0.55
Delay/Veh:		40.3		40.1		43.4		14.9			13.4	
User DelAdj:	1.00	1.00			1.00	1.00		1.00			1.00	
AdjDel/Veh:		40.3			43.4	43.4		14.9			13.4	13.4
DesignQueue:	3	5	3	3	, 6	0	0	27	2	2	28	1

November 2003 Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Ex + Ph 1 PM

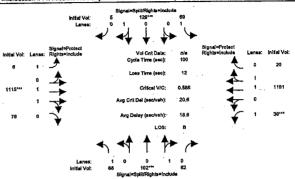
Intersection #14: Mission/Walnut [N/S: Walnut E/w: Mission]



Movement: L T R L T R L T R L T R L T R Min. Green: 0 0 0 0 0 0 0 0 0 0 0 0 0
Min. Green: 0 0 0 0 0 0 0 0 0 0
Min. Green: 0 0 0 0 0 0 0
Volume Module:
Base Vol: 66 102 62 69 129 5 6 978 72 36 1116 20
Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
Initial Bse: 66 102 62 69 129 5 6 978 72 36 1116 20
Added Vol:
Campus incr: 0 0 0 0 0 0
Initial Fue: 67 102 62 69 129 5 6 1090
USEL Adj: 1.00 1.00 1.00 1.00 2.00 2.00 2.00 2.00
PHF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
PHF Volume: 67 102 62 69 129 5 6 1040 74 36 1144 20
Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0
Reduced Vol: 67 102 62 69 129 5 6 1040 74 36 1144 20
PCE Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
MLF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
Final Vol.: 67 102 62 69 129 5 6 1040 74 36 1144 20
Saturation Flow Module:
Sat/Lane: 1900 1900 1900 1900 1900 1900 1900 190
Adjustment: 0.95 0.94 0.94 0.95 0.99 0.99 0.95 0.94 0.94 0.95 0.95 0.95
Lanes: 1.00 0.62 0.38 1.00 0.96 0.04 1.00 1.87 0.13 1.00 1.97 0.03
Final Sat.: 1805 1114 677 1805 1818 70 1805 3336 237 1805 3537 62
Capacity Analysis Module:
vol/Sat: 0.04 0.09 0.09 0.04 0.07 0.07 0.00 0.31 0.31 0.02 0.32 0.32
Crit Moves: **** **** ****
Green/Cycle: 0.16 0.16 0.16 0.13 0.13 0.13 0.01 0.56 0.56 0.04 0.58 0.58
Volume/Cap: 0.23 0.56 0.56 0.30 0.56 0.56 0.55 0.56 0.56 0.55 0.55
Delay/Veh: 36.8 41.0 41.0 40.4 44.1 44.1 99.7 14.7 14.7 58.3 13.1 13.1
User DelAdj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
AdjDel/Veh: 36.8 41.0 41.0 40.4 44.1 44.1 99.7 14.7 14.7 58.3 13.1 13.1
DesignQueue: 3 5 3 3 6 0 0 28 2 2 29 1

Level Of Service Computation Report
2000 HCM Operations (Future Volume Atternative)
Ex + Ph 1 + Ph 2 PM

Intersection #14: Mission/Walnut [N/S: Walnut E/w: Mission]



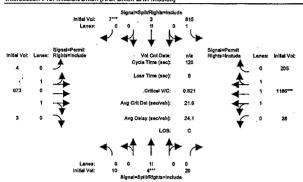
Approach:	No	th Bo	und	Sou	ith Bo	bund	Ea	st Bo	und	We	st Bo	ound
Movement:	L -			L -	· T	- R		T		L -	· T	- R
	1		1	i								
Min. Green:	٠ ٥	0	oʻ	. 0	0	0	. 0	0	0	. 0	0	0 .
			·									
Volume Modul	ė:											
Base Vol:	66	102	62	69	129	5	6	978	72		1116	20
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00
Initial Bse:	66	102	62	69	129	5	6	978	72		1116	20
Added Vol:	2	0	0	٥	0	0	0	137	4	0	75	.0
Campus Incr:	0	0	٥	0	Ó	0	0	0	0	0	0	j,ŏ
Initial Fut:	68	102	62	69	129	5		1115	76		1191	20
User Adi:	1.00	1.00	1.00	1.00	1.00	1.00		1.00			1.00	
PHF Adi:	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00
PHF Volume:	68	102	62	69	129	5	6	1115	76	36	1191	20
Reduct Vol:	0	0	.0	0	0	0	0	0	0	0		0
Reduced Vol:	68	102	62	69	129	5	6	1115	76		1191	
PCE Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adi:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.:		102	62	69	129	5	6	1115	76	36	1191	20
FIRMI VOI.I				11			11			1		
Saturation F							' '					
Sat/Lane:		1900		1900	1900	1900	1900	1900	1900	1900	1900	1900 ·
Adiustment:		0.94	0.94		0.99	0.99		0.94	0.94	0.95	0.95	0.95
Lanes:		0.62	0.38		0.96	0.04		1.87		1.00	1.97	0.03
Final Sat.:			677		1818	70		3346	228		3540	59
Final Sat.:	. 1000	1114										1
				11			11		•	1		
Capacity Ana		0.09		0.04	0.07	0.07	0.00	0.33	0.33	0.02	0.34	0.34
Vol/Sat:	0.04	****	0.09	0.04	****	0.07	0.00	****	4.55	****		
Crit Moves:						0.12	0.01	0.57	0.57	0.03	σ.60	0.60
Green/Cycle:		0.16	0.16		0.12			0.59	0.59		0.56	
Volume/Cap:		0.59	0.59				104.6				12.6	
Delay/Veh:		42.4			45.5			1.00			1.00	
User DelAdj:		1.00			1.00						12.6	
AdjDel/Veh:		42.4	42.4		45.5					2		
DesignQueue:	3	5	3	3	- 6	0	0	29	2	. 2	29	U

Jarina Balanca Cauta

November 200

vel Of Service Computation Report of Operations (Future Volume Alternative)

Intersection #15: Mission/Union [N/S: Union E/w: Mission]

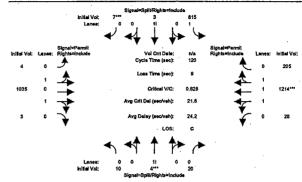


Approach:	No	rth B	ound	So	uth Bo	und	E	ast Bo	ound	W	est Bo	ound
Movement:	L	- T	- R	L	- T	- R	L ·	- Т	- R	L.	- T	- R
									}			
Min. Green:	0				0			. 0		Ò		o ·
]						1					
Volume Module						•			•	•		·
Base Vol:	10	4	20	815	3	7	4	973	3	28	1186	205
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	10	4	. 20	815	3	7	4	973	3	28	1186	205
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Campus Incr:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	. 10	4	20	815	3	7	4	973	. 3	28	1186	205
User 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
PHF 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
PHF Volume:	10	4	20	815	3	7	4	973	3	28	1186	205
Reduct Vol:	0	0	0	0	0	0	0	. 0	0	0	0	0
Reduced Vol:	10	4	20	815	3	7	4	973	3	28	1186	205
PCE 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
MLF 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
Final Vol.:	10	4	20	815	3	7	4	973	3	28	1186	205
	1		1	1		1	1					
Saturation F	low M	odule	,				•		,	,		•
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.89	0.89	0.89	0.93	0.93	0.93	0.88	0.88	0.88	0.78	0.78	0.78
Lanes:	0.29	0.12	0.59	1.97	0.01	0.02	0.01	1.98	0.01	0.06	2.51	0.43
Final Sat.:	497	199	995	3503	13	30	14	3333	10	88	3723	644
						1				1		
Capacity Ana:							•		. '	•		
Vol/Sat:	0.02	0.02		0.23	0.24	0.24	0.29	0.29	0.29	0.32	0.32	0.32
Crit Moves:		****				***					****	
Green/Cycle:	0.03	0.03	0.03	0.38	0.38	0.38	0.51	0.51	0.51	0.51	0.51	0.51
Volume/Cap:	0.62	0.62	0.62	0.61	0.62	0.62	0.57	0.57	0.57	0.62	0.62	0.62
Delay/Veh:	77.2	77.2	77.2	31.0	31.1	31.1	20.5	20.5	20.5	21.4	21.4	21.4
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	77.2	77.2	77.2	31.0	31.1	31.1	20.5	20.5	20.5	21.4	21.4	21.4
DesignOuene:	1	0	1	36	•		n	3.4	0	1	42	7

. . .

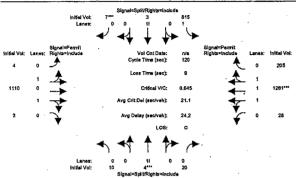
Level Of Service Computation Report 2000 HCM Operations (Future Volume Atternation

Intersection #15: Mission/Union [N/S: Union E/w: Mission]



Approach:	No	rth Bo	ound	So	uth Bo	ound	E	ast Bo	ound	We	est B	ound
Movement:	L.		- R.	, L		- R	. L	_	- R		- T	
Min Green:	ii	0	۱۱	1		اا	1			1		
Min. Green:												
Volume Module				1			1			1		
Base Vol:	10	4	20	815	3	7	4	973	3	28	1186	205
Growth Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	10	• 4	20	815	. 3	7	4	973	3	28	1186	205
Added Vol:	O	0	0	0	0	0	0	62	0	0	26	0
Campus Incr:	0	0	0	0	0	0	0	0	. 0	0	0	0
Initial Fut:	10	4	20	815	3	7	4	1035	3	28	1214	205
User 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
PHF Adn:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	10	4	20	815	3	7		1035	3		1214	205
Reduct Vol:		. 0		0	ō	. 0	ō	0	_	ō	0	
Reduced Vol:	10	4	20	815	3	7	4	1035	3		1214	205
PCE Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00
Final Vol.:		4	20	815	3	7	4	1035	3	28	1214	205
						1	1					1
Saturation F				•		,	•		•	•		'
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.89	0.89	0.89	0.93	0.93	0.93	0.88	0.88	0.88	0.78	0.78	0.78
Lanes:	0.29	0.12	0.59	1.97	0.01	0.02	0.01	1.98	0.01	0.06	2.52	0.42
Final Sat.:	497	199	995	3503	13	30	- 13	3335	10	86	3733	630
				I								1
Capacity Anal	lysis	Modul	.e :	•								
Vol/Sat:		0.02		0.23	0.24	0.24	0.31	0.31	0.31	0.33	0.33	0.33
Crit Moves:		****				***					***	
Green/Cycle:	0.03	0.03	0.03	0.38	0.38	0.38	0.52	0.52	0.52	0.52	0.52	0.52
Volume/Cap:		0.63	0.63	0.62	0.63	0.63	0.60	0.60	0.60	0.63	0.63	0.63
Delay/Veh:	78.5	78.5	78.5	31.4	31.6	31.6	20.8	20.8	20.8	21.2	21.2	21.2
User DelAd1:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
		78.5		31.4	31.6	31.6	20.8	20.8	20.8	21.2	21.2	21.2
DesignOueue:	1	0	1	36	. 0	0	0	36	0	1	42	7

Intersection #15: Mission/Union [N/S: Union E/w: Mission]



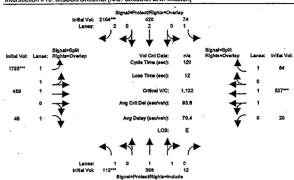
Approach:		rth Bo			uth Bo			ast Bo		We	est Bo	ound	
Movement:	L ·		- R		- T		L -		- R		- т	- R	
Min. Green:	0		0		0			. 0	0		0	0	
Volume Module													
Base Vol:	10	4	20	815	3	7	4		3		1186	205	
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Initial Bse:	10	4	20	815	3	7	.4	973	3		1186	205	
Added Vol:	0	0	0	0	0		0	137		0	75	0	
Campus Incr:	0	0	0	0	0	0	0	0	0	0	0	0	
Initial Fut:	10	4	20	815	3	7	4	1110	3	28	1261	205	
User 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	
PHF 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	
PHF Volume:	10	4	20	815	3	7	4	1110	3	28	1261	205	
Reduct Vol:	0	0	0	0	0	0	0	0 '	0	0	0	0	
Reduced Vol:	10	4	20	815	3	7	4	1110	3	28	1261	205	
PCE Adj:			1.00	1.00	1.00	1.00			1.00	1.00	1.00	1.00	
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.1.00		1.00	
Final Vol.:	10		20	815	3	7	4		3		1261	205	
				1						{			
Saturation F.													
Sat/Lane:		1900		1900		1900		1900	1900		1900	1900	
Adjustment:		0.89	0.89	0.93		0.93		0.88			0.77	0.77	
Lanes:		0.12	0.59	1.97		0.02		1.98	0.01		2.53	0.41	•
Final Sat.:			995	3503	13	30		3336	9		3696	601	
				ļ					1		• • • • • •		
Capacity Anal													
Vol/Sat:	0.02	0.02	0.02	0.23	0.24		0.33	0.33	0.33	0.34	0.34	0.34	
Crit Moves:	•	****				***					****		
Green/Cycle:	0.03	0.03	0.03	0.37	0.37	0.37	0.53	0.53			0.53	0.53	
Volume/Cap:			0.65	0.64		0.65		0.63			0.65	0.65	
Delay/Veh:			81.8	32.6	32.8	32.8	20.7	20.7			20.9		
User DelAdj:					1.00	1.00			1.00		1.00	1.00	
AdjDel/Veh:			81.8		32.8	32.8		20.7	20.7		20.9	20.9	
DesignQueue:	1	0	1	37	0	0	0	38	0	1	43	7	

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Level Of Service Computation Report 2000 HCM Operations (Future Volume Atternative) Extenting PM

Intersection #16: Mission/Chestnut [N/S: Chestnut E/w: Mission]



			- ·		.,							
Approach:		rth Bo		So	uth Bo	ound		ast B			est Bo	
Movement:		- Т	- R	L	- T	- R		т .	- R		- т	- R
Min. Green:	. 0	0	0	. 0	0	0	٠ ،	0	0	' o	0	0
Volume Module	l .						1			11		
Base Vol:	112	398	12	74	420	2164	1785	489	48	20	527	84
Growth Adi:		1.00	1.00	1.00		1.00		1.00	1.00		1.00	1.00
Initial Bse:	112	398	1.00	74	420	2164	1785	489	48	20	527	84
Added Vol:	114	398	0	/ °	.0	0	1,03	109	*0	20	927	
Campus Incr:	0	0	0	0	.0	0	Ö	0	Ö	ō	0	
Initial Fut:	112	398	12	74	420	2164	1785	489	48	20	527	84
		1.00	1.00		1.00	1.00		1.00	1.00		1.00	1.00
User Adj:			1.00		1.00	1.00		1.00	1.00		1.00	1.00
PHF Adj:		1.00										2.00
PHF Volume:	112	398	12	74	420	2164	1785	489	48	20	527	84
Reduct Vol:	0	0	0	0	. 0	0	0	0	0	0	0	
Reduced Vol:	112	398	12	74	420	2164	1785	489	48	20	527	84
PCB Adj:		1.00	1.00		1.00	1.00		1.00	1.00		1.00	1.00
MLF Adj:		1.00	1.00		1.00	1.00		1.00	1.00		1.00	1.00
Final Vol.:	112	398	12	. 74	420	2164	1785	489	48	20	527	84
										i I ·		
Saturation F												
Sat/Lane:		1900	1900		1900	1900		1900	1900		1900	190
Adjustment:	0.93	0.93	0.93		0.91	0.72		0.88	0.82		0.93	0.83
Lanes:		1.94	0.06		2.00	2.00		1.00	1.00		1.93	1.00
Final Sat.:		3421	103		3473	2734		1670	1554		3402	1583
			·1				l					
Capacity Ana.	lysis	Modu]	le:									
Vol/Sat:	0.06	0.12	0.12	0.04	0.12	0.79		0.29	0.03	0.15	0.15	0.09
Crit Moves:	****					***	****				***	
Green/Cycle:	0.06	0.21	0.21	0.08	.0.23	0.71	0.48	0.48	0.53	0.14	0.14	0.2
Volume/Cap:		0.56	0.56	0.56	0.53	1.12	1.12	0.61	0.06	1.12	1.12	0.25
	183.3	43.4	43.4	58.6	41.2	80.0	93.5	23.6	13.5	130.3	130	39.5
User DelAdj:			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdiDel/Veh:			43.4	58.6	41.2	80.0	93.5	23.6	13.5	130.3	130	39.
DesignOueue:	7		1	5	22	50	71	18	2	. 1	31	4
	•		-	_					_	_		

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COMPARE

Wed Nov 26 10:27:06 2003

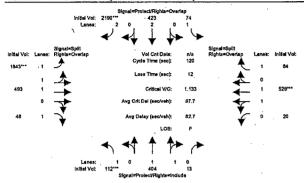
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Marine Science Center

November 2003

Level Of Service Computation Report 2000 HCM Operations (Future Volume Atternative) Ex + Ph 1 PM

Intersection #16: Mission/Chestnut [N/S: Chestnut E/w: Mission]

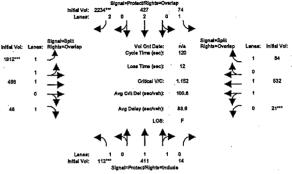


Approach: N	orth Bour	ıd So	uth Bo	und	Ea	st Bo	und		est Bo	
	- T -			- R			- R		- T	
								1		
	0 0			0		0		0		0
										·
Volume Module:										
Base Vol: 11		12 74	420	2164	1785	489	48	20	527	84
			1.00	1.00		1.00	1.00		1.00	1.00
Initial Bse: 11		12 74		2164	1785	489	48	20	527	84
	06	1 0		26	58	4	0	0	2	0
	0 0	0 0	-	0	0	. 0	. 0	0	0	0
Initial Fut: 11		13 74		2190	1843	493	48	20		84
		1.00 1.00		1.00		1.00	1.00		1.00	1.00
			1.00	1.00	1.00		1.00		1.00	1.00
PHF Volume: 11		13 74		2190	1843	493	48	20	529	84
Reduct Vol:		0 0	-	0	0	0	0	0	0	0
Reduced Vol: 11		13 74		2190	1843	493	48	20	529	84
			1.00	1.00		1.00			1.00	1.00
MLF Adj: 1.0			1.00	1.00	1.00		1.00		1.00	1.00
Final Vol.: 11			423	2190	1843	493		20	529	84
							~ 			
Saturation Flow										
			1900	1900		1900			1900	1900
			0.91	0.72		0.88	0.82		0.93	0.83
			2.00	2.00		1.00	1.00		1.93	1.00
	9 3410		3473	2734		1670	1554		3402	1583
Capacity Analysi										
	6 0.12 0	0.12 0.04	0.12	0.80		0.30	0.03	0.16	0.16	0.05
Crit Moves: ***				****	****				****	
Green/Cycle: 0.0			0.22	0.71		0.49	0.54		0.14	0.21
Volume/Cap: 1.1			0.55	1.13		0.61	0.06		1.13	0.25
Delay/Veh: 187.			42.5	84.5		22.7		134.5	135	39.9
User DelAdj: 1.0			1.00	1.00		1.00	1.00		1.00	1.00
AdjDel/Veh: 187.			42.5	84.5		22.7		134.5		
DesignQueue:	7 22	1 5	23	50	72	18	1	1	32	4

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Attenuative)
Ex + Ph 1 + Ph 2 PM

Intersection #16: Mission/Chestnut [N/S: Chestnut E/w: Mission]



			Signal=P	ratect/Hig	nts etnaut	•						
Approach:	No	rth Bo	ound	Son	uth Bo	ound	E		ound		est Bo	
Movement:	, L .	- т	- R	ъ.	- T	- R			- R	. 	- T	- R
Min. Green:	· 0	0	oʻ		0	0	•	0	0	0		
Volume Modul									,	1		,
Base Vol:	112	398	12	74	420	2164	1785	489	48	20	527	84
Growth 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
Initial Bse:	112	398	12	74	420	2164	1785	489	48	20	527	84
Added Vol:	0	13	2	0	7	70	127	9	0	1	5	0
Campus Incr:	0	0	0	0	0	.0	0	0	0	0		0
tnitial Fut:	112	411	14	74	427	2234	1912	498	48	21		84
Jser 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
PHF 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
PHF Volume:	112	411	14	74	427	2234	1912	498	48	21	532	84
Reduct Vol:	a	0	0	0	0	0	0	. 0	0	0		0
Reduced Vol:	112	411	14	74	427			498	48	21		
PCE Adj:	1.00	1.00	1.00	1.00	1.00			1.00			1.00	
MLF Adj:	1.00	1.00	1.00		1.00			1.00	1.00		1.00	
Final Vol.:			14		427				48	21	532	84
Saturation F												
Sat/Lane:	1900	1900	1900					1900			1900	
Adjustment:	0.93	0.93	0.93		0.91			0.88			0.93	
Lanes:		1.93	0.07		2.00			1.00			1.92	1.00
Final Sat.:			116		3473			1670			3397	
									·			
Capacity Ana												
Vol/Sat:		0.12	0.12	0.04	0.12			0.30	0.03		0.16	0.05
Crit Moves:	****					****	***			****		
Green/Cycle:								0.50			0.14	
Volume/Cap:	1.15	0.61	0.61	0.61	0.58	1.15		0.60			1.15	0.26
Delay/Veh:							104.7			141.9		40.4
User DelAdj:								1.00			1.00	1.00
AdjDel/Veh:							104.7			141.9		40.4
DesignQueue:	7	23	1	5	23	. 51	74	18	1	1	32	5

COMPARE

Wed Nov 26 10:27:08 2003

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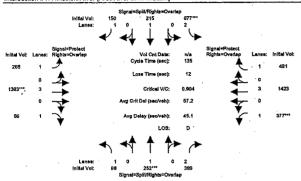
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Page 3-50

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Attenuative)
Existing PM

Intersection #17: Mission/River [N/S: River E/w: Mission]

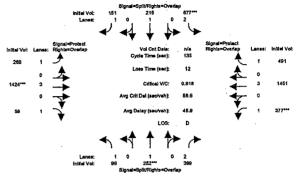


Approach:	North Bo		outh Bo			ast Bo		West Bo	
	, - T		- T			- т		L - T	
Min. Green:	0 0		0 0	0		0		0 0	0
Volume Module:									
Base Vol:	96 252	399 6-7		150		1363	56	377 1423	491
	00 1.00		0 1.00	1.00		1.00	1.00	1.00 1.00	1.00
Initial Bse:	96 252	399 67		150		1363	56	377 1423	491
Added Vol:	0 0	0	0 0	0	0	0	0	0 - 0	0
Campus Incr:	0 0	•	0 0	0	0	0	0	0 0	0
Initial Fut:	96 252	399 67		150		1363	56	377 1423	491
	00 1.00		0 1.00	1.00		1.00	1.00	1.00 1.00	1.00
PHF Adj: 1.	00 1.00		0 1.00	1.00	1.00		1.00	1.00 1.00	1.00
PHF Volume:	96 252	399 67		150		1363	56	377 1423	491
	0 0	_	0 0	0	0	0	0	0 0	. 0
Reduced Vol:	96 252	399 67				1363	56		491
	00 1.00		0 1.00			1.00	1.00	1.00 1.00	1.00
	00 1.00		0 1.00	1.00		1.00	1.00	1.00 1.00	1.00
Final Vol.:	96 252		7 215	150		1363	56	377 1423	491
Saturation Flow	/ Module	:							
	00 1900		0 1900			1900	1900	1900 1900	1900
Adjustment: 0.			0.98			0.89	0.83		0.83
	00 1.00		0 1.00			3.00	1.00	1.00 3.00	1.00
	69 1862		2 1862	1583		5083.	1583	1769 5083	1583
							1		
Capacity Analys									
	05 0.14		0 0.12	0.09	0.15	0.27	0.04	0.21 0.28	0.31
Crit Moves:	****	***				****		****	
Green/Cycle: 0.			2 0.22			0.30	0.45	0.24 0.36	0.58
Volume/Cap: 0.			0 0.53			0.90	0.08		
Delay/Veh: 46			1 42.8			48.6	19.1		16.2
User DelAdj: 1.			0 1.00			1.00	1.00		
AdjDel/Veh: 46			1 42.8			48.6	19.1	67.2 36.5	16.2
DesignQueue:	6 15	17 3	7 12	6	15	68	2	20 65	15

November 2003

Level Of Service Computation Report
2000 HCM Operations (Future Volume Attenuative)
Ex + Ph 1 PM

Intersection #17: Mission/River (N/S: River E/w: Mission)



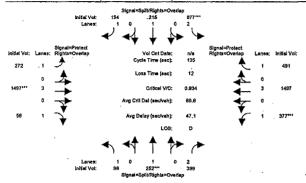
				D.Bus.	apilivrugni	3-Overlap							
Approaci	1:	No	rth Bo	bund	So	uth Bo	ound	E	st Bo	ound		est Bo	bund
Movement													- R
Min. Gre	en:		0	oʻ	. 0	0	0	. 0	0	o ·	. 0	0	0
Volume N											!		
Base Vol		96	252	399	677	215	150	265	1363	56	377	1423	491
Growth A						1.00		1.00	1.00	1.00	1.00	1.00	1.00
Initial				399	677				1363	56	377	1423	491
Added Vo	1: \	0	0	0	0	0	1	. 3	61	0	0	28	0
Campus I	Incr:	0	0	0	0	. 0	0	0	8	0	.0	0	0
Initial		96	252	399	677	215	151	268	1424	56	377	1451	491
User Ad	j:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
PHP Adj		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00
PHF Volu	ıme:	96	252	399	677	215	151		1424		377	1451	491
Reduct V	Vol:	. 0	0	0	0	. 0	0	٥	- 0	0	0	0	
Reduced	Vol:	96	252	399	677	215	151		1424			1451	
PCE Adj	:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
MLF Adj:	:	1.00	1.00	1.00		1.00		1.00	1.00		1.00		
Final Vo	ol.:	96	252	399					1424			1451	
Saturati	ion Fl												
Sat/Lane				1900				1900			1900		
Adjustme						0.98				0.83			
Lanes:			1.00			1.00			3.00		1.00		
Final Sa	at.:	1769	1862	2786		1,862				1583		5083	
											}		
Capacity													
Vol/Sat		0.05		0.14	0.20	0.12	0.10	0.15		0.04		0.29	0.31
Crit Mo			****		****				****		****		
Green/C						0.21			0.31			0.36	
Volume/						0.54			0.92				0.54
Delay/Ve						43.2			49.3		70.2		
User De						1.00			1.00		1.00		
AdjDel/						43.2			49.3		70.2		
DesignQ		. 6	15	17	37	12	6	15	71	2	20	66	15

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November 2003

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Ex + Ph 1 + Ph 2 PM

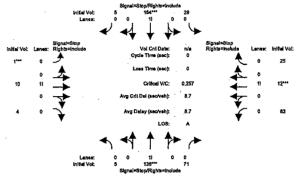
Intersection #17: Mission/River [N/S: River E/w: Mission]



Approach:	No	rth Bo	ound	So	uth Bo	ound	E	ast Bo	ound	W	est Bo	ound
Movement:	L	- T	- R	L ·	- T	- R		- Т		L.	- т	- R
	l											
Min. Green:	0		0	0			. 0		o o	. 0		0
							1					
Volume Module	ė:									•		
Base Vol:	96	252	399	677	215	150	265	1363	56	377	1423	491
Growth 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
Initial Bse:	96	252	399	677	215	150	265	1363	. 56	377	1423	491
Added Vol:	0	0	0	0	0	4	7	134	0	0	74	ó
Campus Incr:	0	0	0	0	0	0	0	0	. 0	0	0	0
Initial Fut:	96	252	. 399	677	215	154	272	1497	56	377	1497	491
User Adj:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	1.00	1.00	1.00	1.00
PHF Volume:	96	252	399	677	215	154	272	1497	56	377	1497	491
Reduct Vol:	0	0	. 0	0	. 0	0	0	. 0	0	0	0	0
Reduced Vol:	96	252	399	677	215	154	272	1497	56	377	1497	491
PCE 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
MLF 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
Final Vol.:		252	399	677		154		1497	. 56		1497	491
Saturation F	low Me	odule:										
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.93	0.98	0.73	0.90	0.98	0.83	0.93	0.89	0.83	0.93	0.89	0.83
Lanes:		1.00		2.00	1.00	1.00	1.00	3.00	1.00	1.00	3.00	1.00
Final Sat.:					1862	1583		5083	1583		5083	1583
						·						
Capacity Anal												
Vol/Sat:	0.05	0.14	0.14		0.12	0.10	0.15	0,29	0.04		0.29	0.31
Crit Moves:		****		****				****		****		
Green/Cycle:								0.32	0.46		0.36	
Volume/Cap:				0.93		0.25		0.93	0.08		0.81	0.54
Delay/Veh:				65.5		24.8		50.3	18.2		37.3	16.4
User DelAdj:				1.00		1.00		1.00	1.00		1.00	1.00
AdjDel/Veh:			27.7	65.5		24.8		50.3	18.2		37.3	16.4
DesignQueue:	6	15	17	37	12	6	15	73	2	20	68	15

Level Of Service Computation Report 2000 HCM 4-Way Stop (Future Volume Alternative) Existing PM

Intersection #18: Western/Meder [N/S: Western E/w: Meder]



Approach:	No	rth B	bund	South B	ound	East B	ound	West Bo	und
Movement:			- R	L - T			- R	L - T	- R
						1			·
Min. Green:	, 0		. 0	, 0 ,0		. 0 0		, 0 0	0
Volume Modul			1	1					
Base Vol:	.e: 5	136	71	29 154	. 5	1 10	4	83 12	25
		1.00		1.00 1.00		1.00 1.00			1.00
Growth Adj: Initial Bse:			71	29 154		1 10		83 12	25
Added Vol:			,1	29 154		0 0		0 0	2:
	. O		0	0 0		0 0	0		,
Campus Incr	-	-	-		_				
Initial Fut:									25
User Adj:		1.00		1.00 1.00		1.00 1.00			
PHF Adj:		1.00		1.00 1.00		1.00 1.00			1.0
PHF Volume:	5	136	71	29 154	5	1 10		83 12	25
Reduct Vol:			-	0 0	-	0 0		0 0	(
Reduced Vol:									25
PCE Adj:		1.00				1.00 1.00			
MLF Adj:		1.00				1.00 1.00			
Final Vol.:		136	71	29 154		1 10		83 12	25
Saturation H									
Adjustment:	1.00	1.00	1.00	1.00 1.00	1.00	1.00 1.00	.1.00	1.00 1.00	1.00
Lanes:		0.65	0.33	0.15 0.82	0.03	0.06 0.67	0.27	0.69 0.10	0.21
Final Sat.:		530	277	121 642		46 462		488 71	147
	-]					ļ			
Capacity Ana									
Vol/Sat:	0.26		0.26	0.24 0.24	0.24		0.02	0.17 0.17	0.17
Crit Moves:		****		****		****		****	
Delay/Veh:			8.6	8.8 8.8	8.8	7.9 7.9		8.7 8.7	8.7
Delay Adj:	1.00	1.00	1.00	1.00 1.00	1.00	1.00 1.00			1.00
AdjDel/Veh:	8.6	8.6	8.6	8.8 8.8	8.8	7.9 7.9		8.7 8.7	8.7
LOS by Move:	: A	·A	A	A A	A	A A	A	A A	A
ApproachDel:	:	8.6		8.8		7.9		8.7	
Delay Adj:		1.00		1.00		1.00		1.00	
ApprAdjDel:		8.6		8.8		7.9		8.7	
LOS by Appr:		A		A		A		A	

COMPARE

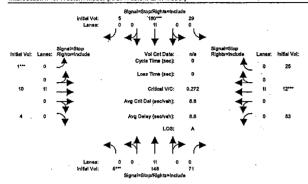
Wed Nov 26 10:27:06 2003

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Marine Science Cente

Level Of Service Computation Report 2000 HCM 4-Way Stop (Future Volume Atternetive) Ex + Ph 1 PM

Intersection #18: Western/Meder [N/S: Western E/w: Meder]



Approach: 1	forth B	ound	Sot	ith Bo	ound	East	Bound	West Bo	ound
		- R	L.	- T	- R	ь - т		ь - т	- R
Min. Green:	0 0			٥			0	0 0	0
Volume Module:									
Base Vol:	5 136	71	29	154	5	1 1		83 12	25
	0 1.00	1.00		1.00	1.00	1.00 1.0		1.00 1.00	1.00
Initial Bse:	5 136	71	29	154	5	1 1		83 12	25
Added Vol:	0 12	0	0	6	0	0 1	-	0 0	0
Campus Incr:	0 0	0	0	Đ	0	0 (0	0 0	0
	5 148	71	29	160	5	1 1		83 12	25
User Adj: 1.0	00 1.00	1.00	1.00	1.00	1.00	1.00 1.00	1.00	1.00 1.00	1.00
PHF Adj: 1.0	00 1.00	1.00	1.00	1.00	1.00	1.00 1.00	1.00	1.00 1.00	1.00
PHF Volume:	5 148	71	29	160	5	1 10	4	83 12	25
Reduct Vol:	0 0	. 0	0	0	. 0	0 () 0	0 0	0
Reduced Vol:	5 148	71	29	160	5	1 10) 4	83 12	25
PCE Adj: 1.0	00 1.00	1.00	1.00	1.00	1.00	1.00 1.00	1.00	1.00 1.00	1.00
MLF Adj: 1.0	0 1.00	1.00	1.00	1.00	1.00	1.00 1.00	1.00	1.00 1.00	1.00
Final Vol.:		71	29	160	5	1 - 10) 4	83 · 12	25
Saturation Flow	Module:								
Adjustment: 1.0	00 1.00			1.00	1.00	1.00 1.00	1.00	1.00 1.00	1.00
Lanes: 0.0	2 0.66	0.32	0.15	0.82	0.03	0.06 0.6	7 0.27	0.69 0.10	0.21
	L8 544	261	117		20	46 45		483 70	145
						1			
Capacity Analys:									
		0.27	0.25	0.25	0.25	0.02 0.02	0.02	0.17 0.17	0.17
Crit Moves: ***	**			****		****		****	
Delay/Veh: 8		8.8	8.9	8.9	8.9	7.9 7.9		8.7 8.7	8.7
	0 1.00	1.00	1.00	1.00	1.00	1.00 1.00	1.00	1.00 1.00	1.00
	8.8	8.8	8.9		8.9	7.9 7.9		8.7 8.7	8.7
	A A	A	A	A	A	A A	A	A A	Α .
ApproachDel:	8.8			8.9		7.9		8.7	
Delay Adj:	1.00			1.00		1.00)	1.00	
ApprAdjDel:	8.8			В.9		7.9	}	8.7	
LOS by Appr:	A			A		A		A	,

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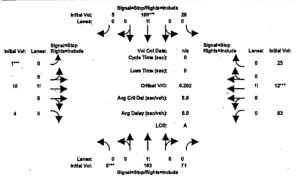
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November 2003

Level DI Service Computation Report 2000 HCM 4-Way Stop (Future Volume Alternative) Ex+Ph 1+Ph 2 PM

Intersection #18: Western/Meder [N/S: Western E/w: Meder]



Approach:						ound			ound			
Movement:			- R			- R			- R			- R
Min. Green:			ا		0		0			0		0
						1			1			
Volume Module				•			•		•	:		
Base Vol:	5	136	71	29	154	5	1	10	4	83	12	25
Growth Add:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	5	136	71	29	154	5	1	10	4	63	12	25
			0	0	15	0	0	0	0	0	0	0
Campus Incr:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	5	163	71	29	169	5	1	10	4	83	12	25
User 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
PHF 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
PHF Volume:	5	163	71	29	169	5	1	10	.4	83	12	25
Reduct Vol:	0	0	0	0	. 0	0	ō	. 0	. 0	0	.0	0
Reduced Vol:	5	163	71	29	169	5	1	. 10	4	83	12	25
PCE 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
MLF 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
Final Vol.:	5	163				5			4			
~~~~~~~~										1		
Saturation Fi				•								
Adjustment:						1.00					1.00	1.00
Lanes:	0.02	0.68	0.30			0.02						
Final Sat.:			243		648		.45					
				\								
Capacity Ana.												
Vol/Sat:	0.29	0.29	0.29	0.26		0.26		0.02	0.02			0.17
Crit Moves:	****				****		****				***	
Delay/Veh:				9.0	9.0	9.0	8.0		8.0			8.8
Delay Adj:						1.00	1.00		1.00	1.00		1.00
AdjDel/Veh:				9.0	9.0	9.0	8.0	8.0	8.0	8.8		8.8
LOS by Move:				A		A	A		A	Α.	A	A
		9.0			9.0			8.0			8.8	
					1.00			1.00		:	1.00	
ApprAdjDel:		9.0			9.0			8.0			8.8	
LOS by Appr:		A			A			A			A	

Traffix 7.5.0715

Traffix 7.5.0715

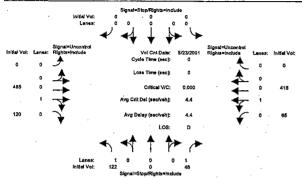
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# November 2003

# Level Of Sarvice Computation Report 2000 HCM Unsignalized (Future Volume Alternative) Existing PM

Intersection #19: High/Western [N/S: Western E/w: High]

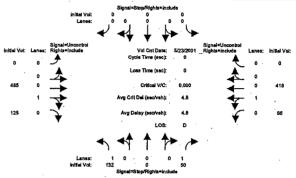


Approach:	No	rth B	ound	So	uth B	ound	Е	ast B	ound	W	est B	ound
Movement:	L	- T	- R	L	- T	- R	L	- T	- R	L	- т	~ R
				11			11					
Volume Module	ė: >>	Coun	t Date	: 23 M	ay 20	01 <<						
Base Vol:	122	0	48	0	0	0	0	485	120	65	418	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	122	0	48	0	, 0	0	0	485	120	65	418	0
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Campus Incr:	0	0	., 0	0	0	0	0	0	. 0	0	0	0
Initial Fut:	122	0	48	0	0	0	0	485	.120	65	418	0
User 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
PHF 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
PHF Volume:	122	0	48	0	0	0	0	485	120	65	418	0
Reduct Vol:	0	0	0	0	0	0	0	0	٥	0	0	0
Final Vol.:	122	0	48	0	0	0	Ó	485	120	65	418	0
Critical Gap	Modu	le:										
Critical Gp:	6.4	XXXX	6.2	xxxxx	XXXX	XXXXX	XXXXX	xxxx	XXXXX	4.1	xxxx	XXXXXXX
FollowUpTim:	3.5	xxxx		XXXXX						2.2	XXXX	XXXXX
	1									1		
Capacity Mode	ule:			• •						•		,
Cnflict Vol:	1093	xxxx	545	XXXX	30000	xxxx	xxxx	хххх	XXXXX	605	XXXX	xxxxx
Potent Cap.:	239	XXXX	542	XXXX	xxxx	XXXXX	xxxx	xxx	XXXXX			XXXXX
Move Cap.:	227	xxxx	542	XXXX	xxxx	XXXXX	XXXX	200000	200000			XXXXX
				11			11			1		
Level Of Serv									,			'
Stopped Del:	38.0	XXXX	12.3	XXXXX	XXXX	XXXXX	XXXXXX	XXXX	XXXXXX	8.9	200000	XXXXX
LOS by Move:	B	*	В	*	*	*	*	*	*	A	*	*
Movement:	LT ·	- LTR	- RT	LT ·	LTR	- RT	LT ·	- LTR	- RT	LT ·	LTR	- RT
Shared Cap.:	XXXX	XXXX	XXXXX	XXXX	XXXX	XXXXX	XXXX	XXXXX	XXXXX	XXXX	XXXX	XXXXX
Shrd StpDel:	000000	XXXX	XXXXX	XXXXX	xxxx	XXXXXX	XXXXXX	XXXX	XXXXX	8.9	XXXX	XXXXX
Shared LOS:	* 1	*	*	*		*	*	*	*	A	*	*
ApproachDel:		30.7		X	OOXXX		30	COCCX		30	00000	
ApproachLOS:		D 1 *						*		*		

COMPARE

# Level Of Service Computation Report 2000 HCM Unsignatized (Future Volume Atternative) Ex + Ph 1 PM

Intersection #19: High/Western [N/S: Western E/w: High]

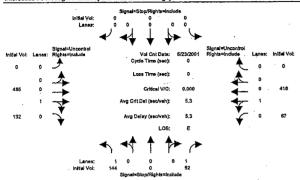


Approach:	Ио	rth B	ound	So	uth B	ound	E	ast B	ound	W	est B	ound
Movement:	L	- T	- R	L,	- Т	- R	L	- T	- R	L	- т	- R
				11						11		1
Volume Modul	ė: >>	Coun	t Date	: 23 M	ay 20	01 <<						,
Base Vol:	122	0	48	0	0	0	0	485	120	65	418	0
Growth Adj:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:		0			.0	0	0	485	120	65	418	0
Added Vol:	10			0			0	0	5	1	0	0
Campus Incr:	0	. 0	0	· ŏ	0	0	0	٥	0	0	0	0
Initial Fut:	132	0	50	0	0	0	0	485	125	66	418	0
User Adj:		1.00				1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF 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
PHF Volume:	132	0	50	0	0	0	0	485	125	66	418	Ō
Reduct Vol:	0	0	0	0	0	0	0	.0	0	0	0	0
Final Vol.:	132	0	50	0	. 0	0	0	485	125	66	418	0
Critical Gap	Modu.	le:										
Critical Gp:	6.4	XXXX	6.2	XXXXXX	XXXX	XXXXXX	XXXXX	XXXX	XXXXX	4.1	xxxx	XXXXX
FollowUpTim:	3.5	XXXX	3.3	XXXXXX	XXXXX	XXXXXX	XXXXXX	XXXXX	XXXXXX	2.2	XXXX	XXXXXX
		- <b></b>										
Capacity Mod	ule:											
Cnflict Vol:	1098	XXXX	547	XXXX	XXXX	XXXXXX	XXXXX	XXXX	XXXXX	610	XXXX	XXXXX
Potent Cap.:	. 238	XXXX	540	XXXXX	200000	XXXXXX	XXXXX	XXXX	XXXXXX	979	XXXX	XXXXX
Move Cap.:	225	XXXX	540	XXXXX	XXXX	XXXXXX	XXXXX	XXXX	XXXXXX	979	XXXX	XXXXX
			<b>-</b>				~					
Level Of Ser												
Stopped Del:	41.4	XXXX	12.3	XXXXXX	XXXX	XXXXXX	XXXXX	XXXX	XXXXX	8.9	XXXX	XXXXX
LOS by Move:	E	*	В	*	. *	*	*	- #	*	A	*	*
Movement:	LT ·	- LTR	- RT	LT	- LTR	- RT	LT ·	- LTR	- RT	LT -	LTR	- RT
Shared Cap.:											XXXX	XXXXXX
Shrd StpDel:				300000	XXXXX	XXXXXX	XXXXX	XXXX	XXXXX	8.9	XXXX	XXXXX
Shared LOS:	*	*	*	*	*	*	*.	*	*	A	*	*
ApproachDel:		33.4		30	KXXXXX		30	XXXXXX		30	CXXXX	
ApproachLOS:		D,			*			*			*	•

## Marine Science Cent

Level Of Service Computation Report 000 HCM Unalgualized (Future Volume Afternation

Intersection #19: High/Western [N/S: Western E/w: High]



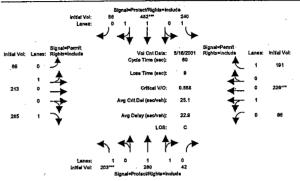
	nauad	Court D		East Bo	Sund I	West Bound
	rth_Bound_	South B		L - T		- T R
	- T - R	ь - т		, Б - Т		- 1 - K
				1		
Volume Module: >:						
Base Vol: 122		0 0		0 485	120 6	
	1.00 1.00	1.00 1.00	1.00	1.00 1.00		1.00 1.00
Initial Bse: 122		0 0	0	0 485	120 6	
Added Vol: 22		0 0	0	0 0	12	
Campus Incr: (		0 0	0	o o.	•	0 0
Initial Fut: 144		0 0	0	0 485	132 6'	
	1.00 1.00	1.00 1.00	1.00	1.00 1.00		1.00 1.00
PHF Adj: 1.00	1.00 1.00	1.00 1.00	1.00	1.00 1.00		1.00 1.00
PHF Volume: 144	0 52	. 0 0	0	0 485	132 6	
Reduct Vol: (	0 0	0 0	0	0 0	0 (	0 0
Final Vol.: 144	0 52	0 0	0	0 485	132 .6'	7 418 0
Critical Gap Modu	ıle:					
Critical Gp: 6.4	хххх 6.2	XXXXX XXXX	מסססמג מ	XXXXX XXXXX	2000000 4.3	XXXXXX XXXXX L
FollowUpTim: 3.5	3.3	XXXXX XXXX	XXXXX :	XXXXXX XXXXXX	XXXXXX 2.3	XXXXXXX XXXXXX
		11			•     <i></i> ·	
Capacity Module:		• •		•		
Cnflict Vol: 1103	xxxx 551	XXXX XXXX	XXXXX	XXXXX XXXXX	XXXXXX 61	7 XXXX XXXXX
Potent Cap.: 236	xxxx 538	XXXX XXXX	XXXXXX	XXXX XXXX	20000X 97	XXXXXX XXXXX
Move Cap.; 223	ижжж <b>538</b>	XXXX XXXXX	XXXXX	XXXX XXXX	ххххх 97	XXXXX XXXXXX
		,				
Level Of Service	Module:	• •		-		
Stopped Del: 46.5	XXXX 12.4	XXXXX XXXXX	XXXXX	XXXXX XXXXX	XXXXX 9.	XXXXX XXXXX (
LOS by Move: E	* B	* *	*	* *	* A	* *
Movement: LT	- LTR - RT	LT - LTR	- RT	LT - LTR	RT LT	- LTR - RT
Shared Cap.: xxxx	C XXXXX XXXXXX	XXXX XXXX	XXXXXX	XXXX XXXX	XXXXX XXX	XXXXX XXXXX X
Shrd StpDel:xxxx			XXXXXX	ADDICK ADDICK	XXXXX 9.	XXXXX XXXXX
Shared LOS: *	* *	* *	*	* *	* A	* *
ApproachDel:	37.5	xxxxxx		XXXXXXX	:	COCCCC
ApproachLOS:	E	! +		*		*
	_					

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# November 2003

Lavel Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) Edating PM

Intersection #20: High/Bay [N/S: Bay E/w; High]



Approach:	Not	rth Bo	und	Sou	th Bo	und		ast Bo			st Bo	
Movement:	ъ	T	- R			- R .			-, R		T	
						1			ا			
Min. Green:	. 0	0	٥.	. 0	. 0	٥		0				
Volume Module										1		1
			42	240		56	66	213	265	96	229	191
Base Vol:	203					1.00		1.00	1.00	1.00		1.00
Growth Adj:		1.00		1.00		56	1.00	213	285	96	229	191
Initial Bse:		280	42	240	482			213	- 285 B	96	449	191
Added Vol:	0	0	0	0	0	0	0				0	0
Campus Incr:			0	. 0	0	0	0	-	0	0	-	•
Initial Fut:	203	280	42			56	66	213		96	229	191
User Adj:		1.00	1.00	1.00		1.00		1.00		1.00		1.00
PHF Adj:	1.00		1.00	1.00		1.00		1.00	1.00	1.00		1.00
PHF Volume:	203	280	42	240	482	56	66	213	285	96	229	191
Reduct Vol:	٥	0	0	0	0	Ô	0	0	0	0	0	0
Reduced Vol:			42	240	482	56	66	213	285	96	229	191
PCE Adj:	1.00	1.00		1.00				1.00				1.00
MLF Adj:		1.00	1.00	1.00		1.00		1.00	1.00	1.00		1.00
Final Vol.:		280	42	240		56	66		285	96		191
									1			
Saturation F												
Sat/Lane:			1900			1900	1900			1900		1900
Adjustment:			0.91			0.92		0.82		0.76		0.83
Lanes:		1.74			1.79			0.76		0.30		1.00
Final Sat.:	1769	3018	453	1769		362		1188			1015	1583
							1					
Capacity Ana	lysis	Modul	e:									
Vol/Sat:	0.11	0.09	0.09	0.14		0.15	0.18	0.18	0.18	0.23		0.12
Crit Moves:	****		-		****						****	
Green/Cycle:				0.29		0.28		0.40		0.40		0.40
Volume/Cap:	0.56	0.47	0.47	0.47	0.56	0.56	0.44	0.44			0.56	0.30
Delay/Veh:	30.4	29.0	29.0	24.2	25.4	25.4		17.8			19.5	16.4
User DelAdj:		1.00	1.00	1.00	1.00	1.00		1.00			1.00	1.00
AdjDel/Veh:		29.0		24.2				17.8			19.5	16.4
DesignQueue:		10	2	8	16	2	2	6	8.	3	6	5

COMPARE

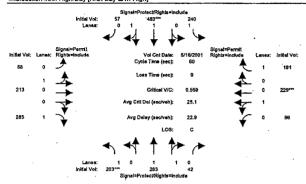
Wed Nov 26 10:27:06 2003

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Level Of Service Computation Report
2000 HCM Operations (Future Yoluma Altarnative)
Ex + Ph 1 PM

Intersection #20: High/Bay [N/S: Bay E/w: High]



Approach:	No:	rth Bo	und	Sot	uth Bo	und	Ea	ast Bo	ound	We	st Bo	und
Movement:		- T			- T	- R		- T	- R	L -	T	- R
Oxcom.	0		D		0.		0		0	0	0	0
							1	:				
Volume Module	2: >>	Count	Date:	16 M	ay 200	1 <<						
Base Vol:	203	280	42	240	482	56	66	213	285	96	229	191
Growth 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
Initial Bse:	203	280	42	240	482	56	66	213	285	96	229	191
Added Vol:	0	3	0	0	1	1	2	0	0	0	0	0
Campus Incr:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	203	283	42	240	483	57	68	213	285	96	229	191
User 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
PHF 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
PHF Volume:	203	283	42	240	483	57	68	213	285	96	229	191
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	203	283	42	240	483	57	68	213	285	96	229	191
PCE 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
MLF 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
Final Vol.:	203	283	42	240	483	57	68	213	285	96	229	191
			1								<b>-</b>	
Saturation F.	low Mo	odule:					•			•		-
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.93	0.91	0.91	0.93	0.92	0.92	0.81	0.81	0.83	0.76	0.76	0.83
Lanes:	1.00	1.74	0.26	1.00	1.79	0.21	0.24	0.76	1.00	0.30	0.70	1.00
Final Sat.:	1769	3022	449	1769	3114	367	374	1170	1583	424	1012	1583
	i											
Capacity Ana:	lysis	Modul	e:				•			•		•
Vol/Sat:	0.11	0.09	0.09	0.14	0.16	0.16	0.18	0.18	0.18	0.23	0.23	0.12
Crit Moves:	****				****					,	***	
Green/Cycle:	0.21	0.20	0.20	0.29	0.28	0.28	0.40	0.40	0.40	0.40	0.40	0.40
Volume/Cap:	0.56	0.48	0.48	0.48	0.56	0.56	0.45	0.45	0.44	0.56	0.56	0.30
Delay/Veh:	30.5	29.0	29.0	24.3	25.5	25.5	17.8	17.8	17.8	19.5	19.5	16.4
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	30.5	29.0	29.0	24.3	25.5	25.5	17.8	17.8	17.8	19.5	19.5	16.4
DesignOnene.	7	10	2	R	16	2	2	6	a	2	6	5

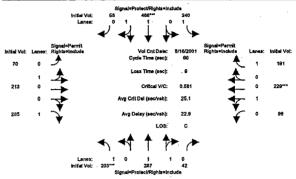
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Level Of Service Computation Report

2000 HCM Operations (Future Volume Allernative)

Ex + Ph 1 + Ph 2 PM

Intersection #20: High/Bay [N/S: Bay E/w: High]



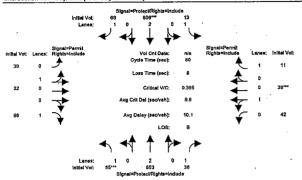
				-								
Approach:	No:	North Bound			uth Bo	ound	E	ast Bo	und	We	est Bo	ound
Movement:	L	- T	- R	L ·	- Т	- R	L ·	- T	- R	L -	- T	- R
							1			1		
Min. Green:	. 0	0	0	0	0	0	. 0	0	0	. 0	0	0
				1		1	1					
Volume Modul	ė: >>	Count	Date:	16 M	ay 200	1 << `	•		•	•		
Base Vol:	203	280	42	240	482	56	66	213	285	96	229	191
Growth Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	203	280	42	240	482	56	66	213	285	96	229	191
Added Vol:	0	7	0	. 0	4	2	4	0	0	0	. 0	0
Campus Incr:	ō	0	0	0	. 0	0	0	0	0	0	0	0
Initial Fut:	203	287	42	240	486	58	70	213	285	96	229	191
User 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
PHF Adi:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	203	287	42	240	486	58	70	213	285	96	229	191
Reduct Vol:	- 0	0	0	0	0	0	0	0	. 0	0	0	0
Reduced Vol:		287	42	240	486	58	70	213	285	96	229	191
PCE Adi:		1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00		1.00
Final Vol.:	203		42	240	486	58	70	213	285	96	229	191
							I					
Saturation F	low M	odule:					•		. '			
Sat/Lane:		1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.93	0.91	0.91	0.93	0.92	0.92	0.80	0.80	0.83	0.75	0.75	0.83
Lanes:		1.74		1.00	1.79	0.21	0.25	0.75	1.00	0.30	0.70	1.00
Final Sat.:		3028	443		3110			1145	1563		1009	1583
				1			1			1		
Capacity Ana						'			'	•		
Vol/Sat:		0.09		0.14	0.16	0.16	0.19	0.19	0.18	0.23	0.23	0.12
Crit Moves:	****				****	•			7		****	
Green/Cycle:	0.20	0.20	0.20	0.28	0.28	0.28	0.40	0.40	0.40	0.40	0.40	0.40
Volume/Cap:			0.48		0.56	0.56	0.46	0.46	0.45	0.56	0.56	0.30
Delay/Veh:		28.9	28.9		25.4		18.0		17.8	19.6		16.4
User DelAdi:					1.00	1.00	1.00		1.00	1.00		1.00
AdiDel/Veh:		28.9			25.4		18.0		17.8	19.6		16.4
DesignOueue:			2	8		2	2	6	8.	3	6	5
nentandaene:	,		-		-3	-	-		-		3	

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November 2003 Service Computation Report

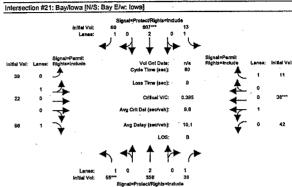
Intersection #21: Bay/lowa [N/S: Bay E/w: lowa]



Approach:	No	rth Bo	ound	Sot	ith Bo	ound	Eá	ast Bo	und	We	st Bo	und
Movement:	L ·	- Т	- R			- R		- T		L -		
				1				. <b></b>				
Min. Green:	. 0		0	0			0		0	0	0	0
				1				<b></b> -				
Volume Module	B:											
Base Vol:	55	553	36	13	806	66	39	22	66	33	38	11
Growth 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
Initial Bse:	55	553	36	13	806	66	39	22	66	3.3	38	11
Added Vol:	0	. 0	0	0	0	0	0	0	0	0	0	0
Campus Incr:	0	0	0	0	0	0	0	0	0	9	. 0	0
Initial Fut:	55	553	36	13	806	66	39	22	66	42	38	11
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00			1.00	1.00		1.00
PHF Adj:	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89		0.89		0.89
PHF Volume:	62	621	40	15	906	74	44	25	74	47	43	12
Reduct Vol:	0	0	0	0	0	0	0	0	. 0	٥	0	0
Reduced Vol:	62	621	40	15	906	74	44	25	74	47	43	12
PCE 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
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00
Final Vol.:	62	621	40	15	906	74		25	74	47	43	12
										1		
Saturation F	iow M	odule	:									
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.93	0.93	0.83	0.93	0.93	0.83	0.76	0.76	0.83	0.80	0.80	0.83
Lanes:	1.00	2.00	1.00	1.00	2.00	1.00	0.64	0.36	1.00	0.52	0.48	1.00
Final Sat :		3538				1583	929		1583	796	720	1583
							1					
Capacity Ana	lysis	Modu:	le:									
Vol/Sat:	0.03	0.18	0.03	0.01	0.26	0.05	0.05	0.05	0.05	0.06	0.06	0.01
Crit Moves:	****				****						****	
Green/Cycle:	0.09	0.70	0.70	0.03	0.65	0.65	0.15	0.15	0.15	0.15	0.15	0.15
Volume/Cap:	0.39	0.25	0.04		0.39	0.07	0.31	0.31	0.31	0.39	0.39	0.05
Delay/Veh:	36.1	4.3	3.6	39.9	6.7	5.2	31.1	31.1	31.1	31.8	31.8	29.2
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	36.1	4.3	3.6	39.9	6.7	5.2	31.1	31.1	31.1	31.8	31.8	29.2
DesignOueue:	3	9	1	1	15	1	2	1	. 3	2	2	0

Of Service Computation Report

2000 HCM Operations (Future Volume Alterna Ex + Ph 1 PM



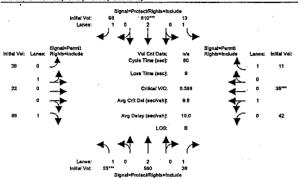
			oldumi-	Protecting	1100-111000	•						
Approach:	No	rth Bo	und	So	uth Bo	ound		st Bo			est Bo	
Movement:	ъ	- T	- R	L .	- T	- R		. т			T	
Min Green.	` ^	٥	n.		٥	0		0	0	0	0	. (
				1		1	1	<b>-</b>		1		
Volume Module			36	13	806	66	39	22	66	33	38	11
Base Vol:		553			1.00			1.00	1.00		1.00	1.0
Growth Adj: Initial Bse:		553	36	1.00	806	66	39	22	66	33	38	1.0
Initial BBE: Added Vol:	0		90	13		0	0	0	0		. 0	
	-	0	-		0	-	ō	-	0	9		
Campus Incr: Initial Fut:		556	-	13	_	66	39	_	66	42		1
		1.00			1.00			1.00	1.00		1.00	1.0
User Adj: PHF Adj:		0.89			0.89			0.89	0.89		0.89	0.8
PHF Adj: PHF Volume:	62	625	40	15	907	74	44	25	74		43	1
Reduct Vol:			40	13				. 0	77	2 7	0	_
Reduct vol:		625	-		-	-	44	25	74	-	43	1
		1.00			1.00			1.00	1.00		1.00	
PCE Adj:				1.00			1.00		1.00		1.00	1.0
MLF Adj:		1.00 625	40	. 1.00		74	44		74	47		1.0
Final Vol.:												
Saturation F							1			1		
		1900		1000	1900	1900	2000	1900	1900	1000	1900	190
Sat/Lane:					0.93		0.76		0.83		0.80	
Adjustment:		2.00			2.00		0.78		1.00		0.48	1.0
Lanes:		3538			3538		929		1583	796		158
Final Sat.:	1769	3538	1583	1,69	3330							
Capacity Ana				1		,	1			1		
			0.03	0 01	0.26	0.05	0.05	0.05	0.05	0.06	0.06	0.0
Vol/Sat: Crit Moves:	****	0.18	0.03	0.01	****	0.03	0.05	0.03	0.03	0.00	****	
		0 70	0.70	0.02	0.65	0.65	0.15	0 15	0.15	0 15	0.15	0.1
Green/Cycle: Volume/Cap:					0.39		0.31		0.31		0.39	
		4.3		40.0		5.2		31.2	31.1		31.8	
Delay/Veh: User DelAdj:					1.00			1.00	1.00		1.00	
		4.3						31.2	31.1		31.8	
AdjDel/Veh:				40.0	15	1	21.2	1	31.1	2	2	27.
DesignQueue:	3	9		.,1	13	-	4	_	٠.	•	_	

## Merica Science Cents

## November 20

Leval Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Ex + Ph 1 + Ph 2 PM

Intersection #21: Bay/lowa [N/S: Bay E/w: lowa]



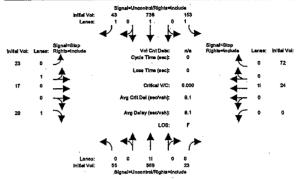
Approach:	No:	rth Bo	ound	So	outh Bound East Bound				ound	We	est Bo	ound
Movement:			- R		- Т	- R	L ·	T	- R	L -	Т	- R ·
			1		<b>-</b> -							
Min. Green:	0	. 0	. 0	0	0	0	0	0	0	. 0	- 0	
Volume Module	e:									-		
Base Vol:	55	553	36	13	806	66	39	22	66	33	38	11
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	55	5\$3	36	.13	806	66	39	22	66	33	38	11
Added Vol:	0	7	0	0	4	٥	0	0	0	0	0	0
Campus Incr:	0	0	0	0	0	0	0	0	0	9	٥	0
Initial Fut:	55	560	36	13	810	66	39	22	66	42	38	11
User 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
PHF Adj:	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
PHF Volume:	62	629	40	15	910	74	44	25	74	47	43	12
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	62	629	40	15	910	74	44	25	74	47	43	12
PCE 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
MLF Adj:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.:	62	629	40	15	910	74	44	25	74	47	43	12
				l		1						
Saturation F	low M	odule		•					•	•		
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.93	0.93	0.83	0.93	0.93	0.83	0.76	0.76	0.83	0.80	0.80	0.83
Lanes:	1.00	2.00	1.00	1.00	2.00	1.00	0.64	0.36	1.00	0.52	0.48	1.00
Final Sat .:	1769	3538	1583	1769	3538	1583	927	523	1583	796	720	1583
										1		
Capacity Ana	ivsis	Modu:	le:							٠.		
Vol/Sat:	0.03	0.18	0.03	0.01	0.26	0.05	0.05	0.05	0.05	0.06	0.06	0.01
Crit Moves:	****				****						***	
Green/Cycle:	0.09	0.71	0.71	0.03	0.65	0.65	0.15	0.15	0.15	0.15	0.15	0.15
Volume/Cap:	0.40	0.25	0.04	0.25	0.40	0.07	0.32	0.32	0.31	0.40	0.40	0.05
Delay/Veh:	36.1	4.3	3.6	40.0	16.7	5.2	31.2	31.2	31.1	31.9	31.9	29.2
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	36.1	4.3	3.6	40.0	6.7	5.2	31.2	31.2	31.1	31.9	31.9	29.2
DesignOueue:	3	9	1	1	15	1	2		3	2	2	0

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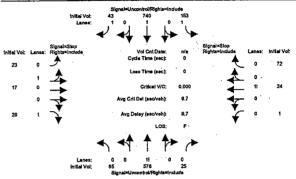
### November 200

Level Of Service Computation Report
2000 HCM Unsignalized (Future Volume Atternative)
Existing PM

Intersection #22: Bay/Escalona [N/S: Bay E/w: Escalana]

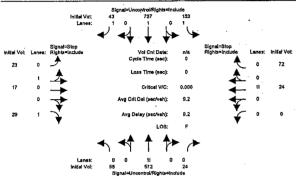


			,8ignal#	Jacontrol/F0	ghts=inclu	de						
Approach:	No:	rth B	ound	So	uth B	ound	E	ast B	ound	W	est B	ound
Movement:			- R			- R			- R			- R
												i
Volume Module	e:											
Base Vol:	55		23		736	43	23		29	0	24	72
Growth Adj:		1.00		1.00				1.00	1.00		1.00	
Initial Bse:			23	153		43	23		29	0		72
Added Vol:		0	0	0	0	0	0	0	0	0		0
Campus Incr:		. 0	0	0	-		0	-	0	0	•	0
Initial Fut:		569				43	23		29	_		72
User Adj:		1.00			1.00	1.00		1.00	1.00		1.00	
PHF Adj:		1.00			1.00	1.00		1.00	1.00		1.00	
PHF Volume:		569	23	153	736	4.3	23	17	29	0	24	72
Reduct Vol:		0		. 0	0	0.			0	0	-	0
Final Vol.:		569	23	153	736	43	23	17	29	0	24	72
Critical Gap	Modu.	le:										
Critical Gp:	4.1	XXXX	XXXXXX	4.1	XXXX	XXXXXX				XXXXXX	6.5	
FollowUpTim:	2:2	XXXX	XXXXX			XXXXXX				XXXXXX		3.3
Capacity Mod												
Cnflict Vol:	779	XXXX	XXXXX	592	XXXX	XXXXX		1744			1776	581
Potent Cap.:	847	XXXX	XXXXX	994	XXXX	XXXXX		87				518
Move Cap.:			XXXXXX			XXXXX	34					518
										]		
Level Of Ser	vice	Modul	e:									
Stopped Del:	9.5	XXXX				XXXXX						
LOS by Move:	A	•	*	A	*	*	*	*	В	*	*	*
Movement:	LT ·	- LTR	- RŤ	LT	- LTR	- RT	LT ·	- LTR	- RT	LT ·	- LTR	
Shared Cap.:												
Shrd StpDel:	00000	XXXX	XXXXX	XXXXX	XXXX	XXXXX		XXXX				
Shared LOS:	*	*	*	*	*	*	F	*	*	•	*	E
ApproachDel:	×	XXXXX		×	XXXXX			156.1			41.5	
ApproachLOS:		•			*			F			E	



	Approach:	No:	rth Bo	bauc	Sot	ath Bo	bund			ound		est Bo	
	Movement:	L ·	- T	- R	L ·	- T	- R	L	• т	- R		- T	
		<u>-</u>											
	Volume Module	:											
	Base Vol:	55	569	23	153	736	43	23	17	29	0	24	72
	Growth 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
	Initial Bse:	55	569	23	153		43	23	17	29	0	24	72
	Added Vol:	0	7	2	0	. 4	0	0	0	0	- 1	0	0
	Campus Incr:	0	. 0	0	0	0	0	0	0	0	0	•	0
	Initial Fut:	55	576	25	153	740	43	23	17	29	1	24	72
	User Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1,00	1.00
	PHF 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
•	PHF Volume:	55	576	25	153	740	43	23	17	29	1	24	72
	Reduct Vol:	0	0	0	. 0	0	0	0	0	0	0	0	0
	Final Vol.:	55	576	25	153	740	43	23	17	29	1	24	72
	Critical Gap	Modu.	le:							•			
	Critical Gp:	4.1	XXXX	100000	4.1	XXXXX	XXXXX	7.1	6.5	6.2	7.1	6.5	6.2
	FollowUpTim:	2.2	XXXX	XXXXX			300000					4.0	
	Capacity Mod	ıle:											
	Cnflict Vol:	783	XXXX	XXXXXX	601	XXXX	XXXXX	1793			1789		
	Potent Cap.:	844	XXXX	XXXXXX	986	XXXX	XXXXXX	63	86	420	64	82	512
	Move Cap.:	844	XXXX	XXXXXX			2000000			420		65	512
	Level Of Serv												
	Stopped Del:	9.6	20000	2000000	9.3	XXXX	200000	300000	XXXX			XXXX	XXXXX
	LOS by Move:	A	*	*	4-	*	. *		*	В	*	*	*
	Movement:			- RT			- RT					- LTR	~ RT
	Shared Cap .:	XXXX	XXXX	XXXXXX	XXXXX	XXXX	XXXXX	42	20000	XXXXX	XXXX		200000
	Shrd StpDel:	00000	XXXX	XXXXX	XXXXXX	XXXX	XXXXX	271.7	XXXX	XXXXXX	XXXXX	45.8	XXXXX
	Shared LOS:	*	*	*	*	. *	*	F	*	. *	*	E	*
	ApproachDel:	30	XXXXX		×	XXXXX			163.5			45.8	
	ApproachLOS:		*			*			F			E	

Intersection #22; Bay/Escalona [N/S; Bay E/w: Escalana]



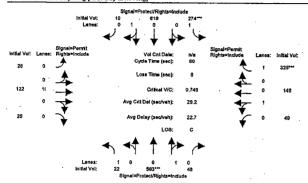
Movement: L - T - R	Approach:	North Bound	South Bound	East Bound	West Bound
Nolume   Nodule:   S5   S69   23   153   736   43   23   17   29   0   24   72   72   72   73   73   73   73   73	Movement: L	- T - R	L - T - R	L - T - R	L - T - R
Base Vol:					
Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Volume Module:				
Initial Bse: 55 569 23 153 736 43 23 17 29 0 24 72 Added Vol: 0 3 1 0 1 0 0 0 0 0 0 0 0 0 Campus Incr: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 Initial Fut: 55 572 24 153 737 43 23 17 29 0 24 72 User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Base Vol:	55 569 23	153 736 43	23 17 29	0 24 72
Added Vol: 0 3 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Growth Adj: 1.	00 1.00 1.00	1.00 1.00 1.00	1.00 1.00 1.00	
Campus Incr: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Initial Bse:	55 569 23	153 736 .43	23 17 29	0 24 72
Thitial Put: 55 572 24 153 737 43 23 17 29 0 24 72 User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Added Vol:	0 3 1	0 1 0	0 0 0	0 0 0
User Adj:	Campus Incr:	0 0 0	0 0 0	0 0 0	0 0 0.
PHF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Initial Fut:	55 572 24	153 737 43	23 17 29	0 24 72
PHF Volume: 55 572 24 153 737 43 23 17 29 0 24 72 Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	User Adj: 1.	00 1.00 1.00	1.00 1.00 1.00		
Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PHF 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
Final Vol.: 55 572 24 153 737 43 23 17 29 0 24 72 Critical Gap Module: Critical Gp: 4.1 MONE MONOR 4.1 MONOR MONOR 7.1 6.5 6.2 MONOR 6.5 6.2 FollowUpTim: 2.2 MONOR MONOR 2.2 MONOR MONOR 3.5 4.0 3.3 MONOR 4.0 3.3	PHF Volume:	55 572 24	153 737 43	23 17 29	0 24 72
Critical Gap Module:  Critical Gap: 4.1 MODOX MODOX:  4.1 MODOX MODOX:  7.1 6.5 6.2 MODOX:  6.5 6.2 MODOX:  6.5 6.2 MODOX:  7.1 6.5 6.2 MODOX:  7.1 6.5 6.2 MODOX:  7.2 MODOX:  7.2 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.3 MODOX:  7.4 MODOX:  7.4 MODOX:  7.4 MODOX:  7.4 MODOX:  7.4 MODOX:  7.4 MODOX:  7.4 MODOX:  7.4 MODOX:  7.4 MODOX:  7.4 MODOX:  7.4 MODOX:  7.4 MODOX:  7.4 MODOX:  7.4 MODOX:  7.4 MODOX:  7.4 MODOX:  7.4 MODOX:  7.4 MODOX:  7.4 MODOX:  7.4 MODOX:  7.4 MODOX:  7.4 MODOX:  7.4 MODOX:  7.4 MODOX:  7.4 MODOX:  7.4 MODOX:  7.4 MODOX:  7.4 MODOX:  7.4 MODOX:  7.4 MODOX:  7.4 MODOX:  7.4 MODOX:  7.4 MODOX:  7.4 MODOX:  7.4 MODOX:  7.4 MODOX:  7.4 MODOX:  7.4 MODOX:  7.4 MODOX:  7.4 MODOX:  7.4 MODOX:  7.4 MODOX:  7.4 MODOX:	Reduct Vol:	0 0 0	0 0 0	0 0 0	0 0 0
Critical Gp: 4.1 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	Final Vol.:	55 572 24	153 737 43	23, 17 29	0 24 72
PollowUpTim: 2.2 XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX XXXX	Critical Gap Mo	dule:			•
Capacity Module: Cnflict Vol: 780 XXXXXX XXXXXX 990 XXXXX 1785 1749 737 XXXX 1780 584 Potent Cap.: 846 XXXX XXXXXX 990 XXXXX XXXXXX 64 87 422 XXXXX 83 515 Move Cap.: 846 XXXX XXXXXX 990 XXXX XXXXX 33 68 422 XXXXX 66 515  Level Of Service Module: Stopped Del: 9.5 XXXX XXXXX XXXXX XXXXX XXXXX XXXXX XXXX	Critical Gp: 4	.1 XXXX XXXXX	4.1 20000 200000	7.1 6.5 6.2	100000x 6.5 6.2
Capacity Module:   Chflict Vol: 780   DODX   DODX   S96   DODX   DODX   S96   DODX   DODX   S96   DODX   S00   S00   S96   S96   DODX   S00   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96   S96	FollowUpTim: 2	.2 XXXXX XXXXXX	2.2 2000 20000	3.5 4.0 3.3	хжжж 4.0 3.3
Chilict Vol: 780					
Potent Cap.: 846 xxxx xxxxx	Capacity Module	::			
Move Cap.: 846 xxxx xxxxx   990 xxxxx xxxxx   33 68 422 xxxx 66 515	Cnflict Vol: 7	80 xxxx xxxxx 08	596 20000 200000	1785 1749 737	XXXX 1780 584
Level Of Service Module:  Stopped Del: 9.5 XXXX XXXXX XXXXX XXXXX XXXXX XXXXX XXXX	Potent Cap.: 8	46 XXXX XXXXX	990 xxxx xxxxx	64 87 422	xxxxx 83 515
Level Of Service Module: Stopped Del: 9.5 KOKK KOKKK KOKKK KKKKK KKKKK KKKKK KKKKK KKKKK KKKKK KKKK	Move Cap.: 8	46 xxxx xxxxx	990 жжж жжжж	33 69 422	хххх 66 515
Stopped Del: 9.5 xxxxx xxxxxx xxxxxx xxxxxx xxxxx xxxxx xxxx					
LOS by Move: A	Level Of Servic	e Module:	• •		
Movement:	Stopped Del: 9	.5 XXXX XXXXXX	9.3 XXXX XXXXX	XXXXX XXXX 14.2	XXXXXX XXXXX XXXXXX
Shared Cap.: MOKE MOKE MOKEN MOKEN MOKEN MOKEN MOKEN AND 43 MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN MOKEN	LOS by Move:	A * *	A * *	* * B	* * *
Shrd StpDel:xxxxx xxxx xxxx xxxx xxxx xxxx xxxx x	Movement: L	T - LTR - RT	LT - LTR - RT	LT - LTR - RT	LT - LTR - RT
Shared LOS: * * * * * * F * * * E	Shared Cap.: xx	XXXXX XXXX	XXXX XXXX XXXXX	43 2000 20000	2000X 200XX 190
Sharea Bos.	Shrd StpDel:xxx	XXXXX XXXX	XXXXXX XXXXX XXXXXX	263.8 20000 200000	2000000 200000 42.0
ApproachDel: xxxxx xxxxx 158.9 42.0	Shared LOS:	* * *	* * *	F : * · *	* * E
	ApproachDel:	XXXXXXX	2000000	158.9	42.0
ApproachLOS: * F E	ApproachLOS:	*	. *	F	E

### Javies Calanas Cont

November 2003

Level Of Service Computation Report 2000 HCM Operations (Future Volume Atternetive) Existing PM

Intersection #23: Bay/King [N/S: Bay E/w: King]

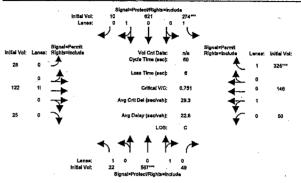


Approach:			ound			ound					est Bo	ound
Movement:					~ T	- R	L	- Ţ	R	L	- T	- R
			1									
Min. Green:	, 0	0	٥,	. 0	0	0	. 0	. 0	٥.	. 0	0	0
Telement de de la												
Volume Modul												
Base Vol:	22			209		10		121		49	145	284
Growth Adj:			1.00		1.00	1.00		1.00			1.00	1.00
Initial Bse: Added Vol:		. 499	48	209		10		121	25	49		284
Campus Incr:			0	0		0	0			0	-	0
Initial Fut:			0	65		0		1	-		_	41
			48	274		10	28		25			325
User Adj: PHP 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
PHF Volume:		563	48	274	619	10	28		25	49	146	325
Reduct Vol:			0	0	. 0	0	0	-	-	0	0	0
Reduced Vol:		563		274			28	122			146	325
PCB Adj:					1.00			1.00			1.00	1.00
MLF Adj:			1.00		1.00		1.00			1.00	1.00	1.00
Final Vol.:			48		619	10		122	25	49	146	325
			1							i		
Saturation F.												
Sat/Lane:			1900					1900	1900	1900	1900	1900
Adjustment:					0.98			0.90	0.90	0.89	0.89	0.83
Lanes:						0.02		0.70	0.14	0.25	0.75	1.00
Final Sat.:	1769	1695	145	1769	1829	30	274	1196	245	425	1266	1583
					·		}		1			1
Capacity Anal	lysis	Modul	.e:									•
Vol/Sat:	0.01	0.33	0.33	0.15	0.34	0.34	0.10	0.10	0.10	0.12	0.12	0.21
Crit Moves:		****		****								****
Green/Cycle:					0.63		0.27	0.27	0.27	0.27	0.27	0.27
Volume/Cap:				0.75	0.54	0.54	0.37	0.37	0.37	0.42	0.42	0.75
Delay/Veh:			22.4	38.1	8.9	8.9	24.0	24.0	24.0	24.4	24.4	33.6
User DelAdj:			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:			22.4	38.1	8.9	8.9	24.0	24.0	24.0	24.4	24.4	33.6
DesignQueue:	1	15	1	10	11	0	1	4	1	2	5	11

.....

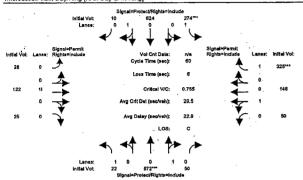
Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
Ex + Ph 1 PM

Intersection #23: Bay/King [N/S: Bay E/w: King]



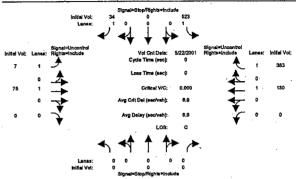
Approach:	No	rth B	ound	Sot	uth B	ound	E	ast B	ound	W	est Bo	ound
Movement:			- R			- R			- R		- T	
						}	1					
Min. Green:	0	0	0	0	0	0	0	0	0	. 0	. 0	o ·
	<b>-</b>									.		
Volume Module												-
Base Vol:	22	499	48	209		10	28	121	25	49	145	284
Growth Adj:		1.00			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:			48	209	532	10	28	121	25	49	145	284
Added Vol:	0		1		2	0	D	0	0	1	0	0
Campus Incr:			0	65	87	0	0	1	.0	0	1	41
Initial Fut:		567			621	10	28	122	25	50	146	325
User Adj:		1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHP Adj:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	22	567	49	274	621	10	· 28	122	25	50	146	325
Reduct Vol:	0	0	0	0	. 0	0	0	0	0	0	0	0
Reduced Vol:	22	567	49	274	621	10	28	122	25	50	146	325
PCE 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
MLF 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
Final Vol.:	22	567	49	274	621	10	28	122	25	50	146	325
			1			1	1		1	1		1
Saturation F	low Mo	dule:				•	,					•
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.93	0.97	0.97	0.93	0.98	0.98	0.90	0.90	0.90	0.88	0.88	0.83
Lanes:	1.00	0.92	0.08	1.00	0.98	0.02	0.16	0.70	0.14	0.26	0.74	1.00
Final Sat.:							274		245	429	1252	1583
							1			1		1
Capacity Anal							•			•		
Vol/Sat:	0.01	0.33	0.33	0.15	0.34	0.34	0.10	0.10	0.10	0.12	0.12	0.21
Crit Moves: .		****		***								****
Green/Cycle:	0.02	0.45	0.45	0.21	0.63	0.63	0.27	0.27	0.27	0.27	0.27	0.27
Volume/Cap:	0.54	0.75	0.75	0.75	0.54	0.54	0.37	0.37	0.37	0.43	0.43	0.75
Delay/Veh:	52.5	22.4	22.4	38.3	8.9	8.9	24.0	24.0	24.0	24.6	24.6	33.8
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	52.5	22.4	22.4	38.3	8.9	8.9	24.0	24.0	24.0	24.6	24.6	33.8
DesignQueue:	1	15	1	10	11	0	1	4	1	2	5	11

Intersection #23: Bay/King [N/S: Bay E/w: King]



Approach:	No	rth Bo	ound	Son	ıth Bo	ound	E	ast Bo	und	We	est Bo	und
Movement:		- Ť			- T		Ľ.	- т	- R	L ·	- т	- R
Min. Green:				٠ ,		o ·	٥	0	0	. 0	0	0
Volume Module	e:											
Base Vol:	22	499	. 48	209	532	10	28	121	25	49	145	284
Growth 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
Initial Bse:	22	499	48	209	532	10	28	121	25	49	145	284
Added Vol:	0	9	2	0	5	0	0	. 0	. 0	1	0	0
Campus Incr:	0	64	0	65	87	0	0	. 1	0	0	1	41
Initial Fut:	22	572	50	274	624	10	28	122	25	50	146	325
User 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
PHF 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
PHF Volume:	22	572	50	274	624	10	28	122	25	50	146	325
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	22	572	50	274	624	10	28	122	25	50	146	325
PCE Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF 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
Final Vol.:			50	274		10	28	122	25	50	146	325
	1											
Saturation F	iow M	odule:		•		•	•			•		
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:			0.97		0.98	0.98	0.90	0.90	0.90	0.88	0.88	0.83
Lanes:		0.92	0.08	1.00	0.98	0.02		0.70	0.14	0.26	0.74	1.00
Final Sat.:		1692			1829	29		1196	245		1252	1583
Capacity Ana				1		'	•			'		
Vol/Sat:		0.34	0.34	0.15	0.34	0.34	0.10	0.10	0.10	0.12	0.12	0.21
Crit Moves:		****		****								****
Green/Cycle:	0 02	0 45	0.45	0.21	0.63	0.63	0.27	0.27	0.27	0.27	0.27	0.27
Volume/Cap:			0.75		0.54	0.54		0.38	0.38	0.43		0.75
Delay/Veh:		22.4	22.4		8.8	8.8		24.1	24.1		24.6	34.1
User DelAdj:			1.00		1.00	1.00		1.00	1.00		1.00	1.00
AdjDel/Veh:			22.4	38.6	8.8	8.8		24.1	24.1		24.6	34.1
DesignQueue:			1	10		0.0		4	1	24.0	5	11
nesidifaere:	1	7.2	1	10	TT	U	1	4	1	4	D D	+-

Leval Of Service Computation Report
2000 HCAL Unsignalized (Fuzure Volume Alternative)
Entering (Fuzure Volume Alternative)
Entering (Fuzure Volume Alternative)
Entering (Fuzure Volume Alternative)



Approach:	No	rth Bo	ound			ound			ound		est Be	
Movement:	L.	- T	- R	ь.	- T	- R			- R		- т	
	1				,							
Volume Modul	e: >>	Count	Date.	: 22 Ma	ay 2.00	1 <<						
Base Vol:	0	0	0	523	0	34	7	75	0	0	130	383
Growth 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
Initial Bse:	0	0	0	523	. 0	34	. 7	75	0	0	130	383
Added Vol:	0	0	0	0	0	0	. 0	0	0	0	0	0.
Campus Incr:	0	. 0	0	0	0	0	0	. 0	0	0	0	0
Initial Fut:	0	0	0	523	0	34	. 7	75	0	0	130	383
User 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
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00
PHF Volume:	0	0	0	523	0	34	7	75	0	. 0	130	383
Reduct Vol:	. 0	0	0	0	0	0	0	0	0	0	0	0
Final Vol.:	0	0	0	523	0	34	7	75	0	0	130	363
Critical Gap	Modu.	le:										
Critical Gp::	XXXXX	XXXX	XXXXX	6.4	XXXX	6.2	4.1	XXXX	XXXXX	XXXXX	XXXX	XXXXXX
FollowUpTim:	XXXXX	XXXX	XXXXX	3.5	XXXXX	3.3				XXXXXX		
Capacity Mod	ule:			,								
Cnflict Vol:	XXXX	XXXX	XXXXX	219	XXXX	130	513	XXXX	XXXXX	XXXX	XXXX	XXXXX
Potent Cap.:	XXXX	XXXX	XXXXX	774	XXXX	925	1063	XXXX	XXXXXX	XXXX	XXXX	XXXXX
Move Cap.:	XXXX	XXXX	XXXXX	770	XXXX	925	1063	XXXX	XXXXX	XXXX	XXXX	XXXXXX
Level Of Ser	vice 1	Module	<b>:</b>									
Stopped Del:	ххххх	XXXX	XXXXXX	19.0	XXXX	9.0				XXXXXX		200000
LOS by Move:	. *	*	*	C	*	A	A	*	. *	*	*	*
Movement:						- RT			- RT		- LTR	
Shared Cap.:												
Shrd StpDel:	XXXXXX	30000	XXXXXX					XXXX	XXXXX	XXXXX	20000	300000
Shared LOS:	. *	*	*	* .	*	*	. *	*	*	*	*	*
ApproachDel:	×	XXXXX			18.4		30	0000		x	CCCCC	
ApproachLOS:		*			C			*			*	

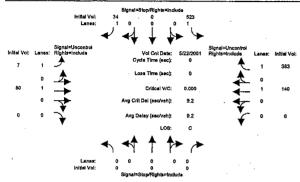
Traffix 7.5.0715

Marine Science Cent

November 2003

Level Of Service Computation Report 2000 HCM Unsignatized (Future Volume Attemative) Ex + Ph 1 PM

Intersection #24: Empire Grade/Heller [N/S: Heller E/w: Empire Grade]



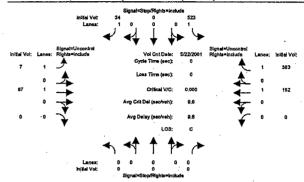
						_	_		_			:
Approach:		rth B			uth B		_	ast B			est B	
			- R			- R			- R		- T	- R
7-1 4-1-1-							]			11		
Volume Module:							_					
Base Vol:	0		0	523						_		
		1.00	1.00		1.00	1.00		1.00			1.00	1.00
Initial Bse:	0.		0	523	0	34	7		Ó	0	130	383
Added Vol:	0	. 0	0	0	0	- 0	0	_	0	0	10	0
Campus Incr:	0	0	0	0		0	0		0	0	0	0
Initial Fut:	0	0	0	523	0	34	7		-	-	140	383
		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj: 1		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	0	0	-523	0	34	7	80	0	0	140	383
Reduct Vol:	0	0	0	0	0	0	0	Ō	. 0	. 0	0	0
Final Vol.:	0	0	0	523	0	34	7	80	0	0	140	383
Critical Gap Mo	odu]	le:										
Critical Gp:xxx	XXX	XXXX	XXXXX	6.4	XXXX	6.2	4.1	жж	XXXXX	XXXXX	XXXX	XXXXX
FollowUpTim:xxx	KXX.	XXXXX	XXXXX	3.5	XXXX	3.3	2.2	жxх	xxxxx	XXXXXX	300000	200000
							11			1	·	[
Capacity Module	e:									• •		. 2
Cnflict Vol. x	кж	xxxx	XXXXX	234	жж	140	523	XXXX	XXXXXX	XXXXX	XXXX	XXXXXX
Potent Cap.: xx	KXX.	XXXX	XXXXX	759	xxxx	913	1054	XXXX	XXXXXX	XXXX	xxxx	XXXXX
Move Cap.: xx	XXX	XXXX	XXXXX	755	XXXX	913	1054	XXXX	XXXXX	XXXX	xxxx	2000000
				1						11		
Level Of Service	ce N	iodule	e: '				, ,			• •		•
Stopped Del:xxx	CCC	XXXX	XXXXX	19.8	xxxx	9.1	8.4	xxxx	xxxxx	xxxxx	жж	XXXXXX
LOS by Move:	*	*	*	С	*	A	A	*	*	*	*	*
Movement: I	T.	LTR	- RT	LT ·	- LTR	- RT	LT ·	- LTR	- RT	LT -	- LTR	- RT
Shared Cap.: xx	CCX	XXXX	XXXXX	XXXX	XXXX	xxxxx	XXXX	XXXX	XXXXX	XXXX	XXXX	XXXXX
Shrd StpDel:xxx	XX	xxxx	XXXXX	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxx	XXXXX	xxxx	xxxxx
Shared LOS:	*	*	*	*	*	*	*	*	*	*	*	*
ApproachDel:	x	COCC	-		19.1		ж	cccx		303	00000	
ApproachLOS:		*						*			*	

Merina Science Center

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Level Of Service Computation Report 2000 HCM Unsignalized (Future Volume Atlemative) Ex+Ph 1+Ph 2 PM

Intersection #24: Empire Grade/Heller [N/S: Heller E/w: Empire Grade]



Approach:	No:	rth B	ound	Son	uth B	ound	E	ast B	ound	W	est B	ound	
Movement:	L.	- T	- R	L.	- T	- R	L	- T	- R	L	- т	- R	
				11						1			1
Volume Module	e: >>	Count	t Date	22 M	ay 20	01 <<	• •						
Base Vol:	0	0.	. 0	523	- o	34	7	75	0	0	130	383	ĺ
Growth 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	
Initial Bse:	. 0	0	0	523	. 0	34	` 7	75	0	0	130	383	
Added Vol:	0	0	0	0	0	. 0	0	12	0	0	22	0	
Campus Incr:	0	. 0	0	0	0	0	0	. 0	0	0	0	0	
Initial Fut:	0	0	0	523	0	34	7	87	0	. 0	152	383	
User 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	
PHF 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	
PHF Volume:		0	0	523	0	34	7	87	0	0	152	383	
Reduct Vol:	0	0		0	0	0	0	0	0	0	0	. 0	
Final Vol.:	. 0	0	0	523	0	34	7	87	0	0	152	383	
Critical Gap													
Critical Gp::								20000	XXXXX	XXXXX	XXXX	XXXXXX	
FollowUpTim::									XXXXX				
											- <b></b> -		
Capacity Mod													
Cnflict Vol:	XXXX	XXXX	XXXXX	253	XXXX		535	XXXX	XXXXX	XXXXX	XXXXX	XXXXXX	
Potent Cap.:					XXXX	900	1043	XXXX	xxxxx	XXXXX	200000	XXXXXX	
Move Cap.:					XXXXX				XXXXXX				
				[]				<b></b>					
Level Of Serv													
Stopped Del:		XXXX					8.5	XXXX	XXXXXX	XXXXX	XXXX	XXXXXX	
LOS by Move:		*	*			A.	A		*	*	*	*	
Movement:									- RT				
Shared Cap.:													
Shrd StpDel::	CXXXX	XXXX	XXXXX			XXXXX	XXXXX	XXXXX	XXXXXX	XXXXX	жж	XXXXX	
Shared LOS:	*		*	*	+	*	*	*	*	*	*	*	
ApproachDel:	20				20.2		303	K10000K		30	XXXX		
ApproachLOS:		*			C			*			*		

# Marine Science Center

# November 2003

Summary Scenario Comparison Report (With Average Critical Delay) Future Volume Alternative

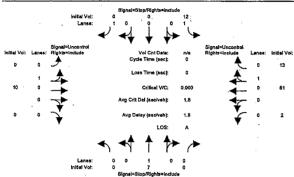
			2010 No	Project AM		1	2010 Plus	Phase 1 A	Л	l		2010 No	Project PM			l 2	2010 Plus	Phase 1 PM	1
			Avg		Avg Crlt		Avg		Avg Crit		Avg		Crit	Avg Crit	Avg Crit		Avg		Avg Crit
1-1	ut		Del	Crit	Del		Del	Crit	Del		Del	Crit	V/C	Del	Del		Del	Crit	Del
#1	Delaware/Shaffer [N/S:Shaffer E/W:Delaware]	LOS	(sec) 1.8	0.000	(sec) 1.8	LOS	(sec) 0.8	0.000	(sec) 0.8	LOS	(sec) 1.5	0,000	+ 0.000	(sec) 1.5	Change + 0.6	LOS	(sec) 0.5	V/C -	(sec) 0.5
#2	Delaware/Natural Bridges [N/S:Natural Bridges E/W:Delaware]	A	8.1	0.218	8.1	A	8.6	0.300	8.6	A	8.6	0.182	- 0.118	é.6	- 0.0	A	9.3	0.308	9.3
#3	Delaware/Swanton [N/S: Swanton E/W: Delaware]	В	3.8	0.000	3.8	В	3.6	0.000	3.6	В	3.5	0.000	+ 0.000	3.5	- 0.1	В	3.2	0.000	3.2
#4	Bay/Laguna [N/S:Laguna E/W: Bay]	В	4.3	0.000	4.3	В	4.4	0.000	4.4	В	4.6	0.000	+ 0.000	4.6	+ 0.2	С	4.9	0.000	4.9
#5	SR 1/Shaffer [N/S: Shaffer E/w: SR 1]	В	2.8	0.000	2.8	. В	2.8	0.000	2.8	В	2.8	0.000	+ 0.000	2.8	+ 0.0	В	2.9	0.000	2.9
#6	Delaware/Swift [N/S: Swift E/W: Delaware]	В	12.8	0.547	12.8	В	14.3	0.611	14.3	В	12.6	0.577	- 0.034	12.6	- 1.7	В	14.0	0.632	14.0
#7	Delaware/Almar [N/S: Almar E/W: Delaware]	В	10.1	0.433	10.1	В	10.6	0.466	10.6	В	13.5	0.657	+ 0.191	13.5	+ 2.9	С	15.4	0.731	15.4
#8	SR 1/Western [N/S: Western E/w: SR 1]	С	24.0	0.487	26.0	С	24.4	0.503	26.9	С	22.5	0.669	+ 0.166	23.5	- 3.4	С	23.4	0.686	25.1
#9	SR 1/Swift [N/S: Swift E/w: SR 1]	Ċ	23.3	0.425	31.4	С	23.3	0.440	31.4	С	22.2	0.492	+ 0.052	27.0	- 4.4	С	22.4	0.504	27.3
#10	Mission/Almar [N/S: Almar E/w: Mission]	С	21.1	0.539	28.5	·C	22.0	0.567	30.1	С	24.4	0.671	+ 0.103	32.5	+ 2.4	С	25.9	0.706	34.5
#11	Mission/Bay [N/S: Bay E/w: Mission]	, D	37.9	0.831	38.2	D	39.0	0.854	41.1	F	104.6	1.166	+ 0.312	126.0	+ 84.9	F	113.4	1.184	133.3
#12	Laurel/Celifornia [N/S: California E/w: Laurel]	С	21.4	0.550	25.5	С	21.5	0.555	25.7	С	25.7	0.729	+ 0.173	28.7	+ 3.0	С	26.0	0.732	28.9
#13	Mission/Laurel [N/S: Laurel E/w: Missionl]	С	24.7	0.710	23.6	С	24.8	0.719	23.6	D	41.8	0.933	+ 0.214	51.0	+ 27.5	D	43.8	0.955	54.4
#14	Mission/Walnut [N/S: Walnut E/w: Mission]	,c	23.7	0.637	26.4	С	23.7	0.645	26.3	В	19.5	0.586	- 0.059	20.7	- 5.6	В	19.2	0.606	20.5
#15	Mission/Union [N/S: Union E/w: Mission]	°C	28.3	0.780	28.4	С	28.4	0.787	28.5	С	29.3	0.812	+ 0.024	27.0	- 1.4	С	29.6	0.822	27.2
#16	Mission/Chestnut [N/S: Chestnut E/w: Mission]	F.	81.5	1.154	112.8	F	85.3	1,164	116.9	F	162.6	1.375	+ 0.210	199.1	+ 82.2	F	166.5	1.386	207.3
#17	Mission/River [N/S: River E/w: Mission]	D	45.3	0.987	64.7	D	45.9	0.993	65.8	E	68.2	1.070	+ 0.077	95.6	+ 29.8	E	70.7	1.083	99.9
#18	Western/Meder [N/S: Western E/w: Meder]	Α	8.9	0.339	8.9	Α	9.0	0.347	9.0	Α	9.7	0.357	+ 0.010	9.7	+ 0.8	Α	9.9	0.372	9.9
#19	High/Western [N/S: Western E/w: High]	F	11.8	0.000	11.8	F	12.8	0.000	12.8	F	17.0	0.000	+ 0.000	17.0	+ 4.2	F _.	19.9	0.000	19.9
#20	High/Bay [N/S: Bay E/w: High]	C	20.5	0.609	22.5	С	20.5	0.609	22.5	С	27.7	0.760	+ 0.151	31.6	+ 9.1	С	27.8	0.762	31.6
#21	Bay/lowa [N/S: Bay E/w: Iowa]	В.	11,4	0.397	9.6	В	11.4	0.397	9.6	Α	9.9	0.512	+ 0.115	9.6	- 0.0	Α	9.9	0.512	9.6
#22	Bay/Escalona [N/S: Bay E/w: Escalana]	F	13.6	0.000	13.6	F	14.0	0.000	14.0	F	132.0	0.000	+ 0.000	132.0	+ 118.0	F	137.9	0.000	137.9
#23	Bay/King [N/S: Bay E/w: King]	,C	22.2	0.717	27.1	С	22.2	0.719	27.1	С	28.0	0.865	+ 0.146	37.8	+ 10.7	С	28.2	0.868	38.1
#24	Empire Grade/Heller [N/S: Heller E/w: Empire Grade]	С	4.1	0.000	4.1	. C	4.1	0.000	4.1	F	35.8	0.000	+ 0.000	35.8	+ 31.6	Ė	38.7	0.000	38.7
													•						
	!			ι ,					1						, j				

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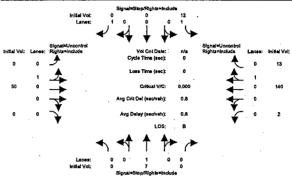
Level Of Service Computation Report
2000 HCM Unsignatized (Future Volume Alternative)
2010 No Project AM

Intersection #1: Delaware/Shaffer [N/S:Shaffer E/W:Delaware]



	. caga	MI2mbi-odura-incipae			
Approach: No	orth Bound	South Bo	ound B	ast Bound	West Bound
Movement: L	- T - R	L -, T	- R L	- T - R	L - T - R
Volume Module:					
Base Vol:	6 0	11 0	0 0	9.0	2 46 12
	1.10 1.10		1.10 1.10	1.10 1.10	1.10 1.10 1.10
Initial Bse: 0			0 0	10 0	2 51 13
Added Vol: 0			0 0		
Campus Incr: 0			0 0		
Initial Fut: 0			0 0		
User Adj: 1.00				1.00 1.00	
PHF Adj: 1.00				1.00 1.00	
PHF Volume: 0			0 0	10 0	2 51 13
Reduct Vol: 0			0 0	0 0	
Final Vol.: 0		12 0	0 0	10 0	2 51 13
Critical Gap Modu					
			XXXXX XXXXX	XXXXX XXXXX	4.1 XXXX XXXX
FollowUpTim:xxxxx			XXXXXX XXXXXX		
Capacity Module:					
Cnflict Vol: xxxx		75 xxxx	XXXXX XXXXX	XXXXX XXXXX	10 жжж жжж
Potent Cap.: xxxx		901 xxxx	XXXXX XXXX	XXXXX XXXXXX	1590 XXXX XXXX
Move Cap.: xxxx	: 800 xxxxxx	894 xxxx	XXXXXX XXXXXX	XXXXX XXXXXX	1590 XXXX XXXXX
Level Of Service	Module:				
Stopped Del:xxxxx		9.1 хххх	XXXXXX XXXXXX	XXXXX XXXXX	7.3 20000 200000
LOS by Move: *	A *	A *	* *	* . *	A * *
	- LTR - RT			- LTR - RT	LT - LTR - RT
Shared Cap.: xxxx	XXXX XXXXX	XXXX XXXXX	XXXXX XXXXX	XXXX XXXXX	XXXXX XXXXX XXXXXX
Shrd StpDel:xxxxx	XXXXX XXXXX	XXXXX XXXXX	XXXXXX XXXXXX	XXXX XXXXXX	XXXXX XXXXX XXXXX
Shared LOS: *	* *	* *.	* *	* *	* * *
ApproachDel:	9.5	9.1	×	xxxxxx	XXXXXX
ApproachLOS:	A	. A		*	*

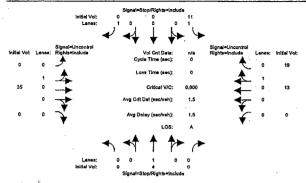
Level Of Service Computation Report
2000 HCM Unalgnatized (Future Volume Alts mathre)
Intersection #1: Delaware/Shaffer [N/S:Shaffer EW:Delaware]



			Signa	i=Stop/Righ	p = project	•						
Approach:	No	rth B	ound	So	uth B	ound	E	ast B	ound	W	est B	ound .
Movement:	L	- Т	- R	L	- T	- R	L	- Т	- R	L	~ T	- R
	1			11			11			11		
Volume Modul	ė:			• •			• •					'
Base Vol:	0	6	´ O.	11	. 0	0	0	9	0	2	46	12
Growth Adj:	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
Initial Bse:				12	0	0	0	10	0	2	51	13
Added Vol: Campus Incr:	0	0	. 0	0	0	0	0	40	0	0	89	0
Campus Incr:	0	0	0		0	0	0	0	0	0	0	0
Initial Fut:	0	7	0	12	0	0	0	50	0	2	140	13
User 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
PHF 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
PHF Volume:	0	7	0	12	. 0	0	0	50	0	2	140	1.3
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Final Vol.:	0	7	0	12	0	0	0	50	0	2	140	1.3
Critical Gap	Modu.	le:										
Critical Go:	XXXXX	6.6	XXXXX	7.2	XXXXX	XXXXXX	XXXXX	xxxx	XXXXX	4.1	XXX	xxxxx
FollowUpTim:	20000	4.1	XXXXX	3.6	-xxxxx	xxxx	XXXXX	XXXX	XXXXX	2.2	XXXX	XXXXX
Capacity Mod				•						• •		
Cnflict Vol:	XXXX	207	XXXXX	204	xxxx	xxxxx	XXXX	xxxx	xxxxx	50	XXXX	XXXXX
Potent Cap.:	xxxx	679	XXXXX	741	XXXX	xxxx	XXXXX	xxx	XXXXXX	1538	XXXX	XXXXX
Move Cap.:						XXXXX					xxxx	XXXXXX
							1			11		
Level Of Ser				•	*		. ,					
Stopped Del:	XXXXX	10.4	xxxxx	10.0	xxxx	XXXXX	XXXXX	xxxx	xxxxx	7.3	xxxx	xxxx
LOS by Move:							*		*			
Movement:							LT ·	- LTR	- RT	LT ·	- LTR	- RT
Shared Cap .:	XXXX	xxxx	xxxxx	xxxx	XXXX	XXXXX	XXXX	XXXX	XXXXX	xxxx	XXX	XXXXX
Shrd StpDel:												
Shared LOS:		*		*						*	*	*
ApproachDel:		10.4			10.0		30	00000		20	COCC	
ApproachLOS:		В			A			*			*	

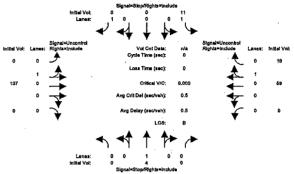
Level Of Service Computation Report 2000 HCM Unalgnatized (Future Volume Alternative) 2010 No Project PM

Intersection #1: Delaware/Shaffer [N/S:Shaffer E/W:Delaware]



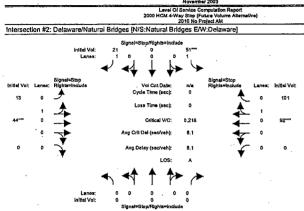
Approach:	No:	rth B	ound	So	uth B	ound	E	ast B	ound	We	est B	ound
Movement:	L.	- T	- R	L ·	- Т	- R	L	- т	- R	L ·	- т	- R
	~	<b>-</b>		11			11					
Volume Module				• •			• •					
Base Vol:				10	. 0	0	0	32	0	٥	12	17
	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
Initial Bse:	0	4	0	11	0	0	0	35	0	0	13	19
Added Vol:	0	0	0	0	0	0	۰ ٥	0	. 0	0	0	0
Campus Incr:	0,	0	0	0	0	0	0	0	·. 0	0	0	0
Initial Fut:	0	4	0	11	0	0	0	35	0	0	13	19
User 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
PHF 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
PHF Volume:	0	4	0	11	0	0	0	35	0	0	13	19
Reduct Vol:	0	0	0	0	0	0	O.	0	0	0	0	0
Final Vol.:	. 0	4	0	11	0	0	0	35	0	0	13	19
Critical Gap	Modu.	le:										
Critical Gp:x	XXXX	6.6	XXXXX	7.2	XXXX	XXXXX	XXXXXX	XXXX	XXXXXX	XXXXXX	xxxx	XXXXX
FollowUpTim:x	XXXX	4.1	XXXXX	3.6	XXXX	XXXXXX	XXXXXX	xxxx	XXXXX	XXXXX	XXXX	XXXXX
				[[			[			11	- <i></i> -	
Capacity Modu	le:											
Cnflict Vol:	XXXX	67	XXXXXX	60	XXXX	XXXXX	XXXX	XXXX	XXXXX	XXXXX	XXXX	XXXXX
Potent Cap.:	XXXX	812	XXXXXX	921	XXXX	XXXXXX	XXXXX	XXXX	XXXXX	XXXXX	XXXX	XXXXX
Move Cap.:	XXXX	812	XXXXX	917	XXXX	XXXXX	XXXX	XXXX	3000XX	XXXX	XXXX	XXXXX
Level Of Serv												
Stopped Del:x	XXXX	9.5	XXXXX	9.0			XXXXX	XXXX	XXXXX	XXXXXX	XXXX	XXXXX
LOS by Move:	*	A	*	A	*	* *	*	*	*	*	*	*
Movement:	LT ·	- LTR	- RT	LT ·	LTR	- RT	LT	- LTR	- RT	LT -	LTR	- RT
Shared Cap.:	XXXX	XXXXX	XXXXX	XXXX	XXXX	xxxxx	XXXX	XXXX	XXXXX	XXXX	XXXX	200000
Shrd StpDel:x	xxxx	XXXX	XXXXX	XXXXX	XXXX	XXXXX	XXXXX	300000	XXXXX	XXXXXX	XXXX	XXXXX
Shared LOS:	*	*	*	*	*	*	*	*	*	*	*	*
ApproachDel:		9.5			9.0		<b>X</b>	COOCK		30	CCCC	
ApproachLOS:		A			I A			*			*	

Level Of Service Corputation Report
2000 HCM Unsignatizes (Future Volume Alternative)
Intersection #1: Delaware/Shaffer [N/S:Shaffer E/W:Delaware]



			Oglia	a-oppragn	B-01000								
Approach:	No	rth B	ound	So	uth B	ound	E	ast B	ound	We	est Bo	ound	
Movement:													
				[]						11		1	
Volume Modul	e:												
Base Vol:			0		. 0			32			. 12		
Growth Adj:						1.10	1.10	1.10	1.10	1.10	1.10	1.10	
Initial Bse:				11	0			35			13	19	
Added Vol:	0	0	0	0			0	102	. 0		46	. 0	
Campus Incr:	0	0	_ 0	0			0	0	0	0	0	0	
Initial Fut:					•	_	0	~~.	0		59	19	
User Adj:											1.00	1.00	
PHF Adj:											1.00		
PHF Volume:							0	137	0	0	59	19	
Reduct Vol:	0	٥	0	0	0	. 0	0	0	0	0	0	0	
Final Vol.:			0	11	0	0	0	137	٥	Q	5 <b>9</b>	19	
Critical Gap	Modu.	le:											
Critical Gp::					XXXX	XXXXX	XXXXXX	XXXXX	200000	300000	XXXX	XXXXXX	
FollowUpTim::	NOCOCK	4.1	XXXXX	3.6								XXXXXX	
			<b>-</b>										
Capacity Mod	ule:												
Cnflict Vol:										XXXX			
Potent Cap.:	XXXXX	672	XXXXXX	737	XXXX	XXXXX	XXXXX	XXXXX	XXXXXXX	XXXXX	XXXX	XXXXXX	
Move Cap.:										XXXX			
							11						
Level Of Ser	vice t	Module	e:										
Stopped Del:								XXXX	XXXXX	XXXXX	XXXX	XXXXX	
LOS by Move:										*	-		
Movement:	LT ·	- LTR	- RT	LT ·	- LTR	- RT	LT ·	- LTR	- RT	LT ·	- LTR	- RT	
Shared Cap.:	XXXXX	XXXX	XXXXXX	XXXX	XXXX	XXXXXX	XXXX	XXXX	XXXXX	XXXX	XXXX	XXXXXX	
Shrd StpDel::	XXXXX				XXXX	XXXXX	XXXXX	XXXX	XXXXX	XXXXX	XXXX	XXXXX	
Shared LOS:	*	*	*	* -	*		*	*	*		*.	*	
ApproachDel:		10.4			10.0		ж	XXXXX		303	XXXXX		
ApproachLOS:		В			. A.			*			*		

# November 2003

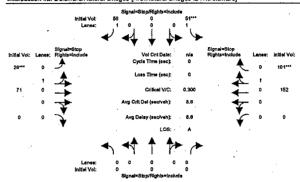


Approach:	No	rth Bo	ound	Sot	uth B	ound	E	ast Bo	und				
Movement:	, L	- T	- R	ъ	- T	- R	, L .	- T	- R	L T	- R		
Min. Green:	1	0	1	1			1			0 0			
MIA. GIEEM.													
Volume Modul				,			1		1	1			
Base Vol:	0	0	0	46	0	19	12	40	. 0	0 84	92		
Growth Ad:	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10 1.10	1.10		
Initial Bse:	0	0	0	51	0	21	13	44	0	0 92	101		
Added Vol:	0	0	0	0	0	0	0	0	0	0 0	0		
Campus Incr:	0	0	0	0	0	Đ	0	0	0	0 0	0		
Initial Fut:		0		51	0	21	13	44	0	0 92	101		
User Adj:					1.00	1.00		1.00					
PHF Adj:				1.00	1.00	1.00	1.00	1.00	1.00	1.00 1.00	1.00		
PHF Volume:		0	0	51	0	21	13		0	0 92			
Reduct Vol:		0	_	0	-	. 0		0	0	0 0	0		
Reduced Vol:										0 92	101		
PCE Adj:								1.00					
MLF Adj:					1.00			1.00		1.00 1.00			
Final Vol.:			0			21				0 92			
Saturation F													
Adjustment:								1.00		1.00 1.00			
Lanes:						1.00							
Final Sat.:									٥.				
Capacity Ana													
Vol/Sat: Crit Moves:	XXXX	XXXX	XXXXX	0.08	xxxx	0.03	0.07	0.07	XXXX	30000 0.22	0.22		
											8.1		
Delay/Veh: Delay Adi:			0.0	8.7	0.0	7.1				0.0 8.1			
AdiDel/Veh:			0.0	8.7		1.00 7.1		1.00	1.00	1.00 1.00			
LOS by Move:				8./ A	1 *	7.1 A	7.8 A	.7.8 A	0.0	0.0 8.1 * A	8L		
			^	A	8.2	A	A	7.8		* A			
ApproachDel: Delay Adj:					1.00			1.00		1.00			
ApprAdjDel:					8.2			7.8		8.1			
LOS by Appr:		*			8.2 A			7. B		. A			
ros by wbbr:		*			A			A		A			

Licerused to FEHR & PEERS, SAN JOSE

# Level Of Service Computation Report 2000 HCM 4-Way Stop (Future Votume Alternative) 2010 Plus Phase 1 AM

Intersection #2: Delaware/Natural Bridges [N/S:Natural Bridges E/W:Delaware]

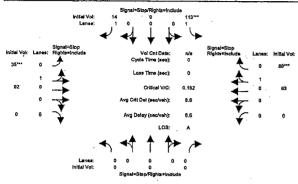


		North Bound South Bound East Bound West Bou					ound			
Movement:										
Min. Green:	Ò	0	0	0	0	0	0 0		0 0	
Volume Module	ė:									
Base Vol:	0	0	0	46	0.	19	12 40	0	0 84	92
Growth Adj:	1.10	1.10	1.10	1.10	1.10	1.10	1.10 1.10	1.10	1.10 1.10	1.10
Initial Bse:	0	0	0	51	0	21			0 92	101
Added Vol:	0	0	0	0	0	29	.13 27	0	0 60	0
Campus Incr:						0	0 0	0	0 0	0
Initial Fut:	0	0	0	51	0	50	26 71	0	0 152	101
User Adj:							1.00 1.00	1.00	1.00 1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00 1.00			1.00
PHF Volume:						50	26 71	0	0 152	. 101
Reduct Vol:	0	0	0	0	0	0	0 0	0	0 0	0
Reduced Vol:	0	0	0	51	0	50	26 71	0	0 152	
PCE Adj:										1.00
MLF Adj:							1.00 1.00	1.00	1.00 1.00	
Final Vol.:							26 71	0	0 152	101
Saturation F										
Adjustment:										
Lanes:										
Final Sat.:	0	. 0	0	601	0	750	204 554		0 508	
			· <b></b>							
Capacity Anal	lysis	Modu 7	le:							
Vol/Sat:	XXXX	XXXX	XXXX	0.08	XXXX	0.07	0.13 0.13	XXXX	xxxx 0.30	
Crit Moves:				****			****			****
Delay/Veh:	0.0	0.0	0.0	8.9	0.0	7.5	8.3 8.3	0.0	0.0 8.9	8.9
Delay 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
AdjDel/Veh:	0.0	0.0	0.0	8.9	0.0	7.5	8.3 8.3	0.0	0.0 8.9	8.9
LOS by Move:	•								* A	A
ApproachDel:	30	COCCC			8.2		8.3		8.9	
ApproachDel: Delay Adj:	1	KOKOKOK			1.00		1.00		1.00	
ApprAdjDel:	X	XXXXX			8.2		8.3		8.9	
LOS by Appr:					A		A		A	

# November 2003

Level Of Santac Computation Report

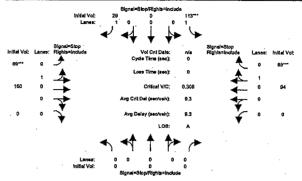
2000 HCM 4-Wey Stop (Future Volume Alternative)
2010 No Protect PM
Intersection #2: Delaware/Natural Bridges [N/S:Natural Bridges E/W:Delaware)



			ound				East Bound					
Movement:	, L	- T	- R	. L	- T	- R	. L	- T	R	L - 1	- R	
Min. Green:	1			<u>-</u>								
	1	U		, 0	0	0	0	0	0	, 0	0 0,	
Volume Modul	1						11					
Base Vol:	٥.	0	0	103	0	13	32	84	0		7 81	
Growth Adj:					1.10	1.10			1.10			
Initial Bse:				113	1.10	1.10	35	92	1.10		0 1.10 3 89	
Added Vol:		•	•	113		.0	33		0		0 0	
Campus Incr:		. 0		_	0	0	-	, 0	7	•	-	
Initial Fut:			0	113	0	_	•	-		0 6		
			1.00		1.00			1.00				
PHF Adi:					1.00	1.00		1.00				
PHF Volume:	1.00	1.00	1.00	113	1.00	1.00	35	92		0 6		
Reduct Vol:		_	-	113	-	14		92	. 0		0 0	
Reduced Vol:		-	0	113	•	14		92		-		
PCE Adj:					1.00			1.00	-	1.00 1.0		
MLF Adj:				1.00				1.00				
Final Vol.:			0	113			35			0 6		
	1		1	1			1.	92	٠,	, , ,	3 69	
Saturation F.	low Mo	ndulle	•	1			1					
Adjustment:				1 00	1 00	1.00	1 00	1 00	-1 00	1.00 1.0	0 1 00	
Lanes:			0.00		0.00			0.72		0.00 0.4		
Final Sat .:			0	621			209			0 34		
Capacity Ana	lvsis	Modu.	le: '	•		,	,			,		
Vol/Sat:			xxxx	0.18	xxxx	0.02	0.17	0.17	xxxx	xxxx 0.1	8 0.18	
Crit Moves:				****			****		10001	JUDUL 0.1	****	
Delay/Veh:	0.0	0.0	0.0	9.5	0.0	7.2	8.5	8.5	. 0.0	0.0 8.	1 8.1	
	1.00	1.00	1.00		1.00			1.00		1.00 1.0		
Ad Del/Veh:	0.0	0.0	0.0	9.5	0.0	7.2	8.5	8.5	0.0	0.0 8.		
LOS by Move:	*	*	*	A	1 *	A		A		* A		
ApproachDel:					9.2			8.5		8.		
Delay Adj:		COCCX			1.00			1.00		1.0		
ApprAdjDel:	x	CXXXX			9.2			8.5		8.		
LOS by Appr:		*			A			A		A		
								••		44		

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Level Of Bardez Corputation Report
2000 HCM 4-Way Stop (Puture Voture Alternative)
2010 Pkc Phase 1 PM
Intersection #2: Delaware/Natural Bridges [N/S:Natural Bridges EW:Delaware]



Approach:					uth B	ound	E	ast B	ound	We	st B	bruc
Movement:			- R			- R			- R			- R
Min. Green:			0	. 0		O		0				0
Volume Modul						1						
Base Vol:			. 0			13		84		0		
Growth Adj:							1.10					
Initial Bse:			0	113		14	35			Ó		89
Added Vol:	0	0	0	0	0	15	34			. 0		0
Campus Incr:	0	0	0	. 0		0		0		0	•	0
Initial Fut:	, 0	0	0			29		160	0	0	94	89
User Adj:							1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:					1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:		0		113	0	29	69	160	0	0	94	89
Reduct Vol:	0	0		0		0		0		0	0	0
Reduced Vol:	0	0	0	113	0	29	69	160	0	0	94	89
PCE Adj:												
MLF 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
Final Vol.:	0	0	0	113	0	29	69	160	0	0	94	89
										1		1
Saturation F				•			•		,	•		
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.00	0.00	0.00	1.00	0.00	1.00	0.30	0.70	0.00	0.00	0.51	0.49
Final Sat.:											404	
			1	I		1						
Capacity Ana.	lysis	Modu1	e: '	•		•	•		•			•
Vol/Sat:				0.19	XXXX	0.04	0.31	0.31	XXXX	XXXX	0.23	0.23
Crit Moves:				****			****					****
Delay/Veh:	0.0	0.0	0.0	9.9	.0.0	7.6	9.7	9.7	0.0	0.0	8.7	8.7
Delav Adi:	1.00	1.00	1.00	1.00	1.00	1.00						
AdjDel/Veh:												8.7
LOS by Move:	*	*	*	A	. *	A	Δ.	Δ.	*		A	
ApproachDel:	**	XXXX			9 4			9.7			8.7	••
ApproachDel: Delay Adj:		CXXXX			1.00			1.00			1.00	
ApprAdjDel:	20	CXXXX			9.4			9.7			8.7	
LOS by Appr:		*			A			A			Α.,	

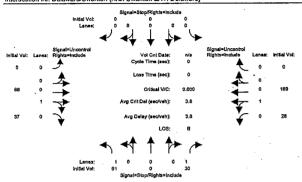
Wed Nov 26 10:11:48 2003

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## Marine Science Cente

# Level Of Service Computation Report 2000 HCM Unsignalized (Future Volume Alternative) 2010 No Project AM

intersection #3: Delaware/Swanton [N/S: Swanton E/W: Delaware]



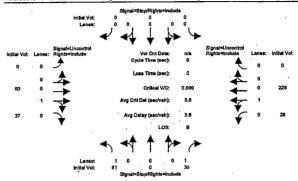
Approach: North Bound South Bound East	Bound West Bound
Movement: L - T - R L - T - R L - T	- R L - T - R
Volume Module:	
Base Vol: 55 0 27 0 0 0 6	0 34 25 154 0
Growth Adj: 1.10 1.10 1.10 1.10 1.10 1.10 1.10 1.1	0 1.10 1.10 1.10 1.10
Initial Bse: 61 0 30 0 0 0 6	6 37 28 169 0
Added Vol: 0 0 0 0 0 0 0	0 0 0 0
campus inci.	0 0 0 0
Initial Fut: 61 0 30 0 0 0 6	6 37 28 169 0
User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	
PHF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	
PHF Volume: 61 0 30 0 0 0 6	
Reduce 1011 B C C C C	
Final Vol.: 61 0 30 0 0 0 6	5 37 28 169 0
Critical Gap Module:	
Critical Gp: 6.4 xxxx 6.2 xxxxx xxxx xxxx xxxx xxxx	
FollowUpTim: 3.5 xxxx 3.3 xxxxx xxxx xxxx xxxxx xxxxx xxxx	
Capacity Module:	
Cnflict Vol: 309 xxxx 85 xxxx xxxx xxxx xxxx xxxx xxxx	x xxxxxx 103 xxxx xxxxxx
Potent Cap.: 683 xxxx 974 xxxx xxxx xxxx xxxx xxxx	
Move Cap.: 673 xxxx 974 xxxx xxxx xxxx xxxx xxxx xxxx	K SOCKOK 1470 SOCKOK SOCKOK
Level Of Service Module:	
Stopped Del: 10.9 xxxx 8.8 xxxxx xxxx xxxx xxxx xxxx xx	x xxxxx 7.5 xxxx xxxxx
LOS by Move: B * A * * * *	* A * *
Movement: LT - LTR - RT LT - LTR - RT LT - LT	R - RT LT - LTR - RT
Shared Cap.: xxxx xxxx xxxx xxxx xxxx xxxx xxxx x	X XXXXX XXXXX XXXXXX
Shrd StpDel:xxxxx xxxx xxxxx xxxxx xxxx xxxx xxxx	x xxxxxx 7.5 xxxx xxxxxx
Shared LOS: * * * * * * * *	* A * *
ApproachDel: 10.2 xxxxxx xxxxx	x xxxxxxx
ApproachLOS: B *	*

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# November 2003

Level Of Service Computation Report
2000 HCM Unsignalized (Fubre Volume Alternative)
2010 Plus Phase 1 AM

Intersection #3: Delaware/Swanton [N/S: Swanton E/W: Delaware]

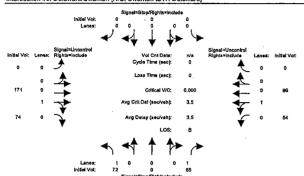


Approach:	No	rth Bo	ound	So	ath B	ound	E	ast Bo	ound	We	est Bo	ound
Movement:	L.	- Т	- R	L .	- T	- R	L.	- T	- R	ъ	- Т	- R
Volume Modul	ė:											
Base Vol:	55	0	27	0	0	0	0	60	34	25	154	0
Growth Adi:	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
Initial Bse:	61	0	30	0	. 0	0	0	66	37	28	169	0
Added Vol:	0	0	0	0	0	0	0	27	0	0	60	0
Campus Incr:	0	. 0	0	0	0		0	0	0	0	0	0
Initial Put:	61	0	30	0	0	. 0	0	93	37	28	229	0
User 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
PHF Ad1:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	61	0	30	0	0	0	0	93	37	28	229	. 0
Reduct Vol:	0	0	0	. 0	0	0	0	0	0	0	0	0
Final Vol.:	61	0	30	0	0	0	0	93	37	28	229	<b>,</b> 0
Critical Gap	Modu.	le:		•								••
Critical Gp:	6.4	XXXX	6.2	XXXXXX	XXXX	XXXXX	XXXXX	XXXX	XXXXX	4.1	XXXX	XXXXX
FollowUpTim:	3.5	XXXX							XXXXX			XXXXX
							:					
Capacity Mod	ule:											
Cnflict Vol:	396	XXXX	112	XXXX	20000	XXXXXXX	XXXX	XXXX	XXXXX	130	XXXX	XXXXX
Potent Cap.:	609	XXXXX	941	XXXX	XXXX	XXXXX	XXXXX	XXXX	XXXXXX	1437	XXXX	XXXXX
Move Cap.:	600	XXXX	941	XXXXX	XXXX	XXXXXX	XXXXX	XXXXX	XXXXX	1437	XXXX	200000
Level Of Ser												
Stopped Del:	11.7	XXXX	8.9	XXXXX	XXXX	XXXXXX	XXXXXXX	XXXX	XXXXXX	7.6	XXXX	XXXXX
LOS by Move:	В	*	A	*	*	*	*	*	*	A	*	*
Movement:	LT ·	- LTR	- RT	LT	- LTR	- RT	LT ·	- LTR	- RT	LT ·	- LTR	- RT
Shared Cap.:	XXXX	XXXX	XXXXX	XXXXX	XXXX	XXXXXX	XXXX	XXXX	XXXXX	XXXX	XXXX	XXXXXX
Shrd StpDel:	XXXXX	30000	XXXXX	XXXXX	XXXX	XXXXX	XXXXX	XXXX	XXXXXX	7.6	XXXX	2000000
Shared LOS:		*	*	*	*	*	.*		*	A	*	*
ApproachDel:		10.8		×	XXXXX		×	000000		30	CCCCC	
ApproachLOS:		В			*			*			*	

### ......

Level Of Service Computation Report 2000 HCM Uneignalized (Future Volume Alternative

Intersection #3: Delaware/Swanton [N/S: Swanton E/W: Delaware]

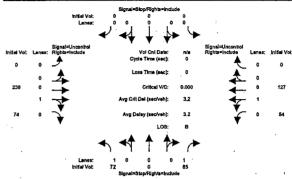


Approach:	No	rth B	ound	So	uth B	ound	E	ast B	ound	W	est B	ound
Movement:	L	- T	- R	L	- Т	- R	Ŀ	- т	- R	L ·	- T	- R
Volume Modul	e:											•
Base Vol:	65	0	77	0	0	0	0	155	67	49	87	0
Growth Adj:		1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
Initial Bse:	72	0	85	0	0	0	. 0	171	74	54	96	0
. Added Vol:	0	0	0	0	٥	0	0	Ö	0	0	0	0
Campus Incr:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:		0	85	0	0	0	0	171	74	54	96	0
User 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
PHF 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
PHF Volume:	72	0	85	0	0	0	0	171	74	54	96	0
Reduct Vol:	0	0	0	0	0	0	0	0	. 0	. 0	0	0
Final Vol.:	72	0	85	0	0	0	0	1,71	74	54	96	0
Critical Gap	Mođu	le:										
Critical Gp:	6.4	XXXX	6.2	XXXXX	XXXX	XXXXX	XXXXXX	XXXX	XXXXX	4.1	XXXX	XXXXXX
FollowUpTim:	3.5	XXXX	3.3	XXXXX	XXXX	xxxxx	XXXXX	XXXX	XXXXX	2.2	XXXX	XXXXX
		- <b></b> -		11			11					
Capacity Mod	ule:											•
Cnflict Vol:	411	XXXX	207	XXXXX	XXXX	XXXXXX	XXXX	xxxx	XXXXX	244	XXXX	XXXXX
Potent Cap.:	597	xxxx	833	XXXX	XXXX	xxxxx	XXXX	XXXX	XXXXX	1305	xxxx	xxxxx
Move Cap.:	578	XXXX	833	XXXX	XXXX	XXXXX	XXXX	xxxx	XXXXX	1305	xxxx	XXXXX
										1		[
Level Of Ser	vice	Module	e:							•		,
Stopped Del:	12.1	xxxx	9.8	xxxxx	XXXX	XXXXX	XXXXX	XXXXX	XXXXXX	7.9	XXXX	XXXXX
LOS by Move:	В	*	A	*	*		*	*	*	A	*	*
Movement:	LT ·	- LTR	- RT	LT ·	- LTR	- RT	LT ·	- LTR	- RT	LT ·	- LTR	- RT
Shared Cap.:	XXXX	XXXX	XXXXX	XXXX	XXXX	xxxxx	XXXXX	XXXX	XXXXX	XXXX	xxxx	2000000
Shrd StpDel:	xxxx	xxxx	xxxxx	XXXXX	XXXX	XXXXX	XXXXX	xxxx	XXXXX	7.9	xxxx	XXXXX
Shared LOS:	*	*	*	*	*	* /	*	*	*	A	*	*
ApproachDel:		10.9		x	doddx		x	COCC		x	00000	
ApproachLOS:		В			. *			*			*	
					- 1							

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Level Of Service Computation Report 2000 HCM Unalgratized (Future Volume Alternative) 2010 Plus Phase 1 PM

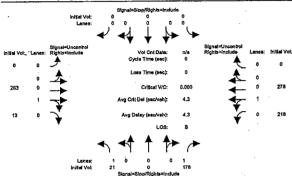
Intersection #3: Delaware/Swanton [N/S: Swanton E/W: Delaware]



			Signa	i=3top/Righ	ts=Include					•		
Approach:	No	rth B	ound	So	uth B	bauc	E	ast B	ound	W	est B	ound
Movement:									- R			
Volume Modul												
Base Vol:						0		155				
Growth Adj:								1.10		1.10		
Initial Bse:							0					
Added Vol:									0			
Campus Incr:												
Initial Fut:								238				0
User Adj:												
PHF Adj:		1.00			1.00			1.00	1.00	1.00	1.00	1.00
PHF Volume:		0		0		0		238				
Reduct Vol:						. 0	0	0	0			
Final Vol.:	72	0	85	0	. 0	0	0	238	74	54	127	0
Critical Gap	Modu:	le:										
Critical Gp:	6.4	XXXXX	6.2	XXXXX	XXXX	XXXXXX	XXXXX	XXXXX	XXXXX	4.1	XXXX	XXXXX
FollowUpTim:	3.5	XXXXX	3.3	XXXXX	XXXX	XXXXXX	xxxxx	XXXXX	XXXXX	2.2	XXXX	XXXXX
	·									1		
Capacity Mod	ule:								•	•		
Cnflict Vol:	510	XXXX	275	XXXX	XXXX	XXXXX	XXXXX	xxxx	XXXXX	312	XXXX	XXXXX
Potent Cap.:	523	XXXX	763	XXXX	XXXX	XXXXX	XXXX	XXXX	XXXXX	1231	XXXX	XXXXX
Move Cap.:	505	XXXX	763	XXXXX	XXXX	XXXXX	XXXXX	XXXX	XXXXX	1231	XXXX	XXXXX
							11					
Level Of Ser				• •			• •			•		
Stopped Del:	13.3	XXXX	10.3	XXXXX	XXXX	xxxxx	XXXXXX	xxxx	xxxxx	8.1	XXXX	XXXXXX
LOS by Move:											*	
Movement:											- LTR	- RT
Shared Cap.:											XXXX	XXXXXX
Shrd StpDel:											20000	XXXXX
Shared LOS:									*	A		*
ApproachDel:		11.7		×	кккк		*	COOCK		ж	CXXXX	
ApproachLOS:		ъ			*			*			*	

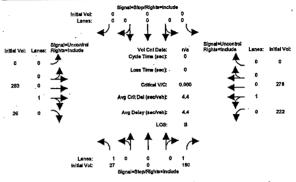
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intersection #4: Bay/Laguna [N/S:Laguna E/W: Bay]



			-									
Approach:	No	rth Bo	ound	Sou	ith Bo	ound	E	ast Bo	ound	We	est Bo	bauc
Movement:	L	- т	- R	L -	т	~ R	L ·	T	- R	L ·	· T	- R
	1											
Volume Modul	ė:											
Base Vol:	19	0	162	0	0	0	0	239	12	198	253	0
Growth Adj:		1.10	1.10	1.10		1.10	1.10		1.10		1.10	1.10
Initial Bse:	21	0	178	0	0	0	0	263	13	218	278	0
Added Vol:	0	0	0	0	0	0	0	0	. 0	0	0	0
Campus Incr:	0	0	0	0	0	0	0		0	0	0	0
Initial Fut:		0	178	0	0	0	0	263	13	218	278	. 0
User Adj:		1.00	1.00		1.00	1.00	1.00	1.00	1.00		1.00	1.00
PHF Adj:	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	21	0	178	0	0	0	0	263	1.3	218	278	0
Reduct Vol:	0	0	0	0	0	0	0	Q	0	0	0	0
Final Vol.:	21	0	178	0	0	0	0	263	13	218	278	0
Critical Gap	Modu	le:										
Critical Gp:	6.4	XXXX							XXXXX			XXXXX
FollowUpTim:	3.5	XXXX		XXXXX							XXXX	XXXXX
	1		<b>-</b>									
Capacity Mod	lule:											
Cnflict Vol:	983	XXXX				XXXXXX						XXXXX
Potent Cap		XXXXX				XXXXXX			XXXXX			XXXXXX
Move Cap.:		XXXX				XXXXXX		XXXXX	XXXXX	1298	XXXX	XXXXXX
											<b>-</b> -	
Level Of Ser								-				
Stopped Del:											XXXX	XXXXXX
LOS by Move:				*		*	*	*	*	A	*	*
Movement:				LT				- LTR			- LTR	
Shared Cap.:									xxxxx			XXXXX
Shrd StpDel:	XXXXX			XXXXXX	XXXX						XXXX	XXXXXX
Shared LOS:	*	*	*	*	*	*	*	*	*	A	*	*
ApproachDel:		12.1		×	sococe		×	XXXXX		×	XXXXX	
ApproachLOS:		В			*			*			*	

Intersection #4: Bay/Laguna [N/S:Laguna E/W: Bay]



			aigna	i - Siroh yagin	B=NGUGE								
Approach:	No	rth Bo	ound	Sou	ith Bo	ound	E	ast Bo	ound	We	est Bo	ound	
Movement:	L ·	- т	- R	L, ·	- т	- R	L ·	- Т	- R	L ·	- T	- R	
			<b>-</b>	11	<b></b> -					1			
Volume Module	e:												
Base Vol:	19	0	162	0	-	0			12		253	0	
Growth Adj:	1.10	1.10			1.10	1.10		1.10			1.10		
Initial Bse:	21	0	178	0	0	0	0	263	13	218	278	0	
Added Vol:	6	0	2	0	-	0	0	0	13	4	0	0	
Campus Incr:	0		0	0	_	0	0		0		0	0	
Initial Fut:	27	. 0		0	-	0	. 0			222		. 0	
User Adj:			1.00		1.00	1.00		1.00			1.00		
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00		1,.00			1.00		
PHF Volume:	27	0	180	٥	0	0	0		26	222	278	0	
Reduct Vol:	0	0	0	0	.0	0	0	0	0	0	0	0	
Final Vol.:	27	0	180	0	0	0	0	263	26	222	278	0	
Critical Gap	Modu.	le:											
Critical Cp:	6.4	XXXXX	6.2	XXXXX	XXXX	XXXXX	XXXXX	XXXXX	XXXXXX	4.1	XXXX	XXXXXX	
FollowUpTim:	3.5	XXXX							XXXXXX			XXXXXX	
								-,					
Capacity Mod	ule:												
Cnflict Vol:	998	XXXX	276	XXXX	XXXX	XXXXXX	XXXX	XXXX	XXXXX			XXXXX	
Potent Cap.:	273	XXXX	768	XXXXX	XXXX	XXXXXX	XXXX	XXXX	XXXXXX			XXXXX	
Move Cap.:		XXXX				XXXXX		XXXX	XXXXX			XXXXX	
Level Of Ser													
Stopped Del:	22.6	XXXX	11.1	XXXXXX								XXXXX	
LOS by Move:		*	В	*			*	*	. *		*	*	
Movement:			- RT					- LTR			- LTR		
Shared Cap.:	XXXX	XXXX	XXXXXX	20000	XXXXX	XXXXXX	XXXXX	XXXX	XXXXX			XXXXX	
Shrd StpDel:	XXXXXX			XXXXXX	XXXX	XXXXXX	XXXXXX	XXXX	XXXXXX			XXXXX	
Shared LOS:	*	•	*		*	*	*		*	A		*	
ApproachDel:		12.6		×	XXXXX			XXXXX		×	KXXXX		
ApproachLOS:		В			*			*			*		

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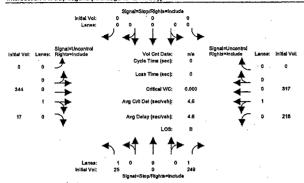
November 2003

Level of Service Computation Report

2000 HCM Unsignalized (Future Volume Alamative)

2010 No Project PM

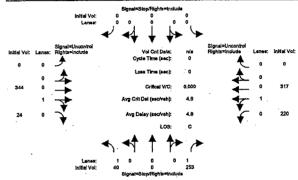
Intersection #4: Bay/Laguna [N/S:Laguna E/W: Bay]



Approach:	No	rth Bo	ound	Son	ath B	ound	E	ast Bo	bund	We	est Bo	ound
Movement:	L	- T	- R	L ·	- T	- R	L ·	- T	- R	ъ.	- т	- R
Volume Module	:											
Base Vol:	23	0	226	0	0	0	0	313	1,5	198	288	0
Growth Adj:	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1,10	1.10
Initial Bse:	25	0	249	0	0	0	0	344	17	218	317	0
Added Vol:	0	0	0	0	0	0	0	0	0	0	- 0	0
Campus Incr:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	25	0	249	0	0	0	0	344	17	218	317	0
User 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
PHF 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
PHF Volume:	25	0	249	0	0	0	0	344	17	218	317	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Final Vol.:	25	0	249	0	0	0	0	344	17	218	317	0
Critical Gap	Modu	le:										
Critical Gp:	6.4	XXXX	6.2	XXXXX	XXXX	XXXXXX	XXXXX	XXXX	XXXXXX	4.1	XXXX	XXXXXX
FollowUpTim:	3.5	XXXX	3.3	XXXXX	XXXX	XXXXX	XXXXX	XXXX	XXXXX	2.2	XXXX	XXXXXX
				11								
Capacity Modi	ıle:											
Cnflict Vol:	1105	XXXX	353	XXXX	XXXX	XXXXX	XXXXX	XXXX	XXXXX	361	XXXX	XXXXX
Potent Cap.:	235	xxxx	696	XXXX	XXXX	XXXXX	XXXX	XXXX	ххххх	1209	XXXXX	XXXXX
Move Cap.:	198	XXXX	696	XXXX	XXXX	XXXXX	XXXX	XXXX	XXXXXX	1209	XXXX	XXXXX
					-,							
Level Of Serv	vice :	Module	<b>:</b>									
Stopped Del:	25.8	XXXX	13.0	XXXXX	XXXXX	XXXXX	XXXXX	XXXX	XXXXX	8.6	XXXX	XXXXX
LOS by Move:	D	*	В	*	*	*	. *	*-	*	A	*	*
Movement:	LT	- LTR	- RT	LT ·	- LTR	- RT	LT	- LTR	- RT	LT ·	- LTR	- RT
Shared Cap.:	XXXX	XXXX	XXXXX	XXXX	XXXX	XXXXX	XXXX	XXXX	XXXXX	XXXXX	XXXX	XXXXXX
Shrd StpDel::	CCCCC	XXXX	XXXXX	XXXXX	XXXX	XXXXXXX	XXXXX	XXXX	XXXXX	8.6	XXXX	XXXXXX
Shared LOS:	*	*	*	*	*	*	*	*	. *	A	*	*
ApproachDel:		14.2		x	XXXXX		×	CCCCC		30	COCC	
ApproachLOS:		В			*		٠.	*			*	

Level Of Service Computation Report 2000 HCM Unsignations (Future Volume Alternative) 2010 Plus Phase 1 PM

Intersection #4: Bay/Laguna [N/S:Laguna E/W: Bay]

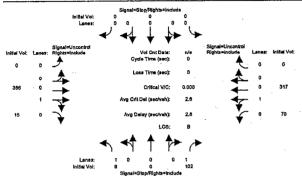


			Bigna	l=Stop/Righ	=Include							
Approach:	No	rth Bo	ound	Sou	ith Bo	ound	E	ast Bo	bauc	We	est Bo	ound
Movement:	ъ	- Т	- R	L.	- т	- R	L.	- T	- R	L ·	- T	~ R
Volume Module				' '			• •			•		•
Base Vol:	23	0	226	0	0	0	0	313	15	198	288	0
	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
Initial Bse:			249	0	0	0	0	344	17	218	317	. 0
Added Vol:		0	4	0	0	0	0	0	.7	2	0	0
Campus Incr:	0	. 0	Ō	0	0	0	0	0	0	0	0	0
Initial Fut:				0	. 0	0	0	344	24	220	317	0
		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adi:		1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:		0	253	0	0	0	0	344	24	220	317	0
Reduct Vol:			0	0	0	. 0	0	0	0	0	0	0
Final Vol.:				0	0	0	0	344	24	220	317	0
Critical Gap												
Critical Gp:			6.2	xxxxx	xxxx	xxxx	xxxxx	xxxx	XXXXX	4.1	XXXX	XXXXXX
FollowUpTim:									XXXXXX			XXXXX
	1											
Capacity Modu			'	' '						•		
Cnflict Vol:			356	xxxx	XXXX	XXXXX	xxxx	xxxx	xxxxx	368	xxxx	XXXXXX
Potent Cap.:												XXXXXX
Move Cap.:	196	300000	693	3000X	xxxx	XXXXX	XXXX	XXXX	2000000	1202	XXXX	XXXXXX
Level Of Serv							• •			•		•
Stopped Del:				xxxxx	xxxx	xxxxx	XXXXXX	xxxx	xxxxx	8.7	XXXX	XXXXXX
LOS by Move:							*				*	*
Movement:						- RT	LT ·	- LTR	- RT	LT	- LTR	- RT
Shared Cap.:											XXXX	XXXXXX
Shrd StpDel:												XXXXXX
Shared LOS:	*		*	*	*	*	*		*	A	*	*
ApproachDel:		15.2						cocc		ж.	xxxxx	
ApproachLOS:		C			*			*			*	
Арргоасинов:		_										

## Marine Science Centi

# Level Of Service Computation Report 000 HCM Unalgoalized (Future Volume Alternative

Intersection #5; SR 1/Shaffer [N/S: Shaffer E/w: SR 1]

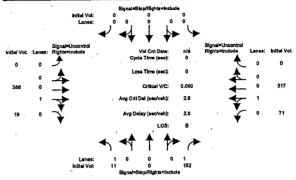


			- Capito	-Capringin								
Approach:	Non	cth Bo	und	Sou	ith Bo	ound	E	ast Bo	ound	. W	est Bo	ound
Movement:	L ·	- Т	- R	L -	- T	- R	L .	T	- R	L ·	- T	- R
Volume Module	≙:											
Base Vol:	8	0	93	0	0	. 0		351	14		288	0
Growth Adj:	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10		1.10	1.10
Initial Bse:	9	0	102	0	0	0	0	386	15	70	317	0
Added Vol:	-0	0	0	0	0	0	0	0	. 0	0	0	0
Campus Incr:	0	0	0	0	0	0		. 0		-	0	. 0
Initial Fut:	9	0	102	0	0	0	0	. 386	15	70	317	0
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1,00	1.00	
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00
PHF Volume:	9	0	102	0	0	0	0	386	15	70	317	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Final Vol.:	9	0	102	0	0	0	0	386	15	70	317	0
Critical Gap	Modu:	le:										
Critical Gp:	6.4	XXXX	6.2	XXXXX	XXXX	XXXXX	XXXXX	XXXXX	XXXXX	4.1	XXXX	XXXXXX
FollowUpTim:	3.5	XXXX	3.3	XXXXX	XXXX	XXXXXX	XXXXX	XXXX	XXXXXX	2.2	XXXX	XXXXXX
Capacity Mode	ile:											
Cnflict Vol:	851	XXXXX	394	XXXX	XXXX	XXXXXX	XXXX	XXXX	XXXXX	402	XXXX	XXXXXX
Potent Cap.:	333	XXXX	660	XXXX	XXXX	XXXXXX	XXXXX	XXXX	200000	1168	XXXXX	XXXXXX
Move Cap.:	317	жж	660	XXXXX	XXXX	200000	XXXXX	XXXX	XXXXXX	1168	XXXX	XXXXXX
					<del>-</del> -							
Level Of Serv	vice P	Module	<b>:</b> :									
Stopped Del:	16.7	XXXX	11.5	XXXXXX	XXXX	XXXXXX	XXXXXX	XXXXX	XXXXX	8.3	XXXX	XXXXX
LOS by Move:	С	*	В	*	*	*	*	*	*	A	*	*
Movement:	LT	- LTR	- RT	LT ·	- LTR	- RT	LT ·	- LTR	- RT	LT	- LTR	- RT
Shared Cap.:	XXXX	XXXX	xxxxx	XXXX	XXXX	XXXXX	XXXX	XXXX	XXXXX	XXXXX	XXXX	XXXXX
Shrd StpDel::	XXXXX	XXXX	XXXXX	XXXXX	xxxx	xxxxx	XXXXX	XXXX	XXXXX	8.3	XXXX	XXXXXX
Shared LOS:	*	*	*	*	*	*	*	*	*	A	*	*
ApproachDel:		11.9		x	ÓCOCO		x	XXXX		30	XXXXX	
ApproachLOS:		В			*		-	*			*	

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Level Of Service Computation Report 2000 HCM Unsignatized (Future Volume Alternative) 2010 Plus Phase 1 AM

Intersection #5: SR 1/Shaffer [N/S: Shaffer E/w: SR 1]

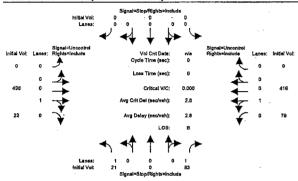


			algna	(water) kroßtu	B∺nGuo#							
Approach:	No	rth Bo	ound	Sot	uth B	ound	E	ast Bo	banc	We	est Bo	ound
Movement:	ъ.	- т	- R	L.	- т	- R	L ·	- т	- R	L ·	- T	- R
	ł			11								
Volume Module				• •						•		
Base Vol:	8	0	93	0	. 0	0	0				288	0
Growth Adj:	1.10	1.10	1.10	1.10	1.10	1.10		1.10	1.10		1.10	1.10
Initial Bse:	9	0	102	0	0	0	.0	386	15	70	317	0
Added Vol:	2		0	0		0	0	_	4	1	-	0
Campus Incr:	0	.0	0	0	0	-	0		0	0		0
Initial Fut:	11	. 0		0	-	_		.386				
User Adj:						1.00		1.00			1.00	
PHF Adj:						1.00		1.00			1.00	1.00
PHF Volume:		0	102	0		0	0		19	71		0
Reduct Vol:	О	0	0	0	-	-	-	٥	0	-	0	0
Final Vol.:			102	0	0	0	0	386	19	71	317	0
Critical Gap												
Critical Gp:	6.4	XXXX							XXXXX			XXXXX
FollowUpTim:	3.5	XXXX							XXXXX			xxxxx
Capacity Mod	ule:											
Cnflict Vol:	855	XXXXX							XXXXX			
Potent Cap.:	33,1	XXXX	658			300000			XXXXX			XXXXXX
Move Cap.:		XXXX							XXXXX			XXXXX
Level Of Ser	vice 1	Modul	e:									
Stopped Del:		XXXX			XXXX	XXXXXX	XXXXX	XXXX	XXXXX	8.3	XXXX	XXXXX
LOS by Move:		*	В	*	,					A		*
Movement:			- RT						- RT			- RT
Shared Cap.:	XXXX	XXXX	XXXXX	XXXX	XXXX	2000000	XXXX	XXXX	XXXXX	XXXX		XXXXX
Shrd StpDel:	XXXXX	XXXXX	XXXXX		XXXX	XXXXX	XXXXXX	XXXX	XXXXX			XXXXX
Shared LOS:	*	*	*	*	*	*	*	*	*		. *	*
ApproachDel:		12.0		×	XXXXX		×	KXXXXX		x	XXXXX	
ApproachLOS:		В			*			*			*	

Pege 3-1

Level Of Service Computation Report 2000 HCM Unsignalized (Future Volume Alternative) 2010 No Project PM

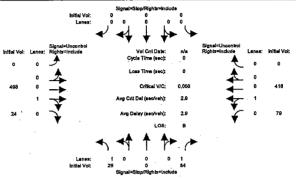
Intersection #5: SR 1/Shaffer [N/S: Shaffer E/w: SR 1]



Approach:	No	rth Bo	ound	Son	ath Bo	ound	E	ast B	ound	W	est B	ound
Movement:	L ·	- т	- R	I.	- т	- R	L ·	- T	- R	L	- т	- R
Volume Module				• •					'	'		,
Base Vol:	19	0	75	0	0	0	0	453	20	72	378	0
Growth Adj:	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
Initial Bse:	21	0	83	0	0	0	0	498	22	79	416	0
Added Vol:	0	. 0	0	0	0	0	. 0	0	0	0	0	0
Campus Incr:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	21	0	83	0	0	0	0	498	22	79	416	0
User 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
PHF 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
PHF Volume:	21	0	83	0	0	0	0	498	22	79	416	0
Reduct Vol:	0	0	0	0	0	0	0	. 0	0	0	0	0
Final Vol.:	21	0	83	0	0	0	0	498	22	79	416	0
Critical Gap	Modu	le:										
Critical Gp:	6.4	XXXX	6.2	XXXXX	xxxx	XXXXXX	XXXXX	XXXX	XXXXX	4.1	xxxx	XXXXX
FollowUpTim:	3.5	XXXX	3.3	XXXXXX	XXXX	XXXXXXX	XXXXX	XXXX	XXXXX	2.2	xxxx	XXXXX
							11					
Capacity Modu	ıle:									•		
Cuflict Vol:	1083	XXXXX	509	XXXX	XXXX	XXXXXX	XXXXX	XXXX	XXXXX	520	xxxx	XXXXX
Potent Cap.:	242	xxxx	568	XXXX	XXXX	XXXXX	XXXX	XXXX	XXXXX	1056	XXXX	XXXXX
Move Cap.:	228	XXXX	568	XXXX	xxxx	XXXXXX	XXXX	XXXX	XXXXXX	1056	XXXX	XXXXX
				11						1		
Level Of Serv	vice t	10dul	<b>:</b> :				• •			•		
Stopped Del:				XXXXX	XXXX	XXXXX	XXXXX	XXXX	XXXXX	8.7	XXXX	XXXXX
LOS by Move:	C	*	В	*	*	*	*	*	*	A	*	*
Movement:	LT ·	- LTR	- RT	LT ·	- LTR	- RT	LT ·	- LTR	- RT	LT ·	- LTR	- RT
Shared Cap.:	XXXX	XXXXX	XXXXX	XXXX	XXXX	XXXXXX	XXXXX	XXXX	XXXXXX	XXXX	xxxx	XXXXX
Shrd StpDel:	XXXXX	XXXX	XXXXX	XXXXX	XXXX	XXXXXX	XXXXXX	XXXX	XXXXX	8.7	XXXX	XXXXXX
Shared LOS:	*	*	*	*	*	*	*	*	*	A	*	*
ApproachDel:		14.4		30	CCCCC		x	20000		30	XXXXX	
ApproachLOS:		В			. *			*			*	

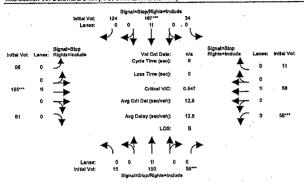
Level Of Service Computation Report 2000 HCM Unsignatized (Future Volume Alternative) 2010 Plus Phase 1 PM

Intersection #5: SR 1/Shaffer [N/S: Shaffer E/w: SR 1]



	IETO	90 V DH;	Signa	i=Step/Righ	ta=Include							
Approach:	No	rth Bo	ound	Son	ath Bo	ound	E	ast Bo	ound	We	est Bo	ound
Movement:	L.	- Т	- R	L ·	<b>- T</b>	- R	L	- T	- R	r.	- Т	- R
Volume Module							1					_
Base Vol:			75			0		453				-
Growth Adj:											1.10	
Initial Bse:						0	-	498			416	0
Added Vol:							-	0	_		0	0
Campus Incr:					0	-	-	0	-	0	_	0
Initial Fut:						0		498				O
User Adj:							1.00			1.00		
PHF Adj:							1.00			1.00	1.00	1.00
PHF Volume:	26	0			0		0	498	24	79	416	0
Reduct Vol:	0	Q	0	0	0	0	0	0			0	
Final Vol.:	26	0	84	0	0	0	0	498	24	79	416	0
Critical Gap	Modu:	le:										
Critical Gp:	6.4	XXXXX	6.2	XXXXX	XXXXX	XXXXXX	XXXXX	XXXXX	XXXXX	4.1	30000	XXXXX
FollowUpTim:	3.5	XXXX	3.3	XXXXX	XXXX	XXXXXX	XXXXXX	XXXX	XXXXX	2.2	XXXX	XXXXX
							11					
Capacity Mode	ule:											
Cnflict Vol:	1085	XXXX	510	XXXX	XXXX	XXXXXX	XXXX	XXXX	300000	522	XXXX	XXXXX
Potent Cap.:	242	XXXX	567	XXXX	XXXX	XXXXXX	XXXX	XXXX	XXXXXX	1054	XXXX	XXXXXX
Move Cap.:	228	XXXX	567	XXXX	20000	XXXXXX	200000	XXXXX	XXXXXX	1054	XXXXX	XXXXX
	·						[]					1
Level Of Ser	vice 1	Module	<b>:</b>									
Stopped Del:	22.8	XXXX	12.4	XXXXXX	XXXXX				XXXXXX	8.7	XXXX	XXXXX
LOS by Move:	. G	*	В	*	*	*	*	*		A	*	*
Movement:	LT	- LTR	- RT	LT	- LTR	- RT	LT	- LTR	- RT	LT ·	- LTR	- RT
Shared Cap.:	XXXX	XXXX	XXXXX	XXXXX	XXXX	xxxxx	XXXX	XXXXX	XXXXX	XXXXX	хххх	XXXXX
Shrd StoDel:	XXXX	xxxx	XXXXXX	2000000	200000	XXXXXX	200000	XXXX	200000	8.7	XXXX	XXXXXX
Shared LOS:	*	*	• 1		*	*	*	*	*	A	*	*
ApproachDel:		14.9		×	XXXXXX		×	XXXXX		30	CXXXX	
ApproachLOS:		В			*			*			*	

Intersection #6: Delaware/Swift [N/S: Swift E/W: Delaware]



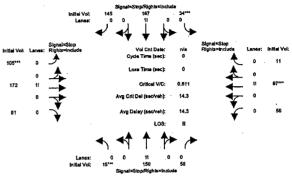
Approach:	No	cth Bo	ound	Sou	ith Bo	ound	E	ast Bo	und		est Bo	
Movement:	L -	- T	- R	ъ	- Т	- R			- R			
Min. Green:		0				0			0			0 .
Volume Module												
Base Vol:	14		53	31		113			. 83		53	10
Growth Adj:		1.10	1.10		1.10	1.10		1.10	1.10	1.10		1.10
Initial Bse:		150	58	34	167	124	96	155	91	56	58	11
Added Vol:	0	0	0	0	_	0	0	0	. 0	0	0	0
Campus Incr:		-	0	0		0	-	. 0	0	0	0	0
Initial Fut:				34		124	96	155	91	56	58	11
User Adj:		1.00	1.00		1.00	1.00		1.00	1.00		1.00	1.00
PHF Adj:			1.00		1.00	1.00		1.00	1.00		1.00	1.00
PHF Volume:	15	150	58	34	167	124	96	155	91	56	58	11
Reduct Vol:	. 0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:			58	34		124	96	155	91	56	58	11
PCE Adj:				1.00		1.00		1.00	1.00		1.00	1.00
MLF Adj:			1.00		1.00	1.00		1.00	1.00		1.00	1.00
Final Vol.:		150	58	34		124	96		91	. 56	58	11.
Saturation F												
Adjustment:			1.00						1.00		1.00	
Lanes:		0.67		0.10		0.38			0.27		0.46	
Final Sat.:	41			67		243	175		167	240		47
							~					
Capacity Ana												
Vol/Sat:	0.37	0.37	0.37	0.51		0.51	0.55	0.55	0.55		0.23	0.23
Crit Moves:			***		****			****		****		
			11.4		13.2	13.2		14.1	14.1		10.5	10.5
		1.00	1.00		1.00	1.00			1.00		1.00	1.00
AdjDel/Veh:			11.4		13.2	13.2		14.1	14.1		10.5	10.5
LOS by Move:				В	В	В	В		В	В	В	В
ApproachDel:		11.4			13.2			14.1			10.5	
Delay Adj:		1.00			1.00			1.00			1.00	
ApprAdjDel:					13.2			14.1			10.5	
LOS by Appr:		В			В			В			В	

Wed Nov 26 10:11:48 2003

November 2003

Level Of Sarvice Computation Report
2000 HCM 4-Way Stop (Future Volume Atternative)
2010 Plus Phase 1 AM

Intersection #8: Delaware/Swift [N/S: Swift E/W: Delaware]



Approach:	No	rth Bo	und	Son	uth Bo	und			und		Bound
Movement:	L ·	- т	~ R			- R			- R.		r - R
	ļ						l				
Min. Green:	. 0		0	0		0	0		0	. 0	0 0
							[				
Volume Module	ė:			•							
Base Vol:	14	136	53	31		113	87	141	83		53 10
Growth Adj:	1.10	1.10	1.10		1.10	1.10		1.10		1.10 1.	
Initial Bse:	15	150	58	34	167	124	96	155	91		58 11
Added Vol:	0	0	0	. 0		21	9	17	0		39 0
Campus Incr:	0	0	0	0		0	0	0	0	0	0 0
Initial Fut:		150	58	34	167	145					97 11
User Adj:		1.00			1.00	1.00		1.00		1.00 1.0	
PHF Adj:	1.00	1.00			1.00	1.00		1.00		1.00 1.0	
PHF Volume:	15	150	58	34		145	105	172	91		97 11
Reduct Vol:	0	0	0	0		0	0	0	0	0	0 0
Reduced Vol:			58			145					97 11
PCE Adj:	1.00	1.00		1.00		1.00		1.00			
MLF Adj:		1.00	1.00		1.00	1.00		1.00			
Final Vol.:	15	150	58		167	145		172	91		97 11
	1										
Saturation F	low M	odule:									
Adjustment:				1.00	1.00	1.00	1.00	1.00	1.00		
Lanes:		0.67				0.42					
Final Sat.:		375	146			255		281	149		08 35
Capacity Ana											
Vol/Sat:	0.40	0.40	0.40		0.57	0.57		0.61	0.61		
Crit Moves:	****			****			****			**	
Delay/Veh:	12.2	12.2	12.2			14.8		16.2			
Delay Adj:	1.00	1.00	1.00		1.00	1.00		1.00			
AdjDel/Veh:		12.2	12.2	14.8	14.8	14.8		16.2		11.6 11	
LOS by Move:	В	В	Э	В	В		C			-	в в
ApproachDel:		12.2			14.8			16.2		11	
Delay Adj:		1.00			1.00			1.00		1.	
ApprAdjDel:		12.2			14.8			16.2		11	
LOS by Appr:		В			В			C		:	В

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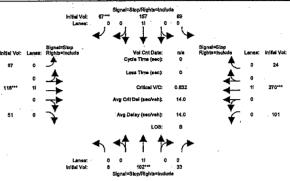
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Level Of Service Computation Report 2000 HCM 4-Way Stop (Future Volume Alternative) 2010 Plus Phase 1 PM

Intersection #6: Delaware/Swift [N/S: Swift E/W: Delaware]

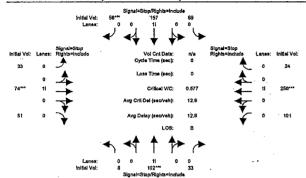


			- J. J. J. J. J. J. J. J. J. J. J. J. J.									
Approach:	No	rth Bo	ound	Sou	th Bo	ound	Ea	st Bo	und	We	est Bo	ound
Movement:	L	- T	- R	L.		- R			- R		- T	
Min. Green:												
Volume Modul												
Base Vol:		93			143	51	30	67	46			22
Growth Adj:				1.10		1.10	1.10		1.10		1.10	1.10
Initial Bse:		102	33	69		56	33	74	51	101		24
Added Vol:		0		0		11	24		0	0	20	0
Campus Incr:						0		- 0		0		0
Initial Fut:				69			57					24
User Adj:					1.00			1.00			1.00	
PHF Adj:		1.00		1.00		1.00		1.00	1.00		1.00	1.00
PHF Volume:	8		33	69	157		57	118	51	101	270	24
Reduct Vol:	0	0	0	0	0	. 0	0	0	0	Ō	0	0
Reduced Vol:											270	24
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1,00	1.00			1.00	1.00	1.00
MLF 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
Final Vol.:	8	102	33`	69	157	67	57	118	51		270	24
									1			
Saturation F	iow M	odule:										
Adjustment:											1.00	
Lanes:	0.05	0.72	0.23	0.24	0.53	0.23	0.25	0.53	0.22	0.26	0.68	0.06
Final Sat.:	29	380	122	138	314	134	147	304	131	160	427	38
							1					{
Capacity Ana	iysis	Modu!	le:									
Vol/Sat:	0.27	0.27	0.27	0.50	0.50	0.50	0.39	0.39	0.39	0.63	0.63	0.63
Crit Moves:		****				***		****			****	
Delay/Veh:	10.8	10.8	10.8	13.7	13.7	13.7	11.8	11.8	11.8	16.7	16.7	16.7
Delay 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
Ad Del/Veh:	10.8	10.8	10.8	13.7	13.7	13.7	11.8	11.8	11.8	16.7	16.7	16.7
LOS by Move:		В		В	В	В	В	В	В	С	C	C
ApproachDel:		10.8			13.7 1.00			11.8			16.7	
Delay Adj:		1.00			1.00			1.00			1.00	
ApprAdjDel:		10.8			13.7			11.8			16.7	
LOS by Appr:		В			В			В			C	

November 2003

Level Of Service Computation Report 2000 HCM 4-Way Stop (Future Volume Atternative) 2010 No Project PM

Intersection #6: Delaware/Swift [N/S: Swift E/W: Delaware]

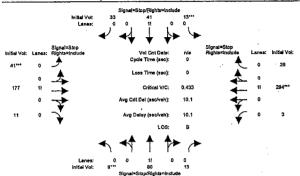


Approach:	No:	rth Bo	ound	Sot	ith Bo	ound	Ea	st Bo	ound	We	est Bo	und	
Movement:	L,	- T	- R	L.	- T	- R	L -	T	- R	L.	- T	- R	
	1												
	. 0				0		. 0				0	0	
Volume Modul	ė:												
Base Vol:	7	93	30	63	143	51	30	67	46	92	227	22	
Growth Adj:	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	
Initial Bse:	8	102	33	69	157	56	33	74	51	101	250	24	
Added Vol:	0	0	0	0	0	0	0	0	. 0	0	0	0	
Campus Incr:	0	0	0	0	0	0	0	0	0	0	0	0	
Initial Fut:	8	102	33	69	157	56	33	74	. 51	101	250	24	
User 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	
PHF 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	
PHF Volume:	8	102	33	69	157	56	33	74	51	101	250	24	
Reduct Vol:	. 0	0	0	0	0	0	0	0	. 0	0	0	0	
Reduced Vol:	8	102	33	69	157	56	33	74	51	101	250	24	
PCE 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	
MLF 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	
Final Vol.:	8	102	33	69	157	56	33	74	51	101	250	24	
		<b></b> -											
Saturation F	iow Mo	dule:	•	•					,	•		,	
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Lanes:	0.05	0.72	0.23	0.24	0.56	0.20	0.21	0.47	0.32	0.27	0.67	0.06	
Final Sat.:	31	412	133	152	344	123	126	281	193	175	433	42	
				1		1	}					1	
Capacity Ana	lysis	Modu?	le:				•			•			
Vol/Sat:	0.25	0.25	0.25	0.46	0.46		0.26	0.26	0.26	0.58	0.58	0.58	
Crit Moves:		****				****		****			****		
Delay/Veh:	10.2	10.2	10.2	12.5	12.5	12.5	10.2	10.2	10.2	14.7	14.7	14.7	
Delay 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	
AdjDel/Veh:	10.2	10.2	10.2	12.5	12.5	12.5	10.2	10.2	10.2	14.7	14.7	14.7	
LOS by Move:	В	В	В	В	B	В	В	В	В	В	В	В	
ApproachDel:		10.2			12.5			10.2			14.7		
Delay Adj:		1.00			1.00			1.00	•		1.00		
ApprAdjDel:		10.2			12.5			10.2			14.7		
LOS by Appr:		₿			В			В			В		

## Marine Science Cente

## Level Of Service Computation Report 000 HCM 4-Way Stop (Future Votume Alternative

Intersection #7: Delaware/Almar [N/S: Almar E/W: Delaware]

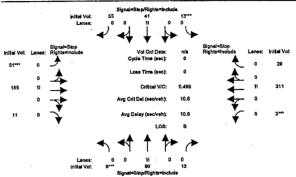


Approach:	No:	rth Bo	ound	Sou	ith Bo	ound	Ea	ast Bo	und	West Bo	ound
Movement:						~ R					
	1						1				
Min. Green:	0	0	0	0	0	0	0	0	0	0 0	0
Volume Modul			•	•			-			-	
Base Vol:	В	82	12	12	37	30	37	161	10	3 267	26
Growth Adj:	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10 1.10	
Initial Bse:	9	90	13	13	41	33	41	177	11	3 294	29
Added Vol:	0	0	0	0	0	Ö	0	0	0	0 0	0
Campus Incr:	0.	0	0	0	0	0	0	0	0	0 0	0
Initial Fut:	9	90	13	13	41	33	41	177	11	3 294	
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00 1.00	
PHF Volume:		. 90	13	13	41	33	41		11	3 294	29
Reduct Vol:	0	0		0	0	0	0		0	0 0	0
Reduced Vol:			13	13	41	33	41		11		
PCE Adj:			1.00	1.00	1.00	1.00		1.00			
MLF Adj:	1.00	1.00	1.00		1.00	1.00		1.00			
Final Vol.:				13			41			3 294	
Saturation F											
Adjustment:											
Lanes:								0.77			
Final Sat.:						241		557		8 678	
Capacity Ana											
Vol/Sat:			0.18		0.14	0.14		0.32	0.32		0.43
Crit Moves:				***			****		٠.	****	
Delay/Veh:			9.2	8.9		8.9			9.9		
Delay Adj:			1.00		1.00	1.00		1.00	1.00	1.00 1.00	
AdjDel/Veh:			9.2	8.9		8.9	9.9		9.9	10.9 10.9	
LOS by Move:			A	A.	A	A	A		A		В
ApproachDel:					8.9			9.9		10.9	
Delay Adj:					1.00			1.00		1.00	
ApprAdjDel:					8.9			9.9		10.9	
LOS by Appr:		A			A			A		В	

### _____

## Lavel Of Service Computation Report 2000 HCM 4-Way Stop (Future Votume Alternative) 2010 Plus Phase 1 AM

Intersection #7: Delaware/Almar [N/S: Almar E/W: Delaware]



Approach:	No	rth Bo	ound			ound			ound			bauc
Movement:			- R			- R			- R			- R
Min. Green:	0	0		. 0					0 :		0	
Volume Module												
Base Vol:	8		12	12	37	30				3		26
Growth Adj:					1.10	1.10		1.10				1.10
Initial Bse:		90	13	13	41	33	41			3	294	29
Added Vol:		0		0		22	10	В	0	0	17	0
Campus Incr:		0	-	0	_	0	0	0	-	0	0	0
Initial Fut:			13	13		55				3	311	
User Adj:					1.00	1.00		1.00				1.00
PHF Adj:	1.00	1.00	1.00		1.00	1.00		1.00		1.00		1.00
PHF Volume:		90	13	13		55	51	185	11	3	311	29
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:		90				55	51			3	311	29
PCE Adj:	1.00	1.00		1.00		1.00		1.00				
MLF Adj:	1.00	1.00	1.00	1.00		1.00		1.00		1.00		1.00
Final Vol.:			13	13				185			311	29
				ļ								
Saturation Fi												
Adjustment:								1.00		1.00		
Lanes:	0.08	0.80	0.12	0.12	0.37			0.75		0.01		
Final Sat.:	4 B	488	71	76		317		528		. 7		
		<b></b>										
Capacity Anal	Lysis	Modu.	le:									
Vol/Sat:	0.18	0.18	0.18		0.17	0.17		0.35	0.35		0.47	0.47
Crit Moves:	****			****			****			****		
Delay/Veh:	9.4	9.4		9.1				10.4				
Delay Adj:			1.00	1.00		1.00		1.00				1.00
AdjDel/Veh:	9.4	9.4	9.4	9.1		9.1		10.4				11.6
LOS by Move:			A	A	A	A	В	В	В	В	_	В
ApproachDel:		9.4			9.1			10.4			11.6	
Delay Adj:		1.00			1.00			1.00			1.00	
ApprAdjDel:		9.4			9.1			10.4			11.6	
LOS by Appr:		A			A			В			В	

0--- 2 27

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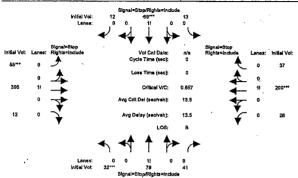
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### Harina Science Contar

### November 2003

### Level Of Service Computation Report 000 HCM 4-Way Stop (Future Volume Alternative

Intersection #7: Delaware/Almar [N/S: Almar E/W: Delaware)



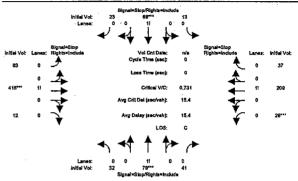
Approach:		rth Bo		Son	uth Bo	und		ast Bo		We	est Bo	ound
Movement:	L	- T	- R	L ·	- T	- R	L	- T	- R	L .	- T	- R
				1						1		
Min. Green:				0	0	0	0		. 0	0	0	0
										I		
Volume Module	ė:						•					•
Base Vol:	29	72	37	12	63	11	53	359	11	24	182	34
Growth Adj:	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
Initial Bse:	32	79	41	13	69	12	58	395	12	26	200	37
Added Vol:	0	0	0	0	, 0	. 0	0	0	0	0	0	0
Campus Incr:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	32	79	41	13	69	12	58	395	12	26	200	37
User 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
PHF 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
PHF Volume:	32	79	41	13	69	12	58	395	12	26	200	37
Reduct Vol:	0	0	0	0	. 0	0	Ó	0	0	Ö	0	0
Reduced Vol:	32	79	41	13	69	12	58	395	12	26	200	37
PCE 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
MLF 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
Final Vol.:			41	13	69	12	58				200	37
	J						1					
Saturation F	Low Me	odule:	•			•	•			•		
Adjustment:			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.21	0.52	0.27	0.14	0.73	0.13	0.12	0.85	0.03	0.10	0.76	0.14
Final Sat.:	120	297	153	75	395	69	89	601	18	67	506	94
				1								
Capacity Ana	lysis	Modu l	le:					•	•	•		
Vol/Sat:	0.27	0.27	0.27	0.18	0.18	0.18	0.66	0.66	0.66	0.40	0.40	0.40
Crit Moves:	****				****		****				****	
Delay/Veh:	10.5	10.5	10.5	9.9	9.9	9.9	16.4	16.4	16.4	11.2	11.2	11.2
Delay Adj:			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:			10.5	9.9	9.9	9.9	16.4	16.4	16.4	11.2	11.2	11.2
LOS by Move:		В	В	A	J A	A	C	C	C	В	В	В
ApproachDel:		10.5			9.9			16.4			11.2	
Delay Adj:		1.00			1.00			1.00			1.00	
ApprAdjDel:		10.5			9.9			16.4			11.2	
LOS by Appr:		В			A			C			В	

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# November 2003

# 2000 HCM 4-Way Stop (Future Volume Allernati

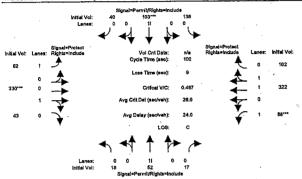
Intersection #7: Delaware/Almar [N/S: Almar E/W: Delaware]



Approach:		rth Bo		South B			st Bo			est Bo	
Movement:	, L	- T	- R		- R	. ь -	T	- R	L.	- T	- R
									1		
Min. Green:	. 0	0	٥.	. 0 0		. 0	0	0	. 0	. 0	0
						]					
Volume Modul	-										
Base Vol:	29	72	37	12 63		53	359	11	24	182	. 34
Growth Adj:		1.10	1.10	1.10 1.10		1.10 1		1.10	1.10		1.10
Initial Bse:		79	41	13 69		58	395	12	26	200	37
Added Vol:	0		0	0, 0		25	20	0	0	9	0
Campus Incr:	0	0	. 0	0 0	0	0	0	0	0	0	0
Initial Fut:	32	79	41	13 69	23	83	415	12	26	209	37
User Adj:	1.00	1.00	1.00	1.00 1.00	1.00	1.00 1	L.00	1.00	1.00	1.00	1,00
PHF Adj:		1.00	1.00	1.00 1.00	1.00	1.00 1	L.00	1.00	1.00	1.00	1.00
PHF Volume:	. 32	79	41	13 69	23	83	415	12	- 26	209	37
Reduct Vol:	0	0	0	0 0	. 0	0,	0	0	0	Ò	0
Reduced Vol:	32	79	41	13 69	23	83	415	12	26	209	37
PCE Adj:	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
MLF Adj:	1.00	1.00	1.00	1.00 1.00	1.00	1.00 1	L.00	1.00	1.00	1.00	1.00
Final Vol.:		79	41	13 . 69		83	415	12	26	209	37
Saturation F	low M	odule:									
Adjustment:	1.00	1.00	1.00	1:00 1.00	1.00	1.00 1	L.00	1.00	1.00	1.00	1.00
Lanes:	0.21	0.52	0.27	0.12 0.66	0.22	0.16 0	0.82	0.02	0.10	0.76	0.14
Final Sat.:		286	147	66 345		114	568	17	63	497	89
Capacity Ana	lysis	Modul	Le:								
Vol/Sat:	0.28		0.28	0.20 0.20		0.73 (		0.73	0.42	0.42	0.42
Crit Moves:		****		***			***		****		
Delay/Veh:	10.8	10.8	10.8	10.3 10.3	10.3	19.7 1	L9.7	19.7	11.7	11.7	11.7
Delay Adj:	1.00	1.00	1.00	1.00 1.00	1.00	1.00 1		1.00	1.00	1.00	1.00
AdjDel/Veh:	10.8	10.8	10.8	10.3 10.3	10.3	19.7 1	19.7	19.7	11.7	11.7	11.7
LOS by Move:	В	В	В	в в	В	С	C	С	В	В	В
ApproachDel:		10.8		10.3			19.7			11.7	
Delay Adj:		1.00		1.00		1	1.00			1.00	
ApprAdjDel:		10.8		10.3		1	19.7			11.7	
LOS by Appr:		В		В			C			В	

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Intersection #8: SR 1/Western [N/S: Western E/w: SR 1]

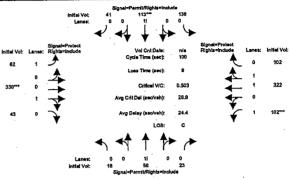


Approach:	No	rth Bo	und	Sou	ith Bo	und			und .		st Bo	
Movement:	L ·	- T	- R	Ŀ.	- т	- R	L .	T	- R	L -	T	- R
	1		1			1	1					
Min. Green:	٠ ٥	0	0	0	0	0	0	0	0	0	0	0
	1			1								
Volume Modul			,	•			,		.,	•		
Base Vol:	16	47	15	125	94	36	56	300	39		293	93
Growth Adj:	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
Initial Bse:			17	138	103	40	62	330	43	88	322	102
Added Vol:	0	0	0	0	0	0	٥	. 0	. 0	0	0	0
Campus Incr:	0	0	. 0	0	0	0	0	0	0	0	0	0
Initial Fut:	18	52	17	138	103	40	62	330	43	88		102
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00
PHF 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
PHF Volume:	18	52	17	138	103	` 40	62	330	43	88	322	102
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	18	52	17	138	103	40	62	330	43	88		102
PCE 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
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00
Final Vol.:	18	52	17	138		40		330	43		322	102
	1								1			
Saturation F	low M	odule:		•								
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900		1900	
Adjustment:	0.88	0.88	0.88	0.78	0.78	0.78	0.93	0.96	0.96	0.93	0.90	
Lanes:	0.21	0.60	0.19	0.49	0.37	0.14	1.00	0.88	0.12	1.00		0.48
Final Sat.:	343	1009	322		544	208		1620	211		2589	822
				1	<i>-</i>					1		
Capacity Ana												
Vol/Sat:	0.05	0.05	0.05	0.19	0.19	0.19	0.03	0.20	0.20		0.12	0.12
Crit Moves:					****			***		****		
Green/Cycle:	0.39	0.39	0.39	0.39	0.39	0.39	0.11	0.42	0.42		0.41	
Volume/Cap:	0.13	.0.13	0.13	0.49	0.49	0.49	0.31	0.49	0.49		0.31	0.31
Delay/Veh:	19.7	19.7	19.7	23.6	23.6	23.6	41.6	21.8	21.8	44.5	20.2	20.2
User DelAdj:	1.00	1.00	1.00	1.00	1:00	1.00	1.00		1.00		1.00	1.00
AdjDel/Veh:	19.7	19.7	19.7	23.6	23.6	23.6	41.6	21.8	21.8	44.5	20.2	
DesignQueue:				5	4	1	3	11	. 1	4	11	3

November 2003

Level Of Service Computation Report 2000 HCM Operations (Future Volume Atternative) 2010 Plus Phase 1 AM

Intersection #8; SR 1/Western [N/S: Western E/w: SR 1]



Approach:	Noz	th Bo	ound		ith Bo		Ea	st Bo			st Bo	
Movement:	L -		- R		- T				- R	. r .	- T	- R
Min. Green:	Ò	0	0	0	0	0	0	0	0	. 0	0	. 6
			1									
Volume Module	· •		-	-								
Base Vol:	16	47	15	125	94	36	56	300	39	80	293	93
Growth Adj:	1.10	1.10	1.10	1.10	1.10	1.10	1.10		1.10	1.10		1.10
Initial Bse:	18	52	17	138	103	40	62	330	43	88	322	102
Added Vol:	٥	4	6	0	10	1	0	0	0	14	0	0
Campus Incr:	0	0	0	0	0	. 0	0	0	0	0	0	0
Initial Fut:	18	56	23	138	113	41	62	330	43	102	322	102
Jser Adi:	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00		1.00	1.00
PHF Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00
PHF Volume:	18	56	23	138	113	41	62	330	43	102	322	102
Reduct Vol:	0	. 0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	18	56	23'	138	113	41	62	330	43	102	322	102
PCE Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Ad1:		1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.:	18	56	23	138	113	41	62	330	43	102	322	102
	[						1					
Saturation F	low Mo	dule	, '	•			•					
Sat/Lane:			1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.88	0.88	0.88	0.78	0.78	0.78	0.93	0.96	0.96	0.93	0.90	0.90
Lanes:	0.18	0.59	0.23	0.47	0.39	0.14	1.00	0.88	0.12		1.52	0.48
Final Sat.:	307	973	393	700	577	207	1769	1620	211	1769	2589	822
	1								1	1		
Capacity Ana	lvsis	Modu	le: '	•								
Vol/Sat:			0.06	0.20	0.20	0.20	0.03	0.20	0.20	0.06	0.12	0.12
Crit Moves:					****			***		****		
Green/Cycle:	0.39	0.39	0.39	0.39	0.39	0.39	0.11	0.40	0.40	0.11	0.41	0.41
	0.15			0.50	0.50	0.50	0.31	0.50	0.50	0.50	0.31	0.31
Delay/Veh:		19.8		23.8	23.8	23.8	41.6	22.8	22.8	43.6	20.3	
User DelAdj:				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdiDel/Veh:		19.8			23.8		41.6	22.8	22.8	43.6	20.3	20.3
DesignQueue:				5		1	3	12	1	5	11	. 3
nesiduduene:	- 4	^	-	-	-	_	_					

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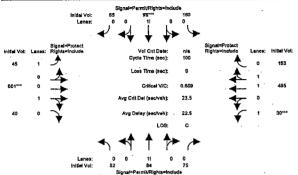
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## Level Of Bervice Computation Report 2000 HCM Operations (Future Volume Alternative) 2010 No Project PM

Intersection #8: SR 1/Western [N/S: Western E/w: SR 1]



Approach:	Nox	rth B	ound	Sot	ith Bo	ound	Εa	ast Bo	ound	We	est Bo	und
Movement:	L ·	- т	- R	ь.	- т	- R	ъ.	- Т	- R	L.	- T	- R
	·				<b>-</b> -	1	1					
Min. Green:	. 0	0	o o	. 0	0	0	. 0	0	. 0	. 0	0	0
Volume Module	:	(*		•		-						
Base Vol:	47	76	68	145	87	50	41	546	36	27	450	139
Growth Adj:	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10		1.10	1.10
Initial Bse:	52	84	75	160	96	55	45	601	40	. 30	495	153
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Campus Incr:	0	0	0	0	0	0	0	0	. 0	. 0	0	0
Initial Fut:	52	84	75	160	96	55	45	601	40	30	495	153
User 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
PHF 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
PHF Volume:	52	84	75	160	96	55	45	601	40	30	495	153
Reduct Vol:	0	0	0	0	0	0	0	٥	0	0	0	0
Reduced Vol:	52	84	75	160	96	55	45	601	40	. 30	495	153
PCE 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
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00
Final Vol.:	52	84	75	160	96	55	45	601	40	30	495	153
	<b>-</b> -							. <b></b>				
Saturation F	low Mo	odule	:					-				
Sat/Lane:	1900	1900	1900	1900	1900	1900		1900	1900		1900	1900
Adjustment:	0.81	0.81	0.81	0.67	0.67	0.67		0.97	0.97		0.90	0.90
Lanes:	0.25	0.40	0.35	0.51	0.31	0.18	1.00	0.94	0.06	1.00	1.53	0.47
Final Sat.:	379	614	549	650	390	224	1769	1731	114	1769	2608	806
	1					[						
Capacity Ana:	lysis	Mođu	le: `									
Vol/Sat:	0.14	0.14	0.14	0.25	0.25	0.25	0.03	0.35	0.35		0.19	0.19
Crit Moves:					***			****		****		
Green/Cycle:	0.37	0.37	0.37	0.37	0.37	0.37	0.06	0.52	0.52	0.03	0.48	0.48
Volume/Cap:	0.37	0.37	0.37		0.67	0.67	0.40	0.67	0.67		0.40	0.40
Delay/Veh:	23.6	23.6	23.6	30.3	3∳.3	30.3	47.2	19.6	19.6	81.3	16.9	16.9
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	23.6	23.6	23.6	30.3	30.3	30.3	47.2	19.6	19.6	81.3	16.9	16.9
DesignQueue:	2	3	3	. 6	4	. 2	2	18	1	. 2	15	5

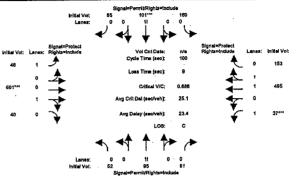
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## Marine Science Canler

## November 2003

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) 2010 Plus Phase 1 PM

Intersection #8: SR 1/Western [N/S: Western E/w: SR 1]



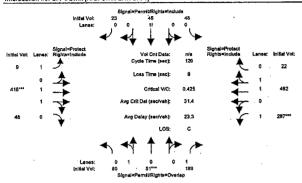
Approach:	No	rth Bo	und	So		ound			ound	West B	
Movement:	L ·	- Т	- R .	`ъ.	т	- R	r.	- т	- R	L - T	- R
Min. Green:			1	ļ				0		0 0	
min. Green:	1		1	1		1	1				
Volume Module	e:			•	• *	'			,	•	
Base Vol:	47	76	68	145	87	50	41			27 450	
Growth Adj:	1.10	1.10	1.10	1.10	1.10	1.10		1.10		1.10 1.10	1.10
Initial Bse:	52	84	75	160	96	55	45	601		30 495	153
Added Vol:	0	11	16	0	5	0	1	0	0	7 0	. 0
Campus Incr:	0	0	0	0	0	0	0	0	0	0 0	-
Initial Fut:	52	95	91	160	101	55	46	601	40	37 495	
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00		1.00		1.00 1.00	
PHF Ad:	1.00	1.00	1.00	1.00	1.00	1.00		1.00		1.00 1.00	
PHF Volume:	52	95	91	160	101	. 55	46	601		37 495	153
Reduct Vol:	0	0	0	0	0	0	0	0		0 0	
Reduced Vol:	52	95	91	160	101	55	46	601	40		
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00		1.00			
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00		1.00		1.00 1.00	
Final Vol.:	52		91		101	55		601		37 495	
Saturation F	low Mo	odule:									
Sat/Lane:	1900	1900	1900	1900	1900	1900		1900		1900 1900	
Adjustment:	0.82	0.82	0.82	0.65	0.65	0.65		0.97		0.93 0.90	
Lanes:	0.22	0.40	0.38	0.51	0.32	0.17		0.94		1.00 1.53	
Final Sat.:		621	596		393	215		1731		1769 2608	
	1		·	)			1				
Capacity Ana	lysis	Modul	le:								
Vol/Sat:	0.15	0.15	0.15	0.26	0.26	0.26	0.03	0.35			0.19
Crit Moves:					****			****		****	
Green/Cycle:	0.37	0.37	0.37	0.37	0.37	0.37	0.06	0.51	0.51		
Volume/Cap:			0.41	0.69	0.69	0.69	0.40	0.69	0.69	0.69 0.40	
Delay/Veh:		23.6	23.6	30.7	30.7	30.7	47.2	20.8	20.8	79.1 17.4	17.4
User DelAdj:				1.00	1.00	1.00	1.00	1.00	1.00	1.00 1.00	1.00
AdjDel/Veh:			23.6	30.7	30.7	30.7	47.2	20.8	20.8	79.1 17.4	17.4
DesignOueue:			3	6	4	2	2	18	1	. 2 15	5

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Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) 2010 No Project AM

Intersection #9: SR 1/Swift [N/S: Swift E/w: SR 1]

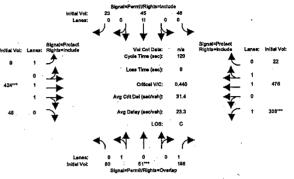


Movement: L - T - R L - T - R L - T - R L - T - R Min. Green: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Min. Green: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Volume Module:  Base Vol: 73 46 172 44 41 21 8 380 44 261 420 20 Growth Adj: 1.10 1.10 1.10 1.10 1.10 1.10 1.10 1.1
Volume Module:  Base Vol: 73 46 172 44 41 21 8 380 44 261 420 20  Growth Adj: 1.10 1.10 1.10 1.10 1.10 1.10 1.10 1.1
Base Vol: 73 46 172 44 41 21 8 380 44 261 420 20 Growth Adj: 1.10 1.10 1.10 1.10 1.10 1.10 1.10 1.1
Growth Adj: 1.10 1.10 1.10 1.10 1.10 1.10 1.10 1.1
Initial Bse: 80 51 189 48 45 23 9 418 48 287 462 22
11111111 200. 00 21 102 10 10 10 10 10 10 10 10 10 10 10 10 10
Added Vol: 0 0 0 0 0 0 0 0 0 0
Campus Incr: 0 0 0 0 0 0 0 0 0 0
Initial Fut: 80 51 189 48 45 23 9 418 48 287 462 22
User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
PHF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
PHF Volume: 80 51 189 48 45 23 9 418 48 287 462 22
Reduct Vol: 0 0 0 0 0 0 0 0 0 0
Reduced Vol: 80 51 189 48 45 23 9 418 48 287 462 22
PCE Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
MLF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
Final Vol.: 80 51 189 48 45 23 9 418 48 287 462 22
Saturation Flow Module:
Sat/Lane: 1900 1900 1900 1900 1900 1900 1900 190
Adjustment: 0.71 0.71 0.83 0.80 0.80 0.93 0.92 0.92 0.93 0.92 0.92
Lanes: 0.61 0.39 1.00 0.41 0.39 0.20 1.00 1.79 0.21 1.00 1.91 0.09
Final Sat : 833 525 1583 630 587 301 1769 3120 361 1769 3353 160
Capacity Analysis Module:
vol/sat: 0.10 0.10 0.12 0.08 0.08 0.08 0.00 0.13 0.13 0.16 0.14 0.14
Crit Moves: **** ****
Green/Cycle: 0.23 0.23 0.61 0.23 0.23 0.23 0.02 0.32 0.32 0.38 0.67 0.67
Volume/Cap: 0.42 0.42 0.20 0.34 0.34 0.34 0.20 0.42 0.42 0.42 0.20 0.20
Delay/Veh: 40.6 40.6 10.5 39.4 39.4 39.4 59.8 32.7 32.7 27.8 7.5 7.5
User DelAdj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
AdjDel/Veh: 40.6 40.6 10.5 39.4 39.4 39.4 59.8 32.7 32.7 27.8 7.5 7.5
DesignQueue: 4 3 5 3 2 1 1 20 2 12 10 0

November 2003

Level Of Service Computation Report
2000 HCM Operations (Future Volume Atternative)
2010 Plus Phese 1 AM

Intersection #9: SR 1/Swift [N/S: Swift E/w: SR 1]

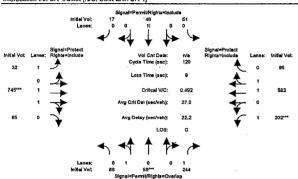


Approach:	No	rth Bo				und		ast Bo			est Bo	
Movement:		- т				- R	r .		- R	, L	- T	- R
	i									,		
Min. Green:	0	0	0	0		0	. 0		0	. 0	0	0
Volume Module	ė:											
Base Vol:	73	46	172		41	21	8	380	44	261	420	20
Growth Adj:	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10		1.10	1.10
Initial Bse:	80	51	189	48	45	23	9	418	48	287	462	.22
Added Vol:	0	0	9	0	0	0	0	6	0	21	14	0
Campus Incr:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	80	51	198	48	45	23	9	424	48	308	476	22
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00		1.00	1.00
PHF Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	. 80	51	198	48	45	23	9	424	- 4B	308	476	22
Reduct Vol:	0	0	0	. 0	0	0	0	0	0	0	0	0
Reduced Vol:	80	51	198	48	45	23	9	424	48	308	476	22
PCE Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.:	80	51	198	48	45	23	9	424	48	308	476	22
						1	I			J		
Saturation F	iow Mo	odule:					•			•		
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adiustment:	0.71	0.71	0.83	0.80	0.80	0.80	0.93	0.92	0.92	0.93	0.92	0.92
Lanes:	0.61		1.00	0.41	0.39	0.20	1.00	1.80	0.20	1.00	1.91	0.09
Final Sat.:	828	522	1583	629	587	300	1769	3128	357	1769	3358	155
	1			11		!	1					
Capacity Ana	İvsis	Modu.	le:						•	-		
Vol/Sat:		0.10	0.13	0.08	0.08	0.08	0.00	0.14	0.14	0.17	0.14	0.14
Crit Moves:		****						****		****		
Green/Cycle:	0.22	0.22	0.62	0.22	0.22	0.22	0.02	0.31	0.31	0.40	0.68	0.68
Volume/Cap:		0.44	0.20	0.35	0.35	0,35	0.21	0.44	0.44	0.44	0.21	0.21
Delav/Veh:		41.4	10.2		40.1	40.1		33.5	33.5	26.9	7.2	7.2
User DelAdj:			1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00
AdiDel/Veh:		41.4	10.2		40.1	40.1		33.5	33.5	26.9	7.2	7.2
DesignQueue:		3	5	3	2	1	1	20	2	13	10	0
newrândrere:	•	,			-	_	-	~~	_			_

# November 2003

# Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) 2010 No Project PM

Intersection #9: SR 1/Swift [N/S: Swift E/w: SR 1]



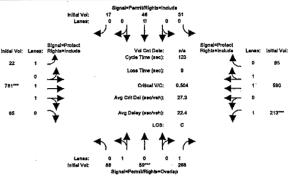
Approach:		rth Bo		Sot	ith Bo	ound	East Bound			West Bound		
Movement:	Ŀ		- R		- T			- T			- т.	- R
									·			
Min. Green:	0	0	0	0	0	0	0	0	. 0	0	0	0
Volume Module	e:											
Base Vol:	80	54	222	46	42	15	20	677	59	184	530	86
Growth Adj:	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
Initial Bse:	88	59	244	51	46	17	22	745	65	202	583	95
Added Vol:	0	0	0	0	0	0	0	0	. 0	0	0	0
Campus Incr:	0	. 0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	88	59	244	51	46	17	22	745	65	202	583	95
User 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
PHF 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
PHF Volume:	88	59	244	51	46	17	22	745	. 65	202	583	95
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	88	59	244	51	46	17	22	745	6.5	202	583	95
PCE 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
MLF 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
Final Vol.:	88		244	51	46	17	22	745	65	202	583	95
										1		
Saturation Fi	low M	dule:		•		•	•		•	•		•
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	. 1900	1900	1900	1900
Adjustment:	0.71	0.71	0.83	0.77	0.77	0.77	0.93	0.92	0.92	0.93	0.91	0.91
Lanes:	0.60	0.40	1.00	0.45	0.41	0.14	1.00	1.84	0.16	1.00	1.72	0.28
Final Sat.:	809	546	1583	655	598	214	1769	3215	280	1769	2980	484
									i	1		
Capacity Anal	ysis	Modu!	le:			•	•		•	•		•
Vol/Sat:	0.11	0.11	0.15	0.08	0.08	0.08	0.01	0.23	0.23	0.11	0.20	0.20
Crit Moves:		****						****		****		
Green/Cycle:	0.22	0.22	0.45	0.22	0.22	0.22	0.04	0.47	0.47	0.23	0.66	0.66
Volume/Cap:	0.49	0.49	0.34	0.35	0.35	0.35	0.30	0.49	0.49	0.49	0.30	0.30
Delay/Veh:	42.1	42.1	21.4	40.1	40.1	40.1	58.0	22.1	22.1	40.8	8.6	8.6
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	42.1	42.1	21.4	40.1	40.1	40.1	58.0	22.1	22.1	40.B	8.6	8.6
DesignQueue:	5	3	9	3	2	1	1	28	2	11	14	2

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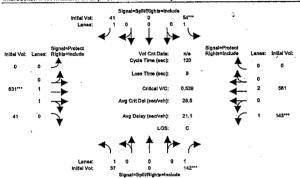
Lavel Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) 2010 Plus Phase 1 PM

Intersection #9: SR 1/Swift [N/S: Swift E/w: SR 1]



Approach:	No	rth Bo	ound	So	uth B	ound	E	ast Bo	und	We	st Bo	ound
Movement:	ъ	- т	- R			-, R		- T	- R	L.	- T	- R
										1		
Min. Green:	0	0	0	0	0		0		0	0	0	0
			· - <b></b> -									
Volume Module												
Base Vol:	80	54	222	46	42	15	20	677	59	184	530	86
Growth Adj:	1.10	1.10	1.10		1.10		1.10	1.10	1.10		1.10	1.10
Initial Bse:	88	59	244	51	46	17	22	745	65	202	583	95
Added Vol:	0	0	24	0	0	0	0	16	0	. 11	. 7	0
Campus Incr:	0	0	0	0	0	. 0	0	0	0	0	. 0	0
Initial Fut:	88	59	268	51	46	17	22	761	65	213	590	95
User 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
PHF 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
PHF Volume:	88	59	268	51	46	17	22	761	65	213	590	95
Reduct Vol:	0	0	0	0	0	. 0	0	0	0	0	0	0
Reduced Vol:	88	59	268	51	46	17	22	761	65	213	590	95
PCE 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
MLF Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.:	88	59	268	51	46	17	22	761	65	213	590	95
				1		1	1			1		
Saturation F	Low Mo	dule:		•		•	•			•		•
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:		0.71			0.76	0.76	0.93	0.92	0.92	0.93	0.91	0.91
Lanes:		0.40	1.00	0.45	0.41	0.14	1.00	1.84	0.16	1.00	1.72	0.28
Final Sat.:	806		1583	649	592	212	1769	3221	275	1769	2985	479
							1					
Capacity Anai	lvsis	Modul	le: '	•		'	•			•		•
Vol/Sat:		0.11		0.08	0.08	0.08	0.01	0.24	0.24	0.12	0.20	0.20
Crit Moves:		****						****		****		
Green/Cycle:	0.22	0.22	0.46	0.22	0.22	0.22	0.04	0.47	0.47	0.24	0.67	0.67
Volume/Cap:					0.36		0.30	0.50	0.50	0.50		0.30
		42.7			40.6		58.0	22.4	22.4	40.4	8.4	8.4
User DelAdj:				1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:				40.6	40.6	40.6	58.0	22.4	22.4	40.4	8.4	8.4
DesignQueue:			10	3	2	1	1	29	2 .	11	14	2

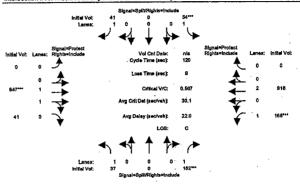
Intersection #10: Mission/Almar [N/S: Almar E/w: Mission]



Approach:	No:	rth Bo	und	Sot	ith Bo	und	Ea	ast Bo	ound	West Bo	und
Movement:	L ·	- T	- R			- R			~ R	L - T	- R
						·					
Min. Green:	· · o	0	o ·			o`		. 0		0 0	0
Volume Module	e:			•							
Base Vol:	34	0	129	49	0	37	0	755	37	130 801	0
Growth Adj:	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10 1.10	1.10
Initial Bse:	37	0	142	54	0	41	0	831	41	143 881	0
Added Vol:	0	0	0	0	. 0	. 0	0	. 0	0	0 0	0
Campus Incr:	0	0	0	0	0	0	0	0	0	0 0	0
Initial Fut:	37	0	. 142	54	0	41	0	831	41	143 881	0
User 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
PHF Adj:	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90 0.90	0.90
PHF Volume:	42	0	158	60	0	45	0	923	45	159 979	0
Reduct Vol:	Ó	0	0	0	0	0	0	. 0	0	0 0	٥٠
Reduced Vol:	42	0	158	60	0	45	0	923	45	159 979	0
PCE Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00 1.00	1.00
MLF Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.1.00	1.00 1.00	1.00
Final Vol.:	42	0	158	60	0	45	0	923	45	159 979	0
			1				1	. <b></b> .			
Saturation F	low M	odule:		•			•			•	
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900 1900	1900
Adjustment:	0.93	1.00	0.83	0.93	1.00	0.83	1.00	0.92	0.92	0.93 0.93	1.00
Lanes:		0.00	1.00	1.00	0.00	1.00	0.00	1.91	0.09	1.00 2.00	0.00
Final Sat.:	1769	0	1583	1769	0	1583	0	3349	164	1769 3538	0
				1							
Capacity Ana	lysis	Modul	le: ˈ	•			· .	4		•	
Vol/Sat:			0.10	0.03	0.00	0.03	0.00	0.28	0.28	0.09 0.28	0.00
Crit Moves:			****	***				****		****	
Green/Cycle:	0.18	0.00	0.18	0.06	0.00	0.06	0.00	0.51	0.51	0.17 0.68	0.00
Volume/Cap:			0.54	0.54	0.00	0.46	0.00	0.54	0.54	0.54 0.41	0.00
Delay/Veh:	41.0		46.3	59.8	<b>d.o</b>	57.5	0.0	20.1	20.1	47.8 8.7	0.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00 1.00	1.00
AdjDel/Veh:			46.3	59.8	0.0	57.5	0.0	20.1	20.1	47.8 8.7	0.0
DesignOueue.			٥	4	0	3		32	2	9 23	0

Level Of Service Computation Report 2000 HCM Operators (Future Volume Alternative) 2010 Plus Phase 1 AM

Intersection #10: Mission/Almar [N/S: Almar E/w: Mission]



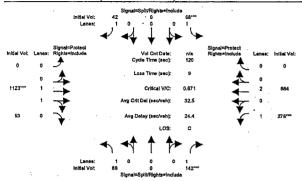
Approach:	No	th Bo	und	Sou	ith Bo	ound	Ea	ast Bo		We	st Bo	
Movement:	L -	- <b>T</b>				- R	ъ.			. r -	T	R
			1					·				
Min. Green:	. 0	0	.0	, 0			, 0	0	٥,		0	۰,0
				1			1					!
Volume Module		_	129	49	0	37	0	755	37	130	801	0
Base Vol:	34		1.10		1.10	1.10	1.10			1.10		1.18
Growth Adj: Initial Bse:	37	1.10	142	, 54	1.10	41	1.10	831	41	143	881	0
	0	0	10		. 0	*1	0	16	71.	22	35	0
Added Vol:		0	10	0	. 0	0	0	70	0		22	0.
Campus Incr:	0	_	-	54	0	41	0	847	41	165	916	0
Initial Fut:	37		152		1.00	1.00		1.00		1.00		1.00
User Adj:	1.00		1.00						0.90	0.90		0.90
PHF Adj:	0.90		0.90		0.90	0.90		0.90			1018	0.90
PHF Volume:	42	0	169	60	0	45	0	941	45	183		0
Reduct Vol:	0	0	0	0	0	0	0	0	0		0	-
Reduced Vol:	42	0	169	60	. 0	45	. 0	941	45		1018	
PCE Adj:		1.00	1.00		1.00	1.00		1.00				1.00
MLF Adj:		1.00	1.00		1.00	1.00		1.00		1.00		1.00
Final Vol.:	42	0	169	60	. 0	45	. 0	941	45		1018	٥,
				ļ						1		
Saturation F												
Sat/Lane:		1900	1900	1900		1900		1900	1900	1900		1900
Adjustment:		1.00	0.83		1.00	0.83		0.92	0.92	0.93		1.00
Lanes:		0.00	1.00		0.00	1.00		1.91		1.00		0.00
Final Sat.:	1769	0	1583	1769	0	1583		3352	161	1769		٥.
				]						1		
Capacity Ana.	lysis	Modul	le:									
Vol/Sat:	0.02	0.00	0.11	0.03	0.00	0.03	0.00	0.28	0.28	0.10	0.29	0.00
Crit Moves:			****	****				****		***		
Green/Cycle:	0.19	0.00	0.19		0.00	0.06		0.49	0.49			0.00
Volume/Cap:	0.12	0.00	0.57	0.57	0.00			0.57				0.00
Delay/Veh:	40.7	0.0	46.9	62.0	0.0	58.4		21.7		47.1	8.9	0.0
User DelAdj:	1.00		1.00		1.00	1.00		1.00		1.00		1.00
AdjDel/Veh:	40.7	0.0	46.9	62.0	0.0	58.4		21.7		47.1	8.9	0.0
DesignQueue:	2	٥	9	4	. 0	3	0	34	2	. 10	24	0

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# Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) 2010 No Project PM

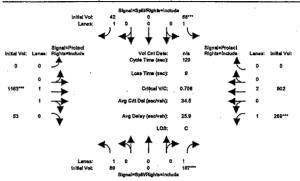
Intersection #10: Mission/Almar [N/S: Almar E/w: Mission]



Approach:	No	rth Bo	ound	So	uth Bo	ound	E	ast B	ound	We	st B	ound
Movement:	L.			L.		- R	, L		- R	<u>.</u> L -	T	- R
Min. Green:	0	0	0	. 0	0	<del></del>	0	0	o		0	0
Volume Module				[   <del>-</del> -			1					
Base Vol:	81	0	129	62	0	38	0	1021	48	253	804	0
Growth Adj:	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1,.10
Initial Bse:	89	0	142	68	0	42	0	1123	53	278	884	0
Added Vol:	0	0	0	0	0	0	0	0	. 0	0	0	0
Campus Incr:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	89	, D	142	68	0	42	0	1123	53	278	884	0
User 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
PHF 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
PHF Volume:	89	0	142	68	0	42	0	1123	53	278	884	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	89	0	142	68	0	42	0	1123	53	278	684	0
PCE 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
MLF 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
Final Vol.:	89	0	142	68	0	42	0	1123	53	278	884	. 0
Saturation Fl	Low Mo	odule:	, -				•			•		-
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.93	1.00	0.83	0.93	1.00	0.83	1.00	0.92	0.92	0.93	0.93	1.00
Lanes:	1.00	0.00	1.00	1.00	0.00	1.00	0.00	1.91	0.09	1.00	2.00	0.00
Final Sat.:	1769	0	1583	1769	0	1583	0	3355	158	1769	3538	0
			,									
Capacity Anal	ysis	Modul	.e:							•		
Vol/Sat:	0.05	0.00	0.09	0.04	0.00	0.03	0.00	0.33	0.33	0.16	0.25	0.00
Crit Moves:			****	***				****		****		
Green/Cycle:			0.13	0.06	0.00	0.06	0.00	0.50	.0.50	0.23	0.73	0.00
Volume/Cap:	0.38	0.00	0.67	0.67	0.00	0.46	0.00	0.67	0.67	0.67	0.34	0.00
Delay/Veh:	48.4	0.0	57.6	71.5	p.0	58.4	0.0	23.6	23.6	45.9	5.7	0.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	48.4	0.0	57.6	71.5	0.0	58.4	0.0	23.6	23.6	45.9	5.7	0.0
DesignQueue:	5	0	В	4	0	3	0	41	2	15	17	0

Level Of Service Computation Report
2000 HCM Operations (Future Voluma Alternative)
2010 Plus Phase 1 PM

Intersection #10: Mission/Almar [N/S: Almar E/w: Mission]



Approach:	No:	rth Bo	ound	Son	ith Bo	bund	E	ast B	ound	We	est Bo	ound
Movement:			- R 			- R			- R 		- T	- R
Min. Green:	່ 0	0	o o	. 0	0	0	. 0	0	o ·	. 0	0	
Volume Module			,	1			1			,		
Base Vol:	81	0	129	62	. 0	38	0	1021	48	253	804	0
Growth Adj:	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
Initial Bse:	89	. 0	142	68	0	42	0	1123	53	278	884	0
Added Vol:	0	0	25	0	Ö		0	40	0	11	18	0
Campus Incr:	0	0	0	0	Ò	0	0	0	0	. 0	0	0
Initial Fut:	89	0	167	68	0	42	0	1163	53	289	902	0
User 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
PHF 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
PHF Volume:	89	0	167	68	0	42	0	1163	53	289	902	0
Reduct Vol:	0	o	0	0	0	. 0	0	0	Ó	o	0	0
Reduced Vol:	89	0	167	68	. 0	42	0	1163	53	289	902	0
PCE Adi:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.:							0	1163	53	289	902	0
							1			1		
Saturation F						,	,			•		
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:			0.83				1.00	0.93	0.93	0.93	0.93	1.00
		0.00		1.00				1.91			2.00	0.00
Final Sat.:			1583	1769				3364		1769	3538	0
												1
Capacity Anal				•		'	'		'	•		
Vol/Sat:			0.11	0.04	0.00	0.03	0.00	0.35	0.35	0.16	0.26	0.00
Crit Moves:			****	****				****		****		
Green/Cycle:	0 15	0 00	0 15	0.05	0 00	0.05	0.00	0.49	0.49	0.23	0.72	0.00
Volume/Cap:									0.71			
Delay/Veh:												
User DelAdj:											1.00	
AdiDel/Veh:										47.9	6.3	0.0
DesignOueue:												

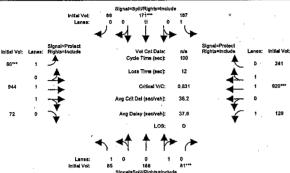
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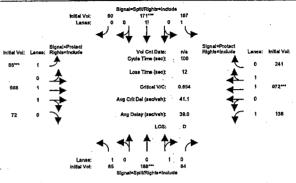
Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) 2010 No Project AM

Intersection #11: Mission/Bay [N/S: Bay E/w: Mission]



Approach:	No	th Bo	und	Sou	ith Bo	ound	Ea	ast Bo	und	We	est Bo	nund
Movement:	r .					- R	L ·			' r -	- Т	- R
Min. Green:	0	0		1			0	0		1	0	
MIN. GLECH:	-		1			1			1	l	-	
Volume Module				1					. 1	1		'
Base Vol:	77	171	74	170	155	78	60	858	65	117	836	219
Growth Adj: :	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
Initial Bse:	85	188	81	187	171	86	66	944	72	129	920	241
Added Vol:	0	0	0	0	0	0	0	- 0	0	0	0	0
Campus Incr:	0	0	0	0	. 0	0	0	0	0	0	O	0
Initial Fut:	85	188	81	187	171	86	66	944	72	129	920	241
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00
PHF Volume:	85	188	81	187	171	86	66	944	72	129	920	241
Reduct Vol:	0	0	0	0	0	0	0	0		- 0	0	0
Reduced Vol:	85	188	81	187	171	86	66	944	72	129	920	241
		1.00	1.00		1.00	1.00		1.00	1.00		1.00	1.00
		1.00	1.00	1.00		1.00			1.00	1.00		1.00
Final Vol.:	85	188	81	187	171	86	66	944	72	129	920	241
Saturation Flo Sat/Lane:		1900	1900	1000	1900	1900	1000	1900	1900	1000	1900	1900
,					0.91	0.91		0.92	0.92		0.90	0.90
		0.92	0.92					1.86	0.92		1.58	0.42
		0.70	0.30	1.27	847	0.24 426		3256	247		2717	712
Final Sat.:	1736	1218	527			4.⊿6 I	1/69	3256	24/	1,63	2/1/	/12
Capacity Analy			,				1			1		
		0.15	0.15		0.20	0.20	0.04	0.29	0.29	0.07	0.34	0.34
Crit Moves:	0.05	0.15	****	0.08	****	0.20	****	0.29	0.29	0.07	****	0.34
Green/Cycle:		0.10	0.19	0 24	0.24	0.24		0.36	0.36	0.00	0.41	0.41
		0.83	0.13		0.83	0.83		0.80	0.80		0.83	0.83
		55.6	55.6		46.6	46.6		32.5	32.5		30.9	30.9
User DelAdj:			1.00	1.00		1.00	1.00		1.00		1.00	1.00
		55.6	55.6		46.6	46.6		32.5	32.5		30.9	30.9
DesignQueue:	35.3	9	35.6	31.3	40.0 B	40.0	4	36	32.3	7	33	9
nezidnónene:	4	9	4	8	В	4	4	30	3	,	23	9

Intersection #11: Mission/Bay [N/S: Bay E/w: Mission]

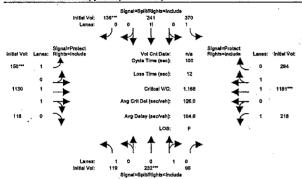


Approach:	No	North Bound							bund		est Bo	
Movement:			- R			- R			- R	L -		- R
Min. Green:	. 0	0	0	0	0	0	0	0	0	0	0	0
Volume Modul	é:											
Base Vol:	77	171	74	170	155	78		858	65	117		219
Growth Adj:	1.10	1.10	1.10		1.10	1.10		1.10		1.10		1.10
Initial Bse:	85	188	81	187	171	86	66	944	72		920	241
Added Vol:	þ	0	3	0	0	. 4		24	0	7	52	0
Campus Incr:	0	0	0	0	0	0	_	0	-	0	-	. (
Initial Fut:	85	188	84	187		90		968			972	241
User Adj:	1.00	1.00	1.00		1.00			1.00			1.00	1.00
PHF 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
PHF Volume:	85	188	84	187	171	90	68	968	72	136	972	24:
Reduct Vol:	0	0	0	0	0	. 0	0	0	0	0	0	- (
Reduced Vol:	85	188	84	187	171	90	68	968	72	136	972	24:
PCB Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.0
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.0
Final Vol.:	85	188	84		171			968	72		972	24:
	1		1	1			11			1		
Saturation F	low M	odule	. '	•						•		
Sat/Lane:	1900	1900	1900	1900	1900	1900	. 1900	1900	1900	1900	1900	190
Adjustment:	0.91	0.92	0.92	0.91	0.91	0.91	0.93	0.92	0.92	0.93	0.90	0.90
Lanes:			0.31	1.27	0.48	0.25	1.00	1.86	0.14	1.00	1.60	0.40
Final Sat.:	1736	1204	540			441		3261			2750	
	I						11					
Capacity Ana							• •			•		
Vol/Sat:	0.05	0.16	0.16	0.09	0.20	0.20	0.04	0.30	0.30	0.08	0.35	0.3
Crit Moves:		****			****		****				****	
Green/Cycle:		0.18	0.18	0.24	0.24	0.24	0.05	0.36	0.36	0.09	0.41	0.4
Volume/Cap:	0.27	0.85	0.85	0.36	0.85	0.85	0.85	0.81	0.81	0.81	0.85	Q.85
Delay/Veh:	35.5	59.1	59.1	31.9	49:3	49.3	102.6	32.9	32.9	69.9	31.9	31.5
User DelAdj:	1.00	1.00	1.00	1.00	1:00	1.00	1.00	1.00	1.00	1.00	1.00	1.0
AdjDel/Veh:	35.5	59.1	59.1	31.9	49.3	49.3	102.6			69.9	31.9	31.5
DesignOueue:	4	12	4	8	8		4				35	:

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# Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) 2010 No Project PM

Intersection #11: Mission/Bay [N/S: Bay E/w: Mission]



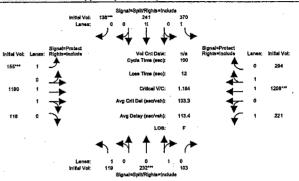
Approach:	No	rth Bo	ound	Sot	ith Bo	ound	Ea	ast Bo	ound	We	est Bo	ound	
Movement:	L ·	T	- R	Ŀ.	- T	~ R	L.	- Т	- R	L ·	- T	- R	
			:	1									ł
Min. Green:	0	0	0	0	0	0	0	0	0	· 0	. 0	0	
													1
Volume Module	:												
Base Vol:	108	211	87	336	219	124	136	1027	107	198	1074	267	
Growth Adj:	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	
Initial Bse:	. 119	232	96	370	241	136	150	1130	. 118	218	1181	294	
Added Vol:	0	0	0	0	0	0	0	0	. 0	0	0	0	
Campus Incr:	0	0	0	0	0	0	0	0	0	0	0	. 0	
Initial Fut:	119	232	96	370	241	136	150	1130	118	218	1181	294	
User 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	
PHF 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	
PHF Volume:	119	232	96	370	241	136	150	1130	118	218	1181	294	
Reduct Vol:	0	0	0	0	0	0	0	0	. 0	0	0	0	
Reduced Vol:	119	232	96	370	241	136	150	1130	118	218	1181	294	
PCE Adj:	1.00	1.00	1.00	100	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
MLF 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	
Final Vol.:			96	370	241	136	150	1130	118	218	1181	294	
Saturation F.	low Mo	odule											
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	
Adjustment:	0.91	0.92	0.92	0.91	0.91	0.91	0.93	0.92	0.92	0.93	0.90	0.90	
Lanes:	1.00	0.71	0.29	1.33	0.43	0.24	1.00	1.81	0.19	1.00	1.60	0.40	
Final Sat.:	1736	1237	510	2306	744	421	1769	3159	329	1769	2748	683	
													ŀ
Capacity Anal	lysis	Modu:	le:										
Vol/Sat:	0.07	0.19	0.19	0.16	0.32	0.32	0.08	0.36	0.36	0.12	0.43	0.43	
Crit Moves:		****				***	***				****		
Green/Cycle:	0.16	0.16	0.16	0.28	0.28	0.28	0.07	0.33	0.33	0.11	0.37	0.37	
Volume/Cap:	0.43	1.17	1.17	0.58	1.17	1.17	1.17	1.09	1.09	1.09	1.17	1.17	
Delay/Veh:	38.8	148	148.2	31.7	127	126.9	177.2	88.0	88.0	133.9	115	115.1	
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
AdjDel/Veh:	38.8	148	148.2	31.7	127	126.9	177.2	88.0	88.0	133.9	115	115.1	
DesignOueue:	6	11	5	15	10	6	8	46	5	11	46	11	

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# November 2003

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
2010 Plus Phase 1 PM

intersection #11: Mission/Bay [N/S: Bay E/w: Mission]

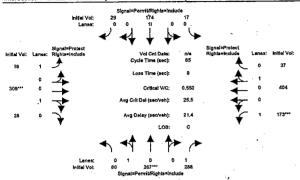


Approach:	No	rth B	ound					ast Bo	ound	We	est Bo	ound
Movement:			- R			- R			- R			- R
Min. Green:	. 0	0	0	. 0	0	0	`` o	0	0	· · o	0	0
Volume Module											<b>-</b> -	
Base Vol:		211	87	336	219	124	136	1027	107	198	1074	267
Growth Adj:	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
Initial Bse:	119	232	96	370	241	136	150	1130	118	218	1181	294
Added Vol:	0	0	7	0	0	. 2	5	60		3	27	0
Campus Incr:	0	0	.0	0	o	0	0	0	0	0	0	. 0
Initial Fut:	119	232	103	370	241	138	155	1190	118	221	1208	294
User 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
PHF 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
PHF Volume:	119	232	103	370	241	138	155	1190	118	221	1208	294
Reduct Vol:	0	. 0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	119	232	103	370	241	138	155	1190	118	221	1208	294
PCE 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
MLF 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
Final Vol.:	119	232	103	370	241	138	155	1190	118	221	1208	294
	1						:					
Saturation F												
Sat/Lane:			1900				1900				1900	
Adjustment:	0.91	0.92	0.92					0.92			0.90	
Lanes:			0.31			0.24		1.82			1.61	
Final Sat.:					741			3177			,2764	
Capacity Ana		Modu	le:									
Vol/Sat:			0.19	0.16	0.33			0.37	0.37	0.12	0.44	0.44
Crit Moves:						****					****	
Green/Cycle:									0.33		0.37	
Volume/Cap:					1.18	1.18		1.13			1.18	1.18
Delay/Veh:	38.7	155	154.8			134.5						122.7
User DelAdj:						1.00					1.00	1.00
AdjDel/Veh:						134.5				146.9		122.7
DesignQueue:	6	11	5	15	11	6	8	49	5	11	47	11

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Atternative)
2010 No Project AM

Intersection #12: Laurel/California [N/S: California E/w: Laurel]

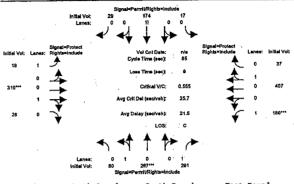


Approach:	Nox	rth Bo	ound	Sou	th Bo	und	Ea	st Bo	ound	₩e	st Bo	und
Movement:	L ·	T	~ R			- R			~ R		Ť	
Min. Green:					0		0					٥
												·
Volume Module	B:		•									
Base Vol:	73	243	262	15	158	26	17			157		34
Growth Adj:	1.10	1.10	1.10	1.10	1.10	1.10		1.10		1.10		1.10
Initial Bse:	80	267	288	17	174	29	19	309	28	173	404	37
Added Vol:			0	0	0	0	0	0		0	0	0
Campus Incr:	0	0	0		0	0	0	0		0	-	0
Initial Fut:	80	267	288	17		29						37
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00		1.00			1.00	
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00		1.00
PHF Volume:	80	267	288	17	174	29	19	309	28	173		37
Reduct Vol:	0	0	0	0	٥	0	0	0		0	0	0
Reduced Vol:	80	267	288	17	174	29				173		37
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.1.00		1.00	
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00		1.00			1.00	1.00
Final Vol.:		267		17				309		173		37
Saturation F												
Sat/Lane:		1900			1900	1900		1900			1900	
Adjustment:	0.87	0.87	0.83	0.93	0.93	0.93	0.93				0.97	
Lanes:	0.23	0.77	1.00	0.08	0.79	0.13		0.92			0.92	0.08
Final Sat.:	380	1266	1583		1399			1689			1682	
					<b></b>					1		
Capacity Ana	lysis	Modu.	le:									
Vol/Sat:	0.21	0.21	0.18	0.12	0.12	0.12	0.01		0.18		0.24	
Crit Moves:		****						****		****		*
Green/Cycle:	0.38	0.38	0.38	0.38	0.38	0.38	0.02	0.33	0.33	0.18	0.49	
Volume/Cap:	0.55	0.55	0.47		0.32	0.32	0.49	0.55			0.49	
Delay/Veh:	21.5	21.5	20.3	18.7	18.7	18.7	50.8	24.2	24.2	33.9	15.0	
User DelAdj:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	21.5	21.5	20.3		18.7	18.7		24.2			15.0	15.0
DogicaQuene.	•			0	=	1	1	10	1	7	10	1

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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
2010 Plus Phase 1 AM

Intersection #12: Laurel/California [N/S: California E/w: Laurel]



Approach:	Noz	cth Bo	ound	Sou	ith Bo	ound	Ea		ound		et Bo	nund
Movement:		- Т			T		ъ.		- R	, L -	T	~ R
Min. Green:	. 0	0		0	0	·	0	0	o'	0		0
Volume Module										!		1
Base Vol:		243	262	15	150	26	17	281	25 .	157	367	34
Growth Adi:		1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
Initial Bse:	80	267	288	17	174	29	19	3.09	28	173	404	37
Added Vol:	0	0	3	0	0	0	0	1	0	7	3	0
Campus Incr:	0	0	0	0	0	. 0	0	0	0	0	0	0
Initial Fut:	80	267	291	17	174	29	19	310	28	180		
User Adj:	1.00	1.00	1.00		1.00	1.00		1.00		1.00		1.00
PHF Adj:	1.00	1.00	1.00		1.00	1.00		1.00	1.00	1.00		1.00
PHP Volume:	80	267	291	17	174	29	19	310	28	180	407	37
Reduct Vol:	0	0	0	0		0	0	0	0	0	0	0
Reduced Vol:		267	291	17	174	29	19	310		180	407	37
PCE Adj:		1.00	1.00		1.00	1.00		1.00			1.00	
MLF Adj:		1.00	1.00		1.00	1.00		1.00	1.00	1.00		1.00
Final Vol.:	80	267	291		174	29	. 19		28	180	407	37
				{								
Saturation F									1900	1900	1000	1900
Sat/Lane:		1900	1900		1900	1900		1900			0.97	0.97
Adjustment:		0.87	0.83		0.93	0.93			0.08	1.00		0.08
Lanes:		0.77	1.00		0.79	0.13 230		0.92 1690	150		1683	155
Final Sat.:	380	1264	1583		1399							
				1			1			1		1
Capacity Ana					0.12	0.12	0 01	0.18	0.18	0.10	0 24	0.24
Vol/Sat:	0.21	0.21	0.18	0.12	0.12	0.12	0.01	****	0.10	****	0.44	0.27
Crit Moves:						0.38		0.33	0.33		0.49	0.49
Green/Cycle:			0.38		0.38			0.33			0.49	
Volume/Cap:			0.4B		18.9			24.5			14.9	
Delay/Veh:			20.6		1.00			1.00			1.00	1.00
User DelAdj:			1.00		18.9			24.5			14.9	
AdjDel/Veh:		21.8	20.6 9	18.9			30.8		24.5	33.7	10	1
DesignQueue:	2	8	9	U	5	1	1	10	_	. '	10	-

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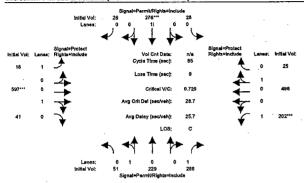
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# November 2003

Level Of Service Computation Report
2000 HCM Operations (Future Volume Atternative)
2010 No Project PM

Intersection #12: Laurel/California [N/S: California E/w: Laurel]

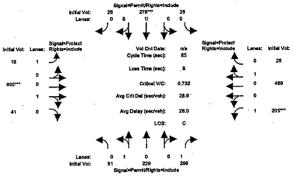


Approach:	No	rth Bo	ound	So	ath Bo	ound	E	ast Bo	und	. We	est Bo	und
Movement:	L		- R	_	- Т	- R	L .	- T		Т.	- Т	- R
Min. Green:	0	0	0	1	0	0	0	0		0	0	0
						1	1					
Volume Modul	e:					-				-		
Base Vol:	46	208	262	25	251	24	16	543	37	184	453	23
Growth Adj:	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10		1.10	1.10
Initial Bse:	51	229	288	28	276	26	18.	597	41	202	498	25
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Campus Incr:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	51	229	288	28	276	26	18	597	41	202	498	25
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00		1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00
PHF Volume:	51	229	288	28	276	26	18	597.	41	202	498	25
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	51	229	288	28	276	26	18	597	41	202	498	25
PCE 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
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00
Final Vol.:	51	229	288	28	276	26	18	597	41	202	498	25
Saturation F												
Sat/Lane:		1900	1900		1900	1900		1900	1900		1900	1900
Adjustment:		0.78	68.0		0.91	0.91		0.97	0.97		0.97	0.97
Lanes:		0.82	1.00		0.84	0.08		0.94	0.06		0.95	0.05
Final Sat.:		1220	1583		1447	138	1769	1726	118		1760	89
									[			
Capacity Ana												
Vol/Sat:	0.19	0.19	0.18	0.19	0.19	0.19	0.01	0.35	0.35		0.28	0.28
Crit Moves:					****			****		****		
Green/Cycle:			0.26		0.26	0.26		0.48	0.48		0.61	0.61
Volume/Cap:		0.72	0.70		0.73	0.73		0.73	0.73		0.46	0.46
Delay/Veh:		34.7	33.4		34.5	34.5		21.0	21.0	43.5	9.3	9.3
User DelAdj:			1.00	1.00		1.00		1.00	1.00		1.00	1.00
AdjDel/Veh:		34.7	33.4		34.5	34.5		21.0	21.0	43.5	9.3	9.3
DesignQueue:	2	8	10	1	10	1	1	16	1	8	10	1

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# Level Of Benvice Computation Report 2000 HCM Operations (Future Volume Alternative) 2010 Plus Phase 1 PM

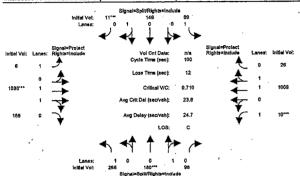
Intersection #12; Laurel/California [N/S: California E/w: Laurel]



Approach:	Not	rth Bo	und						ound		est Bo	
Movement:			- R			- R			- R		- T	
										[		
Min Green:			0			0				. 0		
Volume Module	:											
Base Vol:	46	208	262	25	251	24	16	543	37		453	23
Growth Adj:		1.10	1.10	1.10		1.10		1.10	1.10	1.10		1.10
Initial Bse:	51	229	288	28	276	26	18	597	41	202	498	25
Added Vol:	٥	0	8	0	0	0	0		0	3	1	0
Campus Incr:	0	0	0				0		0	0		0
Initial Fut:	51	229	296	28	276	26			41		499	
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00		1.00	
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00
PHF Volume:	51	229	296	28	276	26	18	600	41	205	499	25
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	51	229	296	28	276	26	18		41		499	
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			1.00	
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00		1.00	1.00
Final Vol.:		229	296		276	26	18		41		499	25
Saturation Fi	ow Mo	dule:				-	-					
		1900				1900		1900			1900	
Adiustment:	0.78	0.78	0.83	0.91	0.91	0.91	0.93	0.97	0.97	0.93	0.97	
Lanes:	0.18	0.82	1.00	0.08	0.84	0.08	1.00	0.94	0.06	1.00	0.95	
Final Sat.:		1217			1444			1728	117		1760	89
		. <b></b>				1	1					
Capacity Anal	ysis	Modul	le:	-								
Vol/Sat:	0.19	0.19	0.19	0.19	0.19	0.19	0.01	0.35	0.35		0.28	0.28
Crit Moves:					***			***		****		
Green/Cycle:	0.26	0.26	0.26	0.26	0.26	0.26	0.02	0.47	0.47	0.16	0.61	
		0.72		0.73	0.73	0.73	0.46	0.73	0.73	0.73	0.46	0.46
		35.0		34.8	34.8	34.8	49.8	21.2	21.2	43.6	9.3	9.3
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
		35.0		34.8	34.8	34.8	49.8	21.2	21.2	43.6		9.3
DesignOueue:	2	8	11	1	10	. 1	1	16	1	8	10	0

# Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) 2010 No Project AM

intersection #13: Mission/Laurel [N/S: Laurel E/w: Mission]

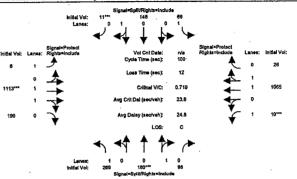


Approach:	No	rth Bo	und	Sou	th Bo	ound	Ea	st Bo	und		est Bo	
Movement:	L		- R		- T		ъ-	· T	- R	L ·	· T	- R
Min. Green:	. 0	0	0	. 0		٥			0	. 0	0	٥.
Volume Modul										_		
Base Vol:	242		89	63	133	10	5		172		917	24
Growth Adj:		1.10	1.10	1.10	1.10	1.10		1.10	1.10		1.10	1.10
Initial Bse:		180	98	69	146	11		1088	189		1009	26
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Campus Incr:		0	0	0	0	0	0	0	0	. 0	0	0
Initial Fut:		180	98	69	146	11		1088	189		1009	26
User Adj:		1.00	1.00		1.00	1.00		1.00	1.00		1.00	1.00
PHF Adj:	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00		1.00
PHF Volume:	266	180	98	69	146	11	6	1088	189		1,009	26
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	266	180	98	69	146	11		1088	189		1009	
PCE Adj:		1.00	1.00			1.00		1.00	1.00		1.00	1.00
MLF Adj:	1.00	1.00	1.00		1.00	1.00		1.00	1.00		1.00	1.00
Final Vol.:			98	69		11		1088	189			26
Saturation F	low M	odule:	:									
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900		1900	1900
Adjustment:	0.93	0.93	0.93	0.93	0.97	0.97	0.91	0.89	0.89		0.91	0.91
Lanes:	1.00	0.65	0.35	1.00	0.93	0.07	1.00	1.70	0.30		1.95	0.05
Final Sat.:	1769	1143	620	1769	1714	129		2893			3371	88
										{ :		
Capacity Ana	lysis	Modu.	le:									
Vol/Sat:	0.15	0.16	0.16	0.04	0.09	0.09	0.00	0.38	0.38		0.30	0.30
Crit Moves:		***				***		****		****		
Green/Cycle:	0.22	0.22	0.22	0.12	0.12	0.12	0.01	0.53	0.53	0.01	0.53	0.53
Volume/Cap:	0.68	0.71	0.71		0.71	0.71	0.56	0.71	0.71		0.56	0.56
Delay/Veh:	40.3	41.9	41.9	41.2	52.5	52.5	108.0	19.1	. 19.1	148.9	16.0	16.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:		41.9	41.9	41.2	52.5	52.5	108.0	19.1		148.9		16.0
DesignOueue:	12	8	4	3	7	1	0	31	5	1	28	1

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Intersection #13: Mission/Laurel [N/S: Laurel E/w: Mission]



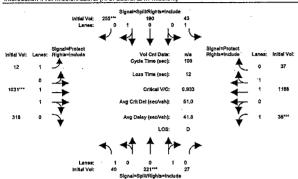
Approach:			ound	So	ith Bo	und	E		ound :		est Bo	
Movement:			~ R	ъ.	- т	- R	T		- R		T	- R
Min. Green:	0	0	0	0	0	0	````0	0	o o	. 0	0	
Volume Module												
Base Vol:		164	89	63	133	10	5	989	172	9	917	24
Growth Adj:		1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
Initial Bse:		180	98	69	146	11	6	1088	189	10	1009	26
Added Vol:		0	0	0	0	0	0	25	1	0	56	0
Campus Incr:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:			98	69	146	11	6	1113	190	10	1065	26
User Adj:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adi:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	269	180	98	69	146	11	6	1113	190	10	1065	26
Reduct Vol:	0	0	0	0	o	0	0	0	0	0	0	0
Reduced Vol:	269	180	98	69	146	11	6	1113	190	10	1065	26
PCE 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
Final Vol.:		180		69	146	11	6	1113	190	10	1065	26
				11								
Saturation F				• •								
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	
Adjustment:	0.93	0.93	0.93	0.93	0.97	0.97	0.91	0.89	0.89	0.91	0.91	0.91
Lanes:		0.65	0.35	1.00	0.93	0.07	1.00	1.71	0.29	1.00	1.95	0.05
Final Sat.:	1769	1143	620		1714			2901			3375	84
												i
Capacity Anal	lysis	Modu.	le:									
Vol/Sat:			0.16	0.04	0.09	0.09		0.38	0.38	0.01	0.32	0.32
Crit Moves:		****				****		****		****		
Green/Cycle:	0.22	0.22	0.22		0.12	0.12		0.53			0.54	
Volume/Cap:		0.72				.0.72		0.72			0.59	0.59
Delay/Veh:	41.2	42.6	42.6			53.4				153.4		16.2
User DelAdi:		1.00	1.00		1.00	1.00		1.00			1.00	1.00
AdiDel/Veh:				41.3	53.4	53.4				153.4		16.2
	12			3	7	1	0	32	5	. 1	30	1

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## November 2003

Level Of Service Computation Report 2000 HCM Operations (Future Volume Allemetive) 2010 No Project PM

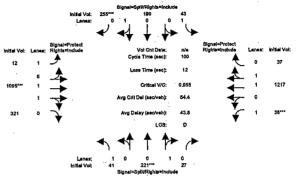
Intersection #13: Mission/Laurel [N/S: Laurel E/w: Mission]]



Approach:	No:	rth Bo	und	Sol	ith Bo	ound	E	ast Bo	ound	We	est Bo	und
Movement:	L			L .	т	- R	ъ	- т	- R	L .	T	- R
	1											1
Min. Green:	· 0	0	o '	. 0	0	0	. 0		. 0	0	0	0
			·			·- <b>-</b>						
Volume Modul												
Base Vol:	40	221	27	43	190	255		1031	318		1188	37
Growth Adj:		1.00	1.00	1.00	1.00	1.00		1.00	1.00		1.00	1.00
Initial Bse:	40	221	27	43	190	255		1031	318		1188	37
Added Vol:	0	0	0	0	0	0	0	0	0	. 0	0	0
Campus Incr:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	40	221	27	43	190	255	12	1031	318	38	1188	37
User 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
PHF 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
PHF Volume:	40	221	27	43	190	255	12	1031	318	38	1188	37
Reduct Vol:	0	0	0	0	0	0	0	0	0	D	0	0
Reduced Vol:	40	221	.27	43	190	255	12	1031	318	38	1188	37
PCE Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Ad:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00.	1.00	1.00	1.00	1.00
Final Vol.:			27	43	190	255	12	1031	318	38	1188	37
				11			1			11		
Saturation F							•			' '		
Sat/Lame:		1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:		0.96	0.96	0.93	0.90	0.90	0.91	0.88	0.88	0.91	0.91	0.91
Lanes:		0.89	0.11		0.43	0.57		1.53	0.47	1.00	1.94	0.06
Final Sat.:		1633	199	1769		975		2561	790		3354	104
			1									
Capacity Ana	lvsis	Modu?	le:			'				' '		. '
Vol/Sat:		0.14	0.14	0.02	0.26	0.26	0.01	0.40	0.40	0.02	0.35	0.35
Crit Moves:		****			••	****		****		****		
Green/Cycle:	0.15	0.15	0.15	0.28	0.28	0.28	0.01	0.43	0.43	0.02	0.45	0.45
Volume/Cap:		0.93	0.93		0.93	0.93	0.79	0.93	0.93	0.93	0.79	0.79
Delay/Veh:		79.8	79.B		60.6	60.6	178.4	38.4	38.4	163.4	26.7	26.7
User DelAdj:			1.00			1.00		1.00	1.00		1.00	1.00
AdjDel/Veh:			79.8		60.6		178.4			163.4		26.7
DesignQueue:			13.0	20.0	8	11	1	36	11	2	40	1
Designation.	-		-	_	۰		~			_	•••	_

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) 2010 Plus Phase 1 PM

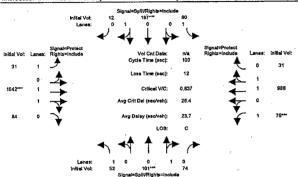
Intersection #13: Mission/Laurel [N/S: Laurel E/w: Missioni]



Approach:	No	rth Bo	ound			ound		ast Bo			est Bo	
Movement:		- T				~ R			- R		- T	
						1						
Min. Green:	0			. 0			. 0			. 0		
Volume Module	9:											
Base Vol:	40		27	43	190	255		1031	318		1188	37
Growth Adj:		1.00		1.00		1.00		1.00	1.00		1.00	
Initial Bse:	40	221	27	43	190	255		1031	318		1188	37
Added Vol:	1	0	0	0	0	0	0	64	3	0	29	0
Campus Incr:	0	. 0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	41		27	43	190	255		1095	321		1217	37
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	
PHF Volume:	41	221	27 -	43	190	255	12	1095	321	38	1217	37
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	41	221	27	43	190	255	12	1095	321	38	1217	37
PCE Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.:	41	221	27	43	190	255		1095	321		1217	37
Saturation F				•			•			,		
Sat/Lane:		1900		1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.93	0.96	0.96	0.93	0.90	0.90	0.91	0.68	0.88	0.91	0.91	0.91
Lanes:		0.89	0.11	1.00	0.43	0.57	1.00	1.55	0.45	1.00	1.94	0.06
Final Sat.:	1769	1633	199	1769	727	975	1736	2594	761	1736	3357	102
			1									
Capacity Ana				•	1 1							,
Vol/Sat:		0.14		0.02	0.26	0.26	0.01	0.42	0.42	0.02	0.36	0.36
Crit Moves:		****				***		****		****		
Green/Cycle:	0.14	0.14	0.14	0.27	0.27	0.27	0.01	0.44	0.44	0.02	0.46	0.46
Volume/Cap:		0.96		0.09	0.96	0.96	0.80	0.96	0.96	0.96	0.80	0.80
Delay/Veh:		86.2		27.1	66.2	66.2	179.0	41.1	41.1	173.6	26.1	26.1
User DelAdj:				1.00				1.00		1.00	1.00	1.00
AdjDel/Veh:		86.2		27.1			179.0			173.6	26.1	26.1
DesignOueue:	2		1		. 8		1		11		40	1
nearAndmene.	-	**	-			. ~-	-	•		_		_

Level Of Bervice Computation Report 2000 HCM Operations (Future Volume Alternative) 2010 No Project AM

Intersection #14: Mission/Walnut [N/S: Walnut E/w: Mission]

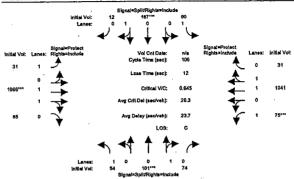


Approach:	No:	rth Bo	ound	Sou	ith Bo	und	E	ast Bo	und	We	est Bo	und
Movement:	L ·	- T	- R	L -	- T	- R		- т		ъ.	- T	- R
			1						}			
Min. Green:	٠ ٥	0	oʻ	. 0	0	o ·	` o	0	0	0	0	0
Min. Green:	1			1		[		:	1			
Volume Module	ė:		•	•		•						
Base Vol:	47	92	67	82	170	. 11	28	947	. 76	68	896	28
Growth Adi:	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
Initial Bse:	52	101	74	90	187	12	31	1042	84	75	986	31
Added Vol:	0	0	0	0	0	0	0	. 0	0	٥	0	0
Campus Incr:	0	0	` ŏ	0	0	0	0	0	0	0	0	0
Initial Fut:	52	101	74	90	187	12	31	1042	84	75	986	31
User 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
PHF Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	52	101	74	90	187	12	31	1042	84	75	986	31
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	52	101	74	90	187	12	31	1042	84	75	986	31
PCE Ad1:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Ad1:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.:		101	74	90	187	12	31	1042	84	75	986	31
							1					
Saturation F.	iow M	odule		٠,		•				•		
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.95	0.94	0.94	0.95	0.99	0.99	0.95	0.94	0.94	0.95	0.95	0.95
Lanes:		0.58	0.42	1.00	0.94	0.06	1.00	1.85	0.15	1.00	1.94	0.06
Final Sat.:	1805	1030	750	1805	1768	114	1805	3305	265	1805	3487	109
	1		[	1			1					
Capacity Ana	İysis	Modu	le:	•								
Vol/Sat:		0.10		0.05	0.11	0.11	0.02	0.32	0.32	0:04	0.28	0.28
Crit Moves:		****			****			***		****		
Green/Cycle:	0.15	0.15	0.15	0.17	0.17	0.17	0.03	0.49		0.07	0.53	0.53
Volume/Cap:	0.19	0.64	0.64	0.30	0.64	0.64	0.54	0.64	0.64	0.64	0.54	0.54
Delay/Veh:				37.2	44.2	43.2	57.2	19.4	19.4	56.7	15.8	15.8
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.Q0
AdjDel/Veh:			44.6	37.2	43.2	43.2	57.2	19.4	19.4	56.7	15.8	15.8
DesignOueue:		5	4	4	9	1	2	32	3	4	28	1

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Level Of Service Computation Report 2000 HCM Operations (Future Volume Atlamative) 2010 Plus Phase 1 AM

Intersection #14: Mission/Walnut [N/S: Walnut E/w: Mission]



Approach:	Non	th Bo	ound	Sou	ith Bo	und	Ea	st Bo	ound	We	est Bo	und
Movement:			- R		т		.ъ.		- R	. ь .	· T	- R
						1						1
Min. Green:	. 0	0	٥.	. 0	0	٥	0				0	0,
							1					
Volume Module			67	82	170	11	28	947	76	68	896	28
Base Vol:	47	92		1.10		1.10		1.10	1.10		1.10	1.10
Growth Adj:			1.10	90	187	1.10		1042	84	75	986	31
Initial Bse:	52	101	74				31	24	1	,5	55	0
Added Vol:	2	0	0	0	0	0	0	24	0	0	23	Ö
Campus Incr:	0	0	0	0		0	-	_			1041	31
Initial Fut:	54	101	74	90	187	12		1066	85			1.00
User Adj:		1.00	1.00		1.00	1.00		1.00			1.00	
PHF Adj:		1.00	1.00		1.00	1.00		1.00	1.00		1.00	1.00
PHF Volume:	54	101	74	90	187	12		1066	85		1041	31
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	54	101	74	90	187	12		1066	85		1041	31
PCE Adj:		1.00	1.00		1.00	1.00		1.00			1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00		1.00	1.00
Final Vol.:		101	74	90		12		1066	85		1041	31
												}
Saturation F	low Mo	dule										
Sat/Lane:	1900	1900	1900	1900				1900	1900		1900	1900
Adjustment:	0.95	0.94	0.94	0.95	0.99	0.99	0.95	0.94	0.94		0.95	0.95
Lanes:	1.00	0.58	0.42	1.00	0.94	0.06		1.85			1.94	0.06
Final Sat.:		1030			1768	114		3308	263		3492	103
						1	ļ					
Capacity Ana	iysis	Modu.	le:									
Vol/Sat:	0.03	0.10	0.10	0.05	0.11	0.11	0.02	0.32	0.32	0.04	0.30	0.30
Crit Moves:		****			****			****		****		
Green/Cycle:	0.15	0.15	0.15	0.16	0.16	0.16	0.03	0.50	0.50	0.06	0.53	0.53
Volume/Cap:		0.65	0.65	0.30	0.65	0.65	0.56	0.65	0.65	0.65	0.56	0.56
Delay/Veh:		45.1	45.1	37.4	43.7	43.7	60.0	19.3	19.3	57.5	15.9	15.9
User DelAdj:				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdiDel/Veh:		45.1	45.1		43.7	43.7	60.0	19.3	19.3	57.5	15.9	15.9
DesignOueue:	3	5	4	4	9	1	2	32	3	4	29	1
pepranducte.	-	-	-	-	-	-	_		_			

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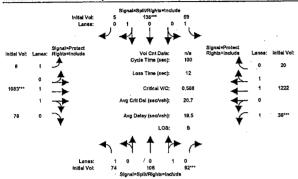
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### Marine Science Centi

# evel Of Service Computation Report

Intersection #14: Mission/Walnut [N/S: Walnut E/w: Mission]



Approach:	No	rth Bo	ound	Son	ith Bo	und	Ea	st Bo	ound	We	est Bo	
Movement:	L	- T	- R	L ·	- T	- R	L -	- Т	- R		- Т	- R
			1	1				. <b>-</b>				
Min. Green:	0		0	0		0	. 0	0	0	. 0	0	٥.
Volume Modul	e:											
Base Vol:	74		62	69	138	5		1083	79		1222	20
Growth Adj:	1.00		1.00		1.00	1.00	1.00		1.00	1.00		1.00
Initial Bse:	74	108	62	69	138	5	-	1083	79		1222	20
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Campus Incr:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	74	108	62	69	138	5		1083	79		1222	20
User Adj:		1.00	1.00		1.00	1.00		1.00	1.00		1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00		1.00	1.00
PHF Volume:	74	108	62	69	138	5		1083.	79		1222	20
Reduct Vol:	0	0	0	0	0	0	0		0	0	0	Ò
Reduced Vol:	74	108	62	69	138	5		1083	79		1222	20
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00		1.00	1.00
Final Vol.:	74	108	62	69		5		1083	79		1222	20
Saturation F	low M	odule	:									
Sat/Lane:	1900	1900	1900		1900	1900		1900	1900		1900	1900
Adjustment:	0.95	0.95	0.95	0.95	1.00	1.00	0.95	0.94	0.94		0.95	0.95
Lanes:	1.00	0.64	0.36	1.00	0.97	0.03	1.00	1.86	0.14		1.97	0.03
Final Sat.:	1805	1141	655	1805	1824	66	1805	3331	243	1805	3545	58
	!											
Capacity Ana	lysis	Modu.	le:									
Vol/Sat:	0.04	0.09	0.09	0.04	0.08	0.08	0.00	0.33	0.33		0.34	0.34
Crit Moves:			****		***			****		***		
Green/Cycle:	0.16	0.16	0.16	0.13	0.13	0.13	0.01	0.56	0.56	0.03	0.58	0.58
Volume/Cap:	0.25	0.59	0.59	0.30	0.59	0.59	0.59	0.59	0.59		0.59	0.59
Delay/Veh:	37.1	41.9	41.9	40.1	44.7	44.7	117.8	15.1	15.1		13.7	13.7
User DelAdi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdiDel/Veh:		41.9	41.9	40.1	44.7	44.7	117.8	15.1	15.1	61.4	13.7	13.7
DesignQueue:	3	5	3	3	7	0	0	29	2	2	31	1
	-	_	-	-								

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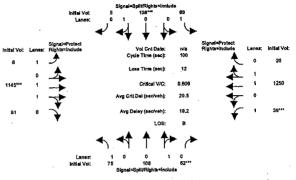
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Marine Science Cen

ovember 2003

Level Of Service Computation Report 2000 HCM Operations (Future Volume Atternative) 2010 Plus Phase 1 PM

Intersection #14: Mission/Walnut [N/S: Walnut E/w: Mission]



Approach:	No	rth Bo	ound	Sot	ith Bo	und			ound		est Bo	
Movement:	ъ	- T	- R	L.	- T	- R	L.		- R			
			}						1			
Min. Green:	0	0	0	. 0	0	0	. 0	0	٥.			0,
										1		!
Volume Module												
Base Vol:	74			69		5		1083	79		1222	
Growth Adj:		1.00			1.00			1.00	1.00		1.00	
Initial Bse:		108		69	138	5	-	1083	79		1222	20
Added Vol:				0	0	0		62	2	0		0
Campus Incr:	. 0	0	0	0	0	0		0		0	0	
Initial Fut:		108						1145			1250	
User Adj:	1.00	1.00	1.00			1.00		1.00			1.00	
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00		1.00			1.00	
PHF Volume:	75	108	62	69	138	5		1145	81		1250	20
Reduct Vol:	0	0	0	0	0	0	0	0	0		0	0
Reduced Vol:	75	108	62		138			1145			1250	
PCE Adi:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	
MLF Ad1:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	
Final Vol.:	75	108	62		138	5		1145			1250	20
	1		1									
Saturation F				•								
Sat/Lane:	1900	1900	1900	1900	1900	1900					1900	
Adjustment:	0.95	0.95	0.95	0.95	1.00	1.00	0.95	0.94	0.94	0.95	0.95	0.95
Lanes:		0.64		1.00	0.97	0.03	1.00	1.87	0.13		1.97	0.03
Final Sat.:	1805	1141	655		1824	66		3338	236		3546	57
	1											
Capacity Ana				•								
Vol/Sat:				0.04	0.08	0.08	0.00	0.34	0.34	0.02	0.35	0.35
Crit Moves:			****		****			****		***		
Green/Cycle:	0.16	0.16	0.16	0.12	0.12	0.12	0.01	0.57	0.57	0.03	0.59	0.59
Volume/Cap:									0.61		0.59	0.59
Delay/Veh:		43.1							14.9		13.2	13.2
User DelAdj:				1.00					1.00		1.00	1.00
AdiDel/Veh:		43.1				45.9					13.2	13.2
DesignQueue:				3		. 0		30		. 2		
residuduene:	*	3	,		•		-		-	_		

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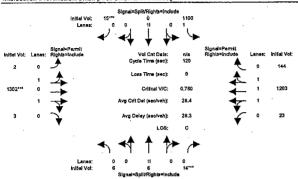
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Level Of Service Computation Report 2000 HCM Operations (Future Volume Atternative) 2010 No Project AM

Intersection #15: Mission/Union [N/S: Union E/w: Mission]

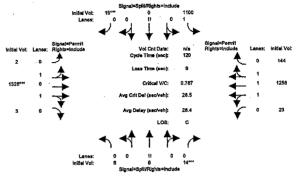


Approach:	No	rth Bo		Sot	ith Bo	ound	E	ast Bo	und	We	est Bo	ound
Movement:	L ·	- т	- R	L.	- т	- R	L ·	- Т	- R	L -	- т	- R
							[					
Min. Green:	. 0	0	o ·	. 0	0	0	. 0	0	0	0	, 0	0
				1								
Volume Module												
Base Vol:	5	5	13	1000	0	14	2	1184	.3	21	1094	131
Growth Adj:	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
Initial Bse:	6	6	14	1100	0	15	2	1302	3	23	1203	144
Added Vol:	0	0	0	0	0	0	0	. 0	0	0	0	0
Campus Incr:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	6	6	14	1100	0	15	2	1302	3	23	1203	144
User 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
PHF 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
PHF Volume:	6	6	14	1100	0	15	2	1302	3	23	1203	144
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	6	6	14	1100	0	15	2	1302	3		1203	144
PCE 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
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1,00	1.00		1.00	1.00
Final Vol.:			14	1100	0	15		1302	3		1203	144
		<b></b> -				·				1		
Saturation F	Low Mo	odule	:									
Sat/Lane:	1900	1900	1900		1900			1900			1900	1900
Adjustment:	0.90	0.90	0.90	0.93	1.00	0.93		0.89			0.74	0.74
Lanes:	0.22	0.22	0.56	1.97	0.00				0.01			0.32
Final Sat.:		370	962	3494	0			3364			3685	441
Capacity Anal	lysis	Mođu:	le:									
Vol/Sat:	0.01	0.01	0.01	0.31	0.00		0.39	0.39	0.39	0.33	0.33	0.33
Crit Moves:			****			****		***				
Green/Cycle:	0.02	0.02	0.02	0.41	0.00	0.41		0.50			0.50	0.50
Volume/Cap:				0.77	0.00	0.78	0.78	0.78	.0.78		0.66	0.66
Delay/Veh: 1				33.1	0.0	33.6	27.2	27.2			23.4	23.4
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00		1.00			1.00	1.00
AdjDel/Veh: 1				33.1	0.0	33.6		27.2		23.4		23.4
DesignQueue:	0	0	1	47	0	1	0	48	. 0	1	43	5

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Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternativa) 2010 Plus Phase 1 AM

Intersection #15: Mission/Union [N/S: Union E/w: Mission]



Approach:	No	th Bo	ound			ound	Ea	st Bo	ound		st Bo	ound
Movement:	ь.		- R			- R			- R	ъ-		- R
	1											
Min. Green:	. 0	0	0	0	0	0	Ø	0	0	0	0	0
				1								
Volume Module	e:											
Base Vol:	5	5	13	1000	0	14		1184	3		1094	131
Growth Adj:	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10		1.10
Initial Bse:	6	. 6	14	1100	0	15	2	1302	3	23	1203	.144
Added Vol:	0	0	0	0	0	0	0	24	0	0	55	0
Campus Incr:	0	0	0	0	0	0	0	0	0	0	0	. 0
Initial Fut:	6	6	14	1100	0	15	2	1326	3	23	1258.	
User Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	6	6	14	1100	0	15	- 2	1326	3	23	1258	144
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	6	6	14	1100	0	15	2	1326	3	23	1258	144
PCE Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:		1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.:	6	6	14	1100	0	15	2	1326	3	23	1258	144
	ł			1								
Saturation F				•		. '				•		•
Sat/Lane:			1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.90	0.90	0.90	0.93	1.00	0.93	0.89	0.89	0.89	0.74	0.74	0.74
Lanes:	0.22	0.22	0.56	1.97	0.00	0.03	0.00	1.99	0.01	0.05	2.65	0.30
Final Sat.:	370	370	962	3494	Ó	48	6.	3365	8	68	3708	425
				1			1			1		
Capacity Ana	lvsis	Modu.	le: '	•			•			•		•
Vol/Sat:			0.01	0.31	0.00	0.32	0.39	0.39	0.39	0.34	0.34	0.34
Crit Moves:	*		****		-:	****		****				
Green/Cycle:	0.02	0.02	0.02	0.41	0.00	0.41	0.50	0.50	0.50	0.50	0.50	0.50
Volume/Cap:					0.00		0.79	0.79	0.79	0.68	0.68	0.68
Delay/Veh:			135.0		0.0	34.2	27.2	27.2	27.2	23.5	23.5	23.5
User DelAdj:					1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:			135.0		0.0	34.2	27.2		27.2	23.5		23.5
DesignOueue:			1	47	0.0	1	0	49	0	1	45	
residuduene:	U	٠	-	- '	•	_			•			-

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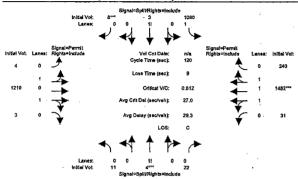
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# November 2003 Level Of Service Computation Report 2000 HCM Operations (Future Voturne Atternative) 2010 No Project PM

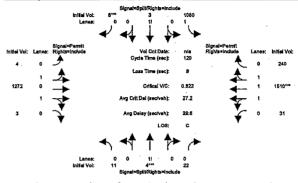
Intersection #15: Mission/Union [N/S: Union E/w: Mission]



Approach: No	rth D	ound	501	uch D	ound	10	D	ound	70.	est Bo	
		- R			- R			- R		T	
MOVEMENT. I											
								0		0	
Volume Module:		,	1		,	1			1		
Base Vol: 1	4	20	982	3	7	4	1100	3	28	1347	218
	1.10			1.10	1.10		1.10			1.10	1.10
Initial Bse: 1			1080		8		1210	3		1482	240
Added Vol:	-		0		ō	ō	0		0	0	0
Campus Incr:	-		ō		ŏ	0	0		0	ő	ō
Initial Fut: 1	. 4	22	1080	3	8	. 4	1210			1482	240
User Adi: 1.0	1.00	1.00		1.00	1.00		1.00			1.00	1.00
	1.00			1.00				1.00			1.00
PHF Volume: 1:	. 4	22	1080	3	8		1210	3		1482	240
Reduct Vol:	0	0	Ó	ō	ō	0	0	0	0	0	0
Reduced Vol: 1	. 4	22	1080	3	8	4	1210	3	31	1482	240
PCE 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
MLF 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
Final Vol.: 1	. 4	22	1080	3	8	4	1210	3	31	1482	240
		1							1		
Saturation Flow !	odule	. '				•			•		•
Sat/Lane: 1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment: 0.89	0.89	0.89	0.93	0.93	0.93	0.88	0.88	0.88	0.74	0.74	0.74
Lanes: 0.25	0.12	0.59	1.98	0.01	0.01	0.01	1.98	0.01	0.05	2.54	0.41
Final Sat.: 49	199	995	3510	11	25	12	3326	9	74	3547	574
			1								
Capacity Analysis	: Modu	le:									
Vol/Sat: 0.02	0.02	0.02	0.31	0.31	0.31	0.36	0.36	0.36	0.42	0.42	0.42
Crit Moves:	***				****					****	
Green/Cycle: 0.0			0.38	0.38	0.38	0.51	0.51	0.51	0.51	0.51	0.51
Volume/Cap: 0.8				0.81	0.81	0.71	0.71	0.71	0.81	0.81	0.81
Delay/Veh: 124.				37.0		23.6	23,6	23.6	26.7	26.7	26.7
User DelAdj: 1.0				1,00		1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh: 124.				37.0	37.0		23.6			26.7	26.7
DesignOueue.		1	4.9	0	0	٥	43	٥	1	5.2	Ω

## Level Of Service Computation Report 2000 HCM Operations (Fature Volume Alternative) 2010 Plus Phase 1 PM

Intersection #15: Mission/Union [N/S: Union E/w: Mission]



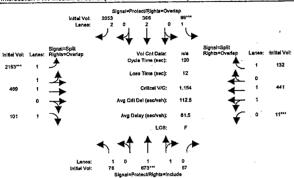
Approach:	No	rth B	ound						ound		est Bo	
Movement:			- R						- R			- R
Min. Green:	0	0	. 0	0	0	0	0	0	0	0	0	0
										[		
Volume Modul												
Base Vol:		4		982			4				1347	
Growth Adj:						1.10		1.10			1.10	
Initial Bse:		. 4			. 3			1210			1482	240
Added Vol:				0		0		62	0			0
Campus Incr:				•	O	0		0			0	-
Initial Fut:	11	4		1080					3	31	1510	240
User 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
PHF Adj:	1.00	1.00	1.00	1.00		1.00		1.00		1.00	1.00	1.00
PHF Volume:	11	4	22	1080	3	8	4	1272	3	31	1510	240
Reduct Vol:	0	0	0	0	. 0	0	0	0	0	0	0	0
Reduced Vol:	11	4	22	1080	3	8	4	1272	3	31	1510	240
PCE Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:								1.00		1.00	1.00	1.00
Final Vol.:									3		1510	
	1											
Saturation F						. '	•		'	•		
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.89	0.89	0.89	0.93	0.93	0.93	0.88	0.88	0.88	0.73	0.73	0.73
Lanes:			0.59					1.98	0.01	0.05	2.55	0.40
Final Sat.:						25		3327	9		3532	
										1		
Capacity Ana				1110		•	•			•		
Vol/Sat:				0.31	0.31	0.31	0.38	0.38	0.38	0.43	0.43	0.43
Crit Moves:		****				****					***	
Green/Cycle:		0.03	0.03	0.38	0.38	0.38	0.52	0.52	0.52	0.52	0.52	0.52
Volume/Cap:								0.74			0.82	
Delay/Veh:								24.1			26.8	
User DelAdj:								1.00			1.00	
AdjDel/Veh:								24.1		26.8		
DesignQueue:									24.1		53	A0.0
nestandrere:		U		40	U	U	U	4.5	υ		23	

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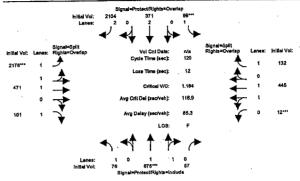
Intersection #16: Mission/Chestnut [N/S: Chestnut E/w: Mission]



Approach:	Nor	th Bo	und	Sou	th Bo	ound		st Bo			est Bo	
Movement:	L -	T	- R		т			T		ъ.	· T	- R
									1	ļ		
Min. Green:	0	0	0	. 0	0	0		0	0	0	0	0
Volume Module:	:			•								
Base Vol:	69	612	52	90	333	1866	1957	426	92	10		120
Growth Adi: 1	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10		1.10
Initial Bse:	76	673	57	99	366	2053	2153	469	101	11	441	132
Added Vol:	0	0	0	0	0	0	0	0	0	Ō	0	0
Campus Incr:	o	0	0	0	0	0	0	0	0	. 0	0	0
Initial Fut:	76	673	57	99	366	2053	2153	469	101	11	441	132
	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	76	673	57	99	366	2053	2153	469	101	11	441	132
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	76	673	57	99	366	2053	2153	469	101	11	441	132
		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.:			57	99		2053	2153	469	101	11	441	132
												1
Saturation Flo										•		
		1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
		0.92	0.92		0.91	0.72		0.88	0.82	0.93	0.93	0.83
		1.84	0.16		2.00	2.00		1.00	1.00	0.05	1.95	1.00
		3222	274		3473	2734		1669	1554		3448	1583
										11		
Capacity Analy				11			' '					,
		0.21	0.21	0.06	0.11	0.75	0.65	0.28	0.07	0.13	0.13	0.08
Crit Moves:	0.04	****	0.21	****	0.11	0.75	****	0.20		****		
			0.18		0.16	0.72	0 56	0.56	0.63	0.11	0.11	0.16
Green/Cycle:		1.15	1.15		0.64	1.04		0.50	0.10		1.15	0.52
			135.7			47.8				148.0	148	48.1
	66.3		1.00		1.00			1.00	1.00		1.00	1.00
User DelAdj:			135.7				101.4			148.0	148	48.1
AdjDel/Ven:							74	15.3	3.1	140.0		8
DesignQueue:	5	39	3	6	21	44	74	12		_	4,	

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Level Of Service Corputation Report
2009 HCM Operation (Future Volume Alternative)
2009 HCM Operation (Future Volume Alternative)
2019 Plus Phase 1 AM
Intersection #16: Mission/Chestnut [N/S: Chestnut E/w: Mission]



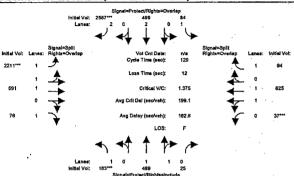
Approach:	Nox	cth Bo	und	Sou	ith Bo	und			ound		st Bo	
Movement:		· T				- R			~ R		T	- R
Min. Green:	٠ ،	0	o'		0	D.	0	0		' 0	0	۰'
Volume Module	; B :			11		,	1			,		
Base Vol:	69	612	52	90	333	1866	1957		92	10	401	120
Growth Adj:	1.10	1.10	1.10	1.10		1.10		1.10	1.10	1.10		1.10
Initial Bse:	76	673	57	99	366	2053	2153	469	101	11	441	132
Added Vol:	0	2	0	0	- 5	51	23	2	0	1	4	0
Campus Incr:	0	0	0	0	Ó	0	0	0	0	0	0	0
Initial Fut:		675	57	99	371	2104	2176	471	101	12		
User Adi:	1.00	1.00	1.00	1.00	1.00	1.00		1.00		1.00		1.00
PHF Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00
PHF Volume:	76	675	57	99	371	2104	2176	471	101	12	445	132
	0	0	. 0	0	0	0	0	0	0	0	0	0
Reduced Vol:	76	675	57	99	371	2104	2176	471	101	12	445	132
PCE Adi:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	
MLF Adi:			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Winal Vol.	76	675	57		371	2104	2176	471	101	12	445	132
	1					}	1					
Saturation F	low Me	odule:										
Sat/Lane:		1900		1900	1900	1900		1900			1900	
Adiustment:	0.93	0.92	0.92		0.91			0.88			0.93	0.83
Lanes:	1.00	1.84	0.16	1.00	2.00	2.00		1.00			1.95	1.00
Final Sat.:	1769	3222	273	1736	3473	2734		1669			3441	1583
	[			11		·						
Capacity Ana	İysis	Modu:	le:									
Vol/Sat:	0.04	0.21	0.21	0.06	0.11	0.77	0.65	0.28	0.07		0.13	0.08
Crit Moves:		***		****			****			****		
Green/Cycle:	0.06	0.18	0.18	0.05	0.17	0.73	0.56	0.56	0.62		0.11	0.16
Volume/Cap:	0.70	1.16	1.16	1.16	0.64	1.06	1.16	0.50	0.10		1.16	0.52
Delay/Veh:		140	139.7	205.6	48.9	53.7	105.5	16.3		151.7		48.1
User DelAdj:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00
AdiDel/Veh:		140	139.7	205.6	48.9		105.5			151.7	152	48.1
DesignQueue:		39	3	6	21	45	75	15	3	. 1	27	8

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Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) 2010 No Project PM

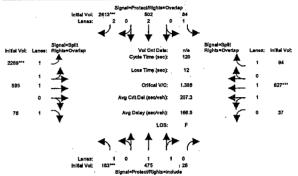
Intersection #16: Mission/Chestnut [N/S: Chestnut E/w: Mission]



Approach:	No	rth B	ound	501	ith B	ound	E	ast Bo	und	We	est Bo	ound
Movement:	ь	~ T	- R	L.	- т	- R	L.	- T	- R	L.	- Т	- R
	[			1			11					
Min. Green:		. 0		0	0	0	0	0	. 0	0	0	
									<i>-</i>			
Volume Modul	ė:			•								
Base Vol:	166	426	23	76	454	2352	2010	537	69	34	568	85
Growth Adj:	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
Initial Bse:	183	469	25	84	499	2587	2211	591	76	37	625	94
Added Vol:	. 0	0	0	0	0	0	0	0	. 0	0	0	0
Campus Incr:	0	0	0	0	., 0	0	0	0		0	0	0
Initial Fut:	183	469	25	84	499	2587	2211	591	76	37	625	94
User 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
PHF 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
PHF Volume:	183	469	25	84	499	2587	2211	591	76	37	625	94
Reduct Vol:	0	0	0	0	0	0	0	0	. 0	0	0	0
Reduced Vol:	183	469	25	84	499	2587	2211	591	76	37	625	94
PCE 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
MLF Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.:	183	469	25	84	499	2587	2211	591	76	37	625	94
Saturation F	iow M	odule		•			• •					,
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.93	0.92	0.92	0.91	0.91	0.72	0.88	0.88	0.82	0.93	0.93	0.83
Lanes:	1.00	1.90	0.10	1.00	2.00	2.00	2.00	1.00	1.00	0.11	1.89	1.00
Final Sat.:	1769	3330	180	1736	3473	2734	3341	1670	1554	199	3328	1583
											- <b></b> -	
Capacity Ana	lysis	Modu.	le:									
Vol/Sat:	0.10	0.14	0.14	0.05	0.14	0.95	0.66	0.35	0.05	0.19	0.19	0.06
Crit Moves:	****					****	***			****		
Green/Cycle:	0.08	0.21	0.21	0.07	0.21	0.69	0.48	0.48	0.56	0.14	0.14	0.21
Volume/Cap:	1.37	0.67	0.67	0.67	0.70	1.37	1.37	0.73	0.09	1.37	1.37	0.28
Delay/Veh:	264.2	46.0	46.0	67.5	4711	190.7	202.9	25.7	12.4	233.1	233	40.4
User DelAdj:	1.00	1.00	1.00	1.00	1.60	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	264.2	46.0	46.0	67.5	47.1	190.7	202.9	25.7	12.4	233.1	233	40.4
DesignOneue.	12	26	1	5	27	66	90	22-	2	2	38	5

Level Of Service Computation Report 2000 HCM Operations (Future Volume Attenuative) 2010 Plus Phase 1 PM

Intersection #16: Mission/Chestnut [N/S: Chestnut E/w: Mission]



			O'BUR!	- rougerroy	110-11000	•						
Approach:	No:	rth Bo	ound	Son	uth B	ound	B	ast B	ound	W	est B	
Movement:	L	- T	- R	L.	- Т	- R	L ·	- T	- R	L		- R
Min. Green:	О	0	0	0	. 0	. 0	0	0	0	0	0	(
Volume Module							11			11		
Base Vol:		426	23	76	454	2352	2010	537	69	34	568	85
Growth Adi:					1.10		1.10	1.10	1.10	1.10	1.10	1.1
Initial Bse:					499						625	9.
Added Vol:			1	0	3	26	58	4	0	0	2	
Campus Incr:	ō	Ō	ō	o	. 0	0	0	Ö			0	,
Initial Fut:				84	502	2613	2269	595	76	37	627	9.
User Adj:					1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.0
PHF Adj:				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.0
PHF Volume:		475		84	502	2613	2269	595	76	37	627	9.
Reduct Vol:				0	0	0	0	0	0	0	0	
Reduced Vol:				84	502	2613	2269	595	76	37	627	9
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.0
MLF Adj:					1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.0
Final Vol.:					502		2269			37	627	9.
			I	1			11			11		
Saturation F										• •		
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	190
Adjustment:	0.93	0.92	0.92	0.91	0.91	0.72	0.88	0.88	0.82	0.93	0.93	0.8
Lanes:	1.00	1.89	0.11	1.00	2.00	2.00	2.00	1.00			1.89	1.0
Final Sat.:	1769	3325	184	1736	3473	2734	3341	1670	1554	199	3329	158
		- <i>-</i>		1								
Capacity Ana:	lysis	Modu]	Le:	•								
Vol/Sat:	0.10	0.14	0.14	0.05	0.14	0.96	0.68	0.36	0.05	0.19	0.19	0.0
Crit Moves:	****					***	****				***	
Green/Cycle:	0.07	0.20	0.20	0.07	0.20	0.69			0.56	0.14	0.14	0.2
Volume/Cap:											1.39	
Delay/Veh: 2								24.9		238.0		
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			1.00	
AdjDel/Veh: 2	269.0	47.3	47.3	71.0	48.8	195.6				238.0		
DesignQueue:	12	26	1	. 5	28	66	92	22	2	2	38	

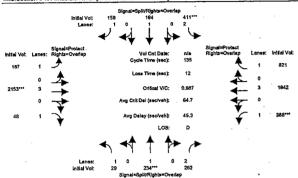
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### Marine Science Cente

# November 2003 Level Of Service Computation Report

Intersection #17: Mission/River [N/S: River E/w: Mission]



Approach:	No	rth Bo	und	Sou	ith Bo	und	Εā	st Bo	und	We	st Bo	und
Movement:	L.	- т	~ R			- R		· T			T	
Min. Green:		0	0	0	0	0	0	0	0	O.	0	0
			[									
Volume Module	≥:											
Base Vol:	26	213	236	374	149	144		1957	44		1765	746
Growth Adj:	1.10	1.10	1.10	1.10	1.10	1.10	1.10		1.10	1.10		1.10
Initial Bse:	29	234	262	411	164	158		2153	. 48		1942	821
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Campus Incr:	0	0	0	0	0	0	0	. 0	0	0	0	. 0
Initial Fut:	29	234	262	411	164	158	187	2153	48		1942	821
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00
PHF 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
PHF Volume:	29	234	262	411	164	158	187	2153	48	388	1942	821
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	29	234	262	411	164	158	187	2153	48	388	1942	821
PCE Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF 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
Final Vol.:	29	234	262	411		158		2153	48		1942	821
				I								
Saturation P				•		•						
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.93	0.98	0.73	0.90	0.98	0.83	0.93	0.89	0.83	0.93	0.89	0.83
Lanes:	1.00	1.00	2.00	2.00	1.00	1.00	1.00	3.00	1.00	1.00	3.00	1.00
Final Sat.:	1769	1862	2786	3432	1862	1583	1769	5083	1583	1769	5083	1583
	1											
Capacity Ana	lysis	Modu.	le:		•							
Vol/Sat:		0.13		0.12	0.09	0.10	0.11	0.42	0.03		0.38	0.52
Crit Moves:		****		****				****		****		
Green/Cycle:	0.13	0.13	0.35	0.12	0.12	0.23	0.11	0.43	0.56	0.22	0.54	0.66
Volume/Cap:		0.99	0.27	0.99	0.73	0.43	0.96	0.99	0.05		0.71	0.78
Delay/Veh:	46.7	107	28.2	93.3	61.9	40.2	105.5	50.3	12.2	88.4	21.3	18.1
User DelAdj:			1.00	1.00	1.00	1.00	100	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	46.7		28.2		61.9	40.2	105.5	50.3	12.2	88.4	21.3	18.1
DegionOnene.		14	12	25		8	11	91	. 1	21	65	21

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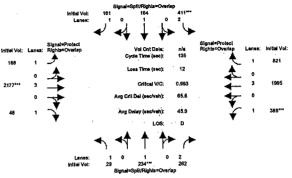
### True Science Center

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November 2003

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternativa) 2010 Plus Phuse 1 AM

Intersection #17: Mission/River [N/S: River E/w: Mission]



			Oignin	- Opirer agric								
Approach:	No	rth Bo	und	Sou	th Bo	und	Ea	st Bo	und	We	st Bo	und
Movement:	L.	· T	- R	L -	· T	- R	L -	- т	- R	ь.	- T	- R
						:						
Min. Green:	0	0	٠ ٥ ٔ	0	0	. 0	. 0	0	٥.			٥.
MIN. GIEEM.												}
Volume Module	e:											
Base Vol:	26			374	149			1957	44		1765	
Growth Adj:		1.10			1.10			1.10	1.10		1.10	
Initial Bse:				411	164			2153	48		1942	821
			0		0	3		24		0	53	0
Campus Incr:	0				0			0		0	0	0
Initial Fut:			262		164				48			821
User Adj:	1.00	1.00			1.00		1.00		1.00		1.00	
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00		1.00	
PHF Volume:				411	164	161		2177	48		1995	821
Reduct Vol:	0	0	0	0	. 0	0	0	0	0			.0
Reduced Vol:	29	234	262		164				48			821
PCE Adi:	1.00	1.00	1.00	1.00	1.00				1.00			
MLF Adj:	1.00	1.00	1.00		1.00				1.00			
Final Vol.:	29	234	262	411	164	161	188	2177	48	. 388	1995	821
						}						
Saturation F	low M	odule:										
Sat/Lane:			1900						1900			
Adjustment:	0.93	0.98	0.73	0.90	0.98				0.83		0.89	
Lanes:			2.00						1.00			
Final Sat.:	1769	1862	2786	3432	1862	1583	1769	5083	1583	1769	5083	1583
rinar sac.:	1-,		1							1		
Capacity Ana	lysis	Modul	le:									
Vol/Sat:	0.02	0.13	0.09			0.10	0.11		0.03		0.39	0.52
Crit Moves:				****				***		****		
Green/Cycle:	0.13	0.13	0.35		0.12			0.43			0.54	
Volume/Cap:	0.13	0.99	0.27			0.44		0.99			0.72	
Delay/Veh:	46.8	109	28.3	94.9	62.3		104.9				21.7	
User DelAdi:	1.00	1.00	1.00	1.00	1.00	1.00		1.00			1.00	
AdjDel/Veh:	46.8	109	28.3	94.9	62.3	40.3	104.9				21.7	18.1
DesignQueue:	2	14	12	25	10	8	11	92	1	21	67	21

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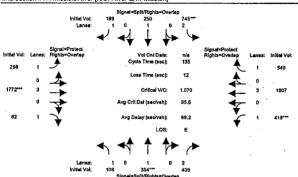
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### Marine Science Cent

# November 2003 Level Of Service Computation Report 2000 HCM Operations (Future Voturne Atternative) 2010 No Project PM

Intersection #17: Mission/River [N/S: River E/w: Mission]



Approach:	No:	rth Bo	ound	So	uth Bo	ound	E	ast B	ound	W.	est Bo	ound	
Movement:	L ·		- R		- T		L .	- T	- · R	L ·	- T	- R	
	]												
Min. Green:	0		0		0		0			0	0	0	
Volume Module	e:												
Base Vol:	96	276	399	677	227	154	271	1611	56	377	1643	491	
Growth Adj:	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	
Initial Bse:	106	304	439	745	250	169	298	1772	62	415	1807	540	
Added Vol:	0	0	0	0	0	0	0	0	. 0	0	0	0	
Campus Incr:	0	0	0	0	0	0	0	0	0	0	0	0	
Initial Fut:	106	304	439	745	250	169	298	1772	. 62	415	1807	540	
User 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	
PHF 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	
PHF Volume:	106	304	439	745	250	169	298	1772	. 62	415	1807	540	
Reduct Vol:	0	0	0	0	0	0	0	0	0	o o	0	0	
Reduced Vol:	106	304	439	745	250	169	298	1772	62	415	1807	540	
PCE 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	
MLF 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	
Final Vol.:	106	304	439	745	250	169	298	1772	62	415	1807	540	
Saturation F	low Mo	dule:											
Sat/Lane:		1900			1900	1900	1900	1900	1900	1900	1900	1900	
Adjustment:	0.93	0.98	0.73		0.98	0.83	0.93	0.89	0.83	0.93	0.89	0.83	
Lanes:		1.00	2.00	2.00	1.00	1.00	1.00	3.00	1.00	1.00	3.00	1.00	
Final Sat.:	1769	1862	2786		1862	1583		5083	1583		5083	1583	
											. <b>.</b>		
Capacity Anal													
Vol/Sat:	0.06	0.16	0.16		0.13	0.11	0.17	0.35	0.04	0.23	0.36	0.34	
Crit Moves:		****		****				****		***			
Green/Cycle:	0.15	0.15	0.37	0.20	0.20	0.38	0.18	0.33	0.48	0.22	0.37	0.57	
Volume/Cap:		1.07	0.42		0.66	0.28	0.96	1.07	0.08	1.07	0.96	0.60	
Delay/Veh:	46.8		28.4	102.3	4 B   4	26.3	89.8	84.0	17.0	112.5	49.9	17.7	
User DelAdj:			1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
AdjDel/Veh:	46.8	124		102.3	48.4	26.3	89.B	84.0	17.0	112.5	49.9	17.7	
DesignQueue:	6	18	19	42	14	7	17	87	2	23	83	17	

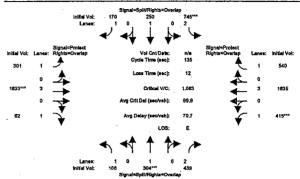
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# Level Of Service Computation Report 2000 HCM Operations (Future Volume Atternative) 2010 Plus Phase 1 PM

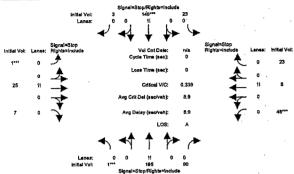
Intersection #17: Mission/River [N/S: River E/w: Mission]



Approach:		rth Bo				ound	E	ast Bo	ound	W	est B	ound
Movement:	Ŀ	_	- R			- R		- Т			- Т	- R
Min. Green:	0	0	0		0	   	. 0		0		0	0
Volume Module				11			1			11		
Base Vol:	96	276	399	677	227	154	271	1611	56	377	1643	491
Growth Adj:	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
Initial Bse:	106	304	439	745	250	169	298	1772	62	415	1807	540
Added Vol:	0	0	0	0	0	. 1	3	61	0	0	28	0
Campus Incr:	0	0	0	0	. 0	0	0	0	0	0	0	0
Initial Fut:	106	304	439	745	250	170	301	1833	62	415	1835	540
User 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
PHF 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
PHF Volume:	106	304	439	745	250	170	301	1833	62	415	1835	540
Reduct Vol:	0	0	0	0	0	. 0	0	0	0	0	0	0
Reduced Vol:	106	304	439	745	250	170	301	1833	62	415	1835	540
PCE 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
MLF 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
Final Vol.:			439		250	170		1833	62		1835	540
							1					
Saturation F	Low Mo	dule:										
Sat/Lane:		1900			1900	1900		1900	1900		1900	
Adjustment:		0.98			0.98				0.83		0.89	
Lanes:		1.00			1.00		1.00		1.00		3.00	
		1862					1769		1583		5083	1583
						·						
Capacity Anal												
Vol/Sat:	0.06		0.16		0.13	0.11	0.17	0.36	0.04	0.23	0.36	0.34
Crit Moves:		****		****				****		****		
Green/Cycle:	0.15	0.15	0.37	0.20	0.20	0.38	0.18	0.33	0.48	0.22	0.37	0.57
Volume/Cap:	0.40	1.08	0.43	1.08	0.67	0.29	0.97	1.08	0.08	1.08	0.97	0.59
Delay/Veh:	47.0	129	28.8	107.1	49.0	26.4	91.1	68.3	16.7	117.2	50.6	17.6
User DelAdj:				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	47.0	129	28.8	107.1	49.0	26.4	91.1	88.3	16.7	117.2	50.6	17.6
DesignQueue:	6	18	19	42	14	7	17	89	2	23	84	17

Level Of Service Computation Report, 2000 HCM 4-Way Stop (Future Volume Alternative) 2010 No Project AM

Intersection #18: Western/Meder [N/S: Western E/w: Meder]

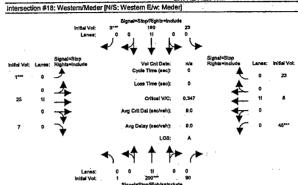


Approach:	No	rth Bo	ound	So	uth Bo	und		ast Bo	und	West	Bound
Movement:			- R			- R			- R		T - R
										1	
Min. Green:	· 0	0	0	. 0	0	0	0	0	0	0	0
	1										
Volume Modul	e.						•				
Base Vol:	1	177	82	21	135	3	1	23	6	44	7 2
Growth Adj:	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10 1.3	
Initial Bse:	1	195	90	23	149	3	1	25	7	48	8 2
Added Vol:	0	0	0	0	0	0	0	. 0	0	0	0
Campus Incr:	0	0	0	0	0	0	0	. 0	0	0	0
Initial Fut:	1	195	90	23	149	3	1	25	7	48	8 2
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00 1.	
PHF Volume:	1	195	90	23	149	3	1		7	48	8 2
Reduct Vol:		0		0	0			0.		0	0
Reduced Vol:	1	195	90	23	149	3	1	25	7	48	8 2
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			00 1.0
MLF Adj:	1.00	1.00	1.00	1.00	1.00			1.00			
Final Vol.:	1	195	90	23			1				8 2
		~									
Saturation F				•							
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00		1:00			
Lanes:	0.01	0.68	0.31	0.13	0.85	0.02	0.03	0.77	0.20	0.61 0.	10 0.2
Final Sat.:	3	574	266			15					67 20
	1			1							
Capacity Ana	lysis	Modu	le:							•	
Vol/Sat:	0.34	0.34	0.34	0.22	0.22	0.22		0.05	0.05		12 0.1
Crit Moves:	****				****		***			****	
Delay/Veh:	9.2	9.2	9.2	8.7	8.7	8.7	8.1	8.1	8.1	8.4 8	.4 B.
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1:00	1.00	1.00 1.	
AdjDel/Veh:	9.2	9.2	9.2	8.7		8.7	8.1				.48.
LOS by Move:	A	A	A	A		A	A	A	A		A A
ApproachDel:		9.2			8.7			0.1			. 4
Delay Adj:		1:00			1.00			1.00		1.	00
ApprAdjDel:					8.7			8.1	*	8	. 4
LOS by Appr:		A			A			A.		•	Α '

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Level Of Service Computation Report 2000 HCM 4-Way Stop (Future Volume Alternative) 2010 Plus Phase 1 AM



Movement: L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R Min. Green: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				Signas	CDD-High	is a turn conde							
Movement: L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R Min. Green: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Approach:	No	rth Bo	und	So	uth Bo	und	Ea	st Bo	und	. We	st Bo	und
Min. Green: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Movement:	. ե	· T	- R	ъ	т.	- R	L -	T	- R	L -	T	- R
Volume Module:  Base Vol: 1 177 82 21 135 3 1 23 6 44 7 21  Growth Adj: 1.10 1.10 1.10 1.10 1.10 1.10 1.10 1.1	Min. Green:	0	0	0	0	.0	0	0	0	0	0	0	0
Volume Module:  Base Vol: 1 177 82 21 135 3 1 23 6 44 7 21  Growth Adj: 1.10 1.10 1.10 1.10 1.10 1.10 1.10 1.1				[									
Growth Adj: 1.10 1.10 1.10 1.10 1.10 1.10 1.10 1.1	Volume Module	è:											
Name	Base Vol:												
Added Vol: 0 5 0 0 11 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Growth Adj:	1.10	1.10	1.10									
Added Vol: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Initial Bse:	1	195	90	23		3					-	
Tamitial Fut: 1 200 90 23 160 3 1 25 7 48 8 23  User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Added Vol:			0	٥					-	-	-	
New York   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.0	Campus Incr:	. 0	0	0	0	0	0			-	-	-	_
PHF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Initial Fut:	1	200	90								-	
PHF Volume: 1 200 90 23 160 3 1 25 7 48 8 23 Reducet Vol: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	User Adj:	1.00	1.00	1.00	1.00	1.00							
PHF Volume: 1 200 90 23 160 3 1 25 7 48 8 23 Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00					1.00	
Reduced Vol: 1 200 90 23 160 3 1 25 7 48 8 23 PCS Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	PHF Volume:	1			23	160	3	1	25		48	_	
Reducts Work Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts Reducts R	Reduct Vol:	0	٥	0	o	0	0	0	0	0	-	-	0
MUF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Reduced Vol:	1	200	90	23								
Final Vol.: 1 200 90 23 160 3 1 25 7 48 8 23  Saturation Flow Module: Adjustment: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	PCE Adi:	1.00	1.00	1.00	1.00	1.00							
Final Vol.: 1 200 90 23 160 3 1 25 7 48 8 23  Saturation Flow Module: Adjustment: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	MLF Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Saturation Flow Module: Adjustment: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Final Vol.:												23
Saturation Flow Module: Adjustment: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0													
Lanes: 0.01 0.68 0.31 0.12 0.86 0.02 0.03 0.77 0.20 0.61 0.10 0.29 Final Sat: 3 576 260 97 670 14 22 514 134 415 66 129 Capacity Analysis Module: Vol/Sat: 0.35 0.35 0.35 0.24 0.24 0.24 0.05 0.05 0.05 0.12 0.12 Crit Moves: **** Delay Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Saturation F	low Mo	odule:										
Lanes: 0.01 0.68 0.31 0.12 0.86 0.02 0.03 0.77 0.20 0.61 0.10 0.29 Final Sat: 3 576 260 97 670 14 22 514 134 415 66 129 Capacity Analysis Module: Vol/Sat: 0.35 0.35 0.35 0.24 0.24 0.24 0.05 0.05 0.05 0.12 0.12 Crit Moves: **** Delay Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Adiustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Sat:: 3 576 260 97 670 14 22 514 134 415 66 198  Capacity Analysis Module:  Vol/Sat: 0.35 0.35 0.35 0.24 0.24 0.24 0.05 0.05 0.05 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12		0.01	0.68	0.31	0.12	0.86	0.02	0.03	0.77	0.20	0.61	0.10	0.29
Capacity Analysis Module:  Vol/Sat: 0.35 0.35 0.35 0.24 0.24 0.24 0.05 0.05 0.05 0.12 0.12 0.12  Crit Moves: ***  Delay/Neh: 9.3 9.3 9.3 8.8 8.8 8.8 8.1 8.1 8.1 8.1 8.5 8.5  Delay/Deh: 9.3 9.3 9.3 8.8 8.8 8.8 8.8 8.1 8.1 8.1 8.1 8.5 8.5  Delay Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Final Sat.:	3	576	260									
Capacity Analysis Module: Vol/Sat: 0.35 0.35 0.35 0.35 0.24 0.24 0.24 0.05 0.05 0.05 0.05 0.12 0.12 0.12 Crit Moves:  ****  Delay/Veh: 9.3 9.3 9.3 8.8 8.8 8.8 8.8 8.1 8.1 8.1 8.1 8.5 8.5 8.5 Belay Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0					1								
vol/Sat:     0.35 0.35 0.35 0.35 0.24 0.24 0.24 0.05 0.05 0.05 0.05 0.12 0.12 0.12 0.12 0.14 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.0					•			•					
Crik Moves: ****			0.35	0.35	0.24	0.24	0.24	0.05	0.05	0.05		0.12	0.12
Delay/veh: 9.3 9.3 9.3 8.8 8.8 8.8 8.1 8.1 8.1 8.1 8.5 8.5 8.5 Delay Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0								***			****		
Delay Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0		9.3	9.3	9.3	8.8	8.8	8.8	8.1	8.1	8.1	8.5	8.5	8.5
AdjDel/Veh: 9.3 9.3 9.3 8.8 8.8 8.8 8.1 8.1 8.1 8.5 8.5 8.5 10.5 by Move: A A A A A A A A A A A A A A A A A A A	Delay Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
LOS by Move: A A A A A A A A A A A A A A A A A A A	AdiDel/Veh:	9.3	9.3	9.3	8.8	8.8	8.8	8.1	8.1	8.1	8.5	8.5	8.5
ApproachDel: 9.3 8.8 8.1 8.5 Delay Adj: 1.00 1.00 1.00 1.00 Appradjbel: 9.3 8.8 8.1 8.5	LOS by Move:	A	A	. A	A	A	A	A	A	A	A	A	A
Delay Adj: 1.00 1.00 1.00 1.00 ApprAdjDel: 9.3 8.8 8.1 8.5			9.3			8.8			8.1			8.5	
ApprAdjDel: 9.3 8.8 8.1 8.5	Delay Adi:		1.00						1.00			1.00	
Nobelia Jan.	Appradibel:								8.1			8.5	•
	LOS by Appr:								A			A	

Traffix 7.5.0715

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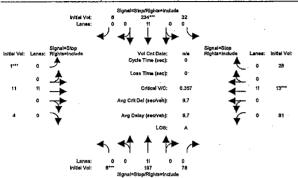
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### Al. .. ... ... ... ... ...

Level Of Service Computation Report 2000 HCM 4-Way Stop (Future Volume Alternative) 2010 No Project PM

Intersection #18: Western/Meder [N/S: Western E/w: Meder]



Approach:					ith Bo	ound	Ea	ast Bo	ound		Bound
Movement:	L	- , <b>T</b>	- R	, L		- R					
				1						\ <u>-</u>	
Min. Green:											0 0
Volume Modul			1				1				
Base Vol:		179	71	29	213	5	1	10	4	83 1	2 25
Growth Adi:			1.10		1.10	1.10		1.10	_		
Initial Bse:			.78	32	234	5.10	1.10	11	4.10	91 1	
Added Vol:	-	0	, 0	0		-	0		-		0 0
Campus Incr:	-	-	.0	0		0			0	-	0 0
Initial Fut:			78	32	-	6	-1	•	4	•	
User Adi:			1.00		1.00	1.00		1.00			
PHF Adi:			1.00		1.00	1.00		1.00			
PHF Volume:			78	32	234	1.00	1.00	11	1.00	91 1	
Reduct Vol:		197	,,	0	234	0	0				0 0
Reduced Vol:		-	-	32	-	6	-	-	4	-	3 28
PCE Adi:					1.00			1.00			
MLF Adj:			1.00		1.00	1.00		1.00			
Final Vol.:				32					. 4		3 28
rimai voi.:											
Saturation F				1			1		,	1	
Adjustment:				1.00	1.00	1.00	1.00	1.00	1.00	1.00 1.0	0 1.00
				0.12				0.67			
Final Sat.:						15			166		5 135
	1			1							
Capacity Ana	lysis	Modul	le: '	•		'	•			,	•
Vol/Sat:			0.36	0.36	0.36	0.36	0.03	0.03	0.03	0.20 0.2	0 0.20
Crit Moves:	****				****		***			***	*
Delay/Veh:	9.7	9.7	9.7	10.0	10.0	10.0	8.3	8.3	8.3	9.3 9.	3 9.3
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00 1.0	0 1.00
AdiDel/Veh:	9.7	9.7	9.7	10.0	10.0	10.0	8.3	8.3	8.3	9.3 9.	3 9.3
LOS by Move:	A	A	A	В	₽	В	A	A	, A	A A	. A
ApproachDel:		9.7			10.0			8.3		9.	3
Delay Adj:		1.00			1.00			1.00		1.0	O ·
ApprAdjDel:					10.0			8.3		9.	3 .
LOS by Appr:					В			A		A	

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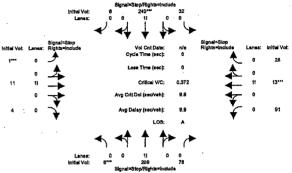
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### Merica Science Con

### November 2003

Level Of Service Computation Report 2000 HCM 4-Way Stop (Future Volume Alternative) 2010 Plus Phase 1 PM

Intersection #18: Western/Meder [N/S: Western E/w: Meder]



Approach:	Mar	-th D	ound	Con	seb Bo	nund.	ъ.	et De	und	We	st Bo	nund.
Movement:			- R			- R			- R			- R
Movement:	ь.	- T	- K	1	- 1	- K						
Min. Green:	. 0	0	0	. 0	0	. 0	0	0	0	. 0	0	0
Volume Modul			,	1						1		
Base Vol:		179	71	29	213	5	1	10	-4	83	12	25
Growth Adj:					1.10				1.10			
Initial Bse:				32	234	6	1.10		4		13	28
Added Vol:		12		0		-		0	0			0
Campus Incr:				ŏ			Ö				_	ő
Initial Fut:					240		1		4	-		28
		1.00				1.00						
User Adj:					1.00		1.00		1.00			
PHF Adj:		1.00		32	240		1.00		4			28
PHF Volume:		209 0						11	0		13	. 28
Reduct Vol:	_	-	_	-0	0	0	1		-	-	-	
Reduced Vol:				3,2	240	6						
PCE Adj:										1.00		
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Final Vol.:	. 6	209	78.	. 32	240	6	. 1	11	4.			
Saturation F												
Adjustment:												
Lanes:												
Final Sat.:			210		657			410				
Capacity Ana												
Vol/Sat:		0.37	0.37	0.37		0.37		0.03	0.03	0.21		0.21
Crit Moves:					****		****				****	
Delay/Veh:					10.1		8.3		8.3			9.4
Delay Adj:					1.00			1.00	1.00			1.00
AdjDel/Veh:					10.1		8.3		8.3	9.4		9.4
LOS by Move:	A	A	A	В		В	A		A	A		A
ApproachDel:		9.9			10.1			8.3			9.4	
		1.00			1.00			1.00			1.00	
ApprAdjDel:		9.9			10.1			8.3			9.4	
LOS by Appr:					В			A			A	

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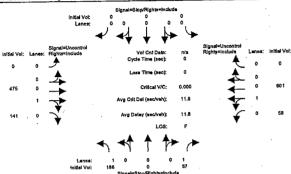
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### Marine Science Center

Level Of Service Computation Report 2000 HCM Unsignalized (Future Volume Alternative)

Intersection #19: High/Western (N/S: Western E/w; High)



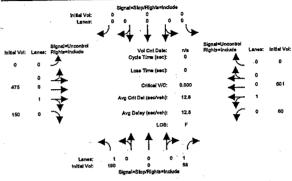
Approach:	North Bound South Bound					und		ışt Bo			st Bo	
Movement:	L -	т	- R	L.	- T	- R	L -	T	- R	ъ-	T	- R
	i			1		1	1		1	1		
Volume Module				•								
Base Vol:	169	0	52	0	0	0	0	432	128		546	0
Growth Adi:	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10		1.10		1.10
Initial Bse:	186	0	57	0	0	0	0	475	141	58	601	0
Added Vol:	0	0	.0	0	0	0	0	0	0	0	0	0
Campus Incr:	0	0	0	0	, 0	0	0	0	0	0	0	0
Initial Fut:	186	0	57	0	0	0	0	475	141	58		0
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00		1.00		1.00		1.00 .
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00		1.00
PHF Volume:	186	0	57	0	0	0	0	475	141	58	601	0
Reduct Vol:	0	0	0	0	0	0	0	0	. 0	0	0	0
Final Vol.:	186	0	57	0	0	0	0	475	141	58	601	0
Critical Gap	Modu:	le:										
Critical Gp:									XXXXX			XXXXXX
FollowUpTim:	3.5	XXXX	3.3	XXXXX	XXXX	XXXXX	XXXXX	XXXX	XXXXXX			XXXXX
				[]		<b>-</b>						
Capacity Mod	ule:											
Cnflict Vol:		XXXX	546	XXXXX	XXXX	XXXXX			XXXXX			XXXXX
Potent Cap.:	189	XXXX	542	XXXX	XXXX	XXXXXX	XXXX	XXXX	XXXXX			200000
Move Cap.:		xxxx		XXXX	XXXX	XXXXX	XXXX	XXXX	XXXXX			XXXXX
	l											
Level Of Ser	vice '	Modul	₽;									
Stopped Del:	128.6	XXXX	12.4	XXXXX	XXXX	XXXXXX	XXXXX	XXXXX	XXXXX	8.9		XXXXXX
LOS by Move:				*		*	*	*	. *	A	*	*
Movement:			- RT	LT	- LTR	- RT	LT	- LTR	- RT		- LTR	
Shared Cap .:	xxxx	XXXX	xxxxx	XXXX	XXXX	XXXXX			XXXXX			XXXXX
Shrd StpDel:	XXXXX	XXXX	XXXXX	XXXXX	XXXX	XXXXX	200000	XXXXX	XXXXXX			XXXXXX
Shared LOS:	*	*	*	*	*	*	*	*	*	A	*	*
ApproachDel:		101.2		×	xxxxx		ж	XXXXX		30	XXXXX	
ApproachLOS:		F			- 1			*	-		*	

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### Marine Science Cente

Level Of Service Computation Report 2000 HCM Unsignalized (Future Volume Alternative) 2010 Plus Phase 1 AM

Intersection #19: High/Western [N/S: Western E/w: High]



	mine	g VOI;	Signal	=Stop/Right	a=include	-						
Approach:	No	rth Bo	und	Sou	ith Bo	und	Ea	st Bo	und	Wé	st Bo	nund
Approach: Movement:		m		7.	. Т	- P	Τ		- K	ъ -	. 1	- K
Volume Module							1					
Hase Vol:	169	. 0	52	0		. 0		432			546	
Growth Adj:				1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
							o o	475	141	58	601	0
Initial Bse: Added Vol: Campus Incr: Initial Fut:	- 4	ō	1	0	0	. 0		0		2		
Commun Incr:	ā	. 0	0	ō	ō	0			0			0
Initial Fut:	100	ő	58	ō	0	0			150		601	0
User 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
PHF 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
PHF Volume:	100	1.00					0	475	150	60	601	0
Deduct Vol.			0	D	0.	0	Ó	0	0	0	0	0
Final Vol.:	100	,	5.8	ň	ō	ō		475			601	0
Gultilani Com	Made	٦										
Critical Gap	Mouu.	70:	6 2	*****	xxxx	xxxxx	xxxxx	XXXX	xxxxx	4.1	XXXX	XXXXX
FollowUpTim:	0.4	*****	2 2	~~~~	****	XXXXX	XXXXX	XXXX	XXXXXX	2.2	XXXX	XXXXX
FOILOWUDILM:	3.5	XXXX	٠.٠٠	U			1			11		
				11		,				' '		•
Capacity Mode Caflict Vol:	116:				••••	*****	YYYY	xxxx	xxxxx	625	XXXX	XXXXX
Potent Cap.:	1271	XXXX	550	****	~~~	******	****	vvvv	XXXXX	966	XXXX	XXXXX
Potent Cap.:	187	XXXX	539	XXXX	****	******	****	****	YYYYY	966		xxxxx
Move Cap.:	. 178	XXXXX	539	XXXX	2022	****						
				{			11					•
Level Of Ser	vice	Module	<b>}</b> :					******	*******	9.0	vvvv	200000
Stopped Del:	140.5	XXXX	12.5	XXXXXX	XXXX	XXXXX	XXXX	***	*	3.0	*	
LOS by Move:		*	В	*								- RT
Movement:	ЪT	- LTR	- RT	LT	~ LTR	- RT	LT	- 1,1K	- KI			XXXXX
Shared Cap.:	XXXX	30000	2000000	XXXXX	SOCIO	XXXXX	COCOC	3000X	XXXXX			XXXXX
Shrd StpDel:	XXXXXX	XXXX	XXXXXX	XXXXXX	SOCIO	XXXXX	XXXXX	XXXX	*		***	
Shared LOS:	*					*						
				•	vvvvv		. x	XXXXX		×	XXXXX	
ApproachLOS:		110.5		^								

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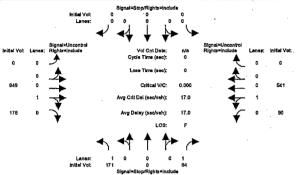
### nos Center

### November 2003 Service Computation Report

Lavel Of Service Computation Report

1000 HCM Unsignalized (Future Volume Alternative

Intersection #19: High/Western [N/S: Western E/w: High]



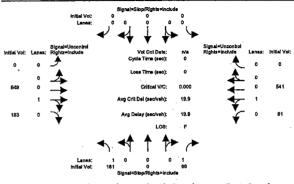
aignai=sioprugna=incuos												
Approach:	No:	rth B	ound	Sou	ith B	bruc	E	ast B	ound	W	est Bo	ound
Movement:	L.	- т	- R	L ·	- T	- R	ь	- Т	- R	L ·	- T	- R
Volume Module	· •:											
Base Vol:	155	0	58	0	0	0	0	590	162	82	492	0
Growth Adj:	1.10	1.10	1.10	1.10	1.10	1.10	. 1.10	1.10	1.10	1.10	1.10	1.10
Initial Bse:	171	0	64	0	0	0	0	649	178	90	541	0
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Campus Incr:	0	0	0	0	0	0	0	Ó	0	0	0.	0
Initial Fut:	171	0	64	0	0	0	0	649	178	90	541	0
User 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
PHP 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
PHF Volume:	171	0	64	0	0	0	0	649	178	90	541	0
Reduct Vol:	0	0	0	0	0	0	0	. 0	0	Q.	0	. 0
Final Vol.:	171	0	64	0	0	0	0	649	178	90	541	0
Critical Gap	Modu	le:										
Critical Gp:	6.4	XXXX	6.2	XXXXX	XXXX	XXXXX	XXXXX	XXXX	жжж	4.1	xxx	XXXXX
FollowUpTim:	3.5	xxxx	3.3	XXXXXX	xxxx	xxxxx	xxxxx	xxxx	XXXXXX	2.2	XXXX	XXXXX
				11			11					
Capacity Modu				• •			• •			•		
Cnflict Vol:	1460	xxxx	738	XXXX	xxxx	xxxxx	XXXX	XXXX	XXXXX	827	XXXX	XXXXXX
Potent Cap.:	144	30000	421	XXXX	xxxxx	xxxxx	XXXX	xxxx	XXXXX	813	XXXX	XXXXXX
Move Cap.:		xxxx		XXXX	xxxx	xxxx	XXXX	XXXX	2000000	813	XXXX	XXXXX
				11			11			1		
Level Of Serv				٠.			• •			•		
Stopped Del:2	244.8	xxxx	15.1	xxxx	XXXX	XXXXX	XXXXX	xxxx	XXXXX	10.0	жжж	XXXXX
LOS by Move:				*	*	*	*	*	*	A	*	. *
Movement:				LT ·	- LTR	- RT	LT ·	- LTR	- RT	LT ·	- LTR	- RT
Shared Cap.:				XXXX	xxxx	XXXXX	XXXXX	XXXX	xxxxx	XXXX	xxxx	XXXXX
Shrd StpDel:>								xxxx	xxxxx	10.0	XXXX	XXXXX
Shared LOS:	*			*		*	*	*	*	A	*	*
		182.2		x	cocci		. x	XXXXX		. x	xxxxx	
ApproachLOS:		F			1 *			*			*	

Marine Science C

November 2003

Level Of Service Computation Report 2000 HCM Unsignatized (Future Volume Afternative) 2010 Plus Phase 1 PM

Intersection #19: High/Western [N/S: Western E/w: High]



Approach:	No	rth Bo	ound	Son	uth Bo	bund	É	ast Bo	ound		est Bo	
Movement:												
Volume Module	e:											
Base Vol:								590		82	492	. 0
Growth Adj:	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
Initial Bse:	171	0	64	0	0	٥	0	649	178	90	541	0
Added Vol:					0	. 0	0	0	. 2	1	0	0
Campus Incr:	0	. 0	0	0				0	0	0	. 0	0
Initial Fut:								649		91	541	
User 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
PHF 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
PHF Volume:	181	0	66	0	0	0	0	649	183	91	541	0
Reduct Vol:	0	. 0	0		. 0			0	0			0
Final Vol.:	181	0	66	0	0	0	Q	649	183	91	541	.0
Critical Gap	Modu.	le:										
Critical Gp:	6.4	20000	6.2	XXXXX	XXXX	XXXXX	XXXXXX	XXXX	XXXXXX	4.1	20000	XXXXXX
FollowUpTim:	3.5	XXXX	3.3	XXXXX	XXXX	XXXXX	XXXXXX	20000	XXXXX	2.2	XXXX	XXXXX
Capacity Modi	ile:											
Cuflict Vol:	1464	200000	741	XXXX	XXXXX	XXXXX	XXXX	XXXXX	XXXXXX	832	XXXX	XXXXX
Potent Cap.:	143	XXXX	420	XXXXX					XXXXX		XXXX	XXXXX
Move Cap.:	130	XXXX	420	200000	XXXX	XXXXXX	XXXXX	XXXX	XXXXXX	809	XXXX	XXXXX
Level Of Serv	vice 1	Module	2:									•
Stopped Del:2	278.8	XXXX	15.2	XXXXX	XXXX	2000000	XXXXX	XXXX	XXXXX	10.0	XXXX	XXXXX
LOS by Move:	F	*	C	*	*	•	*	*	*	В	*	*
Movement:	LT ·	- LTR	- RT	LT ·	- LTR	- RT	LT ·	- LTR	- RT	LT ·	- LTR	- RT
Shared Cap.:	жжж	XXXXX	XXXXX	XXXX	XXXX	XXXXXX	XXXXX	XXXX	300000	XXXX	XXXXX	XXXXX
Shrd StpDel:	XXXXX	XXXX	XXXXX	XXXXXX	XXXX	XXXXXX	XXXXX			10.0	XXXX	XXXXXXX
Shared LOS:	*	*	*	*	*	*	*	*	*	В	*	*
ApproachDel:		208.4		X	XXXXX		x	CCCCC		30	00000	
ApproachLOS:		F			. *			*			*	

Approach:

Movement:

Base Vol:

Added Vol:

Campus Incr:

Reduct Vol:

Saturation Flow Module:

Capacity Analysis Module:

DesignQueue: 9 15

PCE Adi:

MLF Adj:

Lanes:

Volume Module:

Intersection #20: High/Bay [N/S: Bay E/w: High] mital Vol Lanes

North Bound

L - T - R

241 405 100

Initial Bse: 265 446 110 107 144

Initial Fut: 265 446 110 107 144

PHF Volume: 265 446 110 107 144

****

Reduced Vol: 265 446 110 107. 144 47

0

n

n

0 0 0

Bast Bound

0.00

0

73 265 161

73 265 161

0

73 265 161

0

O

L - T - R L - T - R

66 241 146 64 279 458

73 265 161 70 307 504

0

0

West Bound

0 0 0

0 - 0

70 307

70 307

0 0

70 307

504

Critical V/C: Avg Crit Del (sec/veh):

South Bound

L - T - R 

97 131

0 ٥

n 0

0 0 0 

Final Vol.: 265 446 110 107 144 47 73 265 161 70 307 504 _____

Adjustment: 0.93 0.90 0.90 0.93 0.90 0.90 0.83 0.83 0.83 0.86 0.86 0.83

Final Sat: 1769 2752 680 1769 2565 842 341 1244 1583 305 1330 1583

Vol/Sat: 0.15 0.16 0.16 0.06 0.06 0.06 0.21 0.21 0.10 0.23 0.23 0.32

Green/Cycle: 0.27 0.27 0.27 0.10 0.10 0.10 0.52 0.52 0.52 0.52 0.52 Volume/Cap: 0.56 0.61 0.61 0.61 0.56 0.56 0.41 0.41 0.19 0.44 0.44 0.61 Delay/Veh: 27.0 26.9 26.9 40.7 36.6 36.6 11.9 11.9 10.3 12.2 12.2 14.7 AdjDel/Veh: 27.0 26.9 26.9 40.7 36.6 36.6 11.9 11.9 10.3 12.2 12.2 14.7

4 6 2

****

4

47

47 

47

1.00 1.60 0.40 1.00 1.51 0.49 0.21 0.79 1.00 0.19 0.81 1.00

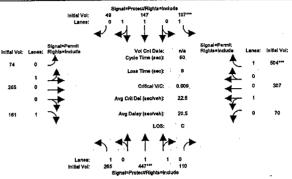
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## Nevember 2003

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) 2010 Plus Phase 1 AM

Intersection #20: High/Bay [N/S: Bay E/w: High]



Approach:	North Bound			ith Bo			st Bo			st Bo		
Movement:	ъ.	· T		L ·	- Т	- R	. ե	- т	- R	_ L -	· T	- R
	1						1			1		
Min. Green:	0	. 0	0	.0	ö	. 0	. 0	0	0	. 0	0	0
	]											
Volume Module	e:											
Base Vol:	241	405	100	97	131		66	241	146	64	279	458
Growth Adj:	1.10	1.10	1.10	1.10	1.10	1.10	1.10		1.10	1.10		1.10
Initial Bse:	265	446	110	107	144	47	73	265	161	70	307	504
Added Vol:	0	1	0	0	3	2	1	0	0	0	. 0	0
Campus Incr:	0	0	0	0	. 0	0	0	0	٥	0	0	. 0
Initial Fut:	265	447	110	107	147	49	74	265	161	70	307	504
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00		1.00
PHF Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	265	447	110	107	147	49	74	265	161	70	307	504
Reduct Vol:	0	. 0	0	0	Ò	0	0	0	0	0	0	0
Reduced Vol:	265	447	110	107	147	49	74	265	161	70	307	504
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00
MLF Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.:	265	447	110	107	147	. 49	74	265	161	70	307	504
	1			1	.j		1			1		
Saturation F	low M	odule	. '	•		•	•		, .			
Sat/Lane:		1900		1900	.1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:		0.90	0.90	0.93	0.90	0.90	0.83	0.83	0.83	0.86	0.86	0,.83
Lanes:		1.60	0.40	1.00	1.50	0.50	0.22	0.78	1.00	0.19	0.81	1.00
Final Sat.:		2753	678	1769	2549	854	344	1240	1583	305	1328	1583
						1	1					
Capacity Ana	lvsis	Modu	le:	•			•					
Vol/Sat:		0.16		0.06	0.06	0.06	0.21	0.21	0.10	0.23	0.23	0.32
Crit Moves:	0.1-0	****		***								***
Green/Cycle:	0.26	0.27	0.27	0.10	0.10	0.10	0.52	0.52	0.52	0.52	0.52	0.52
Volume/Cap:		0.61	0.61		0.57	0.57	0.41	0.41	0.19	0.44	0.44	0.61
Delay/Veh:		26.9	26.9		36.5		11.9	11.9	10.3	12.2	12.2	14.7
User DelAdj:			1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	27.2		26.9		36.5	36.5		11.9	10.3	12.2	12.2	14.7
DesignQueue:			4	4	6		2	6	3	2	7	11
nestardnene:	,	13	-	-	•	~	_	-	-			

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### Marine Science Cent

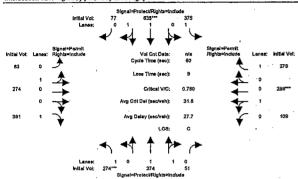
November 2003

Level Of Service Computation Report

2000 HCM Operations (Future Volume Alternative)

2010 No Project PM

Intersection #20; High/Bay [N/S: Bay E/w: High]



Approach:	No:	rth Bo	und					ast Bo			est Bo	
Movement:			- R	. ь .	т,	- R	. L		- R		- т	
	!											
Min. Green:	. 0	0	۰,	. 0	0	0	, 0	0	. 0,	, 0	0	٠,
Volume Module				1								
Base Vol:	249	340	46	341	577	70	75	249	355	99	260	254
	1.10		1.10		1.10	1.10		1.10	1.10		1.10	1.10
Initial Bse:		374	51	375	635	77	83	274	391	109	286	279
Added Vol:	2/4	3/4	0	3/3	033	,,		0	0	109	200	2/2
Campus Incr:	-	0	Ö	0	ő	0	ő	ŏ	. 0	Ö	0	Ô
Initial Fut:		374	51	375	635	77	83	274	391	109		279
User Adi:		1.00	1.00		1.00	1.00		1.00	1.00		1.00	1.00
PHF Ad1:		1.00	1.00		1.00	1.00		1.00	1:00		1.00	1.00
PHF Volume:	274	374	51	375	635	77	83	274	391		286	279
Reduct Vol:	2 / 4	3/4	31	3/3	.033	,,	0		- ĵ	-00	. 200	- 0
Reduced Vol:	-	374	51	375	635	77	83	274	391	109	286	279
PCE Adi:		1.00	1.00		1.00	1.00		1.00	1.00		1.00	1.00
MLF Adi:		1.00	1.00		1.00	1.00		1.00	1.00		1.00	1.00
Final Vol.:		374	51		635	77	83	274	391	109		279
Saturation F				•		,	'			•		
Sat/Lane:		1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:			0.91	0.93	0.92	0.92		0.70	0.83	0.66	0.66	0.83
Lanes:		1.76	0.24		1.78	0.22	0.23	0.77	1.00	0.28	0.72	1.00
Final Sat :		3060	414		3105	377		1020	1583	345		1583
							1			1		
Capacity Ana	lvsis	Modu 3	le:			,	•			•		
Vol/Sat:		0.12		0.21	0.20	0.20	0.27	0.27	0.25	0.32	0.32	0.18
Crit Moves:	****				****						****	
Green/Cycle:	0.20	0.17	0.17	0.30	0.27	0.27	0.42	0.42	0.42	0.42	0.42	0.42
Volume/Cap:	0.76	0.71	0.71	0.71	0.76	0.76	0.65	0.65	.0.59	0.76	0.76	0.43
Delay/Veh.	39.2	35.1	35.1	29.3	3₫.6	30.6	21.4	21.4	19.7	26.5	26.5	17.1
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00
AdjDel/Veh:	39.2	35.1	35.1	29.3	30.6	30.6		21.4	19.7		26.5	17.1
DesignQueue:	10	14	2	12	22	3	2	7	11	3	8	8

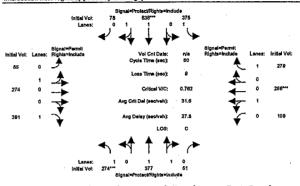
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November 2003

Level Of Service Computation Report 2000 HCM Operators (Future Volume Alternative) 2010 Ptus Phase 1 PM

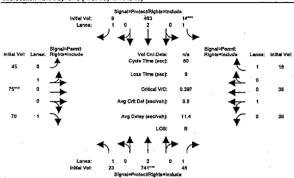
Intersection #20: High/Bay [N/S: Bay E/w: High]



Approach:	No	rth Bo	ound				Ei	ISC BO	ound				
Movement:													
												0	
Base Vol:													
Growth Adj:													
Initial Bse:													
Added Vol:	0	j j	0	0	1								
Campus Incr:	0	0	0	0	0								
Initial Fut:	274	377	51	375	636								
User Adj:	1.00	1.00	1.00	1.00	1.00								
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
PHF Volume:	274	377	51	375	636			274	391				
Reduct Vol:	0	0	0	0	. 0	0		0	0	0	-		
Reduced Vol:				375	636	78		274					
PCE Adj:	1.00	1.00	1.00										
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00					
Final Vol :	274	377	51	375	636								
Saturation Fl	Low Mo	odule	:										
Sat/Lane:													
Lanes:													
Final Sat.:	1769	3063	411										
Capacity Anal	Lysis	Modu.	le:										
Vol/Sat:		0.12	0.12	0.21			0.27	0.27	. 0.25	0.32		0.18	
Crit Moves:													
Green/Cycle:	0.20	0.17											
Volume/Cap:													
Delay/Veh:													
DesignQueue:	10	14	2	12	22	3	2	7	11	3	8	8	
	Min. Green: Volume Module Base Vol: Growth Adj: Initial Bse: Added Vol: Campus Incr: Initial Fut: User Adj: PHF Adj: PHF Volume: Reduced Vol: PCE Adj: MLF Adj: Final Vol.: Saturation F: Sat/Lane: Adjustment: Lanes: Final Sat.: Capacity Anal Vol/Sat: Crit Moves: Green/Cycle: Volume/Cap: Delay/Veh: User Deladj: AdjDel/Veh:	Movement: L  Min. Green: 0  Nolume Module: Base Vol: 249 Growth Adj: 1.10 Initial Bse: 274 Added Vol: 0 Campus Incr: 0 Initial Fut: 274 User Adj: 1.00 PHF Adj: 1.00 PHF Volume: 274 Reduct Vol: 274 PCE Adj: 1.00 Final Vol: 274 Saturation Flow Mar/Lane: 1900 Adjustment: 0.93 Lanes: 1.00 Final Sat.: 1769 Capacity Analysis Vol/Sat: 0.15 Crit Moves: 476 Delay/Veh: 39.3 User DelAdj: 1.00 Reduced Vol: 274 Saturation Flow Most/Lane: 1900 Adjustment: 0.93 Lanes: 1.00 Final Sat.: 1769 Capacity Analysis Green/Cycle: 0.20 Volume/Capa: 0.76 Delay/Veh: 39.3 User DelAdj: 1.00 Adjpel/Veh: 39.3	Movement: L - T  Min. Green: 0 0  Volume Module: Base Vol: 249 340 Growth Adj: 1.10 1.10 Initial Bse: 274 374 Added Vol: 274 377 User Adj: 1.00 1.00 PHF Adj: 1.00 1.00 PHF Adj: 1.00 1.00 PHF Volume: 274 377 Reduct Vol: 0 0 Reduced Vol: 274 377 PCB Adj: 1.00 1.00 Final Vol: 274 377 CB Adj: 1.00 1.00 Final Vol: 274 377 CB Adj: 1.00 1.00 Final Vol: 274 377 CB Adj: 1.00 1.00 Final Vol: 274 377 CB Adj: 1.00 1.00 Final Vol: 274 377 CB Adj: 1.00 1.00 Final Vol: 274 377 CB CB Adj: 1.00 1.00 Final Vol: 274 377 CB Adj: 1.00 1.00 Final Vol: 274 377 CB Adj: 1.00 1.00 Final Sat: 1.00 1.00 Final Sat: 1.00 1.00 Final Sat: 1.00 1.00 Final Sat: 1.00 1.00 Final Sat: 1.00 1.00 Final Sat: 1.00 1.00 Final Sat: 1.00 1.00 Final Sat: 1.00 1.00 Final Sat: 1.00 1.00 Final Sat: 1.00 1.00 Final Sat: 1.00 1.00 Final Sat: 1.00 1.00 Final Sat: 1.00 1.00 Final Sat: 1.00 1.00 Final Sat: 1.00 1.00 Final Sat: 1.00 1.00 Final Sat: 1.00 1.00 Final Sat: 1.00 1.00 Final Sat: 1.00 1.00 Final Sat: 1.00 1.00 Final Sat: 1.00 1.00 Final Sat: 1.00 1.00 Final Sat: 1.00 1.00 Final Sat: 1.00 1.00 Final Sat: 1.00 1.00 Final Sat: 1.00 1.00 Final Sat: 1.00 1.00 Final Sat: 1.00 1.00 Final Sat: 1.00 1.00 Final Sat: 1.00 1.00 Final Sat: 1.00 1.00	Movement: L - T - R  Min. Green: 0 0 0 0  Volume Module: Base Vol: 249 340 46 Growth Adj: 1.10 1.10 1.10  Initial Bse: 274 374 51 Added Vol: 0 3 0  Campus Incr: 0 0 0 0  Initial Fut: 274 377 51  User Adj: 1.00 1.00 1.00  PHF Adj: 1.00 1.00 1.00  PHF Volume: 274 377 51  Reduct Vol: 0 0 0 0  Reduced Vol: 274 377 51  PCE Adj: 1.00 1.00 1.00  PLF Adj: 1.00 1.00 1.00  PLF Adj: 1.00 1.00 1.00  PLF Adj: 1.00 1.00 1.00  PLF Adj: 1.00 1.00 1.00  FINE Adj: 1.00 1.00 1.00  FINE Adj: 1.00 1.00 1.00  FINE Adj: 1.00 1.00 1.00  FINE Adj: 1.00 1.00 1.00  FINE Adj: 1.00 1.00 1.00  FINE Adj: 1.00 1.00 1.00  FINE Adj: 1.00 1.00 1.00  FINE Adj: 1.00 1.00 1.00  FINE Adj: 1.00 1.00 1.00  FINE Adj: 1.00 1.00 1.00  FINE Adj: 1.00 1.00 1.00  FINE Adj: 1.00 1.00 1.00  FINE Adj: 1.00 1.00 1.00  FINE Adj: 1.00 1.00 1.00  FINE Adj: 1.00 1.00 1.00  FINE Adj: 1.00 1.00 1.00  FINE Adj: 1.00 1.00 1.00  FINE Adj: 1.00 1.00 1.00  FINE Adj: 1.00 1.00 1.00  FINE Adj: 1.00 1.00 1.00  FINE Adj: 1.00 1.00 1.00  FINE Adj: 1.00 1.00 1.00  FINE Adj: 1.00 1.00  FINE Adj: 1.00 1.00  FINE Adj: 1.00 1.00  FINE Adj: 1.00 1.00  FINE Adj: 1.00 1.00  FINE Adj: 1.00 1.00  FINE Adj: 1.00 1.00  FINE Adj: 1.00 1.00  FINE Adj: 1.00 1.00  FINE Adj: 1.00 1.00  FINE Adj: 1.00 1.00  FINE Adj: 1.00 1.00  FINE Adj: 1.00 1.00  FINE Adj: 1.00 1.00  FINE Adj: 1.00 1.00  FINE Adj: 1.00  FINE Adj: 1.00  FINE Adj: 1.00  FINE Adj: 1.00  FINE Adj: 1.00  FINE Adj: 1.00  FINE Adj: 1.00  FINE Adj: 1.00  FINE Adj: 1.00  FINE Adj: 1.00  FINE Adj: 1.00  FINE Adj: 1.00  FINE Adj: 1.00  FINE Adj: 1.00  FINE Adj: 1.00  FINE Adj: 1.00  FINE Adj: 1.00  FINE Adj: 1.00  FINE Adj: 1.00  FINE Adj: 1.00  FINE Adj: 1.00  FINE Adj: 1.00  FINE Adj: 1.00  FINE Adj: 1.00  FINE Adj: 1.00  FINE Adj: 1.00  FINE Adj: 1.00  FINE Adj: 1.00  FINE Adj: 1.00  FINE Adj: 1.00  FINE Adj: 1.00  FINE Adj: 1.00  FINE Adj: 1.00  FINE Adj: 1.00  FINE Adj: 1.00  FINE Adj: 1.00  FINE Adj: 1.00  FINE Adj: 1.00  FINE Adj: 1.00  FINE Adj: 1.00  FINE Adj: 1.00  FINE Adj: 1.00  FINE Adj: 1.00  FINE Adj: 1.00  FINE Adj: 1.00	Movement: L - T - R L	Movement: L - T - R L - T  Min. Green: 0 0 0 0 0 0 0  Volume Module:  Base Vol: 249 340 46 341 577  Growth Adj: 1.10 1.10 1.10 1.10 1.10  Initial Bse: 274 374 51 375 635  Added Vol: 0 3 0 0 1  Campus Incr: 0 0 0 0 0 0  Initial Fut: 274 377 51 375 636  User Adj: 1.00 1.00 1.00 1.00 1.00 1.00  PHF Adj: 1.00 1.00 1.00 1.00 1.00 1.00  PHF Volume: 274 377 51 375 636  Reduct Vol: 0 0 0 0 0 0  Reduced Vol: 274 377 51 375 636  FCE Adj: 1.00 1.00 1.00 1.00 1.00 1.00  FINITIAL VOLUME: 274 377 51 375 636  FCE Adj: 1.00 1.00 1.00 1.00 1.00 1.00  Final Vol: 274 377 51 375 636  FCE Adj: 1.00 1.00 1.00 1.00 1.00 1.00  Final Vol: 274 377 51 375 636  FCE Adj: 1.00 1.00 1.00 1.00 1.00  Final Vol: 274 377 51 375 636  FCE Adj: 1.00 1.00 1.00 1.00 1.00 1.00  Final Vol: 274 377 51 375 636  FCE Adj: 1.00 1.00 1.00 1.00 1.00 1.00  Final Vol: 274 377 51 375 636  FCE Adj: 1.00 1.00 1.00 1.00 1.00 1.00  Final Vol: 274 377 51 375 636  FCE Adj: 0.10 0.00 1.00 1.00 1.00 1.00  Final Vol: 274 377 51 375 636  FCE Adj: 0.00 1.00 1.00 1.00 1.00 1.00  Final Vol: 274 377 51 375 636  FCE Adj: 0.00 1.00 1.00 1.00 1.00 1.00  Final Vol: 274 377 51 375 636  FCE Adj: 0.00 1.00 1.00 1.00 1.00 1.00  Final Vol: 274 377 51 375 636  FCE Adj: 0.00 1.00 1.00 1.00 1.00 1.00  Final Vol: 274 377 51 375 636  FCE Adj: 0.00 1.00 1.00 1.00 1.00 1.00  FINITIAL VOL: 274 377 51 375 636  FCE Adj: 0.00 1.00 1.00 1.00 1.00 1.00  FINITIAL VOL: 274 377 51 375 636  FCE Adj: 0.00 1.00 1.00 1.00 1.00 1.00  FINITIAL VOL: 274 377 51 375 636  FCE Adj: 0.00 1.00 1.00 1.00 1.00 1.00  FINITIAL VOL: 274 377 51 375 636  FCE Adj: 0.00 1.00 1.00 1.00 1.00 1.00  FINITIAL VOL: 274 377 51 375 636  FCE Adj: 0.00 1.00 1.00 1.00 1.00  FINITIAL VOL: 274 377 51 375 636  FCE Adj: 0.00 1.00 1.00 1.00 1.00  FINITIAL VOL: 274 377 51 375 636  FCE Adj: 0.00 1.00 1.00 1.00 1.00  FINITIAL VOL: 274 377 51 375 636  FCE Adj: 0.00 1.00 1.00 1.00 1.00  FINITIAL VOL: 274 377 51 375 375 636  FCE Adj: 0.00 1.00 1.00 1.00 1.00  FINITIAL VOL: 274 377 51 375 636  FCE Adj: 0.00 1.00 1.00 1.00 1.00  FINITIAL VOL: 27	Movement: L - T - R   L - T - R   Min. Green:   0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Movement:         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         N         D         P         P         C         O         Q         Q         Q         Q         Q         Q         Q         Q         Q         Q         D         D         T         T         R         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A	Movement:         L - T - R         L - T - R         L - T           Min. Green:         0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Movement:         L - T - R         L - T - R         L - T - R         L - T - R           Min. Green:         0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Movement: L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - T - R L - T - T - R L - T - T - R L - T - T - R L - T - T - R L - T - T - T - T - T - T - T - T - T -	Movement: L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T	Movement: L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R   L - T - R   L - T - R   L - T - R   L - T - R   L - T - R   L - T - R   L - T - R   L - T - R   L - T - R   L - T - R   L - T - R   L - T - R   L - T - R   L - T - R   L - T - R   Min. Green:

Lovel Of Service Computation Report
2000 HCM Operations (Future Volume Alternativa)
2010 No Project AM

Intersection #21: Bay/lowa [N/S: Bay E/w: lowa]



Approach:	No	rth Bo	ound	South Bound			E	ast Bo	und	We	est Bo	ound	
Movement:	L,	- T	~ R	L.	- T	- R	ъ	- T	- R	ь -	· T	- R	
Min. Green:	. 0					. 0,			0	. 0		0	
										1			
Volume Modul	e:												
Base Vol:	21	674	44	13	421	8	41	68	64	33	33	16	
Growth Adj:		1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	
Initial Bse:	23	741	48	14	463	9	45	75	70	36	36	18	
Added Vol:	0	0	0	0	0	0	0		0	0	0	0	
Campus Incr:	0	0	0	0	0	0	0	0.	0	0	0	0	
Initial Fut:	23	741	48	14	463	9	45	75	70	36	36	18	
User 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	
PHF Adj:	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	
PHF Volume:	28	893	58	17	558	11	54	90	85	44	44	21	
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0	
Reduced Vol:	28	893	58	17	558	11	54	90	85	44	44	21	
PCE Adj:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
MLF 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	
Final Vol.:	28	893	58	17		11	54		. 85	44	44	21	
						1							
Saturation F	low M	odule:											
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	
Adjustment:	0.93	0.93	0.83	0.93	0.93	0.83	0.84	0.84	0.83	0.80	0.80	0.83	
Lanes:	1.00	2.00	1.00	1.00	2.00	1.00	0.38	0.62	1.00	0.50	0.50	1.00	
Final Sat.:					3538	1583		1001			762	1583	
						1							
Capacity Ana	1убів	Modu]	le:										
Vol/Sat:	0.02	0.25	0.04	0.01	0.16	0.01	0.09	0.09	0.05	0.06	0.06	0.01	
Crit Moves:		****		****				****					
Green/Cycle:	0.06	0.64	0.64	0.02	0.60	0.60	0.23	0.23	0.23	0.23	0.23	0.23	
Volume/Cap:	0.26	0.40	0.06	0.40	0.26	0.01	0.40	0.40	0.24	0.25	0.25	0.06	
Delay/Veh:	37.2	7.2	5.5	44.3	7.6	6.4	27.0	27.0	25.6	25.8	25.8	24.3	
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
AdjDel/Veh:	37.2	7.2	5.5	44.3	7.6	6.4	27.0	27.0	25.6	25.8	25.8	24.3	
				_		_	_	_	_				

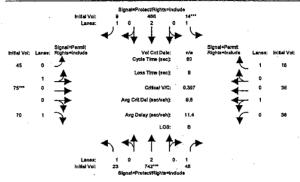
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Level Of Service Correction Report
2000 HCM Operations (Future Volume Atternative)
2010 Plus Phase 1 AM

Intersection #21; Bay/lowa [N/S: Bay E/w: lowa]



Approach:	North Bound				ith Bo		E	ast Bo	ound	We	est Bo	ound
Movement:			- R			- R			- R		- Т	- R
Min. Green:	o	0	0	. 0	- 0		. 0	0	0	. 0		
Volume Modul			1	1		1			1			
Base Vol:	21	674	44	13	421	8	41	68	64	33	33	10
Growth Adj:	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.1
Initial Bse:	23	741	48	14	463	9	45	75	70	36	36	1.
Added Vol:	0	1	0	0	3	0	0	0	0	0	0	
Campus Incr:	0	0	0	0	0	0	0	0	0	0	0	
Initial Fut:	23	742	48	14	466	9	45	75	70	36	36	1
User Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.0
PHF Adi:		0.83		0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.8
PHF Volume:			58	17		11	54	90	85	44	44	2
Reduct Vol:			0	0	0	0	0	0	0	0	0	
Reduced Vol:	28	894	. 58	17	562	11	54	90	85	44	44	2
PCE Adi:			1.00			1.00	1.00	1.00	1.00	1.00	1.00	1.0
MLF Adi:		1.00		1.00		1.00		1.00			1.00	1.0
Final Vol.:		894	58		.562				85	44	44	- 2
										1		
Saturation F				'			•		'			
Sat/Lane:	1900	1900.	1900	1900.	1900	1900	1900	1900	1900	1900	1900	190
Adiustment:	0.93	0.93	0.83	0.93	0.93	0.83	0.84	0.84	0.83	0.80	0.80	0.8
Lanes:		2.00		1.00	2.00	1.00	0.38	0.62	1.00	0.50	0.50	1.0
Final Sat.:			1583	1769				1001	1583	762	762	158
	1		1	1						1		
Capacity Anal				•			•			•		
Vol/Sat:		0.25		0.01	0.16	0.01	0.09	0.09	0.05	0.06	0.06	0.0
Crit Moves:		****		****				****				
Green/Cycle:	0.06	0.64	0.64	0.02	0.60	0.60	0.23	0.23	0.23	0.23	0.23	0.2
Volume/Cap:		0.40				0.01		0.40				0.0
Delay/Veh:			5.5			6.4		27.0			25.8	24.
User DelAdj:				1.00		1.00		1.00	1.00	1.00	1.00	1.0
AdjDel/Veh:				44.3		6.4		27.0				24.
DesignOueue:			1	1		0		3	3		2	

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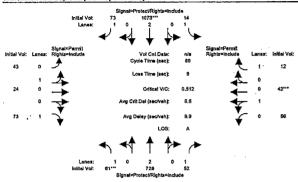
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### Marine Science Cente

Level Of Service Computation Report
2000 HGM Operations (Future Volume Alternative)
2010 No Project PM

Intersection #21: Bay/lowa [N/S: Bay E/w: lowa]



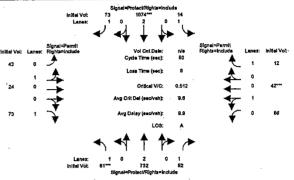
Approach: N	orth B	ound	South Bound				ast Bo	und	We	st Bo	und
Movement: L	- T	- R	L ·	_		L ·		- R	, L -	- T	- R
Min. Green:	0 0		0					1	1		0
Min. Green:									1	-	
Volume Module:								,	1		
	5 663	47	13	975	66	39	22	66	51	38	. 11
	0 1.10		1.10	1.10	1.10			1.10	1.10		1.10
	1 729	52		1073	73	43	24	73	56	42	12
	0 0	0	0	0	ō	0	0	0	0	0	0
Campus Incr:	0 0	0	0	0	0	0	0	0	0	0	0
	1 729	52	14	1073	73	43	24	73	56	42	12
User Adj: 1.0	0 1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj: 0.8	9 0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
PHF Volume: 6	8 819	58	16	1205	82	48	27	82	63	47	14
Reduct Vol:	0 0	0	0	0	0	0	0	. 0	0	0	0
Reduced Vol: 6	8 819	58	16	1205	82	48	27	82	63	47	14
PCE Adj: 1.0	0 1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj: 1.0	0 1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00
Final Vol.: 6	8 819	58		1205	82 .	48	27	82	63	47	14
Saturation Flow											
	0 1900			1900	1900		1900	1900	1900		1900
	3 0.93			0.93	0.83		0.74	0.83	0.77		0.83
	0 2.00	1.00			1.00		0.36	1.00	0.57		1.00
	9 3538			3538	1583	895	505	1583	837	623	1583
Capacity Analysi											
,	4 0.23	0.04	0.01	0.34	0.05	0.05	0.05	0.05	0.08	0.08	0.01
Crit Moves: ***				***							
Green/Cycle: 0.0				0.67	0.67		0.15	0.15		0.15	0.15
	1 0.33			0.51	0.08		0.37	0.35		0.51	0.06 29.5
Delay/Veh: 38.			42.0	7.0	4.8		31.9	31.6			1.00
User DelAdj: 1.0			1.00		1.00		1.00	1.00		1.00	29.5
AdjDel/Veh: 38.			42.0	7.0	4.8		31.9	31.6	33.5	33.5	29.5 1
DesignQueue:	3 11	1	1	20	1	2	1	3	2	2	

Marine Science Center

November 2003

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
2010 Plus Phase 1 PM

Intersection #21: Bay/lowa [N/S: Bay E/w: lowa]



Movement: L - T - R L - T - R	
	.
Min. Green: 0 0 0 0 0 0 0 0	0 0 0
	. [
Volume Module:	
Base Vol: 55 663 47 13 975 66 39 22 66	51 38 11
Growth Adj: 1.10 1.10 1.10 1.10 1.10 1.10 1.10 1.1	1.10 1.10 1.10
Initial Bse: 61 729 52 14 1073 73 43 24 73	56 42 12
Added Vol: 0 3 0 0 1 0 0 0	0 0 0
Campus Incr: 0 0 0 0 0 0 0 0	
Initial Fut: 61 732 52 14 1073 73 43 24 73	56 42 12
User Adi: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	1.00 1.00 1.00
PHF Add: 0.89 0.89 0.89 0.89 0.89 0.89 0.89 0.89	0.89 0.89 0.89
PHF Volume: 68 823 58 16 1206 82 48 27 82	63 47 14
Reduct Vol: 0 0 0 0 0 0 0 0	0 0 0
Reduced Vol: 68 823 58 16 1206 82 48 27 82	63 47 14
PCE Adi: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	1.00 1.00 1.00
MLF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	1.00 1.00 1.00
Final Vol.: 68 823 58 16 1206 82 48 27 82	63 47 14
	.[]
Saturation Flow Module:	
Sat/Lane: 1900 1900 1900 1900 1900 1900 1900 190	1900 1900 1900
Adjustment: 0.93 0.93 0.83 0.93 0.93, 0.83 0.74 0.74 0.83	
Lanes: 1.00 2.00 1.00 1.00 2.00 1.00 0.64 0.36 1.00	
Final Sat.: 1769 3538 1583 1769 3538 1583 895 505 1583	837 623 1583
Capacity Analysis Module:	.,
Vol/Sat: 0.04 0.23 0.04 0.01 0.34 0.05 0.05 0.05 0.05	0.08 0.08 0.01
Crit Moves: **** ****	****
Green/Cycle: 0.08 0.71 0.71 0.03 0.67 0.67 0.15 0.15 0.15	0.15 0.15 0.15
Volume/Cap: 0.51 0.33 0.05 0.33 0.51 0.08 0.37 0.37 0.35	
Delay/Veh: 39.0 4.4 3.4 42.0 7.0 4.8 31.9 31.9 31.6	33.6 33.6 29.5
User DelAdj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	
AdjDel/Veh: 39.0 4.4 3.4 42.0 7.0 4.8 31.9 31.9 31.6	
DesignQueue: 3 11 1 1 20 1 2 1	

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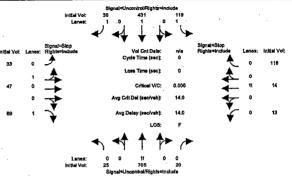
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## November 2003

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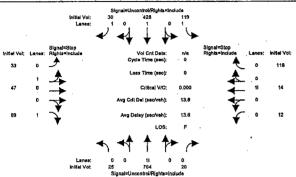
Intersection #22: Bay/Escalona [N/S: Bay E/w: Escalana]



			Signate	Jacontrol/Ri	ghts=Indu	de						
Approach:	No:	rth Bo	ound	So	uth B	ound	E	ast Bo	ound	We	est Bo	ound
									- R			
										:		
Volume Module	e:											
Base Vol:	23	640			389		30	43	63			107
Growth Adj:	1.10	1.10	1.10	1.10	1.10	1.10		1.10			1.10	
Initial Bse:		704			428	30	33		69			118
Added Vol:		1	. 0		3		0	-	0	1	_	0
Campus Incr:	0	. 0	0	0	0	0	0	•	0	0	-	0
Initial Fut:		705			431		33		69			
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	
PHF 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
PHF Volume:	25	705	20	119	431	30	33	47	69	13	14	118
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Final Vol.:	25	705	20	119	431	30	33	47	69	13	14	118
Critical Gap	Modu.	le:										
Critical Go:			XXXXXX					6.5	6.2	7.1	6.5	6.2
FollowUpTim:	2.2	XXXX	XXXXX	2.2	XXXX	XXXXXX	3.5	4.0	3.3	3.5	4.0	3.3
				11								1
Capacity Mode	ile:			' '			• •					
Cnflict Vol:		XXXX	XXXXX	725	20000	XXXXX	1500	1444	431	1507	1464	715
Potent Cap.:	1111	xxxx	XXXXXX	887	XXXX	XXXXX	101	133	629	100	130	434
Move Cap.:					XXXX	XXXXXX	59	113	629	53	110	434
				11			11				<b>-</b>	
Level Of Ser				•			• •					
Stopped Del:	8.3	XXXX	XXXXX	9.7	XXXX	XXXXX	XXXXX	XXXX	11.4	XXXXX	XXXX	XXXXX
LOS by Move:	A	*	*	A	*	*	*	*	В	*	*	*
Movement:			- RT	LT	- LTR	- RT	LT ·	- LTR	- RT	LT ·	- LTR	- RT
Shared Cap.:	XXXX	20000	XXXXX	20000	XXXX	XXXXX	82	XXXX	XXXXXX	XXXX	224	XXXXX
Shrd StpDel::	XXXXX	XXXXX	XXXXX	XXXXX	XXXX	XXXXXX	183.7	XXXX	XXXXXX	XXXXX	46.3	XXXXXX
Shared LOS:				*			F	*		*	E	*
ApproachDel:		xxxxx		x	xxxxx		:	103.9			46.3	
ApproachLOS:		*			*			F			В	

Level Of Service Computation Report 2000 HCM Unaignetized (Future Volume Alternative) 2010 No Project AM

Intersection #22: Bay/Escalona [N/S: Bay E/w: Escalana]



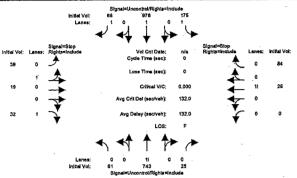
Approach: No	orth Bound	South Bo	ound	East Bound	West Bound	
Movement: L	- T - R	L - T	- R L	- T - R	L - T - R	
		11				-
Volume Module:					• •	
Base Vol: 23	640 18	108 389	27 3	0 43 63	11 13 10	7
Growth Adj: 1.10	1.10 1.10	1.10 1.10	1.10 1.1	0 1.10 1.10	1.10 1.10 1.10	כ
Initial Bse: 25	704 20	119 428	30 3	3 47 69	12 14 118	3
Added Vol: (	0 0	0 0	0	0 0 0	0 0 0	3
Campus Incr: (	0 0	0 0	0	0 0 0	0 0 .0	)
Initial Fut: 25	704 20	119 428	30 3	3 47 69	12 14 118	3
User Adj: 1.00	1.00 1.00	1.00 1.00	1.00 1.0	0 1.00 1.00	1.00 1.00 1.00	כ
PHF Adj: 1.00	1.00 1.00	1.00 1.00	1.00 1.0	0 1.00 1.00	1.00 1.00 1.00	3
PHF Volume: 25	704 20	119 428	30 3	3 47 69	. 12 14 118	8
Reduct Vol: (	0 0	0 0	0	0 0 0	0 0 0	)
Final Vol.: 25	704 20	119 428	30 3	3 47 69	12 14 118	3
Critical Gap Modu	ıle:					
Critical Gp: 4.3	L XXXX XXXXX	4.1 XXXX	xxxxx 7.	1 6.5 6.2	7.1 6.5 6.2	2
FollowUpTim: 2.2	2 XXXX XXXX	2.2 xxxx	xxxxx 3.	5 4.0 3.3	3.5 4.0 3.3	3
		1				-
Capacity Module:					• •	
Cnflict Vol: 458	XXXX XXXXX	724 xxxx	хэхжж 149	6 1440 428	1503 1460 714	í
Potent Cap.: 1114	XXXXXX XXXXX	888 2000	жжж 10	2 134 631	101 130 439	5
Move Cap.: 1114	XXXX XXXXX	888 xxxx	XXXXXX 5	9 113 631	54 110 439	5
			11			- [
Level Of Service	Module:		.,		• •	
Stopped Del: 8.3	XXXXX XXXXX	9.7 xxxx	XXXXX XXXX	x xxxx 11.4	X0000X X000X X0000	κ
LOS by Move: A	* *	A *		* B	* * *	
Movement: LT	- LTR - RT	LT - LTR	- RT LT	- LTR - RT	LT - LTR - RT	
Shared Cap.: xxxx	xxxxx xxxxx	XXXX XXXX	XXXXXX 8	2 xxxx xxxxx	XXXX 231 XXXX	X.
Shrd StpDel:xxxxx	K XXXX XXXXX	XXXXX XXXXX	XXXXXX 181.	O XXXXXXX XXXXXX	XXXXX 43.4 XXXXX	ĸ
Shared LOS: *	* *	* *	* F	* *	* E *	
ApproachDel: :	COCCCC	***************************************		102.4	43.4	
ApproachLOS:	*	1 *		F	E	

### Agrine Science Cent

## Level Of Service Computation Report

M Unsignalized (Future Volume Alternative)

Intersection #22: Bay/Escalona [N/S: Bay E/w: Escalana]



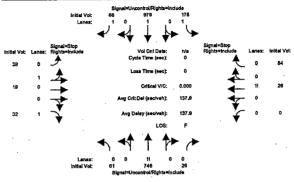
Approach: 1	orth B	ound	So	uth Bo	bnuc	. 12:	ast Bo	ound	We	est Bo	ound
		- R			- R			- R	7	· T	- R
Volume Module:			11			11			11 .		,
	5 675	23	159	889	62	35	17	29	0	24	76
	0 1.10			1.10	1.10			1.10	1.10		1.10
	1 743		175	978	68	39	19	32	0	26	84
Added Vol:	0 0		1,2	3/0	0.0	0	0		Ö	-0	0
	0 0	-	0	•	0	ŏ	0	0	0	0	Ô
Campus Incr: Initial Fut: 6		_	175	978	68		19	-	0	26	84
								1.00	-	1.00	
	0 1.00			1.00	1.00						
	0 1.00			1.00	1.00		1.00	1.00		26	1.00
	1 743		175	978	68	39	19	32	0		
Reduct Vol:	0 0	-	0	0	0	0	0	0	0	0	0
	1 743	25	175	978	68	39	19	. 32	0	26	84
Critical Gap Mod											
Critical Gp: 4	1 xxxx	XXXXXX	4.1	XXXXX	XXXXX				XXXXX		
FollowUpTim: 2.	2 xxxxx	XXXXXX	2.2	XXXX,	XXXXX	3.5	4.0	3.3	XXXXX	4.0	3.3
Capacity Module											
Cnflict Vol: 104	6 xxxx	XXXXX	768	XXXX	XXXXXX	2259	2217	978	XXXXX	2272	755
Potent Cap.: 6	3 20000	XXXXX	855	XXXX	XXXXX	30	44	. 307	XXXXX	41	412
Move Cap.: 6				xxxx	XXXXX	4	32	307	XXXXX	29	412
						11			11		
Level Of Service			• •			. ,					
Stopped Del: 10	9 xxxx	XXXXX	10.3	XXXX	XXXXX	XXXXX	XXXX	18.1	XXXXXX	XXXX	XXXXX
LOS by Move: 1	*	*	В	*	*	*	*	C-	*	*	*
Movement: L'	- LTE	- RT	LT	- LTR	- RT	LT	- LTR	- RT	LT ·	LTR	- RT
Shared Cap.: xxx	x xxxx	xxxxx	XXXX	XXXX	XXXXX	6	XXXX	XXXXXX	XXXXX	XXXX	100
Shrd StpDel::ppo				жжж	XXXXX	4868	XXXXX	XXXXX	xxxxx	xxxx	198.5
Shared LOS:		*	*	*	*	F.	*.	*	. *	*	F
ApproachDel:	xxxxxx	:	x	XXXXX		3	131.9			198.5	
ApproachLOS:	*			*			F			F	

_____

### .. . ....

### Level Of Service Computation Report 2000 HCM Unalgratized (Future Volume Alternative) 2010 Plus Phase 1 PM

Intersection #22: Bay/Escalona [N/S: Bay E/w: Escalana]



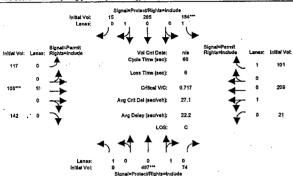
Approach:	No	rth B	ound	Sou	uth Bo	ound	E	ast Bo	ound	We	st Bo	ound
Movement:		- т	- R	L ·	- T	~ R	L ·	- T	- R	ь -	т	- R
	1						11					
Volume Modul	ė:									•		
Base Vol:	55	675	23	159	889	62	35	17	29		24	76
Growth Adj:	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10		
Initial Bse:	61	743	25	175	978	68	39	19	32	0	26	84
Added Vol:	0	3	1	0	1	0	0	0	0	0	0	0
Campus Incr:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	61	746	26	175	979	68	.39	19	32	0	26	84
User Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Ad:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:				175	979	68	39	19	32	0	26	64
Reduct Vol:	0	0	. 0	0	0	0	0	0	0	0	0	0
Final Vol.:		746	26	175	979	68	39	19	32	0	26	84
Critical Gap	Modu:	le:										
Critical Gp:	4.1	XXXXX	XXXXXX	4.1	xxxx	XXXXXX	7.1	6.5	6.2	xxxxx	6.5	6.2
FollowUpTim:	2.2	XXXXX	XXXXX	2.2	XXXX	XXXXX	3.5	4.0	3.3	XXXXX	4.0	3.3
				1								
Capacity Mod	ule:											
Cnflict Vol:	1047	XXXX	XXXXX	772	XXXX	XXXXX	2263	2221	979	XXXX	2277	
Potent Cap.:	672	XXXX	XXXXX	852	XXXX	XXXXX	29	44	306	XXXX	41	410
Move Cap.:	672	XXXXX	XXXXX	852	XXXX	XXXXX	4	32	306	300000	29	410
	1											
Level Of Ser	vice 1	Modul	e:									
Stopped Del:	10.9	XXXXX	XXXXXX	10.3	XXXX	XXXXX	XXXXXX	XXXX	18.1	XXXXXXX	XXXX	XXXXX
LOS by Move:						*			C	*		*
Movement:			- RT								- LTR	
Shared Cap.:	XXXX	XXXXX	XXXXXX	XXXX	XXXX	XXXXX	6	XXXX	XXXXXX	XXXX	XXXXX	99
Shrd StpDel:	ххххох	XXXX	200000	XXXXXX	XXXX	XXXXX	5111	XXXX	2000000	XOCICION	XXXX	201.7
Shared LOS:	*	*	*	*	*	*	-	*		*		F
ApproachDel:	×	XXXXX		×	XXXXX		3:	287.4		2	101.7	
ApproachLOS:		*			*			F			F	

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# November 2003 Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) 2010 No Project AM

Intersection #23: Bay/King [N/S: Bay E/w: King]

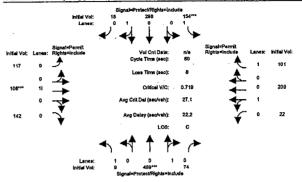


		rth Bo			ıth Bo		-	set Bo		M	est Bo	
Approach:	L -		- R		· T		L -		- R	ь		
Movement:	٠ .	- T	- K		· .							
Win Cusani	0	0	0	1		0	0		0	1	0	0
Min. Green:	, ,	U	٠,	, ,	U							
77-1 M-4-1	!		1			1	1		1	1		
Volume Module Base Vol:	a: 8	452	67	140	268	14	106	96	129	. 19	190	92
	1.10	1.10	1.10	1.10	1.10	1.10	1.10		1.10	1.10		1.10
Growth Adj: Initial Bse:	1.10	497	74	154	295	1.10	117	106	142	21	209	101
Added Vol:	0	497	/* 0	154	293	13	11,	100	. 0	20	200	-01
	0	0	0	0	0	0	0	0	. 0	0	0	0
Campus Incr:	9	_	74	154	295	15	117	106	142	21	209	101
Initial Fut:	-	497		1.00		1.00		1.00	1.00		1.00	1.00
User 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							209	101
PHF Volume:	9	497	74	154	295	15	117	106	142 0	21	209	101
Reduct Vol:	0	0	0	0	0	0		0	-	•	-	101
Reduced Vol:	9	497	74	154	295	15	117	106	142	21	209	1.00
PCE Adj:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	
MLF Adj:		1.00	1.00	1.00	1.00	1.00		1.00	1.00		1.00	
	و.		74	154	295	15	. 117	106	142	, 21	209	101
					,		[					
Saturation F												
Sat/Lane:		1900	1900		1900	1900		1900	1900		1900	1900
Adjustment:		0.96	0.96		0.97	0.97		0.73	0.73		0.94	0.83
Lanes:		0.87	0.13		0.95	0.05		0.29	0.39		0.91	1.00
Final Sat.:	1769	1591	236		1757	92	442	400	538	. 162	1620	1583
										1		
Capacity Anal												
Vol/Sat:	0.00	0.31	0.31		0.17	0.17	0.26	0.26	0.26	0.13	0.13	0.06
Crit Moves:		****		****				****				
Green/Cycle:	0.02	0.44	0.44	0.12	0.54	0.54		0.37	0.37		0.37	0.37
Volume/Cap:	0.31	0.72	0.72	0.72	0.31	0.31	0.72	0.72	0.72		0.35	0.17
Delay/Veh:	45.1	21.7	21.7	44.8	10.3	10.3	26.6		26.6		18.7	17.2
User DelAdj:	1.00	1.00	1.00	1.00		1.00	1.00		1.00		1.00	1.00
AdjDel/Veh:	45.1	21.7	21.7	44.8	10.3	10.3	26.6		.26 . 6		18.7	17.2
DesignQueue:	0	14	2	6	. 6	0	3	3	4	1	6	3
-												

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Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) 2010 Plus Phase 1 AM

Intersection #23: Bay/King [N/S: Bay E/w: King]



Approach:         North Bound         South Bound         East Bound         West Bound           Movement:         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R         L - T - R
Min. Green: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Min. Green: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Volume Module: Base Vol: 8 452 67 140 268 14 106 96 129 19 190 92 Growth Adj: 1.10 1.10 1.10 1.10 1.10 1.10 1.10 1.1
Volume Module: Base Vol: 8 452 67 140 268 14 106 96 129 19 190 92 Growth Adj: 1.10 1.10 1.10 1.10 1.10 1.10 1.10 1.1
Base Vol: 8   452   67   140   268   14   106   95   129   19   190   92
Growth Adj: 1.10 1.10 1.10 1.10 1.10 1.10 1.10 1.1
Initial Base: 9 497 74 154 295 15 117 106 142 21 209 101 Added Vol: 0 2 0 0 3 0 0 0 0 0 1 0 0 0 0 1 0 0 0 1 10 0 0 1 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 1
Added Vol: 0 2 0 0 3 0 0 0 0 1 0 0 0 0 1 1 0 0 Campus Incr: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Campus Incr: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Initial Fut: 9 499 74 154 298 15 117 106 142 22 209 101 User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
PHF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
PHF Volume: 9 499 74 154 298 15 117 106 142 22 209 101 Reduced Vol: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Reduced Vol: 9 499 74 154 298 15 117 106 142 22 209 101 PCE Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
FCB Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
MLF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
Final Vol.: 9 499 74 154 298 15 117 106 142 22 209 101
Saturation Flow Module: Sat/Lane: 1900 1900 1900 1900 1900 1900 1900 190
Saturation Flow Module: Sat/Lane: 1900 1900 1900 1900 1900 1900 1900 190
Sat/Lane: 1900 1900 1900 1900 1900 1900 1900 190
Adjustment: 0.93 0.96 0.96 0.93 0.97 0.97 0.73 0.73 0.73 0.93 0.93 0.83
Final Sat.: 1769 1592 235 1769 1758 91 442 400 537 168 1604 1583
Capacity Analysis Module:
Vol/Sat: 0.00 0.31 0.31 0.09 0.17 0.17 0.26 0.26 0.26 0.13 0.13 0.06
Crit Moves: **** **** ****
Green/Cycle: 0.02 0.44 0.44 0.12 0.54 0.54 0.37 0.37 0.37 0.37 0.37
Volume/Cap: 0.31 0.72 0.72 0.72 0.31 0.31 0.72 0.72 0.72 0.35 0.35 0.17
Delay/Veh: 45.2 21.7 21.7 45.0 10.3 10.3 26.7 26.7 26.7 18.7 18.7 17.2
User DelAdj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
Adipel/Veh: 45.2 21.7 21.7 45.0 10.3 10.3 26.7 26.7 26.7 18.7 18.7 17.2
DesignQueue: 0 14 2 6 6 0 3 3 4 1 6 3

COURTE

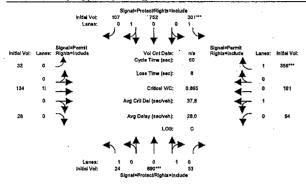
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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
2010 No Project PM

Intersection #23: Bay/King [N/S: Bay E/w: King]



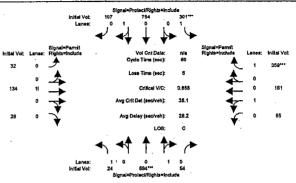
Approach:						ound			ound	W	est Bo	und
Movement:						- R			- R		- T	
	ļ											
Min. Green:			0			0				0		
Volume Module	e:											
Base Vol:	22	627	48	274	684	97	29	122	. 25	49	146	326
Growth Adj:	1,10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
Initial Bse:	24	690	53	301	752	107	32	134	28	54	161	359
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Campus Incr:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	24	690	53	301	752	107	32	134	28	54	161	359
User Adj:			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF 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
PHF Volume:	24	690	53	301	752	107	32	134	.28	54	161	359
Reduct Vol:	0	0	0	. 0	0	0	0	0	, 0	0	0	0
Reduced Vol:	24	690	53	301	752	107	32	134	28	54	161	359
PCE 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
MLF Adj:			1.00		1.00	1.00		1.00	1.00		1.00	1.00
Final Vol.:			53	301		107	32	134	28	54		359
Saturation F.	low M	odule	:									
Sat/Lane:		1900		1900		1900		1900	1900		1900	1900
Adjustment:	0.93	0.97		0.93	0.96	0.96	0.89	0.89			0.87	0.83
Lanes:		0.93	0.07		0.88	0.12		0.70			0.75	1.00
Final Sat.:			131			227		1176	241		1231	1583
									1	]		
Capacity Ana												
Vol/Sat:		0.40	0.40		0.47	0.47	0.11	0.11	0.11	0.13	0.13	0.23
Crit Moves:		****		****								****
Green/Cycle:				0.20		0.64	0.26	0.26			0.26	0.26
Volume/Cap:				0.87		0.73		0.44			0.50	0.87
Delay/Veh:				50.7		11.9		25.3			26.0	45.2
User DelAdj:				1.00		1.00		1.00			1.00	1.00
AdjDel/Veh:					11.9	11.9		25.3	25.3		26.0	45.2
DesignQueue:	1	18	1	11	13	2	1	5	1	2	5,	12

Mades Salares Conta

November 2003

November 2003
Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
2010 Plus Phase 1 PM

Intersection #23: Bay/King [N/S: Bay E/w: King]



Approach:								ast Bo	ound	We	est Bo	ound
Movement:	Ŀ	- T	- R	L ·	- T	- R	L ·	- Т	- R	L ·	- T	- R
Min. Green:												
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
							1					
Volume Modul												
Base Vol:		627				97	29		25			326
Growth Adj:					1.10	1.10		1.10			1.10	
Initial Bse:		690		301		107	32			54		359
			1	0	2	0	0		0		0	0
Campus Incr:	0	0	0	٥	•	-		-	0	_	0	
Initial Fut:						107	32				161	
User Adj:	1.00	1.00	1.00		1,00			1.00			1.00	1.00
PHF Adj:					1.00	1.00		1.00	1.00		1.00	1.00
PHF Volume:		694	54	301		107	32	134	28	55	161	359
Reduct Vol:	0	0	0	0	. 0	. 0	0	0	0		0	0
Reduced Vol:							32					
PCE 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
MLF Adj:	1.00	1.00	1.00	1.00		1.00		1.00			1.00	1.00
Final Vol.:	24	694	54								161	359
				1								
Saturation F												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.93	0.97	0.97	0.93	0.96	0.96	0.89	0.89			0.86	0.83
Lanes:		0.93		1.00	0.88	0.12					0.75	1.00
Final Sat.:					1600			1176			1217	
	1			1								
Capacity Ana	lysis	Modu.	le:									
Vol/Sat:	0.01				0.47	0.47	0.11	0.11	0.11	0.13	0.13	0.23
Crit Moves:		****		****								****
Green/Cycle:	0.02	0.47	0.47	0.20	0.65	0.65	0.26	0.26	0.26	0.26	0.26	0.26
Volume/Cap:	0.73	0.87	0.87	0.87	0.73	0.73	0.44	0.44	0.44	0.51	0.51	0.87
Delay/Veh:	97.1	28.4	28.4	51.2	11.9	11.9	25.3	25.3	25.3	26.1	26.1	45.7
User DelAdi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:						11.9	25.3	25.3	25.3	26.1	26.1	45.7
DesignQueue:							1	5	1.	2	5	12

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# Level Of Sentos Computation Report 2000 HCM Unsignalized (Future Volume Alternative) 2010 No Project AM

Intersection #24; Empire Grade/Heller [N/S: Heller E/w: Empire Grade]

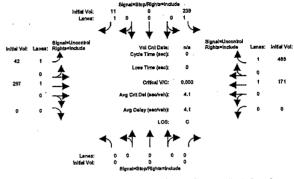
				Slonal#S	lop(Right	a=indud		-		
		inital Vol: Lanes:	<b>√</b> "	•		ů	238			
hitel Vol:	Lanes:	Signal=Uncontrol Rights=Include			Vol Cnt E		n/s 0	Signai≖Uncontrol Rights≠Include	Lanes:	tnitial Vol:
42	1	<b>→</b>		Lyc	26 IIMB (2	ec.	U	•	1	488
	0	<b>*</b>		Lo	as Time (i	100):	0	*	0	
288	1	<b>→</b>			Critical	V/C:	0.000		1	167
	0	₹		Avy Crit	Del (sech	/eh):	4,1	₹	. 0	
0	0	-7		Avg De	elay (sach	veh);	4.1	<b>-</b>	0	0
		▼				LOS:	c	•		•
			4	<b>⋪</b>	$\uparrow$	*	-			
		Lanes:	0		0	0	0			
		Inidei Vol:	٥		0 Stop/Right	ts=includ				

Approach:	No	rth Bo	ound	Sot	ith Bo	und			ound		st Bo	
Movement:	L ·	- T	- R			- R			R	ь -	T	- R
											· <b>-</b>	
Volume Modul	ė:											
Base Vol:	0	0	0	217	0	10	38	262	0		152	444
Growth Adj:	1.10	1.10	1.10	1.10	1.10	1.10		1.10	1.10			1.10
Initial Bse:	0	0	0	239	0	11	42	288	0	0	167	488
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Campus Incr:	0	0	0	0	0	0	0	0	. 0	-	0	0
Initial Fut:	0	0	. 0	239	0	11	42	288	0	0	167	488
User Adj:		1.00	1.00		1.00	1.00		1.00				1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			1.00
PHF Volume:	0	0	0	239	0	11	42	288	0	0	167	488
Reduct Vol:	0		0	0	0	0	0	0	- 0	0	. 0	0
Final Vol.:	0	0	0	239	0	11	42	288	0	0	167	488
Critical Gap	Modu.	le:										
Critical Gp::					XXXX					XXXXX		
FollowUpTim:					XXXX					XXXXX		
				[								
Capacity Mod												
Cnflict Vol:	XXXX	XXXX	XXXXX		XXXX	167				XXXXX		
Potent Cap.:					XXXX	882			XXXXX			XXXXXX
Move Cap.:					XXXX	882			жжооск			XXXXXX
Level Of Ser												
Stopped Del:					XXXX					XXXXX	XXXX	xxxxxx
LOS by Move:		*	*	С	*	A	A	*	*	*		-
Movement:		- LTR			- LTR			- LTR			- LTR	
Shared Cap.:						XXXXX			XXXXX			XXXXXX
Shrd StpDel:										XXXXX		300000K
Shared LOS:		. *	*	*		*	*		*	*	*	
ApproachDel:		XXXXX			18.7		×	XXXXX		X	00000	
ApproachLOS:		*			C			*			*	

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Level Of Service Computation Report 2000 HCM Unsignalized (Future Volume Allemative) 2010 Plus Phase 1 AM

Intersection #24: Empire Grade/Heller [N/S: Heller E/w: Empire Grade]



			Olytian	-owproun	B-picage							
Approach:	No	th Bo	und	Sou	ith Bo	ound	Ea	ast Bo	ound	We	st Bo	ound
Movement:	ъ.	- т	- R	ъ.	- Т	- R	ъ.	- Т	- R	ь.	• Т	- R
						·						
Volume Module	e:											
Base Vol:	0		0					262		0		
Growth Adj:							1.10	1.10	1.10	1.10	1.10	1.10
Initial Bse:				239	_	11	42			-	167	488
Added Vol:	0	0	0	0	0	. 0	0				4	0
Campus Incr:	0	. 0	0	0	0	0		σ		•		0
Initial Fut:	0	0	0	239	0	11						488
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	
PHF Adj:						1.00	1.00				1.00	
PHF Volume:	0	0	0	239		11	42			-		488
Reduct Vol:	0	0	0	0	0	0	0	0	0		0	
Final Vol.:	G	0	0	239	. 0	11	42	297	0	0	171	488
Critical Gap	Modu.	le:										
Critical Gp:	XXXXXX	XXXX	XXXXXX	6.4	XXXX	6.2	4.1	XXXX	XXXXX	XXXXX	XXXX	XXXXXX
FollowUpTim::	XXXXX	XXXX	XXXXXX	3.5	XXXX	3.3	2.2	XXXX	XXXXX	XXXXX	XXXX	300000
							[ ]			(		
Capacity Mod												
Cnflict Vol:	XXXX	XXXX	XXXXX						200000			
Potent Cap.:	20000	XXXXX	XXXXXX		XXXX				XXXXX			
Move Cap.:	200000	3CXCXCX	XXXXXX		XXXX				SOCOO			
							[ [					
Level Of Ser	vice 1	Module	<b>:</b> .									•
Stopped Del:	200000	XXXX	XXXXXX	19.6	XXXX	9.2	9.0	XXXX	XXXXX	XXXXX	XXXX	XXXXX
TOE by Morre.		*	*		*	A	A	*	*	*		
Movement:	LT ·	- LTR	- RT	LT ·	- LTR	- RT	LT ·	- LTR	- RT	LT	- LTR	- RT
Shared Cap.:	XXXX	XXXXX	XXXXX	XXXX	XXXXX	XXXXX	XXXX	XXXX	XXXXX	XXXX	XXXXX	XXXXXX
Shrd StpDel:	XXXXX	XXXX	XXXXX	XXXXXX	XXXX	XXXXX	XXXXXX	XXXX	XXXXXX	XXXXX	XXXX	XXXXXX
Shared LOS:	*	*	*	*	*		*	*	*	*	*	*
ApproachDel:					19,2		×	хххх		x	COCOCX	
ApproachLOS:		*			С			*			*	

Traffix 7.5.0715

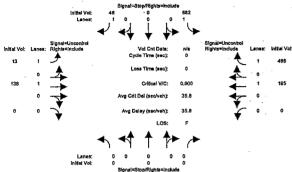
Wed Nov 26 10:11:48 2003

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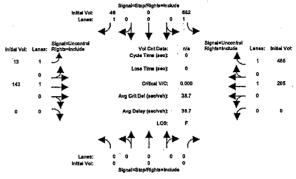
Level Of Service Computation Report
2000 HCM Unalgnalized (Future Volume Alternative)
2010 No Project PM

intersection #24: Empire Grade/Heller [N/S: Heller E/w: Empire Grade]



•		Signa	l=Stop/Righ	tə=includə	-							
Approach: N	orth B	ound	Son	ith B	ound	E	ast Bo	ound		est Bo		
Movement: L	- T	~ R			- R			- R		- т	- R	
											1	
Volume Module:												
Base Vol:	0 0		620	0	42				0	177		
Growth Adj: 1.1	0 1,10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	
Initial Bse:	0 0	0	682	0	46	13	138	0	0	195	488	
Added Vol:	0 0	0	0	0	0	0	0	0	0	0	0	
Campus Incr:	0 0	0	0	0	0	0	0	0	0	0	0	
	0 0		682	0	46	13		0	0	195	488	
User Adj: 1.0	0 1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
PHF Adj: 1.0	0 1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	
PHF Volume:	0 0	0	682	0	46	13	138	. 0	0	195	488	
Reduct Vol:	0 0	0	0	0	0	0	0	0	0	0	0	
Final Vol.:	0 0	0	682	0	46	13	138	. 0	0	195	488	
Critical Gap Mod	ule:											
Critical Gp:xxxx	x xxxx	XXXXX				4.1	XXXX	XXXXX	XXXXX	XXXX	XXXXX	
FollowUpTim:xxxx	x xxxx	XXXXX	3.5	XXXX	3.3				XXXXXX			
Capacity Module:												
Cnflict Vol: xxx	x xxxx	XXXXX	359	XXXX	195	683	XXXX	XXXXXX	XXXX	xxxx	XXXXX	
Potent Cap.: xxx	x xxxx	XXXXX	644	xxxx	852	919	XXXXX	XXXXX	XXXX	XXXX	XXXXX	
		XXXXX		XXXX	852				XXXX			
:												
Level Of Service	Modul	e:										
Stopped Del:xxxx	x xxxx			XXXXX	9.5		XXXX		XXXXX			
LOS by Move: *	*	*	F	*	A	A	*	*	*	*	. *	
Movement: LT	- LTR	- RT	LT	- LTR	- RT	LT ·	- LTR	- RT	LT ·	- LTR	- RT	
Shared Cap.: xxx	x xxx	XXXXX	XXXX	xxxx	XXXXX	XXXX	XXXX	XXXXX	XXXXX	XXXX	XXXXX	
Shrd StpDel:xxxx	x xxxx					XXXXXX	XXXX				XXXXXX	
Shared LOS: *	*	*	*	*	*	*	*	*	*	*	*	
	XXXXXX			76.6		ж	XXXXX		X	COCC		
ApproachLOS:	*.			F.			•			*		

Level of Sardos Computation Report
2000 HCW Unsignatured Future Votume After
2010 Pts Phase 1 PM
Intersection #24: Empire Grade/Heller [NVS: Heller E/w: Empire Grade]



	initie	Vol:	0 Signa	0 i=Stop/Righ	b=include	•						
Approach:	No	rth B	bnuc	Son	uth B	bauc	E	ast B	ound	We	st Bo	ound
Movement:	L ·	- т	- R	L ·	- T	- R	L.	- т	- R	ь -	T	- R
				11			11			11		1
Volume Module										• •		•
Base Vol:	0	0	0	620		42	12		0	0		444
Growth Adj:	1.10	1.10	1.10	1.10	1.10	1.10		1.10		1.10		
Initial Bse:	0	0	0	682	. 0	46	13	136	0	.0		488
Added Vol:	0	0	.0	0	0	0	0	5	0	0	10	0
Campus Incr:	0	. 0	0	0	. 0	0	0	0	0	•	0	0
Initial Fut:	0	0	0	682			13			0		488
User Adj:				1.00	1.00	1.00		1.00				
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00		1.00				1.00
PHF Volume:	0	0	0	682	0	46	13	143	0	0	205	488
Reduct Vol:	0	0	0	0	. 0	0	0	0	0	0	0	0
Final Vol.:	0	0	0	682	. 0	46	13	143	0	0	205	488
Critical Gap	Modu.	le:										
Critical Gp::					XXXXX	6.2	4.1	XXXX	XXXXX	XXXXX	XXXX	XXXXX
FollowUpTim:					XXXX					XXXXXX		
												)
Capacity Mod	ile:											•
Cnflict Vol:	XXXX	XXXX	XXXXXX	374	XXXX	205	693	XXXX	XXXXX	XXXX	XXXX	XXXXXX
Potent Cap.:	XXXX	XXXX	XXXXXX	631	XXXXX	841	912	XXXX	XXXXX	XXXX	жжж	XXXXXX
Move Cap.:	XXXX	XXXX	XXXXX	624	XXXXX	841	912	XXXX	XXXXX	XXXX	XXXX	XXXXX
Level Of Ser												
Stopped Del:			30000CK		XXXX			XXXX		XXXXX		
LOS by Move:			*	F	*	A	A	*	*	*	*	*
Movement:			- RT						- RT			- RT
Shared Cap.:	XXXX	XXXXX	XXXXXX	XXXX	XXXX	XXXXX				XXXX		
Shrd StpDel:		XXXX	300000						XXXXX			
Shared LOS:	*	*		*		*	*	-	*	*	. *.	*
ApproachDel:	×	COCC			83.6		ж	XXXXX		30	COCK	
ApproachLOS:		*			F			*			*	

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## Marine Science Center

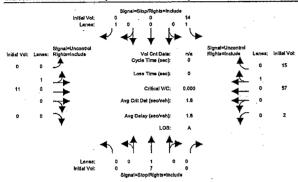
## November 2003

Summary Scenario Comparison Report (With Average Critical Delay)
Future Volume Alternative

		L	2020 Ba	seline AM		202	0 Plus Pha	se 1 and 2	AM	L		2020 Ba	seline PM			202	0 Plus Pha	se 1 and 2	PM
			Avg		Avg Crit		Avg		Avg Crit		Avg		Crit	Avg Crit	Avg Crit	ļ.	Avg		Avg Crit
Intersec	tion	Los	Del	Crit V/C	Del	LOS	Del	Crit	Del	LOS	Dei	Crit V/C	V/C	Del (een)	Del	100	Del	Crit V/C	Del
#1	Delaware/Shaffer [N/S:Shaffer E/W:Delaware]	A	(sec) 1.8	0.000	(sec) 1.8	B	(sec) 0.6	0.000	(sec) 0.6	A	(sec) 1.5	0.000	+ 0.000	(sec) 1.5	Change + 0.9	LOS B	(sec) 0.4	0.000	(sec) 0.4
#2	Delaware/Natural Bridges [N/S:Natural Bridges E/W:Delaware]	A	8.3	0.248	8.3	А	10.0	0.439	10.0	A	8.9	0.209	- 0.230	8.9	- 1.1	В	11.5	0.516	11.5
#3	Delaware/Swanton [N/S: Swanton E/W: Delaware]	В	3.9	0.000	3.9	B _,	3.6	0.000	3.6	В	3.6	0.000	+ 0.000	3.6	+ 0.1	В	3.3	0.000	3.3
#4	Bay/Laguna [N/S:Laguna E/W: Bay]	В	4.5	0.000	4.5	С	4.9	0.000	4.9	С	5.0	0.000	+ 0.000	5.0	+ 0.2	С	5.9	0.000	5.9
#5	SR 1/Shaffer [N/S: Shaffer E/w: SR 1]	В	2.9	0.000	2.9	В	3.0	0.000	3.0	С	3.0	0.000	+ 0.000	3.0	+ 0.0	¢	3.2	0.000	3.2
#6	Delaware/Swift [N/S: Swift E/W: Delaware]	С	15.5	0.651	15.5	С	24.7	0.848	24.7	С	15.1	0.680	- 0.168	15.1	- 9.6	С	23.4	0.847	23.4
#7	Delaware/Almar [N/S: Almar E/W: Delaware]	В	11.0	0.503	11.0	В	12.6	0.584	12.6	С	16.9	0.769	+ 0.185	16.9	+ 4.3	D	28.8	0.944	28.8
#8	SR 1/Western [N/S: Western E/w: SR 1]	С	25.1	0.554	27.4	С	26.3	0.593	29.7	С	26.4	0.784	+ 0.191	30.0	+ 0.2	C	29.5	0.831	35.9
#9	SR 1/Swift [N/S: Swift E/w: SR 1]	С	25.6	0.554	34.5	С	25.8	0.593	35.0	С	24.2	0.569	- 0.024	29.3	- 5.8	С	24.7	0.599	30.2
#10	Mission/Almar [N/S: Almar E/w: Mission]	C	22.2	0.608	30.2	Ć	24.6	0.674	34.0	С	26.8	0.756	+ 0.082	36.1	+ 2.1	С	31.4	0.838	42.6
#11	Mission/Bay [N/S: Bay E/w: Mission]	D	51.9	0.968	58.7	, E	61.0	1.020	71.2	F	168.0	1.349	+ 0.328	203.2	+ 132.0	F	191.5	1.395	221.8
#12	Laurel/California [N/S: California E/w: Laurel]	С	23.0	0.646	27.8	С	23.4	0.657	28.4	С	31.8	0.859	+ 0.202	38.8	+ 10.4	С	33.0	0.870	40.2
#13	Mission/Laurel [N/S: Laurel E/w: Missionl]	С	29.1	0.820	32.2	С	30.0	0.844	33.3	D	46.0	0.963	+ 0.119	56.8	+ 23.5	D	52.5	1,012	67.2
#14	Mission/Walnut [N/S: Walnut E/w: Mission]	С	26.2	0.725	29.5	С	26.3	0.747	29.8	В	19.8	0.598	0.149	21.9	- 7.8	В	19.4	0.643	21.6
#15	Mission/Union [N/S: Union E/w: Mission]	, с	34.5	0.891	35.6	D	36.5	0.912	36.9	D	44.0	0.985	+ 0.073	45.6	+ 8.7	D	50.8	1.022	54.4
#16	Mission/Chestnut [N/S: Chestnut E/w: Mission]	F	139.4	1.318	186.6	F	151.8	1.344	198.0	F	233.2	1.580	+ 0.236	293.5	+ 95.5	F	244.6	1.611	303.2
#17	Mission/River [N/S: River E/w: Mission]	ε	68.4	1.120	107.8	E	71.1	1.134	113.1	F	110.6	1.229	+ 0.094	157.5	+ 44.5	F	118.8	1.258	169.3
#18	Western/Meder [N/S: Western E/w: Meder]	Α	9.5	0.412	9.5	Α	9.8	0.431	9.8	В	10.7	0.436	+ 0.005	10.7	+ 0.9	В	11.2	0.465	11.2
#19	High/Western [N/S: Western E/w: High]	F	33.9	0.000	33.9 -	F	39.8	0.000	39.8	F	46.6	0.000	+ 0.000	46.6	+ 6.8	F	59.8	0.000	59.8
#20	Hìgh/Bay [N/S: Bay E/w: High]	С	25.0	0.781	28.7	С	25.2	0.781	28.7	D	46.1	0.967	+ 0.186	56.9	+ 28.2	D	47.3	0.973	58.2
#21	Bay/lowa [N/S: Bay E/w: lowa]	∙в	11.2	0.496	9.5	В	11.2	0.497	9.5	В	10.5	0.622	+ 0.125	10.6	+ 1.1	В	10.5	0.623	10.6
#22	Bay/Escalona [N/S: Bay E/w: Escalana]	F	85.3	0.000	85.3	F	93.7	0.000	93.7	F	42.2	0.000	+ 0.000	42.2	- 51.5	F	1.2	0.000	1.2
#23	Bay/King [N/S: Bay E/w: King]	С	29.9	0.874	39.2	С	30.2	0.878	39.7	D	50.8	1.041	+ 0.163	75.8	+ 36.1	D	51.8	1.048	77.7
#24	Empire Grade/Heller [N/S: Heller E/w: Empire Grade]	D	6.1	0.000	6.1	D	6.6	0.000	6.6	F	101.6	0.000	+ 0.000	101.6	+ 95.0	F	112.7	0.000	112.7
	•			,															

Level Of Service Computation Report 2000 HCM Unsignalized (Future Volume Alternativa) 2020 Baseline AM

Intersection #1: Delaware/Shaffer [N/S:Shaffer E/W:Delaware]



Approach:						ound	Ea	ast Bo	ound	We	est Bo	ound
Movement:	L ·	- Т	- R	ъ.	- Т	~ R	L ·	- T	- R	L -	- T	- R
											<b></b> -	
Volume Module	e:											
Base Vol:	0	6	0	11	0	0	0	9	0	2	46	12
Growth Adj:	1.24	1.24	1.24	1.24	1.24	1.24	1,24	1.24	1.24	1.24	1.24	1.24
Initial Bse:	0	7	0	14	0	0	0	11	0	2	57	15
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Campus Incr:	0	0	0	0	0	0	0	0	0	0	. 0	0
Initial Fut:	0	7	0	14	0	0	0	11	0	2	57	15
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00
PHF 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
PHF Volume:	0	7	0	14	0	0	0	11	0	2	57	15
Reduct Vol:	٥	0	0	0	0	0	0	. 0	0	. 0	0	0
Final Vol.:	0	7	0	14	0	0	0	11.	0	2	57	15
Critical Gap	Modu:	le:										
Critical Gp::	XXXXX	6.6	XXXXX	7.2	XXXX	XXXXX	XXXXX	XXXX	XXXXX	4.1	XXXX	XXXXXX
FollowUpTim::	XXXXX	4.1	жжж	3.6	xxxx	XXXXX	XXXXXX	XXXXX	XXXXX	2.2	XXXX	XXXXXX
Capacity Mod	ule:											
Cnflict Vol:	XXXX	88	xxxxx	84	XXXX	XXXXX	XXXX	XXXX	XXXXX	11	XXXX	XXXXX
Potent Cap.:	xxxx	791	XXXXX	888	XXXX	XXXXX	XXXXX	XXXX	XXXXX	1589	XXXX	XXXXX
Move Cap.:	XXXX	790	xxxxx	881	XXXX	XXXXX	XXXXX	XXXX	XXXXX	1589	XXXX	XXXXX
Level Of Ser	vice :	Modul	e: '									
Stopped Del:	XXXXX	9.6	XXXXX	9.2	XXXX	XXXXX	XXXXX	XXXX	XXXXX	7.3	XXXXX	XXXXX
LOS by Move:	*	A	*	A	*	*	*	*	*	A	*	*
Movement:	LT	- LTR	- RT	LT	- LTR	- RT	LT ·	- LTR	- RT	LT	- LTR	- RT
Shared Cap.:	XXXX	XXXX	XXXXX	XXXX	XXXX	XXXXX	XXXX	XXXX	XXXXX	XXXX	XXXX	XXXXXX
Shrd StpDel:	XXXXX	XXXX	xxxx	xxxxx	XXXX	жжж	жжжж	XXXX	XXXXXX	XXXXXXX	XXXXX	XXXXXX
Shared LOS:	*	*	*	*	. *	*	*	*	*	*	*	.*
ApproachDel:		9.6			9.2		×	XXXXX		*	XXXXX	
ApproachLOS:		A			A			*			*	

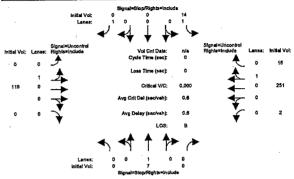
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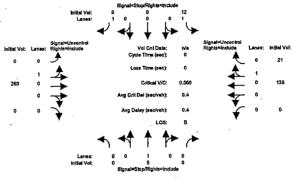
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Level Of Sarvice Computation Report
2000 H CM Unsignative (Future Volume Allamative)
2020 Plus Phase 1 and 2 AM
Intersection #1: Delaware/Shaffer [N/S:Shaffer E/W:Delaware]



Approach:						ound			ound		st Bo	
Movement:	L -	· T	- R			- R	L.	- T	~ R		_	- R
		<i></i> .			,							
Volume Module	9:											
Base Vol:	0	6	. 0	11	0	0		9		_	46	12
Growth Adj:	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24				
Initial Bse:	0	7	0	14	0	0	0	11	+0	2	57	15
Added Vol:	0	0	0	0		0	0	108	0	0	194	0
Campus Incr:	0	. 0	0	0	0	0	0	0	0	-	0	0
Initial Fut:	0	7	0	.14	. 0	0	0	119	0	2	251	15
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
PHF Volume:	0	7	0	14	. 0	0	0	119	0	2	251	15
Reduct Vol:	0	0	0	0	0	0		0	0		0	0
Final Vol.:	0	7	0	14	0	0	: 0	119	0	2	251	15
Critical Gap	Modu!	le:										
Critical Gp::			XXXXX	7.2	XXXX	30000X	XXXXXX	XXXX	XXXXXX	4.1	XXXXX	XXXXX
FollowUpTim::					XXXX	XXXXXX	XXXXXX	XXXX	XXXXX	2.2	жж	XXXXX
Capacity Mod	ile:											
Cnflict Vol:			XXXXXX	386	XXXX	XXXXX	XXXXX	30000	XXXXX	119	XXXX	XXXXX
Potent Cap .:	X000X	536	XXXXX	562	200000	XXXXXX	XXXXX	XXXX	XXXXX	1450	XXXX	XXXXXX
Move Cap.:			XXXXX	555	XXXX	XXXXXX	XXXX	XXXXX	XXXXX	1450	30000	XXXXX
			'				11					
Level Of Ser	vice P	40dul	e: '				• •					
Stopped Del:	COCOC	11.8	XXXXX	11.7	XXXX	XXXXX	200000	XXXX	XXXXX	7.5	XXXX	XXXXXX
LOS by Move:		В		В			*	*	*	A		*
Movement:		- LTR	- RT	LT	- LTR	- RT	LT	- LTR	- RT	LT ·	LTR	- RT
Shared Cap.:							20000	XXXX	XXXXX	XXXX	XXXX	XXXXXX
Shrd StpDel:	COOCC	xxxx	XXXXX	XXXX	XXXX	XXXXX	XXXXX	XXXX	XXXXX	XXXXX	XXXX	XXXXX
Shared LOS:	*	*	*	*	*		*	*	*	*	*	*
ApproachDel:		11.8			11.7		×	XXXXX		ж	QUOUX	
ApproachLOS:		В			В			*			*	
		_										

Intersection #1: Delaware/Shaffer [N/S:Shaffer E/W:Delaware]



Approach:	No	rth Bo	ound	Sou	ıth B	ound	B	ast B	bnuc	We	est Bo	ound	
Movement:	L -	- T	- R	L -	- Т	- R	L ·	- T	- R	L ·	- T	- R	
												}	
Volume Module													
Base Vol:	0	4	0	10	0	0	0	32	0	0	12	17	
Growth Adj:	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24		1.24	
Initial Bse:	0'	5	0	12	0	0	0	40	0	0	15	21	~~T.@SY
Added Vol:	0	0	0	0	0	0	0		0	0	123	0	
Campus Incr:	0	. 0	0	0	0	0	0	0	0	0	0	0	*********
Initial Fut:	0	5	0	12	0	0	0	263	0	0	138		to included A
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00		
PHF 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'	
PHF Volume:	0	5	0	12	0	0	0	263	0	0	138	21	
Reduct Vol:	0	0	0	. 0	. 0	0	0	0	0	0	0	0	
Final Vol.:	0	5	0	12	0	0	0	263	0	0	138	21	
Critical Gap													
Critical Gp:	CXXXX	6.6	XXXXX										
FollowUpTim:	OCCUC	4.1	XXXXXX	3.6	XXXX	XXXXX	XXXXX	XXXX	XXXXX	XXXXXX	XXXX	XXXXXX	
Capacity Modu	ile:												
Cnflict Vol:	XXXX	422	XXXXXX	414	XXXX	XXXXX	)OCIOK	XXXX	XXXXX	XXXXX	XXXX	XXXXX	
Potent Cap.:	XXXX	514	XXXXXX	539	XXXX	XXXXX	XXXXX	XXXX	XXXXXX	XXXX	XXXX	XXXXX	
Move Cap.:	20000	514	XXXXX	535	xxxxx	XXXXX	XXXX	XXXXX	XXXXX	XXXX	XXXX	XXXXXX	
Level Of Serv													
Stopped Del:	cooct	12.1	1000000	11.9	xxxx	XXXXXX	2000000	XXXX	XXXXX	XXXXX	XXXX	XXXXX	
LOS by Move:	*	В	*	В	*	*	*	*	*	*	*	*	
Movement:	LT ·	- LTR	- RT	LT ·	- LTR	- RT	LT	- LTR	- RT	LT ·	- LTR	- RT	
Shared Cap.:	XXXX	30000	XXXXXX	XXXXX	XXXX	XXXXX	XXXX	XXXX	XXXXXX	XXXXX	XXXX	XXXXX	
Shrd StpDel:	COCC	XXXX	XXXXXX			XXXXX	XXXXXX	XXXX	XXXXXX	XXXXXX		XXXXXX	
Shared LOS:	*	*	*	*	*	•	*	*	*	*	*	*	
ApproachDel:		12.1			11.9		×	XXXXX		30	CXXXX		
ApproachLOS:		В			В.			*			*		

-12.2. 1 PT 77.24

ALSO STORY OF STREET

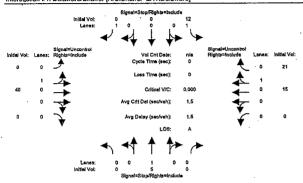
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Level Of Service Computation Report 2000 HCM Unsignatized (Future Volume Alternative) 2020 Baseline PM

Intersection #1: Delaware/Shaffer [N/S:Shaffer E/W:Delaware]



Approach: Nor	rth Bound	South B	ound	East Bo	ound .	West Bound
Movement: L -	- T - R	ь - т	- R	L T	- R L	- T - R
					·	
Volume Module:						
Base Vol: 0	4 0	10 0	0	0 32	0	0 12 17
Growth_Adj:1_24	1.24 1.24	1.24 1.24	1.24	1.24 1.24	1.24 1.2	4 1.24 1.24
Initial Bser 0	5 0	12 0	0	0 40	0	0 15 21
Added Vol: 0	0 0	0 0	0	0 - 0	. 0	0 0 0
Campus Incr: 0	0 0	0 0	0	0 0	0	0 0 0
Initial Fut: 0	5 0	12 0	0	0 40	0	0 15 21
User Adj: 1.00	1.00 1.00	1.00 1.00	1.00	1.00 1.00		0 1.00 1.00
PHE Adj	1.00 1.00	1.00 1.00	1.00	1.00 1.00	1.00 1.0	0 1.00 1.00
PHF Volume: 0	5 0	12 0	0	0 40	0	0 15 21
Reduct Vol: 0	0 0	0 0	0	. 0 0	0	0 0 0
Final Vol.: 0	5 0	12 0	0	0 40	0	0 15 21
Critical Gap Modul	le:					
Critical Gp:xxxxx						OK NODOK NODOKX
FollowUpTim:xxxxx	4.1 xxxxx					ox xoxox xoxoxx
ه د د د ما منا المرتبطة بير موامع يا د الوراب جرته و ب	•					
Capacity Module:						
Cnflict Vol: xxxx	76 xxxxx	68 xxxx	XXXXX	XXXX XXXX		DE NOONE NOONE NO
Potent Cap			XXXXX	XXXX XXXXX		CX XXXX XXXXX
Move Cap.: xxxx	803 XXXXXX			XXXX XXXX		or socoox socoox
Level Of Service N						
Stopped Del-XXXX	9.5 XXXXX					OK XXXX XXXXX
LOS by Move:* *	A, *		*	* *	• ,	
	LTR - RT	LT - LTR		LT - LTR		r - LTR - RT
Shared Cap.: xxxx						or xxxxx xxxxxx
Shrd StpDel:xxxxx		XXXXXX XXXXX	XXXXXX	XXXXX XXXXX	XXXXXX XXXX	OK XXXXX XXXXXX
Shared LOS: *	* *	* *	*	* *	* '	* *
ApproachDel:	9.5	9.0		XXXXXX		XXXXXX
ApproachLOS:	A	A		*		*

ngg Paris: Movement -

Volume Modeli Eage Vol: -Maria Ai The Broken St. Street Comments Add to Late

Tiple 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.00 / 1.0 Resport Veil F.ma. 901. art street as Critical de Religion de La recent and .

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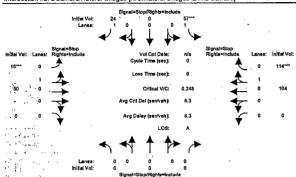
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### Watthe Science Cent

Level Of Service Computation Report 2000 HCM 4-Way Stop (Future Volume Alternative) 2020 Beseline AM

Intersection #2: Delaware/Natural Bridges [N/S:Natural Bridges E/W:Delaware]



Approach:	No	rth Bo	ound	Sou	ith Bo	und	E	ıst Bo	und	We	est Bo	und
Movement:	L	- T	- R	L -	· T	- R	L.	т	- R	ь.	т	- R
				1			1					
Min. Green:	. 0	0	0	0	0	0	0	0	0	0	0	0
2022222222				1			1			1		
Volume Modul		_	_		_				_	_		
Base Vol:	0	0	0	46	. 0	19	12	40	0	0	84	
Growth Adj:		1.24	1.24	1.24		1.24		1.24	1.24		1.24	1.24
Initial Bse:	_	_	0	57	0	24	15	50	D	. 0		114
Added Vol:	0		0	0	0	0	0	0	0	.0	0	0
Campus Incr:		_	-	0	-	0	0	Ó	0	0	0	0
Initial Put:			. 0	57	0	24	15	50	0			114
User Adj:				1.00		1.00		1.00			1.00	1.00
PHF Adj:			1.00	1.00		1.00		1.00	1.00	1.00		1.00
PHF Volume:	0	0	0	57	0	24	15	50	0	0	104	114
Reduct Vol:	0		0	0	0	0	.0	0	0	-	0	0
Reduced Vol:	0	0		57		24	15	50		-		114
PCE Adj:				1.00		1.00		1.00			1.00	
MLF Adj			1.00	1.00		1.00		1.00			1.00	1.00
Final Vol.:		0		57		24	15	50		. 0		114
Saturation F	low M	odule:	:									
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.00	0.00	0.00	1.00	0.00	1.00	0.23	0.77	0.00	0.00	0.48	0.52
Final Sat.:	0	0	0	621	0	783	179	597	0	0	420	459
				1					1			]
Capacity Ana	lysis	Modu!	le: '	•			•		•	•		
Vol/Sat:	XXXX	xxxx	XXXX	0.09	XXXX	0.03	0.08	0.08	20000	XXXX	0.25	0.25
Crit Moves:				***			****					****
Delay/Veh:	0.0	0.0	0.0	8.8	0.0	7.2	7.9	7.9	0.0	0.0	8.3	8.3
Delay Adi:			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdiDel/Veh:	0.0		0.0	8.8	0.0	7.2	7.9	7.9	0.0	0.0	8.3	8.3
LOS by Move:			*	A	1 *	A	A	A	*	*	A	A
ApproachDel:		xxxxx			8.3			7.9			8.3	
Delay Adj:					1.00			1.00			1.00	
ApprAdjDel:					8.3			7.9	,		8.3	
LOS by Appr:		*			A			A			A.	
, Appr.					-			^				

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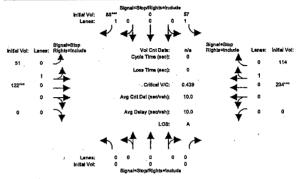
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November 2003

Laval Of Service Computation Report 2000 HCM 4-Way Stop (Future Volume Alternative) 2020 Plus Phase 1 and 2 AM

Intersection #2: Delaware/Natural Bridges [N/S:Natural Bridges E/W:Delaware]



Approach:	No	rth B	bauc	So	uth Bo	ound	E	ast Bo	bund	We	est Bo	ound
Movement:		- T			- T			- т			- Т	- R
										•		
Min. Green:		0		. 0			. 0		0	. 0	-	
Volume Modul	e:											
Base Vol:	0			46	0	19	12	40	0	٥	84	92
Growth Adj:			1.24		1.24	1.24		1.24	1.24		1.24	
Initial Bse:	0	. 0		57		24	15	50	0	0		114
Added Vol:		0	0	0	. 0	64	36		0	0		0
Campus Incr:	0	0	0	Ō	. 0	0	0	0	0	0	-	0
Initial Fut:		0		57	. 0	88	51	122	0	0		
User Adj:	1.00	1.00	1.00	1.00	1:00	1.00		1.00			1.00	
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
PHF Volume:	0	0	0	57	0	88	51	122	0	0	234	114
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	. 0	0	0	57	0	88	51	122	0	0	234	114
PCE Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Ad1:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.:	0	0	0	57	0	88	51	122	0	0	234	114
							1					
Saturation F						•				•		
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:			0.00							0.00	0.67	0.33
Final Sat.:	. 0	0	0	556	0	680	211	505	0	0	533	260
				1			{			1		
Capacity Ana	lvsis	Modu	le:	•								
Vol/Sat:			XXXX	0.10	XXXX	0.13	0.24	0.24	XXXX	XXXX	0,44	0.44
Crit Moves:						***		****			****	
Delay/Veh:	0.0	0.0	0.0	9.5	0.0	8.3	9.4	9.4	0.0	0.0	10.8	10.8
Delay Adj:		1.00				1.00		1.00	1.00	1.00	1.00	1.00
AdiDel/Veh:				9.5			9.4		0.0	0.0	10.8	10.8
LOS by Move:				Ä	*	A	A		*	*	В	В
ApproachDel:		xxxxx			8.8			9.4			10.8	
Delay Adi:		XXXXX			1.00			1.00			1.00	
ApprAdiDel:		200000			8.8			9.4			10.8	
LOS by Appr:		*			A			A			В	
nos ny whbr:		-			•						_	

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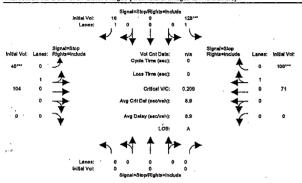
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# Level Of Service Computation Report 2000 HCM 4-Way Stop (Future Volume Atternative) 2020 Baseline PM

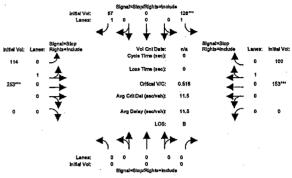
Intersection #2: Delaware/Natural Bridges [N/S:Natural Bridges E/W:Delaware]



Approach:	rth Bo	ound	Son	uth Bo	ound	E	ast Bo	ound	West Bo	und	
Movement:			- R			- R					
	1					·					
Min. Green:	. 0				0			.0	0	0 0	0
Volume Modul									,		
Base Vol:	0			103	0	13	32	84	0	0 57	81
Growth Adj:					1.24	1.24		1.24			
Initial Bse:	-		-	128	0	16	40		-	0 71	100
Added Vol:		0		0		0	0	0	0	0 0	0
Campus Incr:			-	0	-	0	. 0		0	0 0	0
Initial Fut:				128	0	16	40			0 71	100
User Adj:					1.00	1.00		1.00			
PHF Adj:					1.00	1.00		1.00			1.00
PHF Volume:			0	128	. 0	16	40	104	0	0 71	100
Reduct Vol:		0	0	0	-	0	0	0	0	0 0	0
Reduced Vol:			0		0				. 0		100
PCE Adj:	1.00	1.00	1.00			1.00	1.00	1.00	1.00	1.00 1.00	1.00
MLF Adj:				1.00		1.00		1.00			1.00
Final Vol.:						16			0		100
										1	
Saturation F											
Adjustment:											
			0.00								
Final Sat.:										0 338	
				1						<b>\</b>	
Capacity Ana											
	200000	XXXX	XXXX		XXXX	0.02		0.19	XXXX	жж 0.21	
Crit Moves:			1	****			****				****
Delay/Veh:				9.8		7.3		8.8		0.0 8.4	8.4
Delay Adj:				1.00		1.00		1.00	1.00	1.00 1.00	1.00
AdjDel/Veh:				9.8		7.3	8.8			0.0 8.4	8.4
LOS by Move:				A		A	A			* A	A
ApproachDel:					9.5					8.4	
Delay Adj:										1.00	
ApprAdjDel:					9.5			8.8		8.4	
LOS by Appr:		*.			A			A.		A	

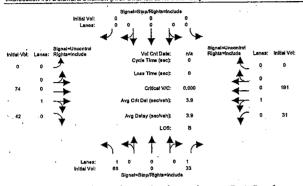
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Leval OI Barvice Computation Report
2000 HCM4-Way Stop (Future Volume Alternative)
2002 Plus Phase 1 and 2 PM
Intersection #2: Delaware/Natural Bridges [N/S:Natural Bridges E/W:Delaware]



	Approach:	No	rth Bo	bund	Son	uth Bo	und	E	ast Bo	ound	We	est Bo	ound
	Movement:	ъ.	- T'	- R	L ·	- T	- R	L.	т	- R	L .	T	- R
								1		!	1		
	Min. Green:	. 0	0	0	0	0	0	0	0	o`	0	0	0
	Volume Module	e:											
	Base Vol:	0	0		103	0	13	32	84	-0	0	57	81
	Growth Adj:		1.24			1.24	1.24		1.24	1.24		1.24	1.24
	Initial Bse:	0	. 0	0	128	0	16	40	104	0	0	71	100
	Added Vol:	0		0	0	0	41	74	149	0	0	82	0
	Campus Incr:	0	0	0	0	0	0	0	0	0	0	0	0
	Initial Fut:	0	0	0	128	0	57	114	253	0	0	153	100
	User Adj:			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	PHF 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
٠.	PHF Volume:	0	0	0	128	. • 0	57	114	253	0	O	153	100
	Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
	Reduced Vol:	0	0	0	128	0	57	114	253	0	0	153	100
	PCE 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
	MLF 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
	Final Vol.:	0	0	0	128	0	57	114	253	. 0	0	153	100
					-,								
	Saturation F	low Mo	odule:	:									
	Adjustment:											1.00	
	Lanes:			0.00						0.00	0.00	0.60	
	Final Sat.:	0	0	0	532	. 0	646	220	491	0	0	437	288
		1											
	Capacity Ana:												
	VoI/Sat:	XXXX	XXXX	XXXXX		XXXXX	0.09	0.52	0.52	XXXX	XXXX		0.35
	Crit Moves:				***				****			****	
	Delay/Veh:		0.0			0.0			12.9	0.0		10.3	10.3
	Delay Adj:		1.00			1.00	1.00		1.00	1.00		1.00	1.00
	AdjDel/Veh:	0.0	0.0	0.0	10.9	0.0	8.4		12.9	0.0		10.3	10.3
	LOS by Move:	*	*	*	В	*	A	В	_	*	*	В	В
	ApproachDel:	30	CCCCC			10.1			12.9			10.3	
	Delay Adj:	2	COCOC			1.00			1.00			1.00	
	ApprAdjDel:	x	XXXXX			10.1			12.9			10.3	
	LOS by Appr:		*			В			В			В	

Intersection #3: Delaware/Swanton [N/S: Swanton E/W; Delaware]

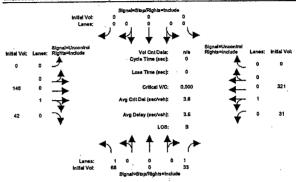


Approach:	No	rth Bo	ound	Sou	ith Bo	ound	Ea	st Bo	und	We	st Bo	und
Movement:	L.	- T	- R	L -	- T	- R	L.	т	- R		- т	
Volume Modul	e:											
Base Vol:	55	0	27	0	0	0	. 0	60	34	25		0
Growth Adj:	1.24	124	1.24	1.24	1.24	1.24	1.24	1.24	1.24			1.24
Initial Bse:	6 B	0	33	0	0	0	0	74	42	31	191	0
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Campus Incr:	0	0	0	0	0	0	0	-	0	0	O	0
Initial Fut:	68	0	33	0	0	0	. 0	74	42	31	191	0
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00		1.00	1.00
PHF Adj:	1.00	1.00	1.00		1.00	1.00		1.00	1.00	1.00		1.00
PHF Volume:	68	0	33	0	. 0	0	0	74	42	31	191	0
Reduct Vol:	0	0	0	0	0	0	0	٠ ٥	. 0	0	0	0
Final Vol.:	68	0	33	0	0	0	.0	74	42	31	191	. 0
Critical Gap	Modu.	le:										
Critical Gp:	6.4	XXXX							XXXXXX			XXXXX
FollowUpTim:									XXXXXX			XXXXX
			·									
Capacity Mod	ule:											
Cnflict Vol:	348	XXXX	95	XXXX	XXXX	XXXXX	XXXX	XXXX	XXXXX		-	XXXXX
Potent Cap.:				XXXX	XXXX	XXXXX			XXXXXX			XXXXX
Move Cap :					XXXX	XXXXX	XXXX	XXXX	XXXXXX			XXXXX
,												
Level Of Ser												
Stopped Del:											XXXX	XXXXX
LOS by Move:				*		*	*	*	•	A	*	*
Movement:				LT				- LTR			- LTR	
Shared Cap.:												XXXXX
Shrd StpDel:	XXXXX	XXXX	XXXXX								XXXX	XXXXX
Shared LOS:	•	*	*	*		. *	*	*	*	A	*	•
ApproachDel:		10.5		×	XXXXX		×	XXXXX		×	XXXXX	
ApproachLOS:		В			*			*			•	

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Level Of Service Computation Report 2000 HCM Unsignatized (Future Volume Alternative) 2020 Plus Phase 1 and 2 AM

Intersection #3: Delaware/Swanton [N/S: Swanton E/W: Delaware]



Cilitate a pla colore a research													
Approach: North Bound South Bound									ound		st Bo		
Movement:	L ·	- T	- R	L.	- Т	- R	L ·	- T	- R	, ь -	· T	- R	
	l												
Volume Module	9:												
Base Vol:		0				-	. 0		34				
Growth Adj:	1.24	1.24			1.24	1.24		1.24					
Initial Bse:	68	0	33	0	-		0		42	31		0	
Added Vol:	0	0	0	•	. 0	0	0		0	0	130	0	
Campus Incr:	. 0	. 0	0	0		0	-	0	- 0	0	0	0	
Initial Fut:		0		0		0	0		42				
User Adj:			1.00					1.00			1.00		
PHF Adj:	1.00	1.00	1.00	1.00				1.00			1.00		
PHF Volume:	68	0	33	. 0		_	-	146		31		0	
Reduct Vol:				0			•	. 0	_		0	0	
Final Vol.:	68	0	33	0	0	0	0	146	42	31	321	0	
Critical Gap													
Critical Gp:	6.4	XXXX	6.2	XXXXX	XXXXX	XXXXX	3000000	XXXX	XXXXX	4.1	XXXX	XXXXX	
FollowUpTim:	3.5	XXXXX	3.3	XXXXX	XXXXX	XXXXXX	XXXXX	XXXX	XXXXX			XXXXXX	
		<b>-</b> -											
Capacity Mod	ile:												
Cnflict Vol:						XXXXX			XXXXXX				
Potent Cap .:	496	XXXX	877	XXXXX	XXXXX	XXXXX	XXXXX	XXXX	XXXXXX	1368	XXXX	XXXXXX	
Move Cap.:	487	XXXXX	877	XXXXX	XXXX	XXXXX	XXXXX	XXXXX	XXXXX	1368		2000000	
Level Of Ser													
Stopped Del:	13.6	XXXX	9.3	XXXXX	XXXX	XXXXX	XXXXXX	XXXX	XXXXX	7.7		XXXXXX	
LOS by Move:	В	*	A	*		*	*	*	*	A	*	•	
Movement:				LT	- LTR	- RT	LT	- LTR	- RT	LT -	- LTR	- RT	
Shared Cap.:	XXXX	XXXX	XXXXX	XXXXX	XXXX	XXXXXX	XXXX	XXXX	XXXXX	XXXX	XXXX	XXXXX	
Shrd StpDel:	20000	жж	XXXXX	XXXXXX	30000	XXXXX	XXXXXX	XXXX	XXXXXX	7.7	XXXX	XXXXX	
Shared LOS:			*		*	*	*	*	*	A	*	*	
ApproachDel:		12.2		×	XXXXX		x	xxxxx		10	XXXXX		
ApproachLOS:		В						*			*		

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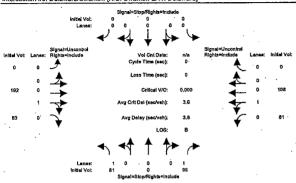
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### November 2003

Level Of Service Computation Report 2000 HCM Unsignalized (Future Volume Alternative) 2020 Baseline PM

Intersection #3: Delaware/Swanton [N/S: Swanton E/W: Delaware]

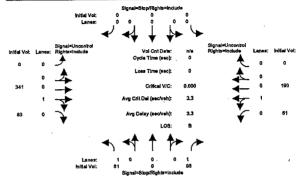


Approach: No	rth Bound	South B	ound	East Bound	West Bound
Movement: L	- T - R	L - T	- R L	- T - R	L - T - R
		11			
Volume Module:		• •			
Base Vol: 65	0 77	' 0 0	0	0 155 67	49 87 0
Growth Adj: 1.24	1.24 1.24	1.24 1.24	1.24 1.2	4 1.24 1.24	1.24 1.24 1.24
Initial Bse: 81	0 95	0 0	0	0 192 83	61 108 0
Added Vol: 0	0 0	0 0	0	0 0 0	0 0 0
Campus Incr: 0	0 0	0 0	0	0 0 0	0 0 0
Initial Fut: 81	0 95	0 0	0	0 192 83	61 108 0
User Adj: 1.00	1.00 1.00			0 1.00 1.00	1.00 1.00 1.00
PHF Adj: 1.00	1.00 1.00	1.00 1.00	1.00 1.0	0 1.00 1.00	1.00 1.00 1.00
PHF Volume: 81	. 0 95	0 0	0	0 192 83	61 108 0
Reduct Vol: 0	0 0	0 .0	0	0 0 0	0 0 0
Final Vol.: 81	. 0 95	0 0	0	0 192 83	61 108 0
Critical Gap Modu	le:				
Critical Gp: 6.4	хжжж 6.2	XXXXX XXXXX	XXXXX XXXX	OCCUPATION AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND AND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND A SECOND	4.1 XXXX XXXXX
FollowUpTim: 3.5	жжж 3.3	XXXXX XXXXX	XXXXX XXXX	X XXXX XXXXX X	2.2 20000 200000
Capacity Module:		4.5	* .		
Cnflict Vol: 463	xxxx 234	XXXX XXXX		X XXXX XXXXX X	
Potent Cap.: 557	XXXX 805	XXXX XXXX		X XXXX XXXXX	
	жжж 805		COCK XCXCXCX	X XXXX XXXXX X	1271 XXXX XXXXX
1					
Level Of Service					
Stopped Del: 12.9					
LOS by Move: B		* *	* 1	,	A * *
	- LTR - RT	LT ~ LTR		' - LTR - RT	LT - LTR - RT
Shared Cap.: XXXX				DK XXXXX XXXXXX	
Shrd StpDel:xxxxx					
Shared LOS: *	* *	* *	* 1	* * *	A * *
ApproachDel:	11.4	xxxxxxx	:	XXXXXXX	XXXXXXXX
ApproachLOS:	В	*		*	*

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Level Of Service Computation Report 2000 HCM Unsignatized (Future Volume Alternative) 2020 Plus Phase 1 and 2 PM

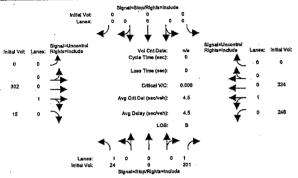
Intersection #3: Delaware/Swanton [N/S: Swanton E/W: Delaware]



	Minds	u voi.	Signa	l=8lop/Righ	br¤inckide	25						
Approach:	No:	rth Bo	ound	Soil	uth Bo	ound	E		ound			
Movement:	L.	- т	- R	L ·	- T	- R	L	- T	- R	L ·	- Т	- R
Volume Module				0		0		155	67	49	87	. 0
Base Vol:		0									1.24	
Growth Adj:									83		_	
Initial Bse:		0				0	, 0				82	0
Added Vol: Campus Incr:	0	0			. 0			149	0			-
Campus Incr:	0	-	_	•	0	-	_	0	-	_	0	0
Initial Fut:			95			0						
User Adj:									1.00		1.00	
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00					1.00	
PHF Volume:	81	0	95	0		. 0		341		61		0
Reduct Vol:	0	0	. 0	0	0	. 0	0	0	0	0	0	0
Final Vol.:	81	0	95	0	. 0	0	0	341	83	61	190	. 0
Critical Gap	Modu.	le:							,			
Critical Go:	6.4	XXXXX	6.2	XXXXXX	XXXX	XXXXX	XXXXX	XXXX	XXXXX	4.1	XXXX	XXXXX
FollowUpTim:	3.5	XXXX	3.3	xxxxx	XXXX	XXXXX	XXXXXX	XXXX	XXXXX	2.2	XXXX	XXXXX
	1		<i>-</i>	11			}			1		
Capacity Mod										•		
Cnflict Vol:	694	xxxx	383	XXXX	xxxx	xxxxx	XXXX	xxxx	XXXXXX	424	XXXX	XXXXX
Potent Cap.:	409	XXXX	665	xxxx	XXXX	XXXXX	200000	XXXX	200000	1119	XXXX	XXXXXX
Move Cap.:		XXXX							XXXXX		XXXX	XXXXXX
	1			11			11					
Level Of Ser				''			• •					•
Stopped Del:				200000	xxxx	XXXXX	XXXXX	жж	XXXXX	8.4	XXXX	XXXXX
LOS by Move:		*	В		*	*		*	*		*	*
Movement:	7.17	- t.TR	- RT	LT ·	- LTR	- RT	LT	- LTR	- RT	LT	- LTR	- RT
Shared Cap.:											XXXX	XXXXX
Shrd StpDel:	*****	YYYY	XXXXX	MAXXX	XXXX	XXXX	XXXXXX	XXXX	xxxx	8.4	жж	XXXXXX
Shared LOS:				*		*	*		*	A	*	
ApproachDel:					XXXXX			XXXXX			XXXXX	
ApproachLOS:		13.7		^-	****		^-	*			*	
ApproachLOS:		В			-			-				

Level Of Service Computation Report
2000 HCM Unsignalized (Future Votume Alternative)
2020 Baseline AM

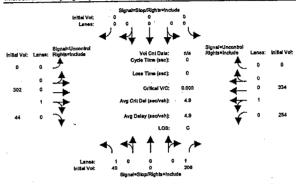
Intersection #4: Bay/Laguna [N/S:Laguna E/W: Bay]



Volume Module: Base Vol: 19 0 162 0 0 0 0 239 12 198 253 0 Growth Adj: 1.24 1.24 1.24 1.24 1.24 1.24 1.24 1.24	Approach:	Non	th Bo	und	Sou	th Bo	und		ast Bo			st Bo	
Volume Module: Base Vol: 19 0 162 0 0 0 0 239 12 198 253 0 Growth Adj: 1.24 1.24 1.24 1.24 1.24 1.24 1.24 1.24	Movement:	_	_			_					, Ե	- т	- R
Base Vol: 19 0 162 0 0 0 0 239 12 198 253 0  Growth Adj: 1.24 1.24 1.24 1.24 1.24 1.24 1.24 1.24													
Base Vol: 19 0 162 1 24 1.24 1.24 1.24 1.24 1.24 1.24 1.2													
Table   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00			_		-	-	-						-
Added Vol: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0													
AGGRETORY 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			-		-	_	-	_					-
Tanitial Fut: 24 0 201 0 0 0 0 302 15 246 334 0  User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Added Vol:	0		-			-	-		-	-		
Initial Ful: 24	Campus Incr:		-	-	•	-	-	•	-	-	•		•
1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Initial Fut:	24	0			-							
PHF Volume: 24 0 201 0 0 0 0 302 15 246 334 0 Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	User Adj:												
Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PHF Adj:	1.00	1.00	1.00	1.00	1.00							
Final Vol.   24	PHP Volume:	. 24	0	201	0	0	0	-					_
A	Reduct Vol:	0	0	0	0	0	•	-	•	_	-	_	•
Critical Gp	Final Vol.:	24	0	201	0	0	0	0	302	15	246	334	0
1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0	Critical Gap	Modu.	le:										
Capacity Module:   Caflicit Vol: 1135 MOKK   310   MOKK MOKK MOKK MOKK MOKK MOKK MOKK MO	Critical Gp:	6.4	XXXXX										
Capacity Module: Cnflict Vol: 1135 MODE	FollowUpTim:	3.5	XXXX	3.3								XXXX	XXXXX
Conflict Vol: 1135 NOCK   310 NOCK NOCK NOCK   NOCK NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK   NOCK											ļ		
Potent Cap.: 225   2000   735   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   2000   200	Capacity Mod	ıle:											
Move Cap	Cnflict Vol:	1135	XXXX	310	XXXX	XXXX	XXXXXX	XXXX	XXXXX	XXXXXX			
Level Of Service Module:	Potent Cap.:	226	XXXX	735	XXXX	XXXX	XXXXX	XXXXX	XXXX	XXXXXX			
Level Of Service Module:       Stopped Del: 27.1 xxxxx 11.7 xxxxx xxxx xxxxx xxxxx xxxx	Move Cap .:	186	XXXX	735	XXXX	XXXX	XXXXX	XXXXX	XXXX	XXXXX	1254	XXXX	xxxxxx
Stopped Del: 27.1   DOCK   11.7   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   DOCK   D													
LOS by Move: D * B * * * * * * * * * * * * * * * * *													
LOS by Move: D	Stopped Del:	27.1	XXXX	11.7	XXXXX	XXXX	XXXXX		XXXX				
Shared Cap: xxxx xxxx xxxx xxxx xxxx xxxx xxxx x	LOS by Move:	D	*	В	*	*	*	*	*	*			
Shared LOS:         * * * * * * * * * * * * * * * * * * *	Movement:	LT	- LTR	- RT	LT ·	LTR	- RT	LT	- LTR	- RT	LT	- LTR	- RT
Shared LOS: * * * * * * * * * * * * * * * * * * *	Shared Cap.:	xxxx	XXXX	XXXXX	XXXX	XXXX	XXXXXX	XXXX	XXXX	XXXXX			
Shared LOS: * * * * * * * * * * * * * * * * * * *	Shrd StpDel:	00000	xxxx	XXXXX	XXXXX	XXXX	XXXXX	XXXXXXX	XXXXX	XXXXXX		XXXX	
ApproachDel: 13.3 XXXXXX XXXXXX XXXXXX	Shared LOS:	*	*	*	*	*	*	*	*	*	A	*	*
	ApproachDel:		13.3		30	XXXXX		×	XXXXX		×	XXXXX	
	ApproachLOS:		В			*			*			*	

Level Of Service Computation Report 2000 HCM Unsignalized (Future Volume Allemative) 2020 Plus Phase 1 and 2 AM

Intersection #4: Bay/Laguna [N/S:Laguna E/W: Bay]



	3110-		Signal	≈Stop/Right	b≃include							
Approach:	No	th Bo	und	Sou	ith Bo	und	Ea	ast Bo	und	We	est Bo	ound
	T .		10	T	- т	- R	T: -	- T	- R	ъ.	- T	- R
movement:												
Volume Module												
Base Vol:			162					239			253	
Growth Adj:	1.24	1.24	1.24	1.24	1.24	1.24		1.24			1.24	
Initial Bse:		0	201	0	0	0	0				314	
Added Vol:	16	0	5	0	0	0		0		8		
Campus Incr:	0	. 0	0	0	0	0			0			-
Initial Fut:	40	0	206	0	0	0		302		254		
User Adj;	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	
PHF Adj:				1.00	1.00	1.00	1.00	1.00	1.00		1.00	
PHF Volume:				0	0	0	0	302			334	
Reduct Vol:	Ö	. 0	0	0	0	0	0	0	0	0		
Final Vol.:	40	0	206	0	0	0	0	302	44	254	334	0
Critical Gap	Modu.	le:										
Critical Gp:	6.4	XXXX	6.2	XXXXXX	XXXX	XXXXX	XXXXXX	XXXX	XXXXXX	4.1	XXXX	XXXXX
PollowInTim:	3.5	XXXX	3.3	XXXXX	XXXX	XXXXXX	XXXXX	XXXXX	XXXXXX	2.2	XXXXX	COCCCC
Capacity Mod	ule:											
Coflict Vol:	1165	XXXX	324	XXXX	XXXX	XXXXXX	XXXX	XXXX	XXXXX	346	xxxix	XXXXXX
Potent Cap.:	217	XXXX	721	XXXX	XXXX	200000	2000	XXXX	XXXXXX	1224		XXXXX
Move Can :	176	XXXX	721	20000	XXXX	2000000	XXXXX	XXXX	XXXXXXX	1224		XXXXXX
Level Of Ser	vice :	Module	<b>:</b> :									
Stopped Del:	31.2	XXXX	12.0	XXXXXX	XXXX	200000	XXXXX	XXXX	XXXXX	8.7		XXXXX
LOS by Move:	D	*	В	*	*	*	*	*	*	A	.*	*
Movement:	LT	- LTR	- RT	LT	- LTR	- RT	$r_{x}$	- LTR	- RT	LT	- LTR	
Shared Cap.:	XXXX	XXXX	XXXXX	XXXX	XXXX	XXXXXX	XXXXX	XXXX	XXXXX			XXXXX
Shrd StpDel:	XXXXXX	XXXX	XXXXX	XXXXXX	XXXX	XXXXXX	XXXXXX	XXXX	XXXXXX	8.7		XXXXXX
Shared LOS:		*	* .	*	*	*	*	•	*	A	*	
ApproachDel:		15.1		ж	XXXXX		×	XXXXXX		×	XXXX	
ApproachLOS:		C			*			•			*	
T-FF HOMEOF												

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ApproachDel:

ApproachLOS:

XXXXXX

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16.7

XXXXXX XXXXX

Level Of Service Module: LOS by Move: D * В LT - LTR - RT Movement: LT - LTR - RT LT - LTR - RT LT - LTR - RT Shared LOS:

Critical Gap Module: -----| Capacity Module: 

0 406 246 369 29 0 280 0 0 0 0 ٥ 0 0 280 0 406 19 246 369 29 0

246 369 Initial Fut: 29 0 280 406 19 1 00 User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 PHF Volume: Reduct Vol: Final Vol.:

18

Added Vol: 0 ο

246 357 0 388 19 Initial Bse: 29 0 280 0

0 226 0 313 Base Vol: 

West Bound Approach: North Bound South Bound East Bound L - T - R L - T - R L - T - R Movement: ______ Volume Module:

Loss Time (seck Ave Crit Del (sec/veh):

Intersection #4: Bay/Laguna [N/S:Laguna E/W: Bay]

Level Of Service Computation Report 2000 HCM Unsignelized (Future Volume Atlamative) 2020 Baseline PM

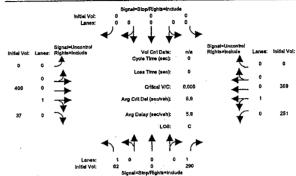
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Level Of Service Computation Report 2000 HCM Unsignalized (Future Volume Alternative) 2020 Plus Phase 1 and 2 PM

Intersection #4: Bay/Laguna [N/S:Laguna E/W: Bay]

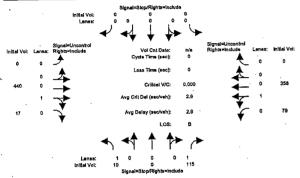


			Signa	l=9top/Right	a=indude							
Approach:	No	rth Bo	und	Sou	ith Bo	bund	E	ast Bo	ound	We	est Bo	bund
Morrement .	t	- Т	- R	L.	T	- R	L.	- T	- R	ъ.	- T	- R
Volume Module										1		
Base Vol:		0	226	0	. 0	0	0	313	15	198	288	0
Growth Adj:					1.24	_			1.24		1,24	
Initial Bse:			280			-1-0	0			246		0
Added Vol:			10		-		-	0		5	0	ō
Campus Incr:	23	. 0	-0							ō	12	0
Initial Fut:			290	-	ő	-	ō			251	369	0
User Adj:				-	1.00		1.00				1.00	1.00
PHF Adj:					1.00		1.00			1.00	1.00	1.00
PHF Volume:			290					406		251		0
Reduct Vol:					_	-		0	0	0	0	0
Final Vol.:					ő	-	0		37	251	369	Ö
Critical Gap			200		•	_	_		•			
Critical Gp:	6 4	****	6.2	200000	xxxx	xxxxx	xxxxx	xxxx	xxxxx	4.1	200000	XXXXX
FollowUpTim:				XXXXX	xxxx	XXXXX	XXXXX	XXXX	XXXXX	2.2	XXXX	XXXXX
FOITOWODITM:	1			11			11		1	1		
Capacity Mod				• •			• •		,			
Cnflict Vol:		xxxx	424	XXXXX	2000	xxxxx	xxxx	XXXX	XXXXX	443	XXXX	XXXXX
Potent Cap.:					XXXX	жжж	XXXX	XXXX	XXXXX	1128	XXXX	XXXXXX
Move Cap.:				XXXX				XXXX	XXXXX	1128	XXXX	XXXXX
	1											
Level Of Ser										•		
Stopped Del:				XXXXX	XXXX	XXXXX	XXXXXX	xxxx	XXXXX	9.1	200000	XXXXXX
LOS by Move:				*	*	*	*	*	*	A	*	*
Movement:	T.T	- LTR	- RT	LT	- LTR	- RT	LT	- LTR	- RT	LT	- LTR	- RT
Shared Cap.:											XXXX	XXXXX
Shrd StpDel:	XXXX	XXXX	XXXXX	200000	XXXX	XXXXX	XXXXXX	XXXX	100000	9.1	XXXX	XXXXX
Shared LOS:		*	*	*			*	*	*	A	*	*

ApproachDel: 20.9 XXXXXX XXXXXX XXXXXX ApproachLOS: C

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Intersection #5: SR 1/Shaffer [N/S: Shaffer E/w: SR 1]

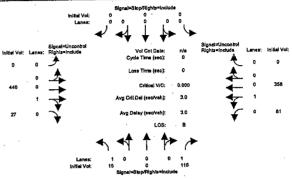


Approach:	Noi	th Bo	und	Sou	th Bo	und	Ea	st Bo	und		st Bo	
Movement:	L .	·T	- R	L -	T	- R	L -	· T	- R	L·~	T	- R
				1								
Volume Module			,				•					_
Base Vol:	8	0	93	0	0	0		351	. 14	64	288	.0
Growth Adj:	1.24	1.24	1.24	1.24	1.24	1.24		1.24	1.24	1.24		1.24
Initial Bse:	10	0	115	0	0	0	0	435	17	79	357	0
Added Vol:	0	0	0	0	0	0	0	0	0	- 0	0	0
Campus Incr:	0	0	0	0	0	0	0	. 5	0	0	1	0
Initial Fut:	10	0	115	0	0	0	0	440	17		358	0
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00
PHF Volume:	10	0	115	0	0	0	0	440	17	79	358	0
Reduct Vol:	0	. 0	0	0	0	0	0	0	0	0	0	0
Final Vol.:	10	0	115	, 0	0	0	0	440	17	79	358	0
Critical Gap	Modu.	le:							*			
Critical Gp:	6.4	XXXX							XXCCCX			XXXXX
FollowUpTim:	3.5	XXXX		XXXXXX							XXXX	XXXXXX
			'							\		
Capacity Mod												
Cnflict Vol:		xxxx	449	XXXX	XXXX	XXXXX	XXXX	XXXX	XXXXXX			XXXXX
Potent Cap .:	285	XXXX	614	XXXX	XXXX	XXXXX	XXXX	XXXX	XXXXXX			XXXXXX
Move Cap.:		XXXX				XXXXX			XXXXX			XXXXX
Level Of Ser												
Stopped Del:	18.9	XXXX	12.2	XXXXX	XXXX	XXXXX		XXXX	XXXXX			XXXXX
LOS by Move:	c	*	В		*		*	*	*	A	*	*
Movement:	LT	- LTR	- RT	LT ·	- LTR	- RT		- LTR				- RT
Shared Cap.:	XXXX	XXXX	XXXXX			XXXXXX			XXXXX			XXXXX
Shrd StpDel:	xxxx	XXXX	XXXXX	XXXXX	XXXX	XXXXXX	XXXXX	XXXX	XXXXX			XXXXX
Shared LOS:	*	*	*	*	*	*	*	*	*	A	*	*
ApproachDel:		12.7		×	XXXXX		×	XXXXX		X	XXXXX	
ApproachLOS:		В			*			*			*	

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Level Of Service Computation Report 2000 HCM Unsignation (Fubra Volume Alternative) 2020 Plus Phase 1 and 2 AM

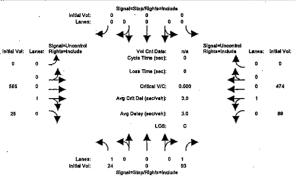
Intersection #5: SR 1/Shaffer [N/S: Shaffer E/w: SR 1]



Approach:	Not	th Bo	nnd	Sou	ith Bo	und	Ea	st Bo	und	We	st Bo	ound
M	7	- т	_ 10	7	. т	- R	L -	· T	- R	ъ -	T	- R
MOVEMETT:	- <b></b>			11			1		1			
Volume Module			'				•			•		
Base Vol:			0.3	0	0	0	0	351	14	64	288	0
Growth Adj:						1.24				11.24	1.24	1.24
		0	115		0	0			17		357	
Initial Bse:		0				0		- 0	10	2	. 0	0
			0	0		Ď	-	5	-0		1	ō
Campus Incr:	_	-		•	-	-	•	440	-		358	
Initial Fut:						1.00	-	1.00			1.00	
User Adj:								1.00			1.00	
PHF Adj:						1.00		440			358	
PHF Volume:					0	-			27		. 330	٥
Reduct Vol:		0	0	•	-	0				-	358	•
Final Vol.:		0	116	0	0	0	0	440	27	81	356	·
Critical Gap	Modu:	le:										
Critical Gp:	6.4	XXXX	6.2	30000X	XXXX	XOCOCK	XXXXXX	XXXX	XXXXX	4.1	XXXX	XXXXXX
FollowUpTim:	9.5	XXXX	3.3	XXXXX	XXXX	XXXXX	XXXXX	XXXXX	XXXXX	2.2	XXXX	XXXXXX
Capacity Mod	ule:											
Cnflict Vol:	975	XXXX	454	XXXX	XXXX	XXXXX	XXXX	XXXXX	XXXXXX	468	XXXX	XXXXX
Potent Cap.:	281	XXXX	610	XXXX	XXXXX	XXXXX	XXXXX	XXXX	XXXXXX	1105	XXXX	XXXXX
Morre Can :	265	XXXX	610	XXXX	XXXX	XXXXXX	XXXXX		XXXXXX			XXXXXX
	1			11								
Level Of Ser				٠.			• •					
Stopped Del:	19 4	YYYY	12.3	xxxxx	xxxx	XXXXX	XXXXXX	XXXX	XXXXXX	8.5	XXXX	XXXXXX
LOS by Move:	17.7	*	B	*	*	*	*	. *	*	A	*	
Movement:		T 1770	יים .	T-FF	- 1.TR	- RT	LT	- LTR	- RT	LT ·	- LTR	- RT
Shared Cap.:	TIT	- niv	- 1/1	****	XXXX	XXXXX					XXXXX	XXXXXX
Shrd StpDel:	****	****	*****	*****	XXXX	XXXXX	XXXXX	XXXX	XXXXX	8.5	XXXX	2000000
		*	*	*	*	*	*	*	*	A	*	. *
Shared LOS:			-	-	XXXXX			20000		ж	20000	
ApproachDel:					*		_	*			*	
ApproachLOS:		В			_							1

November 2003
Level Of Service Computation Report
2000 HCM Unsignalized (Future Volume Allemetive)
2020 Baseline PM

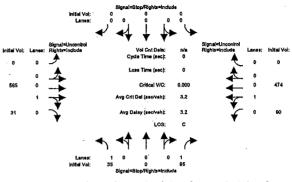
Intersection #5: SR 1/Shaffer [N/S: Shaffer E/w: SR 1]



Approach:	No	rth B	ound	So	ith B	ound	E	ast B	ound		est B	
Movement:	. L	- т	- R			- R			- R	L,	• т	- R
	i											
Volume Module		_			_	_						
Base Vol:	19		75	0		0		453	20	72	378	0
Growth Adj:		1.24	1.24	1.24		1.24	1.24		1.24	1.24		1.24
Initial Bse:	24	0	93	0	0	0	0	562	. 25	89	469	0
Added Vol:	0	0	0	0	0	0	0	.0	0	0	0	0
Campus Incr:	0	0	0	0	٥	0	0	. 3	0	0	5	0
Initial Fut:	24	0	93	0	0	0	0	565	25	89	474	. 0
User Adj		1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00
PHF Adj:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00
PHF Volume:	24	0	93	0	0	0	0	565	25	89	474	0
Reduct Vol:	_	0	0	0	0	0	0	0	0	0	0	0
Final Vol.:	24	0	93	0	.0	0	0	565	25	89	474	0
Critical Gap	Modu.	le:										
Critical Gp:			6.2	XXXXX	XXXX	XXXXX	XXXXX	XXXX	XXXXX			XXXXXX
FollowUpTim:	3.5	XXXX	3.3	XXXXX	XXXX	XXXXX	XXXXXX	XXXX	XXXXX	2.2	XXXX	XXXXX
				il								
Capacity Modu	ıle:											
Cnflict Vol:	1229	XXXX	577	XXXX	XXXX	XXXXX	XXXXX	XXXX	XXXXX	590	XXXX	XXXXX
Potent Cap.:	198	xxxx	520	XXXX	xxxx	XXXXX	XXXX	XXXX	XXXXX	996	XXXX	XXXXXX
Move Cap.:	184	XXXX	520	XXXXX	XXXX	200000	XXXX	XXXX	XXXXXX	996	XXXX	XXXXX
							11					
Level Of Serv	vice 1	Module	<b>:</b>				• •			•		
Stopped Del:	27.4	XXXX	13.4	XXXXX	XXXX	XXXXX	XXXXX	XXXX	XXXXX	9.0	XXXX	XXXXX
LOS by Move:	Ď	*	В	*	*			*	*	A	*	*
Movement:	LT ·	- LTR	- RT	LT ·	- LTR	- RT	LT	- LTR	- RT	LT ·	LTR	- RT
Shared Cap .:	XXXX	XXXX	xxxxx	XXXX	200000	xxxxx	XXXX	XXXX	XXXXX	XXXXX	XXXX	XXXXX
Shrd StpDel:	00000	xxxx	xxxxx	200000	XXXX	XXXXX	xxxxx	xxxx	ххххх	9.0	XXXX	XXXXX
Shared LOS:	*	*	*	*	*	*	*	*	*	A	*	•
ApproachDel:		16.3		303	00000		x	жжж		303	00000	
ApproachLOS:		C			* 1			*			*	
					1							

Level Of Service Compitation Report 2000 HCM Unsignalized (Future Volume Allemative) 2020 Plus Phase 1 and 2 PM

Intersection #5: SR 1/Shaffer [N/S: Shaffer E/w: SR 1]



	-		Signa	=Stop/Righ	b=Include							
Approach:	No	rth Bo	ound	Sou	ith Bo	ound	E	ast Bo	ound	We	st Bo	ound
Movement:	L ·	- T	- R	L ·	- т	- R	L ·	- T	- R	L.	- т	- R
Volume Module	e:											
Base Vol:	19	0	75					453			378	
Growth Adj:	1.24	1.24	1.24	1.24			1.24			1.24		1.24
Initial Bse:		0		-	0	0	_		25			0
Added Vol:	11	0	2		0	0	0	0	6	1		0
Campus Incr:	0	. 0	0	0	. 0			3	0		5	0
Initial Fut:	35	0	95	0	0	٥	0	565	31	90	474	
User 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
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00		1.00	1.00
PHF Volume:	35	0	95	0	0	0	0	565	31	90	474	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Final Vol.:	35	0	95	0	0	0	0	565	31	90	474	0
Critical Gap												
Critical Gp:	6.4	XXXXX	6.2	XXXXXX	XXXXX	XXXXXX	XXXXX	XXXX	XXXXX	4.1	XXXX	XXXXX
FollowUpTim:	3.5	XXXX	3.3	XXXXX	XXXX	XXXXXX	XXXXX	XXXXX	XXXXX	2.2	XXXX	XXXXX
							11					
Capacity Modu	ıle:											
Cnflict Vol:									XXXXX		жжж	XXXXX
Potent Cap.:	197	XXXXX	518	XXXXX	XXXX	XXXXX	XXXX	XXXX	XXXXX			XXXXX
Move Cap.:		XXXX							XXXXXX			XXXXX
Level Of Serv	vice 1	Module	2:									
Stopped Del:	29.3	XXXXX	13.5								XXXX	XXXXX
LOS by Move:	D	*	В	*	•	•	*	*	*	A		*
Movement:	LT ·	- LTR	- RT	LT ·	- LTR	- RT	LT ·	- LTR	- RT	LT .	- LTR	- RT
Shared Cap.:										XXXX	XXXX	XXXXX
Shrd StpDel::	COCC	20000	XXXXX					XXXX	XXXXXX	9.0	XXXX	XXXXXX
Shared LOS:	*	*	*	*	. *	*	*	*	*	A	*	*
ApproachDel:		17.7		20	occo		30	KOOOOK		303	COOC	
ApproachLOS:		C			.*			*			*	

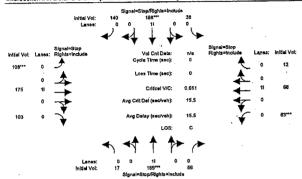
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November 2003

Level Of Service Correputation Report.

1000 HCM 4-Way Stop (Future Volume Alternative

Intersection #8: Delaware/Swift [N/S: Swift E/W: Delaware]



Approach:	Noz	th Bo	und	Sou	ith Bo	und		st Bo			st Bo	
Movement.	t. ·	- т	- R	L.	- T	- R	L -	T	- R		T	
	l			1								
Min Creen.		n	0	0	0	0	٥	. 0	٥	0	0	0
-1	1											
Volume Module	ė:			•								
Base Vol:	14	136	53	31	152	113	87	141	83	51	53	10
Growth Adj:	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24		1.24
Initial Bse:			66	38	188	140	108	175		63	66	12
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Campus Incr:	ō	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:			66	38	188	140	108	175	. 103			12
User Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00
PHF 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
	17		66	38	188	140	108	175	103	63	66	12
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:			66	38	188	140	108	175	103	63	66	12
PCE Adj:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:				1.00		1.00	1.00	1/00	1.00	1.00	1.00	1.00
Final Vol :	17	169	66	3.8	188	140	108	175	103	63	66	12
	1			1						1		
Saturation F	low M	ndule:	. '			'	•			•		
Adjustment:				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
banes:	0.07	0.67	0.26	0.10	0.52	0.38	0.28	0.45	0.27	0.45	0.46	0.09
Final Sat.:	38	373	146	63	308	229	166	268	158	219		43
	1											
Capacity Ana						•			•			
Vol/Sat:	0.45	0.45	0.45	0.61	0.61	0.61	0.65	0.65	0.65		0.29	0.29
Crit Moves:					****		****			****		
Delay/Veh:	13.1	13.1	13.1	16.2	16.2	16.2	17.7	17.7	17.7	11.5	11.5	11.5
Delay Adj:	1.00	1.00	1.00		1.00		1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	13.1	13.1	13.1		16.2		17.7	17.7	17.7	11.5	11.5	11.5
LOS by Move:				C	C		C	С	C	В	В	В
ApproachDel:	~	13.1	_		16.2			17 7			11.5	
ApproachDel: Delay Adj:		1.00			1.00			1.00			1.00	
AnnradiDel		13.1			16.2			17.7			11.5	
ApproachDel: Delay Adj: ApprAdjDel: LOS by Appr:		В			C			C			В	

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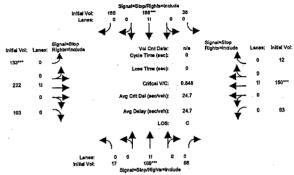
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November 2003

Level Of Service Computation Report 2000 HCM 4-Way Stop (Future Volume Alternative) 2020 Plus Phase 1 and 2 AM

Intersection #6: Delaware/Swift [N/S: Swift E/W: Delaware]



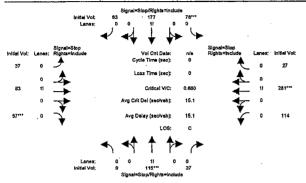
	THUM	1 VOI.	Signals	-Stop/Right	b≃indude							
Approach:	Nor	th Bo	und	Sou	ith Bo	und	Ea	st Bo	und		st Bo	
	7 .	. m	_ D	L ·	T	- R	ь.	- т	- R	L -	T	- R
Movement:												
win dwaren.				0	0	0	0	0	0	Q	U	U
min. Green:									1			
Volume Module	e:											
Base Vol:	14	136	53	31		113			83	51	53	10
Growth Adj:	1.24	1.24			1.24	1.24		1.24	1.24	1.24		1.24
Initial Bse:	17	169	66	38		140	108		103	63	66	12
Added Vol:	0	0	0	0	0	46	25	47	0	0	84	0
Campus Incr:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	17	169	66	38		186	133	222	103		150	12
User Adj:	1.00	1.00	1.00		1.00	1.00		1.00	1.00			
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00
PHF Volume:		169	- 66	38	188	186	133	222	103	63	150	12
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:		169	66	38	188	186	133		103		150	12
PCE Adj:		1.00	1.00	1.00	1.00	1.00		1.00				
MLF Adi:		1.00	1.00	1.00	1.00			1.00				1.00
m21 17-1 .	17	160	66	38	188	186	133	222	103	63		12
rinai voi.:	1			1		- <i></i>						
Saturation F				•								
Adjustment:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Lanes:		0.67		0.09	0.46	0.45	0.29	0.49	0.22			0.06
Pinal Cat .	32	309	120	50	243	240		262			296	25
	1						,			.		
Capacity Ana												
Vol/Sat:		0.55		0.77	0.77	0.77		0.85	0.85	0.51		0.51
Crit Moves:		****			****		****				****	
Delay/Veh:		16.3	16.3			25.6		32.9				
Delay Adj:		1.00	1.00		1.00		1.00					
AdjDel/Veh:		16.3	16.3	25.6	25.6			32.9				15.8
LOS by Move:		C	C	· D		D	D	D		С		C
ApproachDel:		16.3			25.6			32.9			15.8	
Delay Adj:		1.00			1.00			1.00			1.00	
ApprAdjDel:		16.3			25.6			32.9			15.B	
LOS by Appr:		C			D.			D			C	

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Level Of Service Computation Report 2000 HCM 4-Way Stop (Future Volume Atternative) 2020 Baseline PM

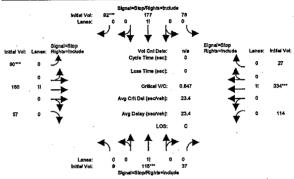
Intersection #6: Delaware/Swift [N/S: Swift E/W: Delaware]



Approach:	No:	rth Bo	ound	Sot	uth Bo	ound	Ea	ast Bo	und	We	st B	ound
Movement:			- R		- Т	- R	L -	- Т	- R	ь -	T	- R
Min. Green:	. 0	0	0	0	0	0	. 0	0	. 0	0	0	0
								,				
Volume Module	ė:											
Base Vol:	7	93	30	63	143	51	30	67		92	227	22
Growth Adj:	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24		1.24	1.24
. Initial Bse:	9	115	37	78	177	63	37	83	. 57	114	281	. 27
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Campus Incr:	0	0	0	0	0	0	0	. 0	0	0	٥	0
Initial Fut:	9	115	37	78	177	63	37	83	57	114	281	27
User 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
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00
PHF Volume:	9	115	37	78	177	63	37	83	57	114	281	27
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	9	115	37	78	177	63	37	83	57	114	281	27
PCE 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
MLF 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
Final Vol.:			37	78		63	37	83		114	281	27
Saturation Fi	low Me	odule:										
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.05	0.72	0.23	0.24	0.56	0.20	0.21	0.47	0.32	0.27	0.67	0.06
. Final Sat.:	29	382	123	144	326	116	117	261	179	168	414	40
	1						1				<b>-</b>	
Capacity Ana:	lysis	Modu]	le:									
Vol/Sat:	0.30	0.30	0.30	0.54	0.54	0.54	0.32	0.32		0.68	0.68	0.68
Crit Moves:		***		***					****		***	
Delay/Veh:	11.2	11.2	11.2	14.6	14.6	14.6	11.2	11.2	11.2	18.6	18.6	18.6
Delay 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
AdjDel/Veh:	11.2	11.2	11.2	14.6	14.6	14.6	11.2	11.2	11.2	18.6	18.6	18.6
LOS by Move:	В	В	В	В	† B	В	В	В	В	С	С	С
ApproachDel:		11.2			14.6			11.2		*	18.6	
Delay Adj:		1.00			1.00			1.00			1.00	
ApprAdjDel:		11.2			14.6			11.2			18.6	
LOS by Appr:		В			В			В			С	

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Intersection #6: Delaware/Swift [N/S: Swift E/W: Delaware]



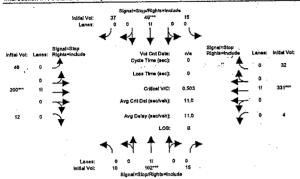
			Signal	Slop/Fligh	m≕luciņde							
Approach:			ound						ound		est Bo	
Movement:			- R						- R		- T	
Min. Green:		a	oʻ		0	o.		0	0	. 0	0	0
Volume Module	) B :.			1			1			1		
Base Vol:	· 7	93	30	63			30	67		92		22
Growth Adj:					1.24			1.24			1.24	1.24
Initial Bse:				78	177		37		57	114	281	27
Added Vol:		0	0	0	0	29	53	97	0	0		0
Campus Incr:		0		0			0	-	0		0	0
Initial Fut:	9	115	37					180		114		27
Jser Adj:	1.00	1.00	1.00		1.00			1.00			1.00	1.00
HF Adj:	1.00	1.00	1.00	1.00	1.00			1.00	1.00		1.00	1.00
HF Volume:	9	115	37	78	177	92	90	180	- 57	114	334	27
Reduct Vol:	0	0	0	0	0	0	٥	0	Ò	0	0	0
Reduced Vol:	9	115	37	78	177	92	90	180	57	114		27
CE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
LF 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
inal Vol.:		115			177			180	57	114		27
aturation F	low M	odule:		•								
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
danes:	0.05	0.72	0.23	0.22	0.51	0.27	0.28	0.55	0.17	0.24	0.70	0.06
inal Sat.:			102		262			285	90	135		32
				1			1					
apacity Ana	İysis	Modu.	le:									
Vol/Sat:	0.36	0.36	0.36	0.68	0.68	0.68	0.63	0.63	0.63	0.85	0.85	0.85
Crit Moves:		***				****	****				****	
Delay/Veh:	13.3	13.3	13.3	20.2	20.2	20.2	18.4	18.4	18.4	32.4	32.4	32.4
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00
AdjDel/Veh:	13.3	13.3	13.3	20.2	20.2	20.2	18.4	18.4	18.4		32.4	32.4
OS by Move:				С	C	C	c	C	C	D	D	D
ApproachDel:		13.3			20.2			18.4			32.4	
		1.00			1.00			1.00			1.00	
ApprAdjDel:					20.2			18.4			32.4	
					. с		•	C			a	
, nppr.		_			_			-				

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## Marine Science Cent

Level Of Service Computation Report 900 HCM 4-Way Stop (Future Volume Atternative

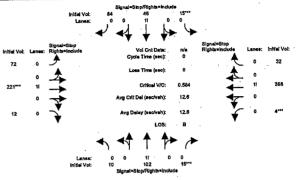
Intersection #7: Delaware/Almar [N/S: Almar E/W: Delaware]



Approach:	No	cth Bo	und	Sou	th Bo	und	Ва	st Bo	und	We	st Bo	und
Movement:			→ R	L -	· T	- R	L.	T	- R	L -	T	- R
Min. Green:	0	0	0	0	0	0	0	0	. 0	0	0	0
Volume Module	:											
Base Vol:	8	82	12	12	37	30	37	161		3		26
Growth Adj:	1.24	1.24	1.24	1.24		1.24		1.24	1.24	1.24		1.24
Initial Bse:	10	102	15	.15	46	37	46	200	12	4	331	32
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Campus Incr:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	10	102	15	15	46	37	46	200	12	4	331	32
User Adj:		1.00	1.00		1.00	1.00			1.00		1.00	1.00
PHF Adj:	1.00	1.00	1.00		1.00	1.00		1.00	1.00	1.00		1.00
PHF Volume:	10	102	15	15	46	37	46	200	12	4	331	32 0
Reduct Vol:	0	0	0	0	0,		0	.0	0	0	0	-
Reduced Vol:			15		46	37	46	200	12	4	331	32
PCE Adj:		1.00	1.00		1.00	1.00		1.00		1.00		1.00
MLF Adj:		1.00	1.00		1.00	1.00		1.00	1.00	1.00		1.00 32
Final Vol.:	10	102	15	. 15	46	37	46	200	12	, 4	331	
				}								}
Saturation F											1 00	1.00
Adjustment:		1.00			1.00			1.00			0.90	0.09
Lanes:		0.80	0.12		0.47	0.38		0.77	33		658	64
Final Sat.:	47	481	70.	91		228	124					
							1	-,	1			
Capacity Ana									0.37		0.50	0.50
Vol/Sat:	0.21	0.21	0.21	0.16	0.16	0.16	0.37	0.37	0.37	0.50	****	0.50
Crit Moves:		****							10.7	10.0	12.2	12.2
Delay/Veh:	9.7		9.7	9.3		9.3		10.7	1.00		1.00	1.00
Delay Adj:		1.00	1.00		1.00	1.00			10.7		12.2	12.2
AdjDel/Veh:	9.7		9.7	9.3	9.3	9.3		10.7 B	10.7 B	12.2 B	12.2 B	В
LOS by Move:	A	A	A	A	A	A	В	-	В		12.2	
ApproachDel:		9.7			9.3			10.7			1.00	
Delay Adj.		1.00			1.00			1.00			12.2	
ApprAdjDel:		9.7			9.3			10.7 B			12.2 B	
LOS by Appr:		A			A			В			ь	

Level Of Service Computation Report
2000 HCM 4-Way Stop (Fubrya Volume Alternative)
2020 Plus Phase 1 and 2 AM

Intersection #7: Delaware/Almar [N/S: Almar E/W: Delaware]



Movement: L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R Min. Green: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Approach:	Nor	th Bo	und	South Bo	ound		Bound		
Min. Green: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Movement:	To -	т	- R	L - T	- R	L -	T '- R		
Volume Module:  Base Vol: 8 82 12 12 37 30 37 161 10 3 267 26  Growth Adj: 1.24 1.24 1.24 1.24 1.24 1.24 1.24 1.24						!				:1
Volume Module:  Base Vol: 8 82 12 12 13 37 30 37 161 10 3 267 26  Growth Adj: 1.24 1.24 1.24 1.24 1.24 1.24 1.24 1.24	Min. Green:	. 0	0	٥.	. • •	۰,	, 0	0 0		
Base Vol: 8 82										1
Base   Vol.   8   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.24   1.2										
Initial Base: 10 102 15 15 46 37 46 200 12 4 331 32 Added Vol: 0 0 0 0 0 0 47 26 21 0 0 37 0 0 Initial Fut: 10 102 15 15 46 84 72 221 12 4 368 32 User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0										
Initial But: 10 102 15 15 46 84 72 221 12 4 368 32 User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0										
Added Vol: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0										
Campus Incr: 0 0 0 0 0 0 0 0 1.00 1.00 1.00 1.00 1.	Added Vol:	0	0							_
Initial Put:   10				-		-	-			_
## Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0										
PHF Volume: 10 102 15 15 46 84 72 221 12 4 368 32 Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	User Adj:									
Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PHF Adj:	1.00	1.00							
Reduce Vol: 10 102 15 15 46 84 72 221 12 4 368 32 PCE Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	PHF Volume:	10	102	15						
Reduced Vol: 10 102 15 15 46 84 72 221 12 4 368 32 15 16 16 16 16 16 16 16 16 16 16 16 16 16	Reduct Vol:	0	0			-		-		-
MbF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Reduced Vol:									
MAF AG: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	PCE Adi:	1.00	1.00	1.00	1.00 1.00					
Final Vol.: 10 102 15 15 46 84 72 221 12 4 306 32 52 53 53 53 54 54 54 54 54 54 54 54 54 54 54 54 54	MLF Adi:	1.00	1.00	1.00	1.00 1.00					
Saturation Flow Module: Adjustment: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	minal mal .	10	107	15	15 '46	84	72 2			
Saturation Flow Module: Adjustment: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0										
Lanes: 0.08 0.80 0.12 0.10 0.32 0.58 0.24 0.72 0.04 0.01 0.91 0.08 Final Sat.: 43 442 65 60 184 337 155 477 27 6 631 55 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Caturation F	low Ma	าสมโด							
Lanes: 0.08 0.80 0.12 0.10 0.32 0.58 0.24 0.72 0.04 0.01 0.91 0.08 Final Sat.: 43 442 65 60 184 337 155 477 27 6 631 55 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Adiustment:	1.00	1.00	1.00	1.00 1.00	1.00	1.00 1.	00 1.00	1.00 1.00	1.00
Final Sat.: 43 442 65 60 184 337 155 477 27 6 631 55  Capacity Analysis Module:  Vol/Sat: 0.23 0.23 0.23 0.25 0.25 0.25 0.46 0.46 0.46 0.58 0.58 0.58  Crit Moves: ****  ****  Delay/Veh: 10.3 10.3 10.3 10.1 10.1 10.1 12.3 12.3 12.3 12.3 14.4 14.4 14.4  Delay Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0		0.08	0.80	0.12	0.10 0.32	0.58	0.24 0.	72 0.04	0.01 0.91	0.08
Capacity Analysis Module: Vol/Sat: 0.23 0.23 0.23 0.25 0.25 0.25 0.46 0.46 0.58 0.58 0.58 Crit Moves: **** ****  Delay/Veh: 10.3 10.3 10.3 10.3 10.1 10.1 10.1 12.3 12.3 12.3 14.4 14.4 14.4  Delay Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Winel Con .	43	442	65	60 184	337	155 4			
Capacity Analysis Module: Vol/Sat: 0.23 0.23 0.23 0.25 0.25 0.25 0.46 0.46 0.58 0.58 0.58 Crit Moves: **** ****  Delay/Veh: 10.3 10.3 10.3 10.3 10.1 10.1 10.1 12.3 12.3 12.3 14.4 14.4 14.4  Delay Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0										
vol/sat:     0.23     0.23     0.25     0.25     0.25     0.25     0.46     0.46     0.46     0.58     0.58     0.58     0.58       Crit Moves:     ************************************	Capacity Ana	lvsis	Modu	le:	•					
Crit Moves:			0.23	0.23	0.25 0.25	0,25				0.58
Delay Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0										
Delay Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Delay/Veh:	10.3	10.3	10.3	10.1 10.1	10.1	12.3 12			
AdjDel/Veh: 10.3 10.3 10.3 10.1 10.1 10.1 12.3 12.3 12.3 14.4 14.4 14.4 14.4 16.5 by Move: B B B B B B B B B B B B B B B B B B B					1.00 1.00	1.00	1.00 1.	00 1.00		
LOS by Move: B B B B B B B B B B B B B B B B B B B					10.1 10.1	10.1	12.3 12	.3 12.3		
ApproachDel: 10.3 10.1 12.3 14.4 Delay Adj: 1.00 1.00 1.00 1.00 ApprAdjbel: 10.3 10.1 12.3 14.4	LOS by Move:	В	В	В	в в	В	В	в в		
Delay Adj: 1.00 1.00 1.00 1.00 ApprAdjDel: 10.3 10.1 12.3 14.4					10.1		12	2.3		
ApprAdjDel: 10.3 10.1 12.3 14.4					1.00		1.	.00		
					10.1		12	2.3		
					В			В	В	**

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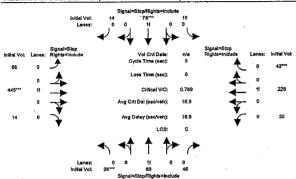
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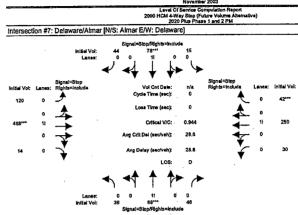
## November 2003 Level Of Service Computation Report 2000 HCM 4-Way Stop (Future Volume Alternative) 2020 Baseline PM

Intersection #7: Delaware/Almar [N/S: Almar E/W: Delaware]



Min Green: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Approach:	Nor	th Bo	und	Sou	ith Bo	und		est Bo			st Bo	und
Min. Green: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Movement:					· T	- R	L ·	- т	– R	ъ.	T	- R
Volume Module: Base Vol: 29 72 37 12 63 11 53 359 11 24 182 34 Growth Adj: 1.24 1.24 1.24 1.24 1.24 1.24 1.24 1.24													
Volume Module: Base Vol: 29 72 37 12 63 11 53 359 11 24 182 34 Growth Add; 1.24 1.24 1.24 1.24 1.24 1.24 1.24 1.24	Min. Green:	0	0	o o	0	0	0	0	. 0	. 0	0	0	0
Base Vol: 29 72 37 12 63 11 53 359 11 24 124 1.24 1.24 1.24 1.24 1.24 1.24													
Growth Adj: 1.24 1.24 1.24 1.24 1.24 1.24 1.24 1.24	Volume Modul	ė:											
Initial Bse: 36 89 46 15 78 14 66 445 14 30 226 42 Added Vol: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Base Vol:	29	72	37									
Added Vol: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Growth Adj:	1.24	1.24	1.24	1.24	1.24							
Campus Incr: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Initial Bse:	36	89	46		78			445			226	
Initial Fut: 36 89 46 15 78 14 66 445 14 30 226 42 User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Added Vol:	0	0	0	0	0	. 0	0			-	0	
User Adj:	Campus Incr:	0	0	0	0	0	0		0.	0	-	-	
PHF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Initial Fut:			46									
PHF Volume: 36 89 46 15 78 14 66 445 14 30 226 42 Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	User Adj:	1.00	1.00	1.00									
Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PHF Adj:	1.00	1.00	1.00	1.00		1.00						
Reduced Vol: 36 89 46 15 78 14 66 445 14 30 226 42 PCE Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	PHF Volume:	36	89	46		78							
PCE Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Reduct Vol:	0	0	0	0	0	0	-	-	0	_	-	
MLF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Reduced Vol:	36	89	46									
Final Vol.: 36 89 46 15 78 14 66 445 14 30 226 42  Saturation Flow Module: Adjustment: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	PCE Adj:	1.00	1.00										
Saturation Flow Module: Adjustment: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	MLF Adj:	1.00											
Saturation Flow Module: Adjustment: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0													
Adjustment: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0		1				· ·				·			
Lanes: 0.21 0.52 0.27 0.14 0.73 0.13 0.12 0.85 0.03 0.10 0.76 0.14 rinal Sat: 112 279 143 71 370 65 85 579 18 63 481 90	Saturation F	low Mc	dule:										
Final Sat:: 112 279 143 71 370 65 85 579 18 63 481 90	Adjustment:	1.00	1.00	1.00									
Capacity Analysis Module:  Vol/Sat: 0.32 0.32 0.32 0.21 0.21 0.77 0.77 0.77 0.47 0.47 0.47  Crit Moves: ****  Delay/Veh: 11.4 11.4 11.4 10.6 10.6 10.6 22.3 22.3 22.3 12.7 12.7 12.7  Delay Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Lanes:	0.21											
Capacity Analysis Module: Vol/Sat: 0.32 0.32 0.32 0.21 0.21 0.21 0.77 0.77 0.77 0.47 0.47 0.47 Crit Moves: **** **** ***** Delay/Veh: 11.4 11.4 11.4 10.6 10.6 10.6 22.3 22.3 22.3 12.7 12.7 12.7 Delay Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Final Sat.:								579			481	90
Vol/Sat: 0.32 0.32 0.32 0.21 0.21 0.21 0.77 0.77 0.77 0.47 0.47 0.47 Crit Moves: **** **** Delay/Veh: 11.4 11.4 11.4 11.6 10.6 10.6 22.3 22.3 22.3 12.7 12.7 12.7 Delay Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0		1		,							ļ		
Crit Moves: **** **** ***** ***** Delay/Veh: 11.4 11.4 11.4 10.6 10.6 10.6 22.3 22.3 22.3 12.7 12.7 12.7 Delay Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Capacity Ana										;		
Delay/Veh: 11.4 11.4 11.4 10.6 10.6 10.6 22.3 22.3 22.3 12.7 12.7 Delay Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0			0.32	0.32	0.21		0.21	0.77		0.77	0.47	0.47	
Delay Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0													
110,000, 1011	AdjDel/Veh:			11.4			10.6	22.3		22.3			12.7
LOS by Move: B B B B B C C C B B B			_	В	В	_	В	C	_	C	_		В
ApproachDel: 11.4 10.6 22.3 12.7													
Delay Adj: 1.00 1.00 1.00 1.00										•			
ApprAdjDel: 11.4 10.6 22.3 12.7													
LOS by Appr: B B C B	LOS by Appr:		В			В			¢			В	

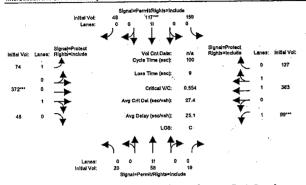
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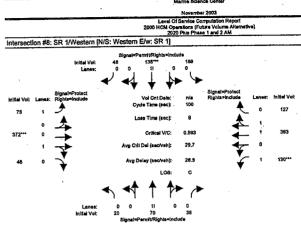
Approach:	No	rth Bo	ound	South 1	Bound	Ea			West B	ound		
Movement:	L.	- Т	- R	L - T	- R	L-						
Min. Green:	0	0	0	0 (	0 0	0	0	c	0 0	. 0		
Volume Module				•		•						
Base Vol:	29	72	37	12 6								
Growth Adj:	1.24	1.24	1.24									
Initial Bse:	36	· B9	46									
Added Vol:	0	0	0	0 1	30							
Campus Incr:	0	0	0	0 (	0	0	0					
Initial Fut:	36	89	46	15 7	B 44	120	488	14				
User Adj:	1.00	1.00	1.00	1.00 1.0	1.00	1.00	1.00	1.00	1.00 1.00			
PHF Adj:	1.00	1.00	1.00	1.00 1:00	1.00	1.00	1.00	1.00				
PHF Volume:	36	89	46			120	488	14	30 250			
Reduct Vol:						0						
Reduced Vol:												
PCE Adj:	1.00	1.00	1.00	1.00 1.0	1.00	1.00	1.00	1.00	1.00 1.00			
MLF Adj:	1.00	1.00	1.00									
Final Vol.:												
Saturation F	low Mo	odule:	:									
Adjustment:	1.00	1.00	1.00	1.00 1.0	1.00	1.00	1.00	1.00	1.00 1.00	1.00		
Final Sat.:	109	270	139	55 29								
								/				
Capacity Ana	lysis	Modu.	le:									
Vol/Sat:	ement: L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R L - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - R C - T - T - R C - T - T - R C - T - T - R C - T - T - R C - T - T - R C - T - T - R C - T - T - R C - T - T - R C - T - T - R C - T - T - R C - T - T - R C - T - T - R C - T - T - R C - T - T - R C - T - T - R C - T - T - R C - T - T - R C - T - T - R C - T - T - R C - T - T - R C - T - T - R C - T - T - R C - T - T - R C - T - T - R C - T - T - R C - T - T - R C - T - T - R C - T - T - R C - T - T - R C - T - T - R C - T - T - R C - T - T - R C - T - T - R C - T - T - R C - T - T - R C - T - T - R C - T - T - R C - T - T - R C - T - T - R C - T - T - R C - T - T - R C - T - T - R C - T - T - R C - T - T - R C - T - T - R C - T - T - R C - T - T - R C - T - T - R C - T - T - R C - T - T - R											
Crit Moves:		****		. ***								
Delay/Veh:	12.4	12.4	12.4									
Delay Adj:	1.00	1.00	1.00									
AdjDel/Veh:	12.4	1,2.4	12.4	11.7 11.		44.4						
LOS by Move:	В	В	В	в в	В	E	_	_		_		
ApproachDel:		12.4		11.	7		44.4					
Delay Adj:		1.00										
ApprAdjDel:		12.4										
LOS by Appr:		В		· в			E		В			

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Intersection #8: SR 1/Western [N/S: Western E/w: SR 1]



Approach:	Not	th Bo	und	Sou	ith Bo	und	Ea	st Bo	und	We	st Bo	und
Movement:	L -	- т	- R	L -	T	- R	L.	· T	- R	L -	T	- R
				1								
Min. Green:	' o	0	ດ່		0	o.	· o	0	0	· 0	0	0
MIN. GICCH.	J						1					
Volume Module	: e:			•		•	•			-		
Base Vol:	16	47	15	125	94	36	56	300	39	80	293	93
Growth Adj:	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24
Initial Bse:	20	58	19	155	117	4.5	69	372	48	99	363	115
Added Vol:	0	0	0	0	0	0	0	0	. 0	0	0	0
Campus Incr:	0	0	0	4	0	1	5	0	0	0	0	12
Initial Fut:		58	19	159	117	46	74	372	48	99	363	127
User 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
PHF Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00
PHF Volume:	20	58	19	159	117	46	74	372	48	99	363	127
Reduct Vol:	0	0	0	0	0	0	. 0	0	0	0	0	0
Reduced Vol:	20	58	19	159	117	46	74	372	48	99	363	127
PCE Adi:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00
MLF Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00
Final Vol.:	20	58	19	159	117	46	74		48	99	363	127
				1		[						
Saturation F				,			•					
Sat/Lane:			1900	1900	1900	1900	1900	1900	1900		1900	1900
Adjustment:	0.87	0.87	0.87	0.77	.0.77	0.77	0.93	0.96	0.96	0.93	0.89	0.89
Lanes:		0.60	0.19	0.50	0.36	0.14	1.00	0.88	0.12	1.00	1.48	0.52
Final Sat.:	340	998	318	728	534	209		1620	211		2518	882
	1		1	1								
Capacity Ana												
Vol/Sat:			0.06	0.22	0.22	0.22	0.04	0.23	0.23	0.06	0.14	0.14
Crit Moves:					****			****		****		
Green/Cycle:	0.39	0.39	0.39	0.39	0.39	0.39	0.12	0.41	0.41		0.40	0.40
Volume/Cap:				0.55	0.55	0.55	0.36	0.55	0.55		0.36	0.36
Delay/Veh:		19.6	19.6	24.6	24.6	24.6	41.8	23.1	23.1		21.2	21.2
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			1.00	1.00
AdjDel/Veh:				24.6	24.6	24.6	41.8	23.1			21.2	21.2
DesignQueue:	1	2	1	6	4	2	4	13	2	5	13	4



			-	Permit/Righ								
Approach:	Nor	th Bo	und	Sou	ith Bo	und	Ea	ast Bo	und	We	st Bo	und
Marramant	T	. т	_ P	ĭ	. т	- R	ь -	- T	- K	ы -	. 1	- K
Min. Green:	. 0	0	٥.	. 0	0	o j	. 0	0	0	, 0	0	
Will. Green.			1				1			1		
Volume Module		47	15	125	94	36	56	300	39	80	293	93
Base Vol:					1.24			1.24				1,24
Growth Adj:		-58		155		45	69		4.6	99	363	115
Initial Bse: Added Vol:				133					0		0	0
Campus Incr:	0	14				ī		ŏ			ō	12
Initial Fut:	70	70			_		-		48		363	127
User Adj:				1.00		1.00		1.00			1.00	1.00
PHF Adj:	1.00	1.00		1.00		1.00		1.00				1.00
			36	159	138	48	75	372	48	130	363	127
PHF Volume: Reduct Vol:				0			ő				0	0
Reduced Vol:							75		48	130	363	127
		7.00				1.00					1.00	1.00
PCE Adj: MLF Adj:	1.00	1.00	1.00	1.00	1 00	1 00	1 00	1.00	1.00		1.00	
MLF AGJ: Final Vol.:		70	2.00	150	138	48	75	372	48		363	127
Final Vol.:	, ZU		1	1		1	1		1			
Saturation F						•	'			•		
Sat/Lane:		1000	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0 97	0 87	0.87	0.77	0.77			0.96		0.93	0.89	0.89
Lanes:		0.56	0.28	0.46	0.40	0.14		0.88	0.12	1.00	1.48	0.52
nimal Cab .	262	929	471	672	581	201	1769	1620	211	1769	2518	
Final Sat.:	1		1	1		1						
Capacity Ana	Tveis	Modu I	e:			•				•		
Vol/Sat:		0.08	0.08	0.24	0.24	0.24	0.04	0.23	0.23	0.07	0.14	0.14
Crit Moves:	,		•		****			****		****		
Green/Cycle:	0.40	0.40	0.40	0.40	0.40	0.40	0.12	0.39	0.39	0.12	0.39	
Volume/Cap:	0.19	0.19				0.59	0.37	0.59	0.59	0.59	0.37	
Delay/Veh:	19.7	19.7				25.3		25.7			21.6	
					1 00	1.00	1 00	1.00	1.00	1.00	1.00	1.00
User DelAdi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	4.00	2.00			
User DelAdj: AdiDel/Veh:		1.00 19.7			25.3			25.7			21.6	

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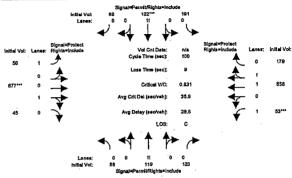
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November 2003

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) 2020 Plus Phase 1 and 2 PM

Intersection #8: SR 1/Western [N/S: Western E/w: SR 1]

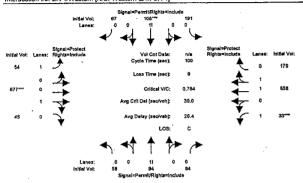


			Oigina-1	artisbrus.		•						
Approach:	No	th B	ound	Sou	ıth Bo	ound	E	st Bo	und	We	est Bo	und
Movement:	ъ.	_			т		. r .	-	- R	, ь -	- T	- R
						اا	[	0	·}	j		1
Min. Green:	۰ ٥		0	, 0						1		1
Volume Module				1			1		1	,		,
Base Vol:	47	76	68	145	87	50	41	546	36	27	450	. 139
Growth Adj:	1.24		1.24		1.24	1.24	1.24		1.24	1.24		1.24
Initial Bse:	58		84	180	108	62	51	677	45	33	558	172
Added Vol:	0	25	36	0	14	1	2	0	0	20	0	0
Campus Incr:	ō	0	0	11	0	5	3	0	0	0	0	7
Initial Fut:	58	119	120	191	122	68	56	677	45	53	558	179
User Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00		1.00	1.00
PHF Volume:	58	119	120	191	122	68	56	677	45	53	558	179
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	58	119	120	191	122	68	56	677	45	53	558	179
PCE Adj:		1.00	1.00		1.00	1.00	1.00		1.00		1.00	1.00
MLF Adj:	1.00	1.00	1.00		1.00	1.00		1.00	1.00		1.00	1.00
Final Vol.:	58	119	120	191	122	68	. 56	677	45	53	558	179
Saturation F												
Sat/Lane:		1900	1900		1900	1900		1900	1900		1900	1900
Adjustment:		0.81	0.81		0.60	0.60		0.97	0.97		0.90	0.90
Lanes:		0.40	0.40		0.32	0.18		0.94	0.06		1.51	0.49
Final Sat.:	301	616	622	569	364	203		1731	114		2581	830
			[							[[		
Capacity Ana												0.22
Vol/Sat:	0.19	0.19	0.19	0.34	0.34	0.34	0.03	0.39	0.39	****	0.22	0.22
Crit Moves:											:	
Green/Cycle:					0.40	0.40		0.47			0.44	0.44
Volume/Cap:		0.48			0.83	0.83		0.83			0.49	
Delay/Veh:		22.7	22.7		39.0			29.9		105.2		20.1
User DelAdj:			1.00		.1.00			1.00	1.00		1.00	1.00
AdjDel/Veh:		22.7	22.7		39.0	39.0		29.9		105.2		20.1
DesignQueue:	2	4	4	7	4	2	3	22	1	3	18	6

November 2003

Level Of Service Computation Report
2000 HCM Operations (Future Volume Atternative)
2020 Baseline PM

Intersection #8: SR 1/Western [N/S: Western E/w: SR 1]



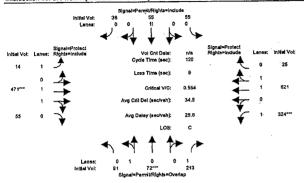
Approach: North Bound South Bound East Bound	West Bound
	, - T - R
	0 0 0
Volume Module:	
2000 1021 17 75 00 210 TT TT TT	27 450 139
Olonom maj. And and and and and and and	24 1.24 1.24
initial pact of the second of the second	33 558 172
Added Vol: 0 0 0 0 0 0 0 0	0 0 0
Campus Incr: 0 0 0 11 0 5 3 0 0	0 0 7
IMICIAL TAC.	33 558 179
abar maj.	00 1.00 1.00
	00 1.00 1.00
IM TOZUMOT DO DE DE DE DE DE DE DE DE DE DE DE DE DE	33 558 179
Reduct Vol: 0 0 0 0 0 0 0 0 0	0 0 0
ACCURACE TO 1. TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE	33 558 179
TCD Maj.	00 1.00 1.00
	00 1.00 1.00
	33 558 179
Saturation Flow Module:	
040/20401 0700 0700 0700 0700	000 1900 1900
	93 0.90 0.90
2420.	00 1.51 0.49
	769 2581 830
Capacity Analysis Module:	
102,000	.02 0.22 0.22
CIIC Moves:	***
	.02 0.46 0.46
	78 0.47 0.47
Delay/Veh: 22.7 22.7 22.7 35.5 35.5 35.5 48.2 25.1 25.1 110	
User Deladj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	
AdjDel/Veh: 22.7 22.7 22.7 35.5 35.5 35.5 48.2 25.1 25.1 110	
DesignQueue: 2 3 3 7 4 2 3 21 1	2 18 6

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Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) 2020 Baseline AM

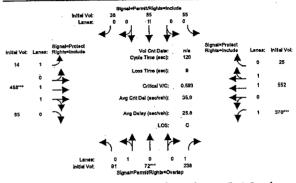
Intersection #9: SR 1/Swift [N/S: Swift E/w: SR 1]



Approach: Non	th Bound	South Bo	ound	East B	ound	West Bo	ound
Movement: L		L - T	- R	L - T	- R	L - T	- R
			1				
Min. Green: 0	0 0	' 0 0		. 0 0	0	0 0	0
Volume Module:	•						
Base Vol: 73	46 172	44 41	21	8 380	44	261 420	20
Growth Adj: 1.24	1.24 1.24	1.24 1.24	1.24	1.24 1.24		1.24 1.24	1.24
Initial Bse: 91	57 213	55 51	26	10 471	55	324 521	25
Added Vol: 0	0 0	0 0	0	0 0	b	0 0	0
Campus Incr: 0	15 0	0 4	12	4 0	0	0 0	0
Initial Fut: 91	72 213	55 55	38	14 471		324 521	25
User 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
PHF Ad1: 0.90	0.90 0.90	0.90 0.90	0.90	0.90 0.90	0.90	0.90 0.90	0.90
PHF Volume: 101	80 237	61 61	42	15 524	61	360 579	28
Reduct Vol: 0	0 0	0 0	0	0 0	0	0 0	0
Reduced Vol: 101	80 237	61 61	42	15 524	61	360 579	28
	1.00 1.00	1.00 1.00	1.00	1.00 1.00	1.00	1.00 1.00	1.00
	1.00 1.00	1.00 1.00	1.00	1.00 1.00	1.00	1.00 1.00	1.00
Final Vol.: 101	80 237	61 61	42	15 524	61	360 579	28
Saturation Flow Me		' '		•			
	1900 1900	1900 1900	1900	1900 1900	1900	1900 1900	1900
	0.67 0.83	0.73 0.73	0.73	0.93 0.92	0.92	0.93 0.92	0.92
	0.44 1.00	0.37 0.37	0.26	1.00 1.79	0.21	1.00 1.91	0.09
Final Sat.: 710		515 517	359	1769 3120	361	1769 3353	160
					11		
Capacity Analysis		' '	,	•		•	
	0.14 0.15	0.12 0.12	0.12	0.01 0.17	0.17	0.20 0.17	0.17
Crit Moves:	****			***		****	
Green/Cycle: 0.26	0.26 0.62	0.26 0.26	0.26	0.03 0.30	0.30	0.37 0.64	0.64
Volume/Cap: 0.55		0.46 0.46	0.46	0.27 0.55	0.55	0.55 0.27	0.27
	40.8 10.2	38.6 88.6	38.6	59.2 35.7	35.7	31.3 9.6	9.6
User DelAdj: 1.00		1.00 1.00		1.00 1.00		1.00 1.00	1.00
AdjDel/Veh: 40.8		38.6 38.6	38.6	59.2 35.7		31.3 9.6	9.6
	4 6	3 3		1 29		16 15	1

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) 2020 Ptus Phase 1 and 2 AM

Intersection #9: SR 1/Swift [N/S; Swift E/w: SR 1]



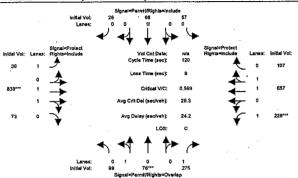
Approach:		cth Bo				und		st Bo			st Bo	
Movement:	L ·	т	- R	, L -	T	- R			- R		T	
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	. 0
							1			1		
Volume Module					41	21		380	44	261	420	20
Base Vol:	73	46				1.24		1.24		1.24		1.24
Growth Adj:		1.24				26	10	471	55	324	521	25
Initial Bse:			213	55.				17	0	46	31	
	0		25	•	0		0		0	40	21	Ċ
Campus Incr:			0	-	4		_	_			552	25
Initial Fut:	91		238		55	38	14		55			
User Adj:		1.00		1.00				1.00			1.00	
PHF Adj:		0.90		0.90		0.90		0.90			0.90	
PHF Volume:	101		265	61	61	42	15	542	61	411		- 28
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	(
Reduced Vol:	101	80	265	61	61	42	15	542		411		
PCE Adi:	1.00	1.00	1.00	1.00	1.00			1.00			1.00	
MLF Adi:	1.00	1.00	1.00	1.00	1.00	1.00		1.00			1.00	
Final Vol .	101	80	265	61	61	42		542	61		613	28
	1			1								
Saturation F				•								
Sat/Lane:			1900	1900	1900	1900	1900	1900	1900		1900	
Adjustment:					0.71	0.71	0.93	0.92			0.93	
Lanes:		0.44		0.37	0.37	0.26	1,00	1.80	0.20	1.00	1.91	
Dine? Con .	701	660	1593	501	503	349	1769	3134	350	1769	3365	15
rinai sac.:	1			1						1		
Capacity Ana	lveis	Modu	le:				•					
Vol/Sat:		8.14	0.17	0.12	0.12	0.12	0.01	0.17	0.17	0.23	0.18	0.1
Crit Moves:	0.14	****		****	•			****		****		
Green/Cycle:	0 24			0.24	0.24	0.24	0.03	0.29	0.29	0.39	0.65	0.6
Volume/Cap:					0.50		0.28			0.59	0.28	0.2
Delay/Veh:					40.4		59.6			30.3	9.0	9.
User DelAdj:	1 00	1 00						1.00			1.00	1.0
AdiDel/Veh:	43.4	43 4	0 9	40 4	40.4	40.4	59.6					
		43.4		30.4		2		27	3			
DesignQueue:	5	4	,	3			*		-			

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## Marine Science Cent

## Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) 2020 Baseline PM

Intersection #9: SR 1/Swift [N/S: Swift E/w: SR 1]



Approach:	No	rth Bo	und	Son	ith Bo	und	Ea	ast Bo	und	West Bo	ound
Movement:	L.	- т	- R		- т			T		L - T	- R
Min. Green:	. 0		0	0		0		0		0 0	0
	1							·			
Volume Modul	e:										
Base Vol.	80	54	222	46	42	15	20	677	59	184 530	86
Growth Adj:	1.24	1.24	1.24	1.24	1.24	1.24		1.24	1.24	1.24 1.24	1.24
Initial Bse:	99	67	275	57	52	19	25	839	. 73	228 657	107
Added Vol:	0	0	0	0	0	0	0	0	. 0	0 0	0
Campus Incr:		9	0	0	14	7	11	. 0	0	0 0	0
Initial Fut:		76	275	57	66	26	36	839	73	228 657	107
User Adj:	1.00		1.00		1.00	1.00		1.00	1.00	1.00 1.00	1.00
PHF Adj:			1.00		1.00	1.00		1.00	1.00	1.00 1.00	1.00
PHF Volume:	99	76	275	57	66	26	36	839	73	228 657	107
Reduct Vol:	0	0	0	0	0	0	0	0	0	0 0	0
Reduced Vol:		76	275	57	66	26	36	839	73	228 657	107
PCE Adj:			1.00		1.00	1.00		1.00	1.00	1.00 1.00	1.00
MLF Adj:		1.00	1.00		1.00	1.00		1.00	1.00	1.00 1.00	1.00
Final Vol.:	99	76	275	57	66	26		839	73	228 657	107
Saturation F	low Mo	dule:									
Sat/Lane:		1900			1900	1900		1900	1900	1900 1900	1900
Adjustment:		0.68	0.83		0.74	0.74		0.92	0.92		0.91
Lanes:	0.57		1.00		0.45	0.17			0.16	1.00 1.72	0.28
Final Sat :			1583		623	241	1769		280	1769 2980	484
				1							
Capacity Ana											
Vol/Sat:	0.14	0.14	0.17	0.11	0.11	0.11	0.02	0.26	0.26	0.13 0.22	0.22
Crit Moves:		***						****		****	
Green/Cycle:			0.47		0.24	0.24		0.46			0.63
Volume/Cap:			0.37		0.44	0.44		0.57			0.35
Delay/Veh:			21.0		39.7	39.7		24.3	24.3		10.8
User DelAdj:			1.00		1.00	1.00		1.00			1,00
AdjDel/Veh:			21.0		39.7	39.7			24.3		10.8
DesignQueue:	5	4	10	3	3	1	2	32	3	12 17	3

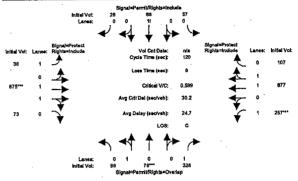
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Merine Science Cent

November 2003

Level Of Service Computation Report 2000 HCM Operations (Future Volume Atternative) 2020 Plus Phase 1 and 2 PM

Intersection #9: SR 1/Swift [N/S: Swift E/w: SR 1]

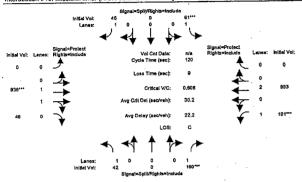


Approach:		rth Bo	ound		th Bo			ast Bo			est Bo	
Movement:	L .		- R			- R		- T			- T	- R
Min. Green:	0		0		0		. 0			. 0		
Volume Module	e:											
Base Vol:	80	54	222	46	42		20	677	59	184		86
Growth Adj:		1.24				1.24		1.24	1.24	1.24		1.24
Initial Bse:	99	- 67	275	57	52	. 19	25	839	73	228		107
Added Vol:	0		53	0	0	0	0	36	0	29	20	0
Campus Incr:	0		0	0	14	7	11	0	0	0	0	0
Initial Fut:	99		328	57	66	26	36	875	73	257		107
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00		1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00		1.00		1.00	1.00		1.00	1.00
PHF Volume:	99	76	328	57	66	26	36	875	73	257	677	107
Reduct Vol:	0	0	0	0.	:0	0	0	0	0	0	0	0
Reduced Vol:	99	76	328	57	66	26	36	875	73	257		107
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00
Final Vol.:	99	76	328	57	66	26		875	73	257		107
Saturation F	low M	odule:	, '	•								
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.67	0.67	0.83	0.72	0.72	0.72	0.93	0.92	0.92	0.93	0.91	0.91
Lanes:	0.57	0.43	1.00	0.38	0.45	0.17	1.00	1.85	0.15	1.00	1.73	0.27
Final Sat.:	720	552	1583	527		236		3226	270		2995	472
	[			.			1					
Capacity Ana	İysis	Modu:	le:									
Vol/Sat:			0.21	0.11	0.11	0.11	0.02	0.27	0.27		0.23	0.23
Crit Moves:		****						****		****		
Green/Cycle:	0.23	0.23	0.47	0.23	0.23	0.23	0.06	0.45	0.45		0.64	
Volume/Cap:	0.60	0.60	0.44	0.47	0.47	0.47	0.35	0.60	0.60	0.60	0.35	0.35
Delay/Veh:	44.7	44.7	21.5	41.0	41.0	41.0	56.6	25.3	25.3		10.3	10.3
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:				41.0	41.0	41.0	56.6	25.3	25.3		10.3	10.3
DesignOueue:			12	3	3	1	2	34	3	13	17	3

Marine Science Cente

## November 2003 evel Of Service Computation Report CM Operations (Future Volume Alternative

Intersection #10: Mission/Almar [N/S: Almar E/w: Mission]



Approach:	No	th Bo	und	Sou	th Bo	und	Ea	ıst Bo	und		st Bo	
Movement:	L ·	T	- R	L -	T	- R	L -	т		_ L -	T	- R
Min. Green:		0	o o	0		0		0	. 0	0.		0
								<b>-</b>				
Volume Modul	ė;		'	•			-					
Base Vol:	34	0	129	49	0	37	0	755	37	130	801	0
Growth Adj:	1.24	1.24	1.24	1.24	1.24	1.24	1.24		1.24	1.24		1.24
Initial Bse:	42	0	160	61.	0	46	0	936	46	161	993	0
Added Vol:	0	0	0	0	0	0	0	0	.0	0	0	0
Campus Incr:	. 0	0	0	0	0	0	0	0	0	0	Û	0
Initial Fut:	42	0	160	61	0	46	0,	936	46	161	993	0
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00
PHF Adi:	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90		0.90
PHF Volume:	47	0	178	68	Ō	51	0	1040	51		1104	0
Reduct Vol:	0	0	0	0	, 0	0	0	0	. 0	0	0	0
Reduced Vol:	47	. 0	178	68	- 0	51	0		. 51		1104	0
PCE Adi:	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00
Final Vol.:	47	0	178	68	0	51		1040	51		1104	٥.
	1											
Saturation F				•								
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900		1900
Adjustment:	0.93	1.00	0.83	0.93	1.00	0.83		0.92	0.92	0.93		1.00
Lanes:		0.00	1.00	1.00	0.00	1.00	0.00	1.91	0.09	1.00		0.00
Final Sat.:	1769	0	1583	1769	0	1,583	0	3349	164	1769		. 0
	1		1				1					
Capacity Ana	iyais	Modu.	Le:	•								
Vol/Sat:		0.00	0.11	0.04	0.00	0.03	0.00	0.31	0.31	0.10	0.31	0.00
Crit Moves:			****	****				****		****		
Green/Cycle:	0.18	0.00	0.18	0.06	0.00	0.06	0.00	0.51	0.51	0.17		0.00
Volume/Cap:		0.00	0.61	0.61	0.00	0.51		0.61		0.61		0.00
Delay/Veh:	41.2		48.6	64.2	0.0	59.0	0.0	21.4	21.4	50.0	9.2	0.0
User DelAdj:			1.00	1.00	1.00	1.00	1.00	1.00		1.00		1.00
AdjDel/Veh:	41.2		48.6	64.2	0.0	59.0	0.0	21.4	21.4	50.0	9.2	0.0
DesignQueue:			10	4	0	3	0	37	. 2	10	26	0

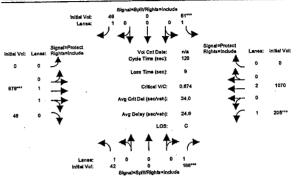
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RE Wed Nov 28 10:18:05 2003

Merine Science Center

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) 2020 Plus Phase 1 and 2 AM

Intersection #10: Mission/Almar [N/S; Almar E/w: Mission]



Approach:	Not	th Bo	und		th Bo			st Bo			st Bo	
Movement:	ъ.	- т	- R		· T				- R	_	T	- R
			1	1								
Min. Green:	0	0	o'	. 0	Ō	oʻ	. 0	0	0	0	0	0
min. Green:				[								
Volume Module			•	•	7	•	•					
Base Vol:	34	0	129	49	0	. 37	0	755	37	130		Ò
Growth Adj:	1.24	1.24	1.24	1.24	1.24	1.24	1.24		1.24	1.24		1.24
Initial Bse:	42	. 0	160	61	0	46	0	936	46	161	993	0
Added Vol:	0	0	26	0	0	0	0	43	0	47	77	0
Campus Incr:	ō	0	0	0	. 0	0	0	0	. 0	0	0	0
Initial Put:	42	0	186	61	0	46	0	979	46		1070	0
User Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00
PHF Adi:		0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
PHF Volume:	47	0	207	68	0	51	0	1088	51		1189	0
Reduct Vol:	0	ō	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	47	Ď	207	68	0	51	0	108B	51	231	1189	0
PCE Adi:		1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.:	47	2.20	207	68	0	51	0	1088	51	231	1189	0
							1					
Saturation F				١.		'	•					
Saturation F.		1900		1900	1900	1900	1900	1900	1900	1900	1900	
Adjustment:		1.00			1.00	0.83	1.00	0.92	0.92	0.93	0.93	1.00
Lanes:		0.00	1.00		0.00	1.00	0.00	1.91	0.09	1.00	2.00	0.00
Final Sat.:	1769	0.00	1583	1769	0	1583	0	3356	157	1769	3538	0
Final Sac.:							1					[
Capacity Ana						,	'			•		
	TAPTR	0.00	0.13	0.04	0.00	0.03	0.00	0.32	0.32	0.13	0.34	.0.00
Vol/Sat:			****			•		****		***		
Crit Moves: Green/Cycle:					0.00	0.06	0.00	0.48	0.48	0.19	0.67	0.00
		0.00			0.00	0.57		0.67		0.67	0.50	0.00
Volume/Cap:		0.0	50.7	722		63.6		25.0		50.1	9.7	0.0
Delay/Veh:					1.00	1.00		1.00			1.00	1.00
User DelAdj:			50.7	72.2		63.6		25.0		50.1		0.0
AdjDel/Veh:	40.3		11	12.2			0.0	41		13	28	. 0
DesignQueue:	. 3	U	11	. 4	. "	,			_			

Traffix 7.5.0715

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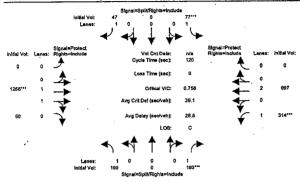
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Marina Science Cent

November 2003 ,
Level Of Service Computation Report
2000 HCM Operations (Future Volume Atternative)
2020 Baseline PM

Intersection #10: Mission/Almar [N/S: Almar E/w: Mission]

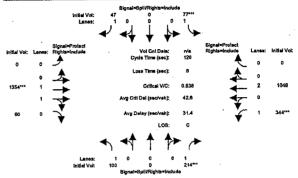


Approach:	No	rth Bo	ound	Sot	ith Bo	und	Ea	ast Bo	und	We	st Bo	und
Movement:	L ·	- T	- R	L -	T	- R			- R	L -	T	- R
,									1			
Min. Green:	Ò	0	0	0	0	0	0		0	0	0	0
Volume Modul	ė:											
Base Vol:	81	0	129	62	0	38	0	1021	4.8	253	804	0
Growth Adj:	1.24	1.24	1.24	1.24	1.24	1.24	1.24		1.24		1.24	1.24
Initial Bse:	100	0	160	77	0	47	0	1266	60	314	997	0
Added Vol:	0	0	0	0	0	0	0	. 0	0	0	0	0
Campus Incr:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	100	0	160	77	0	47		1266	60	314	997	0
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00
PHF Volume:	100	0	160	77	0	47	Ó	1266	60	314	997	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0,	0	0
Reduced Vol:	100	0	160	77	0	47		1266	60		997	0
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00
Final Vol.:	100	0	160	77	0	. 47	0	1266	60	314	997	0
						·						
Saturation F	ĺow M	ođule	:									
Sat/Lane:	1900	1900	1900	1900	1900	1900		1900	1900	1900		1900
Adjustment:	0.93	1.00	0.83	0.93	1.00	0.83	1.00	0.92	0.92	0.93		1.00
Lanes:	1.00	0.00	1.00	1.00	0.00	1.00	0.00	1.91	0.09	1.00	2.00	0.00
Final Sat.:	1769	0	1583	1769	0	1583	0	3355	158	1769	3538	0
										1		1
Capacity Ana	İysis	Modu:	le:									
Vol/Sat:	0.06	0.00	0.10	0.04	0.00	0.03	0.00	0.38	0.38	0.18	0.28	0.00
Crit Moves:			***	****				****		****		
Green/Cycle:	0.13	0.00	0.13	0.06	0.00	0.06	0.00	0.50	0.50	0.23	0.73	0.00
Volume/Cap:	0.42	0.00	0.76	0.76	0.00	0.52	0.00	0.76	0.76		0.38	0.00
Delay/Veh:	49.0	0.0	64.5	82.9	0.0	60.1	0.0	26.1	26.1	50.5	6.0	0.0
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00
AdjDel/Veh:	49.0	0.0	64.5	82.9	0.0	60.1	0.0	26.1	26.1	50.5	6.0	0.0
DesignQueue:	6	0	9	5	0	3	0	. 47	2	17	19	0

Note: Advanced

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) 2020 Plus Phase 1 and 2 PM

Intersection #10: Mission/Almar [N/S: Almar E/w: Mission]



Approach:		th Bo			th Bo			set Bo			est_Bo	
Movement:		- T			T			т		, L -		
Min. Green:		0		1	0	1	1			0	0	
Min. Green:									۱۱			
Volume Module				1					,			
Volume Modul. Base Vol:	81	0	129	62	0	38	0	1021	48	253	804	
Growth Adi:		1.24		1.24		1.24		1.24	1.24	1.24	1.24	1.24
Initial Bse:	100	- 0	160	77	0	47		1266	60	314	997	
Added Vol:	100	Ď	54	Ó	ō	- 0	ō	88	0	30	49	
Campus Incr:	Ö	ō	0	ā	ő	ō	ō	0	ō	ō	0	
Initial Fut:	100	0	214	77	0	47	0	1354	60	344	1046	
User Adi:		1.00			1.00	1.00		1.00	1.00	1.00	1.00	1.00
PHF Adi:		1.00	1.00	1.00		1.00		1.00	1.00		1.00	1.0
PHF Volume:	100	1.00	214	77	- 0	47		1354	60		1046	
Reduct Vol:	100	a		'n	ŏ	ő	ŏ	0	0	0	0	
Reduced Vol:	100	õ	214	77		-	ō	1354	60	344	1046	
PCE Adi:		1.00				1.00		1.00		1.00	1.00	1.0
MLF Adi:		1.00	1.00		1.00	1.00		1.00		1.00	1.00	1.0
Final Vol.:	100	1.00	214	77	0	47		1354	60		1046	
TIMAL VOI						1						
Saturation F				1 1			٠,			•		
Sat/Lane:		1900		1900	1900	1900	1900	1900	1900	1900	1900	190
Adjustment:					1.00	0.83		0.93		0.93	0.93	1.0
Lanes:		0.00	1.00		0.00	1.00		1.92	0.08	1.00	2.00	0.0
Final Sat.:	1769	0.00		1769	0.00	1583		3369	148	1769	3538	
rinai sat.:									1			
Capacity Ana				1		'						
Capacity Ana Vol/Sat:		0.00		0 04	0.00	0.03	0.00	0.40	0.40	0.19	0.30	0.0
voi/sat: Crit Moves:	0.00	0.00	****		0.00	0.05	0.00	****		****		
Green/Cycle:	0.76	0.00			0.00	0.05	0.00	0.48	0.48	0.23	0.71	0.0
Green/Cycle: Volume/Cap:		0.00				0.57		0.84			0.42	0.0
Volume/Cap: Delay/Veh:				102.4	0.0	65.1		31.0			7.2	0.
Delay/ven: User DelAdj:					1.00	1.00		1.00			1.00	1.0
user Deladj: AdiDel/Veh:		0.0		102.4	0.0	65.1		31.0		58.0	7.2	0.
	45.5	0.0	12	102.4	0.0	3	0.0	52	2	18	22	•
DesignQueue:	•	U	12		U	,	·	مد	-		~~	

COMPARE

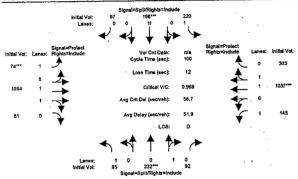
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## Marine Salance Canie

## November 2003 Level Of Service Computation Report On HCM Operations (Future Volume Allemetry

Intersection #11: Mission/Bay [N/S: Bay E/w: Mission]



Approach:	No	rth Bo	und		ith Bo			ast Bo			est Bo	
Morromont.	L -	- т	~ R	L -	· T	- R	. ь -	· T	- R .		т	
MOVEMENT.												
Min Croon.	Δ.	0	Λ	n	D	0	0	0	ο.	U	U	U
Min. Green:												1
Volume Module								,				
Base Vol:	77		74	170	155	78		856	65	117		219
Growth Adj:	1.24		1.24	1.24		1.24		1.24	1.24	1.24		1.24 272
Initial Bse:		212	92	211	192	97		1064	81		1037	2/2
Added Vol:	0		0	0		0	0	0	0	. 0	0	31
Campus Incr:			0	9		0 97	. 0	0	-		-	303
Initial Fut:			92	220				1064			1037	1.00
User Adj:		1.00	1.00		1.00	1.00		1.00				1.00
PHF Adj:		1.00	1.00		1.00	1.00		1.00	1.00		1.00	303
PHF Volume:		232	92	220	198	97		1064	81		1037	303
Reduct Vol:			0	0	. 0	0	0	0		0		303
Reduced Vol:		232	92	220	198	97		1064			1037	
PCE Adj:			1.00		1.00	1.00		1.00			1.00	1.00
MLF Adj:		1.00	1.00		1.00	1.00		1.00			1.00	303
Final Vol.:	95	232	92	220	198	97	. 74	1064	81		1037	
										1		
Saturation F												1000
Sat/Lane:		1900		1900		1900		1900			1900	1900
Adjustment:	0.91	0.92		0.92		0.92		0.92			0.90	0.90
Lanes:		0.72	0.28		0.49	0.24		1.86			1.55	0.45 772
Final Sat :	1736	1255	496	2211	852	416	1769	3256	247		2645	
rinai sac			·j									
Capacity Ana												0.39
Vol/Sat:		0.18	0.18	0.10	0.23	0.23	0.04		0.33	0.08	0.39	0.39
Crit Moves:					****		***					
Green/Cycle:			0.19		0.24	0.24			0.36		0.40	
Volume/Cap:		0.97	0.97		0.97	0.97		0.91			0.97	0.97
Delay/Veh:		80.6	80.6		68.4		139.1				46.1	46.1
User DelAdj:	1.00				1.00		1.00				1.00	1.00
AdjDel/Veh:	35.1	80.6	80.6		68.4		139.1				46.1	46.1
DesignQueue:	4	11	4	10	9	4	4	41	. 3	7	38	. 11

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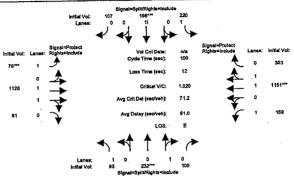
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Level Of Senice Computation Report 2000 HCM Operations (Future Volume Alternative) 2020 Plus Phase 1 and 2 AM

Intersection #11: Mission/Bay [N/S: Bay E/w: Mission]



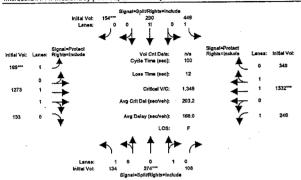
Approach:	Nor	th Bo	und	Sou	th Bo	und	Ea	st Bo			st Bo	
Movement:	L -	т	- R		T		L -	-	- R	. L -	T	~ R
	l									1		1
Min. Green:	0	0	0	. 0	0	٥.	. 0	0	٥,	. 0	0	٥
Volume Module											006	219
Base Vol:	77	171	. 74	170	1.55	78	60	858	65	117	836	1.24
Growth Adj:	1.24		1.24	1.24		1.24	1.24		1.24	1.24		272
Initial Bse:	95	212	92	211	192	97		1054	81		1037	
Added Vol:	0	0	8	0	0	10	5	64	0	14	114	0
Campus Incr:	0	20	0	9	` 6	0	0	0	0	0	0	31
Initial Fut:	95	232	100	220	198	107		1128	81		1151	303
User Adi:	1.00	1.00	1.00	1.00		1.00		1.00	1.00	1.00		1.00
PHF Adi:	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00
PHF Volume:	95	232	100	220	198	107	79	1128	81		1151	303
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	95	232	100	220	198	107	79	1128	81		1151	303
PCE Adj:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.:	95	232	100	220	198	107	79	1128	81	159	1151	303
Final Vol						}				1		
Saturation F									•			
Sat/Lane:		1900		1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:		0.92	0.92		0.91	0.91	0.93	0.92	0.92	0.93	0.90	0.90
			0.30		0.48	0.26		1.87	0.13	1.00	1.58	0.42
Lanes:		1221	525	2196	829	447	1769	3269	234	1769	2714	714
Final Sat.:	1/30	1221							1	1		
Capacity Ana				1								
	TARIR	0.19	0.19	0.10	0.24	0.24	0.04	0.35	0.35	0.09	0.42	0.42
Vol/Sat:	0.05	****	0.15	0.10	****	**	****	•			****	
Crit Moves:	. 10		0.19	0 23	0.23	0.23	0.04	0.36	0.36	0.09	0.42	0.42
Green/Cycle:	0.19	1.02	1.02		1.02	1.02		0.95		0.95	1.02	1.02
Volume/Cap:					83.2		155.5				58.3	
Delay/Veh:		95.9			1.00	1.00		1.00			1.00	1.00
User DelAdj:					83.2		155.5				58.3	58.3
AdjDel/Veh:		95.9 11	95.9	10			4			В	42	11
DesignQueue:	4	17	>	. 10	. •	. 3	•		_	_		

Traffix 7.5.0715

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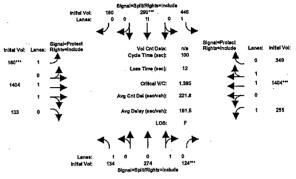
Intersection #11: Mission/Bay [N/S: Bay E/w: Mission]



Approach:	No	rth Bo	ound	Sou	ith Bo	ound	Ea	st Bo	und -	We	st Bo	und
Movement:	ъ.	- T	- R	L.	- Т	- R	L -	T	- R	ъ.	- т	- R
Min. Green:	o		oʻ	0	0	0	. 0	0	0	0	0	0
Volume Module	2:		•									
Base Vol:	108	211	87	336	219	124	136	1027	107	198	1074	267
Growth Adj:	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24
Initial Bse:	134	262	108	417	272	154	169	1273	133	246	1332	331
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Campus Incr:	. 0	12	0	29	18	0	0	. 0	0	0	0	18
Initial Put:	134	274	108	446	290	154	169	1273	133	246	1332	349
User Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	134	274	108	446	290	154	169	1273	133	246	1332	349
Reduct Vol:	0	0	. 0	0	0	0	0	0	0	0	0	0
Reduced Vol:	134	274	108	446	290	154	169	1273	133	246	1332	349
PCE Adi:		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adi:		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.:			108	446		154		1273	133	246	1332	349
			1							1		1
Saturation F				ı						•		
Sat/Lane:		1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:		0.92	0.92		0.91	0.91		0.92	0.92		0.90	0.90
Lanes:		0.72	0.28		0.43	0.23		1.81	0.19		1.58	0.42
Final Sat.:		1256	495		755	401		3159			2716	712
												1
Capacity Ana				1			11			11		,
		0.22			0.38	0.38	0 10	0.40	0.40	0 14	0.49	0.49
Vol/Sat:	0.08	****	0.22	0.19	0.30	****	****	0.40	0.40	0.14	****	0.25
Crit Moves:			0.16		0.28	0.28		0 33	0.32	0 11	0.36	0.36
Green/Cycle:			1.35		1.35	1.35		1.25	1.25		1.35	1.35
Volume/Cap:									153.0			194.2
Delay/Veh:	39.4		220.5			202.7			1.00		1.00	1.00
User DelAdj:			1.00		1.00	1.00			153.0		194	
AdjDel/Veh:			220.5	33.1			247.0					14
DesignQueue:	6	13	5	19	13	7	9	53	. 6	13	53	14

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) 2020 Plus Phase 1 and 2 PM

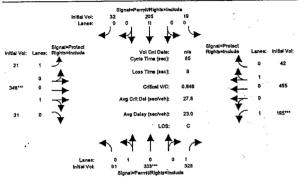
Intersection #11: Mission/Bay [N/S: Bay E/w: Mission]



Approach:	Non	th Bo	ound		ith Bo			st Bo			est Bo	
Movement:	L -		- R			- R		т		. ь -	· T	- R
Min. Green:	0	0	0	0			. 0	0	0	. 0	0	٥.
Volume Module	•:											
Base Vol:	108	211	87	336	219	124		1027	107		1074	267
Growth Adj:	1.24	1.24	1.24	1.24		1.24	1.24		1.24	1.24		1.24
Initial Bse:	134	262	108	417	272	154		1273	133		1332	331
Added Vol:	0	0	16	0	0	6	11	131	0	9	72	0
Campus Incr:	0	12	0	29	18	0	0	0	0	0	.0	18
Initial Fut:	134	274	124	446	290	160		1404	133		1404	349
User Adj:	1.00	1.00	1.00		1.00	1.00		1.00	1.00		1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00
PHF Volume:	134	274	124	446	290	160	180	1404	133		1404	349
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	134	274	124	446	290	160	180	1404	133		1404	349
PCE Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00
Final Vol.:	134	274	124	446	290	160		1404	133		1404	349
	1											·
Saturation F.	ow Mo	dule	. '									
Sat/Lane:		1900		1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.91	0.92	0.92	0.91	0.91	0.91	0.93	0.92	0.92	0.93	0.90	0.90
Lanes:		0.69		1.33	0.43	0.24	1.00	1.83	0.17	1.00	1.60	0.40
Final Sat.:		1199		2311	748	413	1769	3190	301	1769	2748	683
	1			1			1					
Capacity Ana				'								
Vol/Sat:			0.23	0.19	0.39	0.39	0.10	0.44	0.44	0.14	0.51	0.51
Crit Moves:	0.00	0.25	****	**	****		****				****	
Green/Cycle:	0 16	0 16	0.16	0.28	0.28	0.28	0.07	0.33	0.33	0.11	0.37	0.37
Volume/Cap:		1.40				1.40		1.33	1.33	1.33	1.40	1.40
Delay/Veh:	39.1		239.7			223.4			188.4	224.8	214	214.5
User DelAdj:			1.00		1.00	1.00		1.00	1.00		1.00	1.00
AdiDel/Veh:	39.1		239.7	34.0		223.4			188.4			214.5
		13	239.7	19	13	7	9		6	13	56	14
DesignQueue:	ь	13	•	13	13	,		30				

Lavel Of Service Computation Report 2000 HCM Operations (Future Volume Atternative) 2020 Baseline AM

Intersection #12: Laurel/California [N/S: California E/w: Laurel]



Approach:	No	North Bound			ith Bo			st Bo			est Bo	
Movement:		- Т		L -				- т		. ь -	-	- R
~			1			}						
Min. Green:	0		0	. 0		0	. 0	0	٥.	. 0	0	٥,
Volume Module	е.											
Base Vol:	73	243	262	15	158	26	17	281	25	157	367	34
Growth Adj:	1.24	1.24	1.24	1.24		1.24	1.24		1.24	1.24		1.24
Initial Bse:	91	301	325	19	196	32	21	348	31	195	455	42
Added Vol:	0	0	0	0	0	0	0	Ō	0	a	0	0
Campus Incr:	0	32	0	0	9	0	0	0	, 0	0	0	0
Initial Fut:	91	333	325	19	205	32	21	348	31	195	455	42
User Adj:		1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00
PHF Adj:	1.00	1.00	1.00		1.00	1.00		1.00	1.00	1.00		1.00
PHF Volume:	91	333	325	19	205	32	21	348	31	195	455	42
Reduct Vol:	0	. 0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	91.	333	325	19	205	32	21	348	31	195	455	42
PCE Adj:	1.00	1.00	1.00		1.00	1.00		1.00	1.00		1.00	1.00
MLF Adj:	1.00	1.00	1.00		1.00	1.00		1.00	1.00		1.00	1.00
Final Vol.:	91		325	19	205	32	21	348	31	. 195	455	42
							1					
Saturation F	low M	odule:	:									
Sat/Lane:	1900	1900	1900		1900	1900		1900	1900		1900	1900
Adjustment:	0.85	0.85	0.83		0.93	0.93		0.97	0.97		0.97	0.97
Lanes:		0.79	1.00		0.80	0.13		0.92	0.08		0.92	0.08
Final Sat.:		1275	1583		1411	222		,1689	150		1682	156
							1			1		
Capacity Ana	lysis	Modu.	le:									
Vol/Sat:	0.26	0.26	0.21	0.15	0.15	0.15	0.01	0.21	0.21		0.27	0.27
Crit Moves:		****						****		****		
Green/Cycle:			0.40		0.40	0.40		0.32	0.32		0.47	0.47
Volume/Cap:		0.65	0.51		0.36	0.36		0.65	0.65		0.58	0.58
Delay/Veh:		22.6	19.6		17.9	17.9		27.3	27.3		17.4	17.4
User DelAdj:			1.00		1.00	1.00		1.00	1.00		1.00	1.00
AdjDel/Veh:	22.6	22.6	19.6		17.9	17.9			27.3		17.4	17.4
DesignQueue:	3	10	10	1	6	1	1	12	1	8	12	1

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alte 2020 Plus Phase 1 and 2 AM Intersection #12: Laurel/California [N/S: California E/w: Laurell Loss Time (sec): Avu Crit Del (sec/veh): South Bound East Bound North Bound Approach: L - T - R L - T - R L - T - R Movement: L - T - R Min. Green: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 Volume Module: 15 158 17 281 25 157 367 73 243 262 Base Vol: 32 21 348 19 196 Initial Bse: 91 301 325 14 3 Added Vol: 0 0 n . 0 32 ٥ Campus Incr: 31 209 461 Initial Fut: 91 333 333 19 205 32 21 351 PHF Adi: 42 91 333 333 19 205 32 21 351 31 209 461 PHP Volume: ٥ 0 0 0 0 Reduct Vol: 0 0 Ω Reduced Vol: 91 333 333 19 205 32 21 351 31 209 461 42 ______ Saturation Flow Module: 

Adjustment: 0.85 0.85 0.83 0.93 0.93 0.93 0.93 0.97 0.97 0.93 0.97 0.21 0.79 1.00 0.07 0.80 0.13 1.00 0.92 0.08 1.00 0.92 0.08 Final Sat.: 346 1273 1583 128 1411 222 1769 1691 149 1769 1684 154 -----|

Vol/Sat: 0.26 0.26 0.21 0.15 0.15 0.15 0.01 0.21 0.21 0.12 0.27

Green/Cycle: 0.40 0.40 0.40 0.40 0.40 0.40 0.02 0.32 0.32 0.18 0.48 0.48 Volume/Cap: 0.66 0.66 0.53 0.36 0.36 0.36 0.58 0.66 0.66 0.66 0.58 0.58 Delay/Veh: 23.3 23.3 20.3 18.3 18.3 18.3 61.9 27.8 27.8 37.4 17.1 17.1 AdjDel/Veh: 23.3 23.3 20.3 18.3 18.3 18.3 61.9 27.8 27.8 37.4 17.1 17.1

Merine Science Cente

Capacity Analysis Module:

DesignQueue: 3 10 10

***

Crit Moves:

***

1 6 1 1 12 1 8 12

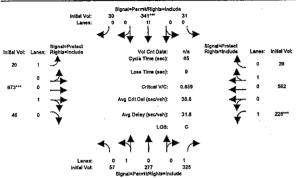
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## November 2003

Level Of Service Computation Report 2000 HCM Operations (Future Volume Atlamative) 2020 Baseline PM

Intersection #12: Laurel/California [N/S: California E/w: Laurel]

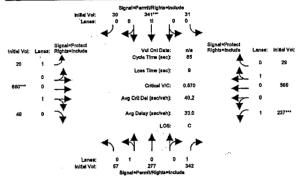


Approach:	pproach: North Bound				uth Bo	und	Ea	ast Bo	ound	W	est Bo	ound
Movement:	L	- T	- R	L.	- T	- R	L.	- Т	- R	L	- T	- R
	-1		!	1			I			1		. <i>-</i>
Min. Green:	'n	0	0	0	0	0	0	0	0	0	0	0
			!	1					1			
Volume Modu	lė:		٠.	•		•	•					
Base Vol:				25	251	24	16	543	37	184	453	23
Growth Adj:	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24
Initial Bse			325		311		20	673	46			
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Campus Incr			0	0	30	0	0	0	0	0	0	. 0
Initial Put					341			673		228	562	29
User 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
PHF Adi:					1.00		1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:					341	30	20	673	46	228	562	29
Reduct Vol:				0	0	0	o	0	0	0	0	0
Reduced Vol	: 57	277	325	31	341	30	20	673	46	228	562	29
PCE Adj: .						1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00			1.00					1.00	1.00
Final Vol.:	57	277	325		341				46		562	29
	-1			1		1						
Saturation 1				•		,						
Sat/Lane:				1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.76	0.76	0.83	0.85	0.85	0.85	0.93	0.97	0.97	0.93	0.97	0.97
Lanes:	0.17	0.83	1.00	0.08	0.85	0.07	1.00	0.94	0.06	1.00	0.95	0.05
Final Sat .:	245	1190	1583	124	1369	119	1769	1726	118	1769	1760	89
	-		1							1		
Capacity And						,				•		
Vol/Sat:				0.25	0.25	0.25	0.01	0.39	0.39	0.13	0.32	0.32
Crit Moves:								****		****		
Green/Cycle		0.29	0.29	0.29	0.29			0.45	0.45	0.15	0.58	0.58
Volume/Cap:					0.86				0.86			
Delay/Veh:						43.3			29.7		11.4	
User DelAdi						1.00		1.00	1.00	1.00	1.00	1.00
AdiDel/Veh:						43.3			29.7			
DegiamOuene												

## Wed Nov 26 10:18:05 2003 Marine Science Center

Level Of Service Computation Report 2009 HGM Operations (Future Volume Atternative 2020 Plus Phese 1 and 2 PM

Intersection #12: Laurel/California [N/S: California E/w: Laurel)

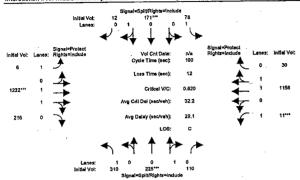


T - R	0 0 	- R   0   24 1.24 30 0	16 1.24 20	0 543 1.24	37 1.24 46	L	٥	- R   0   23 1.24
0 0 	0 0 	24 1.24 30 0	16 1.24 20	543 1.24 673	37 1.24 46	184	0 453 1.24	23 1.24
0 0 	0 0 	24 1.24 30 0	16 1.24 20	543 1.24 673	37 1.24 46	184 1.24	453 1.24	23 1.24
208 262 .24 1.24 258 325 0 17 19 0 277 342	25 251 1.24 1.24 31 311 0 0 0 30	24 1.24 30 0	16 1.24 20 0	543 1.24 673	37 1.24 46	184 1.24	453 1.24	23 1.24
.24 1.24 258 325 0 17 19 0 277 342	1.24 1.24 31 311 0 0 0 30	1.24 30 0	1.24 20 0	1.24 673	1.24 46	1.24	1.24	1.24
.24 1.24 258 325 0 17 19 0 277 342	1.24 1.24 31 311 0 0 0 30	1.24 30 0	1.24 20 0	1.24 673	1.24 46	1.24	1.24	1.24
258 325 0 17 19 0 277 342	31 311 0 0 0 30	30 0	20 0	673	46			
0 17 19 0 277 342	0 0	0	0			220		29
19 0 277 342	0 30					9	302	0
277 342		0			0		-	-
	31 341		0	0	0	0	0	0
.00 1.00			20					
								1.00
								1.00
								29
						_	-	0
277 342	31 341	30	20	680	46			29
.00 1.00	1.00 1.00	1.00						1.00
.00 1.00								1.00
								29
ale:								
.75 0.83	0.84 0.84							
.83 1.00	0.08 0.85							0.05
186 1583								89
odule:								
.23 0.22	0.25 0.25	0.25	0.01		0.39		0.32	0.32
	****							
.29 0.29	0.29 0.29							
.81 0.75	0.87 0.87	0.87	0.55	0.87	0.87	0.87	0.55	
9.6 34.3	45.0 45.0	45.0	57.9	30.9	30.9			11.3
.00 1.00	1.00 1.00							1.00
	45.0 45.0	45.0	57.9	30.9	30.9	59.8	11.3	11.3
	1 12	1	1	20	1	10	12	1
2	.00 1.00 1.00 1.77 342 0 0 0 0 0 0 1.00 1.00 1.00 1.00 1.00 1	100 1.00 1.00 1.00 177 342 31 341 0 0 0 0 0 177 342 31 341 0 0 1.00 1.00 1.00 1.00 1.00 1.00 1.00	.00 1.00 1.00 1.00 1.00 177 342 31 341 30 0 0 0 0 0 177 342 31 341 30 .00 1.00 1.00 1.00 1.00 .00 1.00 1.00	100 1.00 1.00 1.00 1.00 1.00 1.00 1.77 342 31 341 30 20 0 0 0 0 0 0 0 0.277 342 31 341 30 20 0.00 1.00 1.00 1.00 1.00 1.00 1.00	100 1.00 1.00 1.00 1.00 1.00 1.00 1.00	100 1.00 1.00 1.00 1.00 1.00 1.00 1.00	100 1.00 1.00 1.00 1.00 1.00 1.00 1.00	100 1.00 1.00 1.00 1.00 1.00 1.00 1.00

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Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) 2020 Baseline AM

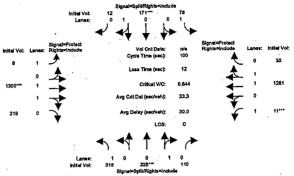
Intersection #13: Mission/Laurel [N/S: Laurel E/w: Missioni]



Approach:	Nor	th Bo	und	Sou	th Bo	und	Ea	st Bo	und	West Bound			
Movement:		T		ъ -	T	- R	L -	т	- R	L -	T	- R	
						1	1						
Min. Green:			o'			o '		0	0	. 0	0	0	
		<del>-</del> -		1		1						1	
Volume Module						,	•			•		•	
Base Vol:	242	164	89	63	133	10	5	989	172	9	917	24	
	1.24		1.24	1.24		1.24	1.24	1.24	1.24	1.24	1.24	1.24	
Initial Bse:	300	203	110	78	165	12	6	1226	213	11	1137	30	
Added Vol:	0	0		0	0	0	0	0	0	0	0	0	
Campus Incr:	10	22	ō	0	6	0	0	6	. 3	0	21	0	
Initial Fut:	310	225	110	78	171	12	6	1232	216	11	1158	30	
	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	
PHF Volume:	310	225	110	78	171	12	6	1232	216	11	1158	30	
Reduct Vol:	310	223	0	0	- 0	0	ō	0	0	0	0	0	
Reduced Vol:	310	225	110	78	171	12	6	1232	216	11	1158	30	
		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
		1.00	1.00		1.00	1.00			1.00		1.00	1.00	
Final Vol.:	310		110		171	12		1232	216	11	1158	30	
Final VOI.:									'	1			
Saturation Fl				1						•		• •	
Sat/Lane:		1900	1900	1900	1900	1900	1900	1900	-1900	1900	1900	1900	
Adjustment:		0.93	0.93		0.97	0.97			0.89		0.91	0.91	
Lanes:		0.67	0.33		0.93	0.07		1.70		1.00	1.95	0.05	
Final Sat.:		1189			1719			2889			3372	87	
Capacity Anal				1			1.7	1-				•	
Vol/Sat:		0.19	0.19	0.04	0.10	0.10	0.00	0.43	0.43	0.01	0.34	0.34	
Crit Moves:	0.10	****	0.25	0.04	****			****		****			
Green/Cycle:	۸ 22		0 22	0 12	0.12	0.12	0 01	0.52	. 0.52	0.01	0.52	0.52	
Volume/Cap:			0.82		0.82	0.82		0.82			0.66	0.66	
Delay/Veh:					63.7		153.1			200.1		18.3	
User DelAdj:								1.00			1.00	1.00	
AdiDel/Veh:		1.00	1.00 48.9		1.00	1.00	153.1			200.1			

Lavel Of Service Computation Report 2000 HCM Operations (Future Volume Atternative) 2020 Plus Phase 1 and 2 AM

Intersection #13: Mission/Laurel [N/S: Laurel E/w: Missioni]

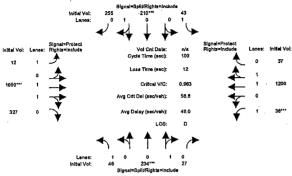


•		· • • • • • • • • • • • • • • • • • • •	Signet	-9plivRight	s≕indude							
Approach:	No	rth Bo	bruc	Sou	th Bo	ound	Ea	ast Bo	und	We	st Bo	und
Morromont.	т	- Т	- R	T	. т	R	L.	• т	- R	ь -	· T	- K
			{			·						
Min Green:		0	0	0	0	0	0	0	0	0	0	U
							1			1		
Volume Module							_			_		
Base Vol:			89	63				989			917	
Growth Adj:			1.24			. 1.24		1.24			1.24	
Initial Bse:				78				1226	213		1137	
Added Vol:				0	0	0			3	0		
Campus Incr:	1,0	22	0	0	6	0						
Initial Fut:	316	225	110		171				219			
User Adj:			1.00	1.00	1.00		1.00				1.00	
PHF Adj:	1.00	1.00		1.00				1.00			1.00	
PHF Volume:			110	78				1300			1281	30
Reduct Vol:	0	0	0			0			0			
Reduced Vol:	316	225	110	78	171	12			219		1281	
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Einel Wal .	216	225	110	7 R	171	12	- 6	1300	417		1281	
rinal vol.:	1											1
Saturation F	low M	odule	:									1900
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900		1900		
Adjustment:	0.93	0.93	0.93	0.93	0.97	0.97	0.91	0.89	0.89	0.91	0.91	0.05
Lanes:	1.00	0.67	0.33	1.00	0.93	0.07	1,00	1.71	0.29	1.00	1.95	
Final Sat.:	1769	1189	582	1769	1719	125	1736	2906	490	1736	3384	79
Final Sac.:							11			11		
Capacity Ana	lysis	Modu	le:									0 20
Vol/Sat:	0.18	0.19	0.19	0.04	0.10	0.10	0.00	****		0.01	0.30	0.30
					****							
Green/Cycle:	0.22	0.22	0.22	0.12	0.12	0.12	0.01	0.53	0.53	0.01	0.53	0.53
Volume/Cap:	0.80	0.84	0.84	0.37	0.84	0.84	0.71	0.84	0.84	0.84	0.71	0.71
Delay/Veh:	47.3	52.2	52.2			68.1	186.8	23.8	23.8	214.7	18.9	1.00
User DelAdj:	1.00	1.00	1.00		1.00				1.00			
AdjDel/Ven:			52.2			68.1				214.7		
DesignQueue:	14	10	5	4	9	. 1	0	38	6	1	37	1

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## November 2003 Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) 2020 Baseline PM

Intersection #13: Mission/Laurel [N/S: Laurel E/w: Missioni]



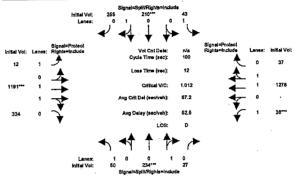
Approach:	No	rth Bo	ound	Sou	ith Bo	ound	Ba	st Bo	und	We	est Bo	ound
Movement:	L.	- т	- R	L ·	- T	- R	ъ.	- T	- R	L -	T	- R
				1					<b>-</b> -			
Min. Green:	· 0	0	o '	· 0			0			0		. 0
Volume Module	ė:		·									
Base Vol:	40	221	27	43	190	255		1031	318		1188	37
Growth Adj:	1.00	1.00	1.00	1.00		1.00		1.00	1.00	1.00		1.00
Initial Bse:	40	221	27	43	190	255		1031	318		1188	37
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Campus Incr:	6	13	0	0	20	0	0	. 19	9	0	12	0
Initial Fut:	46	234	27	43	210	255	12	1050	327		1200	37
User 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
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00
PHF Volume:	46	234	27	43	210	255	12	1050	327	38	1200	37
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	46	234	27	43	210	255	12	1050	327	38	1200	37
PCE 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
MLF 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
Final Vol.:	46	234	27	43	210	255	12	1050	327	38	1200	37
Saturation F	low M	odule										
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.93	0.97	0.97	0.93	0.90	0.90	0.91	0.88	0.88		0.91	0.91
Lanes:	1.00	0.90	0.10	1.00	0.45	0.55	1.00	1.53	0.47		1.94	0.06
Final Sat.:	1769	1644	190	1769	772	937	1736	2553	795	1736	3355	103
	1			1								
Capacity Ana	lysis	Modu	le:	٠								
Vol/Sat:	0.03	0.14	0.14	0.02	0.27	0.27	0.01	0.41	0.41		0.36	0.36
Crit Moves:		***			***			****		****		
Green/Cycle:	0.15	0.15	0.15	0.28	0.28	0.28	0.01	0.43	0.43	0.02	0.44	0.44
Volume/Cap:		0.96	0.96	0.09	0.96	0.96	0.81	0.96	0.96	0.96	0.81	0.81
Delay/Veh:		86.7	86.7	26.5	66.9	66.9	187.7	43.7	43.7	177.2	27.7	27.7
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:		86.7	86.7		66.9		187.7		43.7	177.2	27.7	27.7
DesignOueue:	2	11	1	2		11	1	37	12	2	41	1

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# Level Of Bandes Computation Report 2000 HCM Operations (Future Volume Alternative) 2020 Plus Phase 1 and 2 PM Intersection #13: Mission/Laurel [N/S: Laurel Elvr. Missioni]

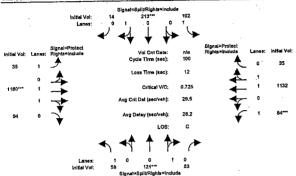


			Signal	Spil/Right	b≖indude							
Approach:	No	rth Bo	bauc	Sot	ith Bo	und					est Bo	
Movement:	L.	· T	- R	L.	- т	- R			- R		· T	
						[						
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Volume Module												
Base Vol:		221			190			1031			1188	37
Growth Adj:		1.00			1.00			1.00			1.00	
Initial Bse:					190				318		1188	37
Added Vol:		0				0			7	0		0
Campus Incr:		13								0		0
Initial Fut:								1191			1278	
User Adj:	1.00	1.00			1.00			1.00			1.00	
PHF Adj:	1.00	1.00	1.00	1.00	1.00			1.00			1.00	
PHF Volume:	50			43				1191			1278	37
Reduct Vol:	0			0	0	0			0	0	0	_
Reduced Vol:	50	234	27	43	210			1191			1278	
PCE Adj:	1.00	1.00	1.00		1.00		1.00				1.00	
MLF Adj:	1.00	1.00	1.00		1.00			1.00			1.00	
Final Vol.:	50	234	27		210				334		1278	37
Saturation Fi	low M	odule.	:									
Sat/Lane:			1900		1900		1900			1900		
Adjustment:	0.93	0.97	0.97		0.90		0.91					
Lanes: .	1.00	0.90	0.10		0.45		1.00			1.00		
Final Sat.:	1769	1644	190	1769	772	937	1736	2623	736		3362	
	}											
Capacity Anal	İysis	Modu.	le:									
Vol/Sat:	0.03	0.14	0.14	0.02	0.27	0.27	0.01	0.45	0.45	0.02	0.38	0.38
Crit Moves:		****			***			***		***		
Green/Cycle:	0.14	0.14	0.14	0.27	0.27	0.27				0.02		
Volume/Cap:	0.20	1.01	1.01	0.09	1.01					1.01		
Delay/Veh:			102.0		81.5					199.3		
User DelAdj:	1.00				1.00	1.00	1.00	1.00		1.00		
AdjDel/Veh:	38.4	102	102.0	27.5	81.5	81.5	194.9	53.7	53.7	199.3	26.9	26.9
DesignQueue:	2	12	1				1		11	2	42	. 1
Den-Jugaene.	_			_	_							

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Intersection #14: Mission/Walnut [N/S: Walnut E/w: Mission]



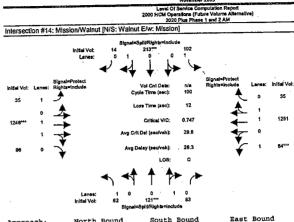
Approach: North Bo	und Sc	nth Bo	und	Ea	st Bo	und	We	st Bo	und
			- R			- R	ъ-	T	- R
Movement: L ~ T									
		. 0	o'	, .	0	o'		0	0
Min. Green: 0 0	-11	,		1		1			
				1		•	•		
Volume Module:	67 82	170	11	28	947	76	68	896	28
Base Vol: 47 92			1.24		1.24		1:24		1.24
Growth Adj: 1.24 1.24			1.24		1174	94		1111	35
Initial Bse: 58 114	B3 102		14	35	11,4	0	0		0
Added Vol: 0 0	0 (		0	0	6.	0	0	21	0
Campus Incr: 0 7		2	-	_	1180	94		1132	35
Initial Fut: 58 121	83 10		14			1.00		1.00	1.00
User Adj: 1.00 1.00		1.00	1.00		1.00	1.00		1.00	1.00
PHF Adj: 1.00 1.00		1.00	1.00		1.00			1132	35
PHF Volume: 58 121	83 10		14		1180	94	0	1132	33
Reduct Vol: 0 0	_	0	0	0	0	0	_	-	35
Reduced Vol: 58 121		2 - 213			1180			1132	1.00
PCE Adj: 1.00 1.00		1.00				1.00		1.00	
MLF Adi: 1.00 1.00		1.00	1.00		1.00			1.00	1.00
Final Vol.: 58 121	83 10	2 213	1.4		1180	94		1132	35
Saturation Flow Module	,								
Sat/Lane: 1900 1900		0 1900	1900		1900			1900	1900
Adjustment: 0.95 0.94	0.94 0.9	5 0.99	0.99	0.95	0.94			0.95	0.95
Lanes: 1.00 0.59		0 0.94	0.06	1.00	1.85	0.15		1.94	0.06
Final Sat.: 1805 1058		5 1769	113		3306			3489	107
				1			1		
Capacity Analysis Modu			•	•					
Vol/Sat: 0.03 0.11		6 0.12	0.12	0.02	0.36	0.36	0.05	0.32	0.32
Crit Moves: ****		****			****		****		
Green/Cycle: 0.16 0.16	0.16 0.1	7 0.17	0.17	0.03	0.49	0.49	0.06	0.53	0.53
Volume/Cap: 0.20 0.73		4 0.73		0.62	0.73	0.73	0.73	0.62	0.62
Delay/Veh: 37.0 49.1		6 47.8		66.9	21.6	21.6	66.2	17.3	17.3
User DelAdj: 1.00 1.00		0 1.00			1.00	1.00	1.00	1.00	1.00
AdjDel/Veh: 37.0 49.1		6 47.8			21.6		66.2	17.3	17.3
AUTOGIA ACIT: 31.0 #2.1									

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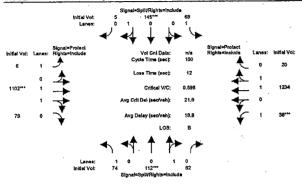
	Initial	Vol:	62 Signal:	-SpilVRlight		6.7						
Approach:	Nor	th Bo	und	Sou	th Bo	und	Ea	st Bo	und	We	st Bo	und
Movement:			1									
Min. Green:	<i>:</i>					1	1			1		
Volume Module				82	170	11	28	947	76	68	896	28
Base Vol:		92				1.24		1.24			1.24	
Growth Adj:	1.24	1.24				1.24		1174			1111	
Initial Bse:	58	114	83	102	211						119	
Added Vol:	4	0	0	0				6		-	21	_
Campus Incr:	0	7	0	. 0	2		-	1246			1251	-
Initial Fut:		121		102							1.00	
User Adj:		1.00				1.00		1.00			1.00	
PHF Adj:	1.00	1.00	1.00		1.00	1.00		1.00				35
		101	0.2	102	213	14	35	1246	96		1251	
Reduct Vol:	0	0	0	. 0	0	0	0	0	0	0		
PHF Volume: Reduct Vol: Reduced Vol:	62	121	· B3	102	213	14	35	1246	96	84	1251	
non 121.	3 00	1 00	1 00	1.00	1.00	1.00	1.00	7.00	1.00	1.00	1.00	
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
										84	1251	35
Final Vol.:	i											
0-t	1 au M	adwl a										
a /*	1000	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	
Adjustment:	0.95	D. 94	0.94	0.95	0.99	0.99	0.95	0,94	0.54	0.53	0.95	
Lanes:	1 00	0.59	0.41	1.00	0.94	0.06	1.00	1.86	0.14	1.00	1.95	
			77.0	1005	1760	117	1805	3314	256	1805	3498	97
Final Sat.:	1					i						
Compaitur Bos	Tueic	Modu	le:									
Vol/Sat:	0.03	0.11	0.11	0.06	0.12	0.12	0.02	0.38	0.38		0.36	0.36
Crit Mover.		***			***			***		****		
Green/Cycle:	Λ 15	0 15	0.15	0.16	0.16	0.16	0.03	0.50	0.50		0.54	
Volume/Cap:	0.13	0.15	0.75	0.35	0.75	0.75	0.67	0.75	0.75		0.67	
Delay/Veh:	27 6	51 3	51.3	38.0	49.8	49.8	76.2	21.5	21.5	69.7		
User DelAdj:	3/.0	1 00	1 00			1.00				1.00	1.00	
Wser DelAdj: AdjDel/Veh:	27.00	E1 2	51 3		49.8	49.8					17.6	
Adjue1/ven:	3/.6	51.5	د.در			1		38	3	4	35	. 1
DesignQueue:	3	- 6	4	-	10	_	-		-			

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## Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) 2020 Baseline PM

Intersection #14: Mission/Walnut [N/S: Walnut E/w: Mission]

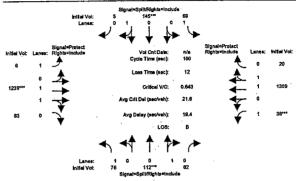


Approach:	No:	rth Bo	ound	and South Bound East Bound					Bound		
Movement:	L.	- T	- R	ъ.	- T	- R	L.	- T	- R		r - R
							1				
Min. Green:	0	Ö	. 0	0	0	0	0	. 0	0	0	0 0
						·	1		1		
Volume Module											
Base Vol:	74	108	62	69	138	5		1083	79	36 12	
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00 1.	
Initial Bse:	74	108	62	69	138	5		1083	79	36 12	
Added Vol:	0	0	0	0	0	0	0	0	. 0	0	0 0
Campus Incr:	0	4	0	0	7	. 0		19	0		12 0
Initial Fut:	74	112	62	69	145			1102	79	36 12	
User Adj:		1.00	1.00		1.00	1.00		1.00	1.00	1.00 1.	
PHF Adj:		1.00	1.00		1.00	1.00		1.00	1.00	1.00 1.	
PHF Volume:	74	112	62	69	145	5		1102	79	36 12	
Reduct Vol:	0		0	0	0	0	0	0	0	O	0 0
Reduced Vol:			62	69	145			1102	79		
PCE Adj:	1.00	1.00	1.00		1.00			1.00		1.00 1.	
MLF Adj:		1.00	1.00		1.00	1.00		1.00	1.00	1.00 1.	
Final Vol.:		112	62		145	5		1102	79	36 12	34 20
	1									ļ	
Saturation F	low M	odule	:								
Sat/Lane:		1900	1900		1900	1900		1900	1900	1900 19	
Adjustment:	0.95	0.95	0.95		1.00			0.94	0.94		
Lanes:		0.64	0.36		0.97			1.87	0.13	1.00 1.	
Final Sat.:			641		1827	63		3335	239	1805 35	
Capacity Ana											
Vol/Sat:	0.04	0.10	0.10	0.04	0.08	0.08	0.00	0.33	0.33	0.02 0.	35 0.35
Crit Moves:		****			****			****		****	
Green/Cycle:			0.16		0.13			0.55	0.55	0.03 0.	
Volume/Cap:					0.60			0.60	0.60		
Delay/Veh:		42.3			44.8		122.6		15.5	63.1 14	
User DelAdj:			1.00		11.00			1.00	1.00	1.00 1.	
AdjDel/Veh:		42.3	42.3		44.8		122.6		15.5	63.1 14	
DesignQueue:	3	5	3	. 3	7	0	0	30	. 2	2	32 1

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# Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) 2020 Plus Phase 1 and 2 PM Intersection #14: Mission/Wainut [N/S: Wainut E/w: Mission]

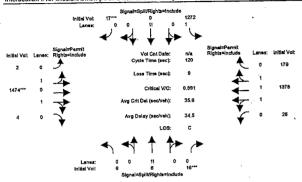


Sat/Lane: 1900 1900 1900 1900 1900 1900 1900 190				Signal	=SpliVRight	z=include							
Min. Green: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Approach:	No	rth Bo	und	Sot	ith Bo	und	Ba	ast Bo	und	We	st Bo	pund
Min. Green: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Movement:	L ·	- т	- R	L	- T	- R	L.	- T	- R	L -	т	- R
Volume Module:  Base Vol: 74 108 62 69 138 5 6 1083 79 36 1222 20 Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0				1								·	
Volume Module: Base Vol: 74 108 62 69 138 5 6 1083 79 36 1222 20  Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Min. Green:	. 0	0	٥.	. 0	0	0,	, 0	0	0,	. 0	0	0,
Volume Module: Base Vol: 74 108 62 69 138 5 6 1083 79 36 1222 20  Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0											1		1
Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Volume Module	e:											
Initial Base: 74	Base Vol:	74	108	62	69	138	5		1083	79			
Added Vol: 2 0 0 0 0 0 0 137 4 0 75 0 Campus Incr: 0 4 0 0 7 0 0 19 0 0 12 0 0 12 0 12 0 12 10 11 11 11 11 11 11 11 11 11 11 11 11	Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Campus Incr: 0 4 0 0 7 0 0 19 0 12 0 0 12 0 101intial Fut: 76 112 62 69 145 5 6 1239 83 36 1309 20 User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Initial Bse:	74	108	62	69	138	5	6	1083	79			
Initial Fut: 76 112 62 69 145 5 6 1239 83 36 1309 20   PHF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Added Vol:	2	0	0	0	0	0	0	137	4	0	75	
User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Campus Incr:	0	4	0	0	7	0	0	19	0	0	12	- 0
PHF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Initial Fut:	76	112	62	69	145	5	- 6	1239	83	36	1309	20
PHF Volume: 76 112 62 69 145 5 6 1239 83 36 1309 20 Reducet Vol: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			1.00		1.00								
Reduced Vol: 76 112 62 69 145 5 6 1239 83 36 1309 20 PCE Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	PHF Volume:	76	112		69	145	5	6	1239	63			
PCE Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Reduct Vol:	0	0	0	0	0	0	0.	0	0	0	0	0
PCE Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Reduced Vol:	76	112	62	69	145	5	6	1239	83	36	1309	20
MLF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	PCR Add:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.: 76 112 62 69 145 5 6 1239 83 36 1309 20	MLF Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Saturation Flow Module: Sat/Lane: 1900 1900 1900 1900 1900 1900 1900 190	Final Vol .	76	112	62	69	145	5	6	1239	83	36		
Saturation Flow Module: Sat/Lane: 1900 1900 1900 1900 1900 1900 1900 190								]					
Adjustment: 0.95 0.95 0.95 0.95 1.00 1.00 0.95 0.94 0.94 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95	Saturation F.	low Me	odule:										
Adjustment: 0.95 0.95 0.95 0.95 1.00 1.00 0.95 0.94 0.94 0.95 0.95 0.95 lanes: 1.00 0.64 0.36 1.00 0.97 0.03 1.00 1.87 0.13 1.00 1.97 0.03 1.00 1.87 0.13 1.00 1.97 0.03 1.00 1.87 0.13 1.00 1.97 0.03 1.00 1.87 0.13 1.00 1.97 0.03 1.00 1.87 0.13 1.00 1.97 0.03 1.00 1.97 0.03 1.00 1.97 0.03 1.00 1.97 0.03 1.00 1.00 1.00 1.00 1.00 1.00 1.00	Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lanes: 1.00 0.64 0.36 1.00 0.97 0.03 1.00 1.87 0.13 1.00 1.97 0.03 Final Sat: 1805 1158 641 1805 1827 63 1805 3353 225 1805 3549 503 Capacity Analysis Module: Vol/Sat: 0.04 0.10 0.10 0.04 0.08 0.08 0.00 0.37 0.37 0.02 0.37 0.37 Crit Moves: ***  Green/Cycle: 0.15 0.15 0.15 0.12 0.12 0.12 0.01 0.58 0.58 0.03 0.60 0.60 Volume/Cap: 0.28 0.64 0.64 0.64 0.31 0.64 0.64 0.61 0.64 0.64 0.64 0.64 0.61 0.61 Delay/Veh: 38.2 45.1 45.1 40.7 47.7 47.7 130.3 15.0 15.0 70.6 13.2 13.2	Adjustment:	0.95	0.95	0.95	0.95	1.00	1.00	0.95	0.94	0.94	0.95	0.95	0.95
Final Sat.: 1805 1158 641 1805 1827 63 1805 3353 225 1805 3549 54	Lanes:	1.00	0.64	0.36	1.00	0.97	0.03	1.00	1.87	0.13	1.00	1.97	0.03
Capacity Analysis Module:  Vol/Sat: 0.04 0.10 0.10 0.04 0.08 0.08 0.00 0.37 0.37 0.02 0.37 0.37  Crit Moves:  ****  Green/Cycle: 0.15 0.15 0.15 0.12 0.12 0.12 0.01 0.58 0.58 0.03 0.60 0.60  Volume/Cap: 0.28 0.64 0.64 0.64 0.64 0.64 0.64 0.64 0.64	Winal Sat .	1805	1158	641	1805	1827	63	1805	3353	225	1805		
Capacity Analysis Module: Vol/Sat: 0.04 0.10 0.10 0.04 0.08 0.08 0.00 0.37 0.37 0.02 0.37 0.37 Crit Moves: ****  Green/Cycle: 0.15 0.15 0.15 0.15 0.12 0.12 0.12 0.01 0.58 0.58 0.03 0.60 0.60 Volume/Cap: 0.28 0.64 0.64 0.64 0.64 0.64 0.64 0.64 0.64		1						1			ļ		
Vol/Sat: 0.04 0.10 0.10 0.04 0.08 0.08 0.08 0.00 0.37 0.37 0.02 0.37 0.37 Crit Moves: ****  Green/Cycle: 0.15 0.15 0.15 0.15 0.12 0.12 0.12 0.01 0.58 0.58 0.03 0.60 0.60 volume/Cap: 0.28 0.64 0.64 0.64 0.64 0.64 0.64 0.64 0.64	Caracity Ana	Ivele	Modul	e:									
Crit Moves: **** **** **** **** **** **** **** *	Vol/Sat	0.04	0.10	0.10	0.04	0.08	0.08	0.00	0.37	0.37	0.02	0.37	0.37
Green/Cycle: 0.15 0.15 0.15 0.12 0.12 0.12 0.01 0.58 0.58 0.03 0.00 0.00 0.00 0.00 0.00 0.00 0.0	Crit Moves:		***			****			****		***		
Volume/Cap: 0.28 0.64 0.64 0.31 0.64 0.64 0.61 0.64 0.64 0.64 0.61 0.65 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61	Green/Cycle:	0.15	0.15	0.15	0.12	0.12	0.12	0.01	0.58	0.58	0.03	0.60	
Delay/Veh: 38.2 45.1 45.1 40.7 47.7 47.7 130.3 15.0 15.0 70.6 13.2 13.2 User DelAdj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Volume/Cap:	0.28	0.64	0.64	0.31	0.64	0.64	0.61	0.64	0.64	0.64		
User DelAdj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Delay/Veh:	38.2	45.1	45.1	40.7	47.7	47.7	130.3	15.0	15.0	70.6		
Addres / Web. 38 2 45 1 45 1 40 7 47 7 47 7 130 3 15 0 15 0 70 6 13 2 13 2	User DelAdi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.1.00	1.00	1.00		
PostdonOuseau A 5 3 3 7 0 0 32 2 2 32 0	Adinol/Web	38 2	45 1	45.7	40.7	47.7	47.7	130.3	. 15.0	15.0			
	DesignOueue:	4	5	3	3	7	0	0	32	2	2	. 32	0

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Intersection #15: Mission/Union [N/S: Union E/w: Mission]



Approach: Nor	th Boun	ıd Sou	th Bo	und	Ea	st Bo	und	und		
Movement: L			т	- R	ь -	T	- R	L -	T	- R
							[ -			
Min. Green: 0	0	0,1	0	oʻ		0	٥		0	0
		[]		1	l					
Volume Module:		• • • • • • • • • • • • • • • • • • • •						•		
Base Vol: 5	5	13 1000	0	14	2	1184	. 3	21	1094	131
Growth Adi: 1.24		1.24 1.24		1.24	1.24		1.24	1.24	1.24	1.24
Initial Bse: 6	6	16 1240		17			4	26	1357	162
Added Vol: 0	Ö	0 0	ŏ	0	0	. 0	ō	0	0	0
	٥	0 32	ŏ	Ď	ō	. 6	0	0	21	17
Campus Incr: 0 Initial Fut: 6	6	16 1272	ō	17	2	1474	4	26	1378	179
			1.00	1.00		1.00	1.00	1.00	1.00	1.00
		1.00 1.00		1.00		1.00	1.00	1.00		1.00
	6	16 1272	1.00	17		1474	4		1378	179
	0	0 0	0	0	ō	0	ō	-0	0	0
Reduct Vol: 0	-		0	17	•	1474	4		1378	179
Reduced Vol: 6			-	1.00			1.00		1.00	1.00
			1.00			1.00	1.00	1.00		1.00
			1.00	1.00			4		1378	179
Final Vol.: 6	6	16 1272	0	17		1474				
								!		
Saturation Flow Me										1900
Sat/Lane: 1900			1900	1900			1900		1900	0.69
Adjustment: 0.90	0.90		1.00	0.93		0.89			0.69	
Lanes: 0.22	0.22	0.56 1.97	0.00	0.03		1.99			2.61	0.34
Final Sat.: 370	370	962 3495	0			3364	8		3405	443
Capacity Analysis	Module	:								
	0.02	0.02 0.36	0.00	0.37	0.44	0.44	0.44	0.40	0.40	0.40
Crit Moves:		****		****		****				
Green/Cycle: 0.02	0.02	0.02 0.41	0.00	0.41	0.49	0.49	0.49		0.49	0.49
Volume/Cap: 0.89		0.89 0.88	0.00	0.89	0.89	0.89	0.89		0.82	0.82
Delay/Veh: 172.7		72.7 38,8	0.0	39.9	34.0	34.0	34.0		29.0	29.0
User DelAdj: 1.00			1.00	1.00	1.00	1.00	1.00		1.00	1.00
AdjDel/Veh: 172.7				39.9	34.0	34.0	34.0	29.0	29.0	29.0
DesignOueue: 0		1 55		1	0	56	0	1	50	7

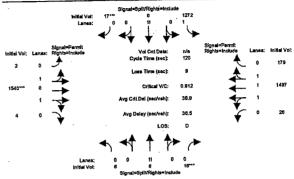
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Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) 2020 Plus Phase 1 and 2 AM

Intersection #15: Mission/Union [N/S: Union E/w: Mission]



			Signal	-9pllvRight	=include							
Approach:	Nor	th Bo	und	Sou	th Bo	und	Ba	st Bo	und	We	st Bo	
	т	m.	_ 10	T	· · · · ·	- R	L -	T	- R	L -	T	
wovement:												
win dwage.		0	٥	. 0	0	0		0	U	U	U	U
min. Green:										}		
Volume Module				•								
Base Vol:	5	5	13	1000	0	14		1184			1094	131
Growth Adj:	1.24	1.24	1.24	1.24	1.24	1.24		1.24				1.24
Initial Bse:		٠	16	1240	0	17		1468	4		1357	162
Added Vol:	a	ő	.0	0		0		66		0		0
Campus Incr:	0	ō	0	32	0	0			0			17
Initial Fut:	6	6	16	1272		17		1540			1497	
User Adi:	1.00	1.00	1.00		1.00	1.00		1.00				1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00		1.00		1.00		1.00
PHF Volume:		6	16	1272	0	17		1540	4		1497	179
Reduct Vol:		0	0	0	0	0		0		0	. 0	0
Reduced Vol:		6		1272	0				4		1497	
PCE Adj:		1.00	1.00	1.00	1.00	1.00						
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00		1.00		1.00		1.00
_1 2 20.3	_		16	1272	0	17	2	1540	4		1497	179
Final Vol.:	I											
Saturation F	low Mo	dule		•								
Sat/Lane:		1900		1900		1900		1900				1900
Adjustment:	0.90	0.90	0.90	0.93	1.00	0.93		0.89			0.68	
Lanes:		0.22	0.56	1.97	0.00	0.03		1.99			2.64	
-1 -1	370	370	962	3495	0	47	. 5	3365	8	59	3404	408
Final Sac.:	1			1						1		
Capacity Ana												
Vol/Sat:	0.02	0.02	0.02	0.36	0.00		0.46	0.46	0.46	0.44	0.44	0.44
Crit Moves:			***			***		****				
Green/Cycle:	0.02	0.02	0.02		0.:00			0.50			0.50	0.50
Volume/Cap:	0.91	0.91	0.91	0.90	0.00	0.91		0.91			0.88	0.88
Delay/Veh:	182.7	183	182.7	41.4	0.0	42.9		35.3			31.4	
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00		1.00			1.00	
AdjDel/Veh:	182.7	183	182.7	41.4	0.0	42.9		35.3			31.4	31.4
DesignQueue:	0	0	1	55	0	1	0	57	0	1	54	6
	•											

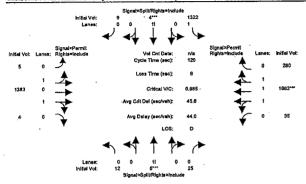
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# Novamber 2003 Level Of Service Computation Report 2000 HCM Operations (Future Volume Attemative) 2020 Baseline PM

Intersection #15: Mission/Union [N/S: Union E/w: Mission]



Approach:	No	rth Bo	ound	Sot	ith Bo	und		ast Bo		We	st Bo	
Movement:	L ·	- · T	- R		- T				- R		T	- R
Min. Green:	0	0	0	0		0	0		0	0	0	0
						1						
Volume Module	2:								,			
Base Vol:	10	4	20	982	3	7		1100	3		1347	218
Growth Adj:	1.24	1.24	1.24	1.24	1.24	1.24		1.24	1.24	1.24		1.24
Initial Bse:	12	5	25	1218	4	9	5	1364	4		1670	270
Added Vol:	0	0	٥	0	0	0	0	0	0	0	0	0
Campus Incr:	0	0	0	104	0	0	0	19	0	0	12	10
Initial Fut:	12	5	25	1322	4	9		1383	4		1682	280
User Adj:	1.00	1.00	1.00		1.00	1.00		1.00		1.00		1.00
PHF Adj:	1.00	1.00	1.00		1.00	1.00		1.00	1.00	1.00		1.00
PHF Volume:	12	5	25	1322	4	9		1383	4		1682	280
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	. 0
Reduced Vol:	12	5	25	1322	4	9		1383	4		1682	280
PCE Adj:	1.00	1.00	1.00		1.00	1.00		1.00		1.00		1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00
Final Vol.:	12	5	25	1322	4	9	5	1383	4		1682	280
				1								
Saturation F	Low M	odule	:									
Sat/Lane:	1900	1900	1900		1900	1900		1900	1900	1900		1900
Adjustment:	0.89	0.89	0.89	0.93	0.93	0.93	0.88	0.88	0.88	0.69		0.69
Lanes:	0.29	0.12	0.59	1.98	0.01	0.01	0.01	1.98		0.05		0.42
Final Sat :	497	199	995	3513	10	23		3315			3324	554
				1								
Capacity Anal	lysis	Modu	le:									
Vol/Sat:	0.02	0.02	0.02	0.38	0.38	0.38	0.42	0.42	0.42	0.51		0.51
Crit Moves:		****			****						***	
Green/Cycle:	0.03	0.03	0.03	0.39	0.39	0.39		0.51		0.51		0.51
Volume/Cap:	0.98	0.98	0.98	0.98	0.98	0.98		0.81		0.98		0.98
			189.9	55.0	\$7.3	57.3		27.4		45.1		45.1
User DelAdj:	1.00	1.00	1.00		1.00	1.00		1.00		1.00		1.00
AdjDel/Veh: :	189.9	190	189.9	55.0	57.3	57.3	27.4	27.4	27.4	45.1		45.1
DesignQueue:	1	0	2	60	0	0	0	50	0	1.	60	10

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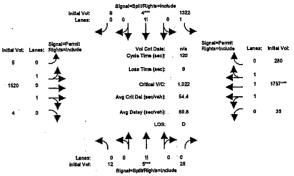
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Marine Science Center

November 2003

Level Of Service Computation Report 2000 HCM Operations (Future Volume Attemative) 2020 Plus Phase 1 and 2 PM

Intersection #15: Mission/Union (N/S: Union E/w: Mission)



			Signal	=Sptll/Riight	s⊐indude							
Approach:	No	th Bo	ound							We	st Bo	und
Movement:	ւ -	T	- R .	L	T	- R	, L	T	- R		T	
	0		۱۱	1			1	0	0	1	0	0
Min. Green:												
Volume Module	] ·			ı			1		, '	•		
Base Vol:	10	4	20	982	3	7	4	1100	3	28	1347	218
Growth Adj:	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24
Initial Bse:		. 5	25	1218	4	9	5	1364	4	35	1670	270
Added Vol:	0	0	0	0	0	0	0	137	0	. 0	75	
Campus Incr:	0	0	0	104	0	0	0	19	0		12	10
Initial Fut:	12	5	25	1322	. 4	9	5	1520	4	35	1757	280
User Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	12	5	25	1322	4	9	5	1520	4	35	1757	286
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	
Reduced Vol:	12	5	25	1322	4	9	5	1520	4	35	1757	280
PCE Ad1:	1.00	1.00	1.00	1.00	1.00	1.00					1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00
Final Vol.:	12	5	25		- 4	9		1520	4		1757	286
Saturation Fi	low Mo	dule	•	· .	•							
Sat/Lane:	1900	1900	1900		1900		1900		1900		1900	190
Adjustment:	0.89	0.89	0.89	0.93	0.93		0.88				0.67	0.6
Lanes:	0.29	0.12	0.59	1.98	0.01		0.01				2.54	0.4
Pinal Sat.:	497	199	995	3513	10	23		3314			3253	51
							1		[	]		
Capacity Ana:	lysis	Modu.	le:									
Vol/Sat:	0.02			0.38	0.38	0.38	0.46	0.46	0.46	0.54	0.54	0.5
Crit Moves:		****			****						***	
Green/Cycle:					0.37	0.37		0.53			0.53	0.5
Volume/Cap:	1.02	1.02	1.02		1.02		0.87		0.87		1.02	1.0
Delay/Veh:	205.1	205	205.1		68.2			29.5	29.5		53.9	
User DelAdj:	1.00	1.00	1.00		1.00			1.00	1.00		1.00	1.0
AdjDel/Veh: :					68.2			29.5	29.5		53.9	
DesignQueue:	1	0	2	61	. 0	0	0	53	0	1	61	1

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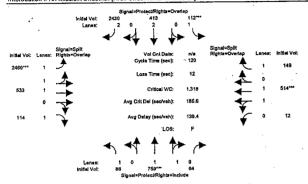
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## Marine Science Cent

## Leval Of Service Computation Report 2000 HCM Operations (Future Volume Atternative) 2020 Baseline AM

Intersection #16: Mission/Chestnut [N/S: Chestnut E/w: Mission]



Approach: No:	th Bound	South	Bound	Ea	st Bo	und	We	st Bo	und
	T - R		- R	ъ-	T	- R	ъ-	т	- R
		11							
Min Green: 0	0 0	0	0 0	0	0	0	0	0	0
								·	
Volume Module:				-					
Base Vol: 69	612 52	90 33	3 1866	1957	426	92	. 10		120
Growth Adj: 1.24	1.24 1.24	1.24 1.2	4 1.24	1.24	1.24	1.24	1.24	1.24	1.24
Initial Bse: 86	759 64	112 41	3 2314	2427	528	114	12	497	149
Added Vol: 0	0 0	0	0 0	0	.0	. 0	0	0	0
Campus Incr: 0	0 0	0	0 116	33	5	. 0	0	17	0
Initial Fut: 86	759 64	112 41	3 2430	2460	533	114	12	514	149
	1.00 1.00	1.00 1.0	0 1.00	1.00	1.00	1.00	1.00	1.00	1.00
	1.00 1.00	1.00 1.0	0 1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume: 86	759 64			2460	533	114	12	514	149
Reduct Vol: 0	0 0	0	0 0	0	0	. 0	0	0	0
	759 64	112 41	3 2430	2460	. 533	114	12	514	149
	1.00 1.00	1.00 1.0	0 1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj: 1.00				1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.: 86				2460	533	114	12	514	149
							1		
Saturation Flow Me		• • • • • • • • • • • • • • • • • • • •				,	•		
	1900 1900	1900 190	0 1900	1900	1900	1900	1900	1900	1900
	0.92 0.92			0.88	0.88	0.82	0.93	0.93	0.83
	1.84 0.16			2.00	1.00	1.00	0.05	1.95	1.00
	3222 274				1669	1554	83	3451	1583
							1		
Capacity Analysis		• •		• •					
Vol/Sat: 0.05		0.06 0.3	12 0.89	0.74	0.32	0.07	0,15	0.15	0.09
Crit Moves:	****	****		****				***	
Green/Cycle: 0.06	0.18 0.18	0.05 0.3	17 0.73	0.56	0.56	0.61	0.11	0.11	0.16
Volume/Cap: 0.88				1.32	0.57	0.12	1.32	1.32	0.58
Delay/Veh: 110.5						9.7	212.9	213	49.9
User DelAdj: 1.00					1.00	1.00	1.00	1.00	1.00
AdjDel/Veh: 110.5	203 203.3	261.6 50				9.7	212.9	213	49.9
	44 4		23 52	87	17	3	1	32	8

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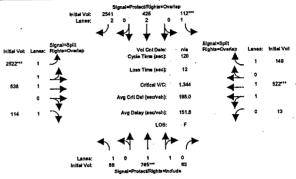
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rel Of Service Computation Report

Intersection #16: Mission/Chestnut [N/S: Chestnut E/w: Mission]



Approach:	No	th Bo	und	Sou	th Bo	und			und			
Morromont	T	. т	- R	т	T	- R	ъ.	· T	- R	. ь -	T	
MOVEMENT:			i		<b>-</b> -			· <b>-</b>				
Min Creer.	^		٥		0	٥	0	0		· ·	U	U
min. Green:												
Volume Module	ė:											
Base Vol:	69	612			333			426			401	
Growth Adj:	1.24	1.24		1.24		1.24		1.24	1.24		1.24	
Initial Bse:	86	759	64	112	413	2314	2427		114		497	149
Added Vol:	0	6	1	0		111	62	5	0	_		0
Campus Incr:	0	0	0	. 0	0	116	33			0		0
Initial Fut:			65	112	425	2541		538			522	
User Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			1.00	
PHF Ad1:		1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00
PHF Volume:		765	65	112	425	2541	2522	538	114	13		149
Reduct Vol:		0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:			65	112	425	2541	2522	538	114		522	
PCE Adj:		1.00			1.00	1.00	1.00	1.00	1.00	1.00	1.00	
MLF Adj:				1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00
Final Vol.:			65	112	425	2541		538	114	13		149
	1			11								
Saturation F												
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900		1900	
Adjustment:					0.91		0.88	0.88	0.82	0.93	0.93	
Lanes:	1.00	1.84	0.16	1.00	2.00	2.00	2.00	1.00			1.95	1.00
Rinal Sat .	1769	3220	276	1736	3473	2734		1667		88		
	1			11								
Compains Ann	ivele	Modu	۱۵۰									
Vol/Sat:	0.05	0.24	0.24	0.06	0.12	0.93	0.76	0.32	0.07	0.15	0.15	0.09
Crit Moves:		****		****			****				***	
Green/Cycle:	0.05	0.18	0.18	0.05	0.18	0.74	0.56	0.56	0.61	0.11	0.11	0.16
Volume/Cap:	0.00	1 34	1.34	1.34	0.70	1.26	1.34	0.57	0.12	1.34	1.34	0.59
Delay/Veh:	148 4	215	214.9	272.8	50.0	136.4	184.1	17.1	9.8	224.1	224	50.2
Hanr Dollari.	3 00	1 00	1.00	1:00	1.00	1.00	1.00	1.00	1.00		1.00	1.00
AdjDel/Veh:	148 4	215	214:9	272.A	50.0	136.4	184.1	17.1	9.8	224.1	224	50.2
DesignQueue:		45	4	7	24	54	89	17	3	1	32	9
nesidionene:	-	- 45	•	•	~-		•••		_			

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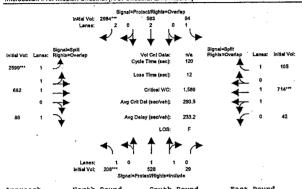
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Navember 2003

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) 2020 Baseline PM

Intersection #16: Mission/Chestnut [N/S: Chestnut E/w: Mission]



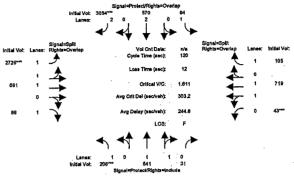
Approach:	No:	rth Bo	ound		ith Bo			ast Bo			est Bo	
Movement:		- T			· T			T		L.	- T	- R
Min Green:		0			0		0			. 0		0
Volume Modul												
Base Vol:	166		23	76	454	2352	2010			34	568	85
Growth Adj:		1.24	1.24	1.24		1.24		1.24	1.24		1.24	1.24
Initial Bse:		528	29	94	563	2916	2492	666	86	42	704	105
Added Vol:	0	0	0	0	0	0	0	0	0	0		0
Campus Incr:	0	0	0	0	0	68	107	16	. 0	0		
Initial Fut:	206		29	94	563	2984	2599	682	86	42	714	105
User Adj:		1.00	1.00	1.00		1.00		1.00	1.00		1.00	1.00
PHF Adj:			1.00	1.00		1.00		1.00	1.00		1.00	1.00
	206		29	94	563	2984	2599	682	86	42	714	105
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	. 0	0
Reduced Vol:			29	94	563	2984	2599	682	86	42	714	105
PCE Adj:		1.00			1.00	1.00		1.00	1.00		1.00	1.00
MLF Adj:		1.00	1.00		1.00	1.00		1.00	1.00		1.00	1.00
Final Vol.:		528	29		563	2984			. 86	. 42		105
Saturation F												
Sat/Lane:		1900			1900	1900					1900	1900
Adjustment:					0.91	0.72	0.88		0.82		0.93	0.83
Lanes:		1.90	0.10		2.00	2.00	2.00		1.00		1.89	1.00
Final Sat.:			180		3473	2734		1670	1554		3331	1583
										~ ~ ~		
Capacity Ana												
Vol/Sat:		0.16	0.16	0.05	0.16		0.78	0.41	0.06	0.21	0.21	0.07
Crit Moves:	****					****	***				****	
Green/Cycle:			0.20		0.20	0.69			0.57		0.14	0.21
Volume/Cap:					0.82	1.58		0.83			1.58	0.32
Delay/Veh:						282.3				322.9		41.2
User DelAdj:					1.00	1.00			1.00			1.00
AdjDel/Veh:						282.3				322.9		41.2
DesignQueue:	13	29	2	6	31	78	107	25	3	3	43	6

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November 2003

Level Of Service Computation Report 2000 HCM Operations (Future Volume Attarnative) 2020 Plus Phase 1 and 2 PM

Intersection #16: Mission/Chestnut [N/S: Chestnut E/w: Mission]



Signat=Protect/Rights =Induce													
Approach:	No	rth Bo	und	Sou	ith Bo	ound	Ea	st Bo	ound	We	est Bo	ound	
Movement:	L .	- T	- R	L ·	- T	- R	L.	- T	- R	L	- T	~ R	
	ļ								·				
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0	
			·						}				
Volume Module													
Base Vol:		426			454		2010	537	69			85	
Growth Adj:		1.24			1.24	1.24		1.24	1.24		1.24	1.24	
Initial Bse:				94	563		2492	666	86	42	704	105	
Added Vol:		13	_	0		70	127	9	0	1	5	0	
Campus Incr:				-	0		107		0	0		0	
Initial Fut:							2726	691	86	43			
User Adj:		1.00			1.00			1.00	1.00		1.00	1.00	
PHF Adj:	1.00	1.00			1.00			1.00	1.00		1.00	1.00	
PHF Volume:			31	94	570	3054	2726	691	86	43	719	105	
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0	
Reduced Vol:										43			
PCE Adj:		1.00			1.00			1.00	1.00		1.00		
MLF Adj:					1.00			1.00	1.00		1.00	1.00	
Final Vol.:	206	541	31	94				691			719	105	
Saturation F.	low Mo	odule	:										
Sat/Lane:			1900		1900	1900			1900		1900		
Adjustment:									0.82		0.93		
Lanes:			0.11						1.00				
Final Sat.:	1769	3322	187	1736	3473	2734	3341	1670	1554	200	3328		
Capacity Ana	lysis	Modu.	le:										
Vol/Sat:		0.16	0.16	0.05	0.16	1.12	0.82	0.41	0.06	0.22	0.22	0.07	
Crit Moves:						****				****			
Green/Cycle:	0.07	0.19	0.19			0.69			0.58		0.13		
Volume/Cap:	1.61	0.84	0.84	0.84	0.88	1.61	1.61	0.82	0.10	1.61	1.61		
Delay/Veh:	363.6	55.5	55.5	95.3	60.5	295.7	306.6	26.2	11.3	336.4	336	41.9	
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00			1.00				
AdjDel/Veh:			55.5	95.3	60.5	295.7	306.6	26.2	11.3	336.4		41.9	
DesignQueue:			2	6	32	79	111	25	2	3	44	6	

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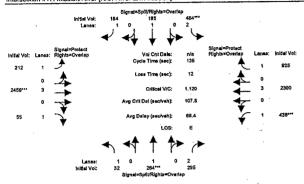
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## Marine Science Cent

## November 2003 Level Of Service Computation Report O HCM Operations (Future Volume Alternation

Intersection #17: Mission/River [N/S: River E/w: Mission]



Approach:	Non	th Bo	und	Sou	th Bo	und	Ea	ıst Bo	und		st Bo	
Movement:	L .	· T	- R	L -	т	- R	L.	T	- R	L -	· T	- R
			1									
Min. Green:	' 0	0	o'	່ 0		0	. 0		. 0	. 0	0	0
			[									
Volume Module	e:											
Base Vol:	26	213	238	374	149	144		1957	. 44		1765	746
Growth Adj:	1.24	1.24	1.24	1.24	1.24	1.24	1.24		1.24	1.24		1.24
Initial Bse:	32	264	295	464	185	179	211	2427	55	438	2189	925
Added Vol:	0	0	0	0	Ó	0	0	0	0	0	.0	0
Campus Incr:	0	0	0	0	0	5	1	32	0	0	111	0
Initial Fut:	32	264	295	464	185	184	212	2459	55	438	2300	925
User 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
PHF Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHP Volume:	32	264	295	464	185	184	212	2459	55	438	2300	925
Reduct Vol:	0	0	0	0	0	0	0	0	. 0	0	0	0
Reduced Vol:	32	264	295	464	185	184	212	2459	55	438	2300	925
PCE Adi:		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adi:		1.00	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00
Final Vol.:			295	464		184	212	2459	55	438	2300	925
							1					
Saturation F				1		,	ı					•
Sat/Lane:		1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:		0.98	0.73		0.98	0.83		0.89	0.83	0.93	0.89	0.83
Lanes:		1.00	2.00		1.00	1.00		3.00	1.00		3.00	1.00
		1862			1862	1583			1583		5083	1583
Final Sat.:												
				1			1			1.1.		,
Capacity Ana			Le:		. 10	0.12	0 12	0.48	0.03	0.25	0.45	0.58
Vol/Sat:	0.02	0.14	0.11	. * * * *	0.10	0.12	0.12	****	0.03	****	0.45	0.50
Crit Moves:							0.11		0.56		0.54	0.66
Green/Cycle:					0.12			1.12	0.06		0.84	0.88
Volume/Cap:			0.30		0.82	0.50						25.4
Delay/Veh:				133.8			140.1			129.0		1.00
User DelAdj:					1.00			1.00	1.00		1.00	25.4
AdjDel/Veh:	46.9			133.8			140.1			129.0		
DesignOueue:	2	16	13	28	11	10	13	105	2	24	79	24

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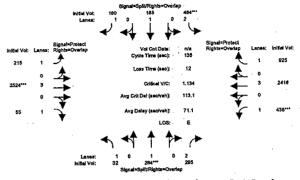
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## Marine science Cent

Level Of Service Computation Report 2000 HCM Operations (Future Volume Atternative) 2020 Plus Phase 1 and 2 AM

Intersection #17: Mission/River [N/S: River E/w: Mission]



Approach:	No	rth. Bo	und	Sou	th Bo	und		st Bo			est Bo	
Movement.	L	- T	- R	L	T	- R			- R		· T	
			[				}		}	1		
Min. Green:	. 0	0	٥.		0,	٥,			٥,	, 0		•
						1	1					
Volume Module				:			170	1957	44	252	1765	746
Base Vol:		213	238	374		144		1.24		1.24		1.24
Growth Adj:		1.24	1.24		1.24	1.24					2189	925
Initial Bse:	32	264	295		185			2427		438	116	0
Added Vol:	0	0	0	.0		6	3.	65 32		0	111	Ô
Campus Incr:	0		0	0	0	5			-	-	2416	925
Initial Fut:	32	264	295		185	190		2524			1.00	1.00
User Adj:		1.00	1.00		1.00	1.00		1.00				1.00
PHF Adj:	1.00	1.00	1.00		1.00	1.00		1.00			1.00	
PHF Volume:	32	264	295	464	185	190		2524			2416	925
Reduct Vol:	0		0	0	0	0		0		•	0	0
Reduced Vol:	32		295	464	185	190		2524			2416	
PCE Adj:	1.00	1.00	1.00		1.00	1.00		1.00			1.00	
MLF Adj:	1.00	1.00	1.00		1.00	1.00		1.00			1.00	1.00
Final Vol.:	32	264	295	464	185	190	215	2524	55		2416	925
	{											
Saturation F	iow M	odule	:									
Sat/Lane:	1900	1900	1900	1900	1900	1900		1900			1900	1900
Adjustment:	0.93	0.98	0.73	0.90	0.98	0.83		0.89			0.89	0.83
Lanes:		1.00	2.00		1.00	1.00		3.00			3.00	
Final Sat :	1769	1862	2786		1862	1583		5083			5083	1583
	1				·,							
Capacity Ana	ivsis	Modu	le:									
Vol/Sat:	0.02	0.14	0.11	0.14	0.10	0.12	0.12				0.48	0.58
Crit Moves:		****		***				***		****		
Green/Cycle:	0.13	0.13	0.34	0.12	0.12	0.23		0.44			0.54	
Volume/Cap:	0.15	1.13	0.31	1.13	0.83	0.52	1.08	1.13			0.88	0.88
Delay/Veh:		152	29.1	139.3	74.4	41.5	138.7	100		134.5		
User DelAdj:				1.00	1,00	1.00	1.00	1.00			1.00	1.00
AdiDel/Veh:	47.1			139.3	74.4	41.5	138.7	100	11.9	134.5	27.3	25.5
DesignOueue:				28		10	13	107	2	24	83	24
pestanduene.												

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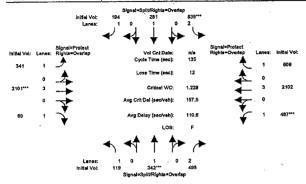
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Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
2020 Baseline PM

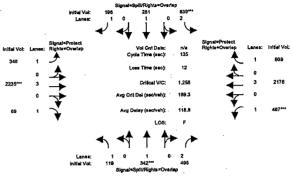
Intersection #17: Mission/River [N/S: River E/w: Mission]



Approach:	No:	rth Bo	ound	Son	ith Bo	ound	E	ast Bo		W	est Bo	
Movement:	L	~ `T	- R		- Т		L,	T	- R	ь	- T	- R
Min. Green:	0		0			0			. 0	. 0		۰,
Volume Modul									. 56	200	1643	491
Base Vol:	96		399	677		154		1611	1.24		1.24	1.24
Growth Adj:		1.24	1.24		1.24	1.24		1.24			2037	609
Initial Bse:		342	495	839	281	191		1998	69	467	2037	009
Added Vol:	0	0	0	0	0	0	0	0	0		-	0
Campus Incr:			0	0	0	3	5	103	0	0	65	609
Initial Fut:			495	B39	281	194		2101	69		2102	
User 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
PHF Volume:	119	342	495	839	281	194		2101	69		2102	609
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	119	342	495	839	281	194		2101	69		2102	609
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00		1.00	1.00
Final Vol.:		342	495	839	281	194		2101	69		2102	609
			·									
Saturation F	low M	odule	:									
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.93	0.98	0.73	0.90	0.98	0.83	0.93	0.89	0.83	0.93	0.89	0.83
Lanes:	1.00	1.00	2.00	2.00	1.00	1.00	1.00	3.00	1.00	1.00	3.00	1.00
Final Sat.:	1769	1862	2786	3432	1862	1583	1769	5083	1583	1769	5083	1583
	1			11								
Capacity Ana	ivsis	Modu	le:	• •								
Vol/Sat:		0.18		0.24	0.15	0.12	0.19	0.41	0.04	0.26	0.41	0.38
Crit Moves:		****		****				****		****		
Green/Cycle:	0.15	0.15	0.36	0.20	0.20	0.37	0.18	0.34	0.49	0.22	0.38	0.58
Volume/Cap:			0.49		0.76	0.33	1.10	1.23	0.09	1.23	1.10	0.67
Delay/Veh:				163.6	54.2	27.1	130.0	148	16.6	171.2	91.0	19.5
User DelAdi:			1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:			29.8	163.6			130.0	148		171.2	91.0	19.5
DesignQueue:			22	46	16	8	20	103	2	26	97	
~ cordudação.	,	20		-20		·			-			

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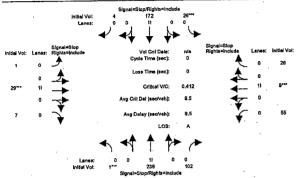
Intersection #17: Mission/River [N/S: River E/w: Mission]



Approach:	No	rth Bo	ound	Sou	th Bo	und	E	ast Bo	und	We	est Bo	und
Movement:	L ·	- T	~ R	L ·	- T		_	- T		~	- Т	- R
		- <b></b>					1.1					
Min. Green:	0		0	. 0	0	۰	. 0	0	0		0	
						·:						
Volume Module									_			
Base Vol:	96	276	399	677	227	154		1611	. 56		1643	491
Growth Adj:		1.24	1.24		1.24			1.24	1.24	1.24		1.24
Initial Bse:	119	342	495	839.		191		1998	69		2037	609
Added Vol:	0	0	0	0	0	4	7	134	0	0	74	0
Campus Incr:	0	0	0	0	0	3	5	103	0	0	65	0
Initial Fut:	119	342	495	839	281	198		2235	69		2176	609
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00
PHF Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	
PHF Volume:	119	342	495	839	281	198	348	2235	69	467	2176	609
Reduct Vol:	0	0	. 0	0	0	0	0	0	0	0	0	0
Reduced Vol:	119	342	495	839	281	198	348	2235	69	467	2176	609
PCE 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
MLF Adi:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.:			495	839	281	198	348	2235	69	467	2176	609
Saturation F				٠.	•							_ `
Sat/Lane:		1900		1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:		0.98		0.90	0.98	0.83	0.93	0.89	0.83	0.93	0.89	0.83
Lanes:		1.00			1.00		1.00	3.00	1.00	1.00	3.00	1.00
Final Sat.:		1862			1862		1769	5083	1583	1769	5083	1583
							1			11		
Capacity Ana				11		,						
Vol/Sat:		0.18		0 24	0.15	0.13	0.20	0.44	0.04	0.26	0.43	0.38
Crit Moves:	0.07	****	0.20	****				****		****		
Green/Cycle:	0 25	0 10	0.36	0 10	0.19	0.37	0.18	0.35	0.50	0.21	0.38	0.58
Volume/Cap:					0.78			1.26	0.09		1.12	0.67
		194		176.4			135.7			183.7		19.3
Delay/Veh: User DelAdj:					1.00	1.00		1.00	1.00		1.00	1.00
				176.4			135.7			183.7		19.3
AdjDel/Veh:			22		. 16	9	20		20.0	26	99	19
DesignQueue:	,	20	24	40	. 10	,	20	100	-	~0		~~

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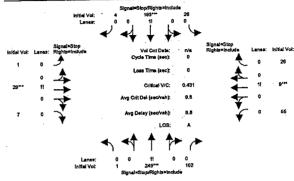
intersection #18: Western/Meder [N/S: Western E/w: Meder]



Approach:	No	th Bo	und	Sou	ith Bo	und	Εē	ıst Bo			st Bo	
Movement:	L.	- т	- R	L.	· T	- R	L.	T	- R	ъ-	T	- R
Min. Green:			o o	. 0		0	0		0	0	0	٥.
Volume Modul				•								
Base Vol:	1	177	82	21	135	3	, 1	23	6	44	7	21
Growth Adj:	1.24	1.24	1.24	1.24	1.24	1.24		1.24		1.24		1.24
Initial Bse:	1	219	102	26	167	4	1	29	. 7	55	. 9	26
Added Vol:	0	0	0	0	0	0	0	0	0	0	.0	0
Campus Incr:	0	17	0	0	5	0	0	. 0	. 0	0	. 0	0
Initial Fut:	1	236	102	26	172	4	1	29	7	55	9	26
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00		1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00
PHF Volume:	1	236	102	26	172	4	1	29	. 7	55	9	26
Reduct Vol:	0	0	0	0	0	0	.0	0	0	0	0	0
Reduced Vol:	1	236	102	26	172	4	1	29	7	55	9	26
PCE Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00
MLF Ad1:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00
Final Vol.:		236	102	25	172	4	1	29	7	55	9	26
	J								}			
Saturation F	low M	odule										
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			1.00
Lanes:		0.69		0.13	0.85	0.02	0.03	0.77	020	0.61		0.29
Final Sat.:	3	575	247	98	649	14	21	492	128	399	63	190
	I		1	1								
Capacity Ana	İvsis	Modu:	le: '									
Vol/Sat:		0.41		0.27	0.27	0.27	0.06	0.06	0.06	0.14		0.14
Crit Moves:	***			****				****			****	
Delay/Veh:	10.1	10.1	10.1	9.2	9.2	9.2	8.3	8.3	8.3	8.8	8.8	8.8
Delay Adi:		1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdiDel/Veh:		10.1		9.2	9.2	9.2	8.3	8.3	8.3	8.8	8.8	8.8
LOS by Move:		В	В	A	A	A	A	A.	A	A	A	A
ApproachDel:		10.1			9.2			8.3			8.8	
Delay Adj:		1.00			1.00	,		1.00			1.00	
ApprAdiDel:		10.1			9.2			8.3			8.8	
LOS by Appr		В			A			A			. А	

Level Of Service Computation Report 2008 HCM 4-Way Stop (Future Volume Atternative) 2020 Plus Phase 1 and 2 AM

Intersection #18: Western/Meder [N/S: Western E/w: Meder]



Approach:			bund				Ea	st Bo	und		st Bo	
Moscomont.	ъ-	- т	- R	. L -	T	- R			- R		т	
Min. Green:			Λ.	^	· n	0	0	. 0	0	0	Ų	U
Min. Green:									1			
Volume Module								23	6	44	7	21
Base Vol:				21	135	3	1	1.24	1.24			1.24
Growth Adj:		1.24				1.24		29	7	55	9	
Initial Bse:			102		167	4	_		0	93	0	
Added Vol:		13	0	0	23	0	0	-	-	0	٥	
Campus Incr:		17		0		0	0	-	0	•	-	
Initial Fut:						4	1					
User Adj:		1.00				1.00		1.00				
PHF Adj:	1.00	1.00			1.00	1.00		1.00		1.00		1.0
PHF Volume:	1	249	102		195	4	1	29	7	55	9	2
Reduct Vol:	0	0		.0	0	0	0	0	0	0	-	- 1
Reduced Vol:	1	249	102			4			7		9	
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00		1.00				
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00		1.00				
Final Vol.:		249		26	195	4	1		7		9	
	1			1				<del>-</del> -				
Saturation F				•	•							
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00				
Lanes:		0.70	0.29	0.11	0.87	0.02	0.03	0.77	0.20	0.61	0.10	
minol Cot .		579	236	88	658	13	21	481	125			18
Final Sac.:	ا ــــــــــــــــــــــــــــــــــــ		1	1			1			1		
Capacity Ana	lia	Modu	] ]	'		'				٠.		
Vol/Sat:		0.43		0.30	0.30	0.30	0.06	0.06	0.06	0.14	0.14	0.1
Crit Moves:	0.43	****		0.50	****			****			***	
	10 4	10.4	10.4	9.4	9.4	9.4	8.4	8.4	8.4	8.9	8.9	8.
Delay/Veh: Delay Adj:					1.00			1.00	1.00	1.00	1.00	1.0
		10.4			9.4	9.4	8.4		B.4		8.9	8.
AdjDel/Veh:				A		A	A				A	A
LOS by Move:				A	9.4			8.4			8.9	
ApproachDel:		10.4						1.00			1.00	
Delay Adj:		1.00			9.4			8.4			8.9	
ApprAdjDel:		10.4			9.4 A			Α.			A	
LOS by Appr:		В			A			^			-	

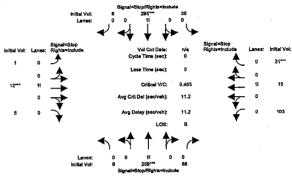
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## N ----- --- --- --- ---

Level Of Service Computation Report 2000 HCM 4-Way Stop (Future Volume Atternetive 2020 Plus Phase 1 and 2 PM

Intersection #18: Western/Meder [N/S: Western E/w: Meder]



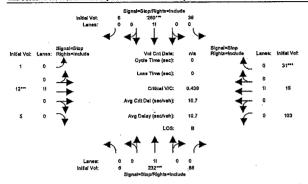
	trace	n vo:	Signal	-Stop/Righ	ta =include							
Approach:	No	rth B	ound	So	uth Bo	ound	Ea	ast Bo	und	We	est Bo	ound
Movement:	L.	- T	- R	L	- T	– R	ь.	- т	- R	L.		- R
Min. Green:					0				0,			۰,
				1		:			1	1		
Volume Module Base Vol:	e: 5	179	71	29	213	5	1	10	4	83	12	25
					1.24			1.24			1.24	1.24
Growth Adj: Initial Bse:				36			1.24				15	31
Added Vol:		27								103		0
Campus Incr:			0				ō			_	-	ŏ
Initial Fut:								12		-	_	
User Adj:					1.00		1.00			1.00		
PHF Ad1:		1.00			1.00			1.00		1.00		1.00
PHF Volume:		259				- 6			5			. 31
Reduct Vol:	-	- 0					ō		ō	. 0	0	0
Reduced Vol:	-		88							103		31
PCE Adi:						1,00				1.00	1.00	1.00
MLF Adj:			1.00		1.00		1.00			1.00		
Final Vol.:		259	88			6				103	15	31
	1			1						1		
Saturation F.				1		. '			,	•		
Adjustment:	1 00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	0.02	0.73	0.25	0.11	0.87	0.02	0.06	0.67	0.27	0.69	0.10	0.21
Final Sat.:	13	557	189	78	642	13	37			417		
	ł			1			1		·			
Capacity Ana				•						•		
Vol/Sat:			0.47	0.46	0.46	0.46	0.03	0.03	0.03	0.25	0.25	
Crit Moves:		***			****			****				****
Delay/Veh:	11.4	11.4	11.4	11.6	11.6	11.6	8.7	8.7	8.7		10.0	
Delay Adj:					1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:				11.6	11.6	11.6	8.7	8.7	8.7	10.0	10.0	
LOS by Move:			В		В.	В	A	A	A	В		В
ApproachDel:		11.4			11.6			8.7	-		10.0	
Delay Adj:		1.00			1.00			1.00			1.00	•
ApprAdjDel:		11.4			11.6			8.7			10.0	
LOS by Appr:		В			В			A			В	
2												

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November 2003

Level Of Service Computation Report 2000 HCM 4-Way Stop (Future Volume Altamative) 2029 Baseline PM

Intersection #18; Western/Meder [N/S: Western E/w: Meder]

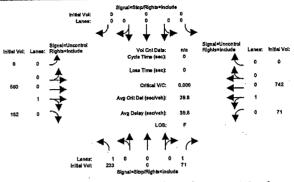


Approach:	North Bo	ound	Sou	ith Bo			ıst Bo		We	st Bo	und
Movement: L	- T	- R	L -	r	- R	ь.	T	- R	L, -	T	- R
		-									
Min. Green:	0 0	, 0	0	. 0	0	0	0	0	0	0	0
		-							~		1
Volume Module:							4				•
Base Vol:	5 179	71	29	213	5	1	10	4	83	12	25
Growth Adj: 1.	24 1.24	1.24 1	24	1.24	1.24	1.24	1.24	1.24	1,24		1.24
Initial Bse:	6 222	8.8	36	264	6	1	12	5	103	15	31
Added Vol:	0 0	0	0	0	0	0	0	. 0	0	0	0
Campus Incr:	0 10	0	0	16	0	0	0	0	0	0	0
Initial Fut:	6 232	88	36	280	6	1	12	. 5	103	15	31
User Adj: 1.	00 1.00	1.00 1	1.00	1.00	1.00	1.00		1.00	1.00		1.00
PHF Adj: 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
PHF Volume:	6 232	B 8	36	280	6	1	. 12	5	103	15	31.
Reduct Vol:	0 0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	6 232	88	36	280	6	1	12	5	103	15	31
PCE 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
MLF 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
Final Vol.:	6 232	88	36	280	6	1	12	5	103	15	31
		-									
Saturation Flow	Module	:									
Adjustment: 1.	00 1.00	1.00 1	L.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00
Lanes: 0.	02 0.71	0.27	11.	0.87	0.02	0.06	0.67	0.27	0.69		0.21
Final Sat .:	15 544	206	82	642	14	39	385	154	426	62	128
		-				1					1
Capacity Analys	is Modu	le:									
Vol/Sat: 0.	43 0.43	0.43	.44	0.44	0.44	0.03	0.03	0.03	0.24	0.24	0.24
Crit Moves:	****			****	•		****				****
Delay/Veh: 10	.8 10.8	10.8 1	11.2	11.2	11.2	8.6	8.6	8.6	9.9	9.9	9,9
Delay Adj: 1.	00 1.00	1.00 1	L.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh: 10	.8 10.8	10.8 1	11.2	11.2	11.2	8.6	8.6	8.6	9.9	9.9	9.9
LOS by Move:	в в	В	В	B	В	A	A	A	A	A	A
ApproachDel:	10.8			11.2			8.6			9.9	
Delay Adj:	1.00			1.00			1.00			1.00	
ApprAdjDel:	10.8			11.2			8.6			9.9	
LOS by Appr:	В			В			A			A	
								•			

Merine Science C

Level Df Service Computation Report 2000 HCM Unsignatized (Future Volume Alternative) 2020 Pites Phase 1 and 2 AM

Intersection #19: High/Western [N/S: Western E/w: High]

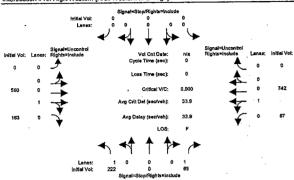


			Signal	=Stop/Righ	a≍include							
Approach:	No	rth Bo	und	Sou	ith Bo	nnd	Ea	st Bo	und	We	st Bo	und
Movement:		т		L .	т	- R	L.	т	- R	L.	т	- R
		<b></b>										
Volume Module	·											
Base Vol:	169	0			. 0		0	432	128	53	546	
Growth Adj:	1.24	1.24	1.24		1.24				1.24		1.24	1.24
Initial Bse:	210	0	64	0	. 0	0	0		159	66	677	0
Added Vol:		0	2	0	0	0	0	-	19	4	0	-
Campus Incr:	12	. 0	5	0	0	_	0	24	4	1	65	0
Initial Fut:	233	0	71	0	0	0	0			71		0
User Adj:	1.00	1.00	1.00			1.00		1.00			1.00	
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00		1.00	
PHF Volume:	233	0	71	0	. 0	0	0		182	71	742	0
Reduct Vol:	0	0	0	0	Ó	0	0		0	0	0	0
Final Vol.:	233	. 0	71	0	· o	0	0	560	182	71	742	0
Critical Gap	Modu.	le:										
Critical Gp:	6.4	XXXX	6.2	XXXXX	XXXX	XXXXXX	XXXXX	XXXXX	30000K			300000
FollowUpTim:	3.5	XXXX	3.3	XXXXX	XXXX	XXXXX	XXXXXX	XXXX	XXXXXX	2.2		XXXXX
										.		
Capacity Mod	ile:											
Cnflict Vol:	1534	XXXX	651	XXXXX	XXXX	XXXXXX			XXXXX			XXXXX
Potent Cap.:	129	20000	472			XXXXX			XXXXX			XXXXXX
Move Cap.:	121	XXXXX	472						XXXXX			XXXXXX
												}
Level Of Ser	vice )	Module	B:									
Stopped Del:				XXXXXX				XXXX	XXXXX		XXXX	XXXXX
LOS by Move:	F	*	В	*	*	*	*	*	*	A	*	*
Movement:			- RT						- RT		- LTR	
Shared Cap .:	XXXXX	XXXX	XXXXXX	XXXX	XXXX	XXXXX	XXXXX	XXXX	X0000X			XXXXXX
Shrd StpDel:	XXXXXX	XXXX	200000	XXXXX	XXXX	XXXXX	XXXXXX	XXXXX	XXXXX			XXXXX
Shared LOS:	*	*	*	*	*	*	*	*	*	A		*
ApproachDel:		388.4		×	XXXXXX		×	XDCXC)CX		ж.	KOCKOCK	
ApproachLOS:		F			*			*			*	

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Level Of Service Computation Report 000 HCM Unsignalized (Future Volume Alternativ

Intersection #19: High/Western [N/S: Western E/w: High]

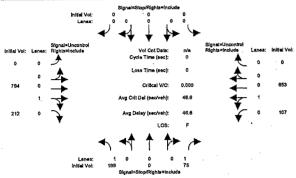


Approach:	No	rth Bo	und	Sou	th Bo	ound	Ea	st Bo	und	We	st Bo	und
Movement:	ь	- т	- R	L -	T	- R	L ·	- Т	- R	L -	T	~ R
						·						
Volume Module	e:											
Base Vol:	169	0	52	0	0	0	0	432	128	53	546	0
Growth Adj:	1.24	1.24	1.24	1.24	1.24	1,24	1.24	1.24	1.24	1.24		1.24
Initial Bse:	210	0	64	0	0	0	0	536	159	66	677	0
Added Vol: '	0	0	0	0	0	0	0	0	0	0	0	0
Campus Incr:	12	0	5	0	. 0	0	0	24	4	1	65	0
Initial Fut:	222	0	69	0	0	0	0	560	163	67	742	0
User Adj:	1.00	1.00	1.00	1.00		1.00		1.00	1.00	1.00		1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00
PHF Volume:	222	0	69	0	0	0	0	560	163	67	742	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	.0	0
Final Vol.:	222	0	69	0	0	0	0	, 560	- 163	67	742	0
Critical Gap	Modu	le:										
Critical Gp:	6.4	XXXX	6.2	XXXXX	XXXXX	XXXXX	XXXXX	XXXX	XXXXX			)CCCCCC
FollowUpTim:	3.5	XXXX	3.3	XXXXX	XXXX	XXXXX	XXXXX	XXXX	XXXXXX	2.2	XXXX	XXXXXX
										1		
Capacity Mod	ule:											
Cnflict Vol:	1517	XXXX	641			XXXXX			XXXXX			200000
Potent Cap.:	133	XXXX	478			XXXXX			XXOOCX			XXXXX
Move Cap.:	125	XXXX	478		XXXX	XXXXXX	XXXX	XXXX	xxxxx	. 889	XXXX	xxxxx
							1 }					
Level Of Ser												
Stopped Del:											XXXX	XXXXXX
LOS by Move:			В	*	*	*	*	*	. *	A		
		- LTR		LT ·				- LTR			LTR	
Shared Cap.:									XXXXXX			XXXXXX
Shrd StpDel:	XXXXX	XXXX		XXXXX	XXXX			XXXX	XXXXX			XXXXXX
Shared LOS:	*	*	*	*	*	. *	*	*	*	A	*	. *
ApproachDel:		338.0		×	KXXXX		×	XXXXX		30	OCXXX	
ApproachLOS:		F			*			*			*	

## Marine Science Center

Level Of Service Computation Report
2000 HCM Unsignation (Future Volume Alternative)
2020 Baseline PM

Intersection #19: High/Western [N/S: Western E/w: High]

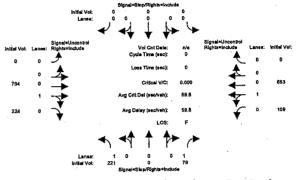


		•				
Approach: No	rth Bound	South	Bound	East B		West Bound
Movement: L						L - T - R
					-	
Volume Module:						
Base Vol: . 155	0 :	8 0	0 0			82 492 0
Growth Adj: 1.24	1.24 1.3	4 1.24 1.	24 1.24			.24 1.24 1.24
Initial Bse: 192	0 '	2 0	0 0	0 732		102 610 0
Added Vol: 0	0	0 0	0 0	0 0	0	0 0 0
Campus Incr: 7	0	3 0	0 0	0 62	11	5 43 0
Initial Fut: 199	0 '	75 0	0 0	0 794		107 653 0
User Adj: 1.00	1.00 1.	0 1.00 1.	00 1.00	1.00 1.00		.00 1.00 1.00
PHF Adj: 1.00	1.00 1.	0 1.00 1.	00 1.00	1.00 1.00	1.00 1	.00 1.00 1.00
PHF Volume: 199	٥. '	75 0	0 0	0 794	212	107 653 0
Reduct Vol: 0	0	0 0	0 0	0 0	0	0 0 0
Final Vol.: 199	0	75 0	0 0	0 794	212	107 653 0
Critical Gap Modu	le:					
Critical Gp: 6.4	xxxx 6	2 200000 200	XX XXXXX	XXXXX XXXXX	XXXXXX ·	4.1 жжж жжж
FollowUpTim: 3.5	xxxx 3	3 ххххх хх	XX XXXX	XXXXX XXXX	XXXXX	2.2 XXXX XXXXX
					-	
Capacity Module:		• •				
Cnflict Vol: 1766	ххих 9	00 xxxx xx	XXXXX XX	XXXX XXXX	XXXXXX 1	005 xxxx xxxxx
Potent Cap.: 93	xxxx 3	10 xxxx xx	XXXXX XX	XXXX XXXX	XXXXX	697 XXXX XXXXX
Move Cap.: 82	xxxxx 3	xx xxxx 01	XX XXXX	XXXX XXXX	XXXXX	697 XXXXX XXXXXX
		11			-	
Level Of Service	Module:					
Stopped Del:765.8	xxxx 18	5 XXXXXX XX	XXXXX XX	XXXXX XXXXX	xxxxx 1	1.1 xxxx xxxxx
LOS by Move: F	*	*	* *	* *	*	B * *
	- LTR - R	r LT - L	TR - RT	LT - LTR	- RT	LT - LTR - RT
Shared Cap.: xxxx	2000 2000	ex xxxx xx	XXXXX XX	XXXX XXXX	XXXXXX X	XXX XXXX XXXXX
Shrd StpDel:xxxxx	XXXX XXX	OK XXXXXX XX	XX XXXX	XXXXX, XXXXX	xxxxxx 1	1.1 xxxx xxxx
Shared LOS: *	. *	* *	* *	* *	*	в * *
ApproachDel:	561.5	xxxx	xx	XXXXXX		2000000
ApproachLOS:	F	1	*	*		*

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Level Of Service Computation Report
2000 HCM Unsignatized (Future Volume Allemative)
2020 Plus Phase 1 and 2 PM

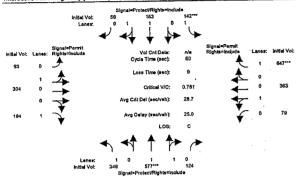
Intersection #19: High/Western [N/S: Western E/w: High]



Approach:	No	rth Bo	und	Sou	th Bo	ound	E	ast Bo	ound	We	est Bo	ound
Movement:	L ·	- т	- R	Ŀ.	т	- R	L.	- т	- R	L ·	- т	- R
								<del>-</del>				·
Volume Module												
Base Vol:	155	0	58					590			492	
Growth Adj:	1.24	1.24			1.24		1.24		1.24		1.24	
Initial Bse:	192	0	72	0	0	0	0		201		610	
Added Vol:	22	0	4		0	0		0	12	2		0
Campus Incr:	7	. 0		0		0			11	5		0
Initial Fut:	221	0	79	0		_		794			653	
User Adj:	1.00	1.00	1.00			1.00					1.00	
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00		1.00	
PHF Volume:	221	0	79	0	0	0	0	794		109		0
Reduct Vol:	0	0	0	0	0	. 0	0	D	0		0	0
Final Vol.:	221	0	79	0	0	0	0	794	224	109	653	0
Critical Gap												
Critical Gp:	6.4	XXXX	6.2	XXXXX	XXXX	XXXXXX	XXXXX	XXXX	XXXXX	4.1	XXXX	XXXXXX
FollowUpTim:	3.5	XXXX	3.3	3000000	XXXX	XXXXX	XXXXX	XXXX	XXXXX			XXXXXX
	]											
Capacity Mod												
Cnflict Vol:	1776	XXXX	906	XXXX	XXXX	XXXXXX	XXXXX	XXXX	XXXXX	1017	XXXX	XXXXX
Potent Cap.:	92	XXXX	338	XXXXX	XXXX	XXXXX	XXXX	XXXX	XXXXX	690	XXXX	XXXXX
Move Cap.:	80	XXXXX	338	XXXXX	XXXXX	XXXXXX	XXXX	жж	XXXXXX	690	XXXX	XXXXXX
Level Of Ser	vice :	Module	2:									
Stopped Del:	908.4	XXXX	18.9	XXXXXX	XXXX	XXXXX	XXXXX	XXXX	XXXXX	11.2		XXXXX
LOS by Move:	ľ	*	С	*	* .	. *	*	*	*	В		*
Movement:	LT	- LTR	- RT	LT ·	- LTR	- RT	LT	- LTR	- RT	LT	- LTR	- RT
Shared Cap.:	XXXX	xxx	XXXXXX	XXXX	XXXX	XXXXX	XXXX	XXXXX	XXXXX	XXXX	XXXXX	XXXXX
Shrd StpDel:	XXXXX	XXXX	XXXXXX	XXXXX	30000	XXXXXX	XXXXXX	XXXX	XXXXX	11.2	XXXX	XXXXX
Shared LOS:	*	*		*	*	*	*	*	*	В	*	
ApproachDel:		674.5		ж	OCOCK		×	XXXXX		. x	XXXXX	
ApproachLOS:		F			*			*				

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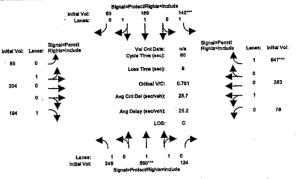
intersection #20: High/Bay [N/S: Bay E/w: High]



Approach:	Nor	th Bo	und	Sou	ith Bo	ound	Ea	st Bo	und	We	st Bo	und
Movement:		т		ъ -	· T	- R		T		L -		
MOVEMENT.				1		1						
Win Cross.	٠ ،	n	n n	. 0	0	0	0	0	0	0	0	0
MIN. Green:	l			l		1						
Volume Modul			'	1		'				•		
Base Vol:	241	405	100	97	131	43	66	241	146	64	279	458
Growth Adj:	1.24		1.24	1.24		1,24	1.24	1.24	1.24	1.24	1.24	1.24
Initial Bse:	299	502	124	120	162	53	82	299	181	79	346	568
Added Vol:	2.0	0	0	0	0	0	0	0	0	0	0	0
Campus Incr:	-	75	ō	22	21	3	11	5	13	0	17	79
Initial Fut:	346	577	124	142	183	56	93	304	194	79	363	647
User Adj:	1.00		1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	346	577	124	142	183	56	93	304	194	79	363	647
Reduct Vol:	0	0			0	0	0	0	0	0	0	0
Reduced Vol:		577	124	142	183	- 56	93	304	194	79	363	647
PCE Adj:	1.00		1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:		1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.:	346	577	124	142	183	56	93	304	194	79	363	647
Final Vol.:	1			1								
Saturation F				•		'	'		,	•		
		1900	1900	1000	1900	1900	1900	1900	1900	1900	1900	1900
Sat/Lane:		0.91	0.91		0.90	0.90			0.83	0.85	0.85	0.83
Adjustment:		1.65	0.35		1.53	0.47		0.77	1.00		0.82	1.00
Lanes:			609		2612			1082	1583		1323	1583
Final Sat.:	1769	2834										
				1			1		,			,
Capacity Ana					0.07	0.07	^ 20	0.00	0.12	0 27	0:27	0.41
Vol/Sat:	0.20	0.20	0.20	****	0.07	0.07	0.20	0.20	0.12	0.27		****
Crit Moves:		****			0.10	0.10	A E2	0.52	0.52	0.52	0.52	0.52
Green/Cycle:								0.54	0.23		0.52	0.78
Volume/Cap:			0.78		0.73			13.4	10.5		13.1	
Delay/Veh:		31.9	31.9		43:2			1.00			1.00	1.00
User DelAdj:			1.00		1.00			13.4	10.5		13.1	20.2
AdjDel/Veh:		31.9	31.9		43.2					23.1		15
DesignQueue:	12	20	4	6	7	2	2	7	4	2		13

Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) 2020 Plus Phase 1 and 2 AM

Intersection #20: High/Bay [N/S: Bay E/w: High]

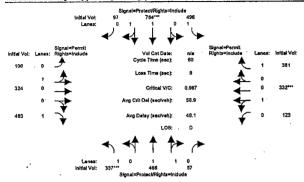


Approach:	North Bound				th Bo	und	Ea	st Bo	ound	We	st Bo	und
Movement:							1					
	•					a	O.	U	U	U	U	U
Min. Green:					+		۱					
Volume Module	ė:											
Base Vol:	241	405	100	97		43	66					458
Growth Adj:	1.24	1.24			1.24	1.24		1.24			1.24	1.24 568
Initial Bse:	299	502	124	120		53	82	299	181	79	346	
Added Vol:	0	3	0		6		2		0	0	0	0
Campus Incr:	47	75	0			3		-	13	-	17	79 647
Initial Fut:			124				95			79		
User Adi:	1.00	1.00	1.00		1.00			1.00			1.00	
PHF Adj:	1.00	1.00	1.00		1.00			1.00			1.00	1.00
PHF Volume:		580	124	142		60	95	304	194	79	363	647
Reduct Vol:	0	0	0	0	. •	-	٥.			0	-	0
Reduced Vol:			124				95		194			
PCE Adi:	1.00	1.00	1.00			1.00		1.00			1.00	
MLF Adj:						1.00		1.00			1.00	
			124	142	189	60	95	304	194	. 79		
Final Vol.:	1											
Saturation F	iow M	odule	:									
Sat/Lane:		1900	1900			1900					1900	
Adjustment:	0.93	0.91	0.91				0.73				0.85	
Lanes:	1.00	1.65	0.35	1.00	1.52		0.24				0.82	
	1769	2839	607	1769	2587	824	331	1061	1583	289	1323	1583
Final Sat.:	1		1	1								
Conseins Ann	12010	Modu	16.									
vol/Sat:	0.20	0.20	0.20	0.08	0.07	0.07	0.29	0.29	0.12	0.27	0.27	
Crit Moves:	•	****		****								****
Green/Cycle:	0.27	0.26	0.26	0.10	0.10		0.52				0.52	
Volume/Cap:	0.74	0.78	0.78	0.78	0.74		0.55				0.52	
Delay/Veh:	32.9	31.9			43.3		13.6				13.1	
User DelAdj:	1.00	1.00	1.00	1.00	1.00		1.00				1.00	
AdjDel/Veh:	32.9	31.9	31.9	54.3	43.3	43.3	13.6					. 20.2
DesignQueue:	12	20			8		2	7	4	2	8	15
perignouene.	~~											

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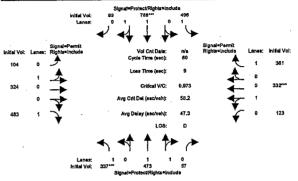
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Intersection #20: High/Bay [N/S: Bay E/w: High]



Approach:	No	rth Bo	und	Sot	ith Bo	ound	E	ast Bo	und	We	est Bo	und
Movement:			- R			- R			- R		- Т	
Min. Green:	0		0	0		0			. 0		0	
			·									
Volume Module	2:											
Base Vol:	249	340	46	341	577	70	75	249	355	99		254
Growth Adj:	1.24	1.24	1.24		1.24	1.24		1.24	1.24		1.24	
Initial Bse:	309	422	57	423	715	87	93	309	440	123	322	315
Added Vol:	0	-0	0	0	. 0	0	0	0	0	0	0	0
Campus Incr:	28	44	0	73	69	10	7		43	0	10	46
Initial Fut:	337	466	57	496	784	97	100	324	483	123	332	361
User 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
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00
PHF Volume:	337	466	57	496	784	97	100	324	483	123	332	361
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	337	466	57	496	784	97	100	324	483	123	332	361
PCE Ad1:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF 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
Final Vol.:	337	466	57	496	784	97	100	324	483	123	332	361
							i		i	}		
Saturation F	low Mo	dule:										
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.93	0.92	0.92	0.93	0.92	0.92	0.60	0.60	0.83	0.58	0.58	0.83
Lanes:	1.00	1.78	0.22	1.00	1.78	0.22	0.24	0.76	1.00	0.27	0.73	1.00
Final Sat :	1769	3101	380	1769	3099	382	268	868	1583	296	801	1583
	1											
Capacity Ana						•	•		. '	•		
Vol/Sat:	0.19	0.15	0.15	0.28	0.25	0.25	0.37	0.37	0.31	0.42	0.42	0.23
Crit Moves:	****				***						****	
Green/Cycle:	0.20	0.16	0.16	0.30	0.26	0.26	0.43	0.43	0.43	0.43	0.43	0.43
Volume/Cap:	0.97	0.94	0.94	0.94	0.97	0.97	0.87	0.87	0.71	0.97	0.97	0.53
Delay/Veh.	71.3	57.2	57.2	52.2	\$1.3	51.3	36.2	36.2	22.3	55.4	55.4	17.7
User DelAdj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	71.3	57.2	57.2	52.2	51.3	51.3	36.2	36.2	22.3		55.4	17.7
DesignQueue:	13	18	2	17	27	3	3	9	13	3	9	10

Intersection #20: High/Bay [N/S: Bay E/w: High]



Approach:	No	rth Bo	ound	Sou	ith Bo	band	Ea	sst Bo	und	We	est Bo	und
Movement:	L.	- T	- R	L.	- т	- R	ъ	- Т	- R	L.	· T	- R
							1			1		
Min. Green:	٠ ،		oʻ	. 0	0	0	. 0	0	0	0	0	0
	l						1					
Volume Module				•								
Base Vol:	249	340	46	341	577	70	75	249	355	99	260	254
Growth Adj:	1.24	1.24	1.24		1.24	1.24		1.24	1.24	1.24		1.24
Initial Bse:	309	422	57	423	715	87	93	309	440	123	322	315
Added Vol:	0	. 7	٥	0	4	2	4	0	0	0	0	0
Campus Incr:	28	44	0	73	69	10	7	15	43	0	10	46
Initial Fut:	337	473	57	496	788	99	104	324	483	123	332	361
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00		1.00	1.00
PHF Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	337	473	57	496	788	99	104	324	483	123	332	361
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	337	473	57	496	788	99	104	324	483	123	332	361
PCE Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.:			57	496	788	99	104	324	483	123	332	361
			1				1					
Saturation F				•			•		•	•		
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adiustment:	0.93	0.92	0.92	0.93	0.92	0.92	0.59	0.59	0.83	0.57	0.57	0.83
		1.78		1.00	1.78	0.22	0.24	0.76	1.00	0.27	0.73	1.00
Final Sat.:	1769	3106	375	1769	3090	387	273	848	1583	294	795	1583
				1						}		
Capacity Ana	İvsis	Modu	le: '	•			•		•	•		
Vol/Sat:			0.15	0.28	0.26	0.26	0.38	0.38	0.31	0.42	0.42	0.23
Crit Moves:	****				****						****	
Green/Cycle:	0.20	0.16	0.16	0.30	0.26	0.26	0.43	0.43	0.43	0.43	0.43	0.43
Volume/Cap:		0.94		0.94	0.97	0.97	0.89	0.89	0.71	0.97	0.97	0.53
Delay/Veh:		58.1			52.5	52.5	39.1	39.1	22.3	56.B	56.8	17.7
User DelAdi:				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdiDel/Veh:		58.1			52.5	52.5		39.1	22.3	56.8	56.8	17.7
DesignOueue:	13	18	2	17	28	3	3	9	13	3	9	10
regrandagae:		-0				-		•		_	-	

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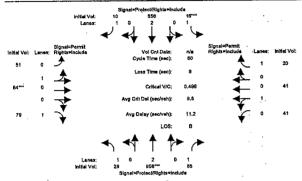
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## Marine Science Cent

# November 2003 Level Of Service Computation Report 2000 HCM Operations (Future Volume Altamative) 2020 Baseline AM

Intersection #21: Bay/lowa [N/S: Bay E/w: lowa]



	North Bound South Bound East Bound											
Approach:								ıst. Bo			st Bo	
Movement:	ъ	- T	- R			- R		T			T	
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
									[			
Volume Modul												
Base Vol:	21	674	44	13	421	8	41	68	64	33	33	16
Growth Adj:	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24		1.24
Initial Bse:	26	836	55	16	522	10	51	84	79	41	41	20
Added Vol:	0	0	0	0	0	0	0	0	٥	0	0	0
Campus Incr:	. 0	122	0	0	34	0	0	0	0	0	0	0
Initial Fut:			55	16	556	10	51	B4	79		41	20
User 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
PHF Adi:	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
PHF Volume:	31	1154	66	19	670	12	61	102	96	49	49	24
Reduct Vol:	0	0	0	0	0	0	0	0	. 0	0	0	0
Reduced Vol:	31	1154	66	19	670	12	61	102	96	49	49	24
PCE Adj:		1.00	1.00	1.00	1.00	1.00			1.00	1.00	1.00	1.00
MLF Adj:			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.:		1154	66	19	670	12	61	102	96	49	49	24
	1			1			l			1		
Saturation F				'				100		•		
Sat/Lane:		1900		1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:			0.83		0.93	0.83		0.83			0.78	0.83
Lanes:			1.00		2.00	1.00		0.62		0.50	0.50	1.00
Final Sat.:					3538	1583		987			736	1583
	1		1									
Capacity Ana				1		,	•		'	•		•
Vol/Sat:			0.04	0 01	0 19	0.01	0.10	0.10	0.06	0.07	0.07	0.02
Crit Moves:	0.02	****	0.01	****	0.25			****				
Green/Cycle:	0.06	0 66	0 66	0.02	0.62	0.62	0.21	0.21	0.21	0.21	0.21	0.21
Volume/Cap:			0.06		0.30	0.01			0.29		0.32	0.07
Delay/Veh:			4.9		7.1	5.8		29.2			27.5	
User DelAdi:			1.00		1.00	1.00			1.00		1.00	
AdjDel/Veh:			4.9		7.1	5.8		29.2	27.2		27.5	25.6
DesignOueue:			1.5	10.2		0.0	2		3	2	2	1

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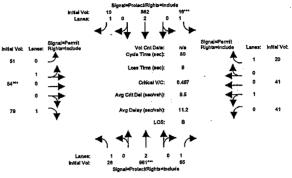
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## Marine Science Ceni

## November 2003

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
2020 Plus Phase 1 and 2 AM

Intersection #21: Bay/lowa [N/S: Bay E/w: lowa]



			g., ,			-						
Approach:		rth Bo		Son	th Bo	nund		st Bo			est Bo	
Movement:		т -				- R		-		_	т .	- R
Min. Green:	0	0		.0	; 0	o'	. 0		oʻ	· 0	0	0
									}			
Volume Module	:											
Base Vol:	21	674	44	13	421	8	41	68	64	33	33	16
Growth Adj:	1.24	1.24	1.24		1.24	1.24	1.24	1.24	1.24		1.24	1.24
Initial Bse:	26	836	55	16	522	10	51	84	79	41	41	20
Added Vol:	0	3	0	0	6	0	0	0	0	0	0	
Campus Incr:	0	122	0	0	34	0	0	0	0	0	0	
Initial Fut:	26	961	55		562	10	51	84	79	41	41	21
User Adj:	1.00	1.00	1.00		1.00	1.00	1.00		1.00		1.00	1.0
PHF Adj:	0.83	0.83	Q.83	0.83	0.83	0.83	0.83	0.83	0.83		0.83	0.8
PHF Volume:	31	1158	66	19	677	12	61	102	96	49		2
Reduct Vol:	0	0	0	0	. 0	0	0	0	0	0	0	
Reduced Vol:	31	1158	66	19	677	12	61	102	96	49	49	2
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.0
MLF Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.0
Final Vol.:	31	1158	66	19	677	12	61	102	96	49	49	2
				[					· [	·		
Saturation F	low M	ođule		•		•						
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	190
Adjustment:	0.93	0.93	0.83	0.93	0.93	0.83	0.83	0.83	0.83	0.77	0.77	0.8
Lanes:		2.00		1.00	2.00	1.00	0.38	0.62	1.00	0.50	0.50	1.0
Final Sat.:	1769	3538	1583	1769	3538	1583	595	987	1583	735	735	158
							1					
Capacity Ana	İvsis	Modu:	le: '	٠.								
Vol/Sat:	0.02	0.33	0.04	0.01	0.19	0.01	0.10	0.10	0.06	0.07	0.07	0.0
Crit Moves:		****		****				****				
Green/Cycle:	0.06	0.66	0.66	0.02	0.62	0.62	0.21	0.21	0.21		0.21	0.2
Volume/Cap:		0.50		0.50	0.31	0.01	0.50	0.50	0.29		0.32	0.0
Delay/Veh:	37.9			48.3	7.1	5.7	29.2	29.2	27.3		27.6	25.
					1.00	1.00	1 00	1.00	1.00	1.00	1.00	1.0
	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2,00			
User DelAdj: AdiDel/Veh:	1.00		1.00	48.3	7.1			29.2	27.3		27.6	25.

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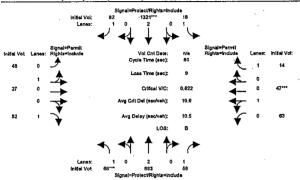
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## November 2003

Level Of Service Computation Report
2000 HCM Operations (Future Volume Alternative)
2020 Baseline PM

Intersection #21; Bay/iowa [N/S: Bay E/w: Iowa]



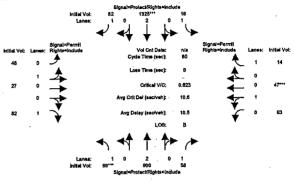
Approach:	No:	rth Bo	ound	Sou	ith Bo	ound	Ea	ast Bo	ound	We	est Bo	ound
Movement:			- R	Ŀ.	- т	- R	ъ -	- T	- R	Ŀ.	- Т	- R
Min. Green:	. 0	0	0	0	0	0	. 0	0.	0	0	0	0
Volume Module	ė:			. ,						-		
Base Vol:	55	663	47	13	975	66	39	22	66	51	38	11
Growth Adj:	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24
Initial Bse:	68	822	58	16	1209	82	48	27	82	63	47	14
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Campus Incr:	0	71	0	0	112	0	0	0	0	0	0	0
Initial Fut:		893	58		1321	82	48	27	. 82	63	47	14
User Adj:		1.00	1.00		1.00	1.00		1.00	1.00		1.00	1.00
PHF Adj:		0.89	0.89	0.89		0.89		0.89	0.89		0.89	0.89
PHF Volume:		1004	65	18	1484	92	54	31	92	71	53	15
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:		1004	65		1484	92	54	31	92	71	53	15
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00		1.00	1.00
MLF Adj:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00
Final Vol.:		1004			1484	92	54	31	92	71	53	15
Saturation F	low Mo	odule:	:									
Sat/Lane:	1900	1900	1900		1900	1900		1900	1900		1900	1900
Adjustment:		0.93	0.83	0.93	0.93	0.83		0.65	0.83		0.73	0.83
Lanes:		2.00	1.00		2.00	1.00		0.36	1.00		0.43	1.00
Final Sat.:			1583		3538	1583		448		798	595	1583
Capacity Ana												
Vol/Sat:		0.28	0.04	0.01	0.42	0.06	0.07	0.07	0.06	0.09	0.09	0.01
Crit Moves:	***				****						****	
Green/Cycle:			0.72		0.67	0.67		0.14	0.14		0.14	0.14
Volume/Cap:			0.06	0.39		0.09		0.48	0.41		0.62	0.07
Delay/Veh:			3.3		7.8	4.5		33.5	32.4		38.2	29.8
User DelAdj:			1.00	1.00		1.00		1.00	1.00		1.00	1.00
AdjDel/Veh:		4.5	3.3	43.9	7.8	4.5		33.5	32.4		38.2	29.8
DesignQueue:	3	14	1	1	24	1	2	1	4	3	2	1

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Lavel Of Service Computation Report
2000 HCM Operations (Future Volume Attenuative)
2020 Plus Phase 1 and 2 PM

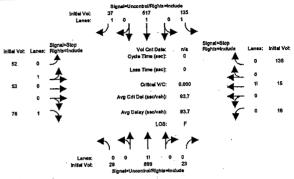
Intersection #21: Bay/lowa [N/S: Bay E/w: Iowa]



	,		Signal*	Protect/Rights=Indud	ie e						
Approach:	No	rth Bo	ound	South B	ound	Ea	st Bo	und .	We	st Bo	
Movement:	ь	- T	- R	L - T	- R	Ľ.	• Т	- R	L -	T	- R
				1							
Min Green.	O	0	0	0 0	0	0	0	0	0	0	0
Volume Module											
Base Vol:			47	13 975		39	22	- 66	51	38	11
Growth Adj:							1.24	1.24	1.24		1.24
Initial Bse:		822		16 1209		48	27	82	63		14
Added Vol:	0	7	0	0 . 4	0	0	0	0	0		. 0
Campus Incr:				0 112						-	-
Initial Fut:											
User Adj:										1.00	
PHF Adj:	0.89	0.89				0.89				0.89	
PHF Volume:		1011		18 1489		54	31	92	71		15
Reduct Vol:		0		0 0	0		0	0		0	
Reduced Vol:	77	1011	65	18 1489	92	54					
PCE Adi:	1.00	1.00	1.00	1.00 1.00	1.00	1.00	1.00	1.00	1.00	1.00	
MLF Adj:	1.00	1.00	1.00	1.00 1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Final Vol.:	77	1011	65	18 1489	92	54	31	92	71		15
					]						
Saturation F											
Sat/Lane:	1900	1900	1900	1900 1900	1900	1900	1900	1900		1900	1900
Adjustment:	0.93	0.93	0.83	0.93 0.93	0.83	0.65	0.65	0.83	0.73	0.73	0.83
Lanes:	1.00	2.00	1.00	1.00 2.00	1.00	0.64	0.36	1.00	0.57	0.43	
Final Sat.:	1769	3538	1583	1769 3538							
						1					
Capacity Ana	lysis	Modu.	le:								
Vol/Sat:	0.04	0.29	0.04	0.01 0.42	0.06	0.07	0.07	0.06	0.09	0.09	0.01
Crit Moves:	****			***						***	
Green/Cycle:	0.07	0.72	0.72	0.03 0.68				0.14		0.14	
Volume/Cap:	0.62	0.40	0.06					0.41		0.62	
Delay/Veh:								32.4		38.3	
User DelAdj:								1.00		1.00	
AdjDel/Veh:	45.8	4.5	3.3			33.6		32.4		38.3	
DesignQueue:				1 24	. 1	2	1	4	3	2	1

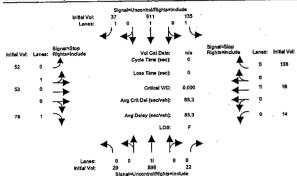
Level Of Service Computation Report 2000 HCM Unaignatized (Future Volume Alternative) 2020 Plus Phase 1 and 2 AM

Intersection #22: Bay/Escalona [N/S: Bay E/w: Escalana]



			\$Ignal=U	ucouratvat.	lum muane	<b></b>						
Approach:	Not	rth Ro	und	Sou	th Bo	und	Ba	st Bo	und			
M	7	. 17	_ P	т	. т	- R	L -	- т	- R		T	
movement:	l			1	<del>-</del>		1					
Volume Module				•								
Base Vol:		640	. 18	108	389	27	30	43	63	11	13	107
Growth Adj:	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24		1.24
Initial Bse:				134	482	33	37	53	78	14	16	133
Added Vol:		3	1	0	. 6	0	0	0	0	2	0	0
Campus Incr:			Ō	1	29	4	15	0	0	0	0	5
Initial Put:			23	135	517	37	52	53	78	16	16	138
User Adi:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:		1.00		1.00	1.00	1.00	1.00	1,00	1.00	1.00	1.00	1.00
PHF Volume:		899		135	517	37	52	53	78	16	16	138
	.,			0	0	0	0	0	0	0	0	0
Final Vol.:	-	899	-	135	517	37	52	53	78	16	16	138
Critical Gap												
Critical Gp:	4 1	XXXX	xxxxx	4.3	XXXX	жжж	7.1	6.5	6.2	7.1	6.5	6.2
FollowUpTim:	2 2	XXXX	XXXXX	2.2	XXXX	xxxxx	3.5	4.0	3.3	3.5	4.0	3.3
							11					
Capacity Mod							. ,					
Cuflict Vol:	555	xxxx	XXXXXX	922	XXXX	XXXXXX	1831	1766	517	1839	1792	
Potent Cap.:	1026	xxxx	200000	749	20000	XXXXXX	59	85	562	59		335
Move Cap.:		30000	XXXXX	749	200000	XXXXXX	24					
Level Of Ser	vice !	Modul	e:									
Stopped Del:	8.6	XXXX	XXXXXX	10.9	XXXX	XXXXXX	XXXXX	XXXX	12.4	XXXXX	XXXX	XXXXX
LOS by Move:	A	*	*	В	*	*	*	*	В	*	*	*
Movement:		- LTR	- RT	LT	- LTR	- RT	LT	- LTR	- RT	LT		- RT
Shared Cap .:	XXXX	XXXX	XXXXXX	XXXX	XXXX	XXXXX	36		XXXXX			XXXXXX
Shrd StpDel:	XXXX	XXXX	XXXXX	XXXXXX	XXXX	XXXXX	1118		3000000	XXXXXX		XXXXX
Shared LOS:	*		*	*		*	F	*	*	*	F	*
ApproachDel:	x	xxxxx		x	XXXXX			647.9			420.5	

Intersection #22: Bay/Escalona [N/S: Bay E/w: Escalana]



Approach:	No	th Bo	und	Sou	th Bo	und		st Bo			st Bo	
Movement:	L .	- т	- R	L -	· T	- R			- R			
			1							1		
Volume Module:												
Base Vol:	23	640	18	108	389	27	30	43	63	11	13	107
Growth Adj: 1	.24	1.24	1.24	1.24	1.24	1.24		1.24	1.24	1.24		1.24
Initial Bse:	29	794	22	134	482	33 -		53	78	14	16	133
Added Vol:	. 0	0	0	0	0	0	0	0	0	0	0	C
Campus Incr:	0	102	0	1	29	4		0	0	0	0	5
Initial Fut:	29	896	22					53	78	14	16	138
User Adj: 3	1.00	1.00	1.00		1.00			1.00		1.00		1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00			1.00		1.00		1.00
PHF Volume:	29	896	22	135	511	37	52	53	78	14	16	138
Reduct Vol:	0	0	0	0	0		0	0	0	0	0	. 0
Final Vol.:	29	896	22	135	511	37	52	53	78	14	16	138
Critical Gap 1	Modu	le:										
Critical Gp:	4.1	XXXX	XXXXX	4.1	XXXX	XXXXX	7.1	6.5	6.2	7.1	6.5	6.2
FollowUpTim:	2.2	XXXX	XXXXX	2.2	XXXX	XXXXXX	3.5	4.0	3.3		4.0	
rollowopiim.												
Capacity Modu.	le:											
Cnflict Vol:						XXXXX						907
Potent Cap.:						XXXXX		. 86		60	83	337
Move Cap.:						XXXXX					. 66	337
Level Of Serv.												
Stopped Del:						XXXXX				XXXXX	XXXX	XXXXXX
LOS by Move:	A	*	*		. *			*	В	*	*	
Movement:			- RT						- RT		LTR	
Shared Cap.: :	XXXX	XXXX	XXXXX			XXXXX			XXXXX			
Shrd StpDel:x	XXXX	XXXX	XXXXX	XXXXX	XXXX	XXXXX			XXXXX	XXXXX		XXXXX
Shared LOS:	*	*	*	*		*	_	*			-	*
ApproachDel:		XXXXX		×	xxxxx			630.2			337.2	
ApproachLOS:		*			*			F			F	

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ApproachLOS:

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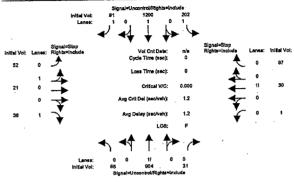
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Level Of Service Computation Report
2000 HCM Unsignalized (Future Volume Alternative
2000 Ptr. Bhose 1 and 2 Ptr.

Intersection #22: Bay/Escalona [N/S: Bay E/w: Escalana]



	Initia	I Vol:	68	904		31						
			Signal=L	ncontrot/Ri	ghts=indu	de .						
Approach:	Not	th Bo	und	Sou	ıth Bo	bund	Ea	est Bo	und		st Bo	
Mortoment.	т	. т	- R	T.	- Т	- R	ъ.	- т	- R	ъ.		- R
MOVEMENT:	1			1						1		
Volume Module												
Base Vol:		675	23	159	889	62	35	17	29	0	24	76
Growth Adi:		1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24			
Initial Bse:				197	1102	77	43	21	36	0	30	
	_	_	_	0	4	. 0	0	0	0	1	0	Q.
G			0	5	94	14	9	0	0	0	0	3
Initial Fut:	6.8	904	31	202	1200	91	52	21	36	1	30	97
User Adi:		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:						1.00		1.00	1.00	1.00	1.00	1.00
PHF Volume:				202	1200	91	52	21	36	1	30	97
Reduct Vol:	0	0	0	0	. 0	0	. 0	0	0	0	0	0
Final Vol.:	68	904	31	202	1200	91	52	21	36	1	30	97
Cristani Can	Model	۱۵۰										
Critical Gp:	4.1	XXXX	xxxxx	4.1	200000	XXXXX	7.1	6.5	6.2	7.1	6.5	6.2
FollowDoTime	2.2	XXXX	XXXXXX	2.2	XXXXX	XXXXXX	3.5	4.0	3.3	3.5	4.0	3.3
	1											
Canacity Mod	ule:											
Coflict Vol:	1291	XXXX	XXXXX	935	XXXX	200000	2724	2676	1200	2734	2751	919
Potent Cap.:	544	XXXX	XXXXX	741	XXXX	XXXXX	14	22	228	13	20	331
Move Can .	544	XXXX	XXXXXX	741	20000	XXXXXX	U	14	228	U	13	
				11								
Level Of Ser	vice I	Module	<b>a</b> :									
Stopped Del:	12.6	XXXX	XXXXXX	11.7	XXXX	XXXXX	XXXXX	XXXX	23.8	XXXXXX	XXXX	XXXXX
LOS by Move:	В	*	*	В	*	*	*	*	С	*	*	*
Movement:	LT	- LTR	- RT	LT	- LTR	- RT	LT	- LTR	- RT	LT	- LTR	- RT
Chared Can .	YYYY	YYYY	XXXXX	XXXX	XXXX	XXXXXX	0	XXXX	XXXXX	XXXX	0	XXXXXX
Shared Cap.:	XXXXX	XXXX	XXXXX	XXXXX	XXXX	XXXXXX	XXXXX	XXXX	XXXXXX	XXXXX	XXXXX	XXXXX
Shared LOS:	*	*	*	*	*	*	*	*	*	*	*	*
ApproachDel:				×	XXXXX		x	XXXXX		x	XXXXX	
ApproachLOS:		*			*			F			F	

Level Of Service Computation Report
2000 HCM Unalgnalized (Future Volume Alternative)
2020 Baseline PM

Intersection #22: Bay/Escalona [N/S: Bay E/w: Escalana]

Approach:	No	rth Bo	und	Sou	th Bo				und	West		ad
Movement:	L.	- Т	- R	L -	T	- R	L.	· T	- R	ъ - 1	r -	R .
				1	. <b></b> .							1
Volume Module	3:											
Base Vol:	55	675	23	159	889	62	35	17	29	0 :	24	76
Growth Adi:	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24 1.		1.24
Initial Bse:	68	837	29	197	1102	77	43	21	36	0	30	94
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Campus Incr:	0	60	0	5	94	14	9	0	0	0	0	3
Initial Fut:	68	897	29	202	1196	91	52	21	36	0	30	97
User Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00 1.	00 :	1.00
PHF Adi:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00 1.	00	1.00
PHF Volume:	68	897	29	202	1196	91	52	21	36	0	30	97
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Final Vol.:	68	897	29	202	1196	91	52	21	36	0	30	97
Critical Gap	Modu	le:										
Critical Gp:			xxxxx	4.1	XXXX	XXXXXX	7.1	6.5	6.2	XXXXXX 6	. 5	6.2
FollowUpTim:				2.2	30000	XXXXX	3.5	4.0	3.3	XXXXXX 4	- 0	3.3
							11					
Capacity Mod												
Cnflict Vol:		xxxx	XXXXXX	926	300000	XXXXX	2712	2663	1196	жжж 27	39	911
Potent Cap.:	546	xxxx	жжж	747	XXXX	XXXXX	14	23	229	XXXX	20	335
Move Cap.:			XXXXX	747	XXXX	XXXXX	0	15	229	XXXX	13	335
Level Of Ser	vice 1	Modul	e: '	•								
Stopped Del:	12.5	XXXX	xxxxx	11.6	XXXX	XXXXXX	XXXXXX	XXXX	23.6	XXX XXXXXX	xx x	
LOS by Move:	· в	*	*	В	*	*	*	*	C	-	*	*
Movement:		- LTR	- RT	LT	- LTR	- RT	LT	- LTR	- RT	LT - L	TR -	RT
Shared Cap.:	XXXX	xxxx	xxxxx	XXXX	xxxx	XXXXX	0	жжж	XXXXXX	XXXX XX	xx	49
Shrd StpDel:	xxxx	xxxx	xxxxx	XXXXX	XXXX	xxxxx	XXXXX	XXXX	XXXXXX	XXXXXX XX	жж в	94.6
Shared LOS:	*	*	*	*	*	*	*	*	*	*	*	F
ApproachDel:	×	xxxx		×	XXXXX		×	ххххх		894	. 6	
ApproachLOS:		*			1.*			F			F	
					-1							

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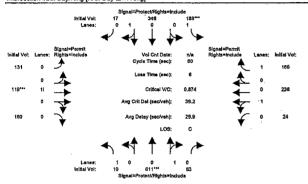
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Level Of Service Computation Report
2000 HCM Operations (Future Volume Atternative)
2020 Baseline AM

Intersection #23: Bay/King [N/S: Bay E/w: King]

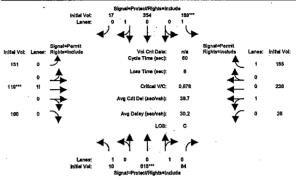


Approacn:		rtn B	ouna						ouna		est Bo	ouna
Movement:	L .		- R			- R			- R		- T	
									·			
Min. Green:	0	0	oʻ	0	0	0	0	0	. 0	0	0	0
Volume Modul												
Base Vol:		452	67				106	96	129	19		
Growth Adj:					1.24			1.24	1.24		1.24	
Initial Bse:		560		174		17	131	119				114
Added Vol:	0	0	0	0	0	0	0	0	. 0	0	0	- 0
Campus Incr:	0	51	0	15	14	0	Ó	0	0	0	0	51
Initial Fut:				189	346	17	131	119	160	24	236	165
User 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
PHF 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
PHF Volume:	10	611	83	189	346	17	131	119	160	24	236	165
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	10	611	83	189	346	17	1:31	119	160	24	236	165
PCE 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
MLF 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
Final Vol.:	10	611	83	189	346	17	131	119	160	24	236	165
	1						1					
Saturation F	low M	odule	:	•								
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.93	0.96	0.96	0.93	0.97	0.97	0.67	0.67	0.67	0.93	0.93	0.83
Lanes:	1.00	0.88	0.12	1.00	0.95	0.05	0.32	0.29	0.39	0.09	0.91	1.00
Final Sat.:					1761				497		1613	
	1									1		
Capacity Ana				•			•		•			
Vol/Sat:	0.01	0.38	0.38	0.11	0.20	0.20	0.32	0.32	0.32	0.15	0.15	0.10
Crit Moves:		****		****				***				
Green/Cycle:	0.02	0.43	0.43	0.12	0.54	0.54	0.37	0.37	0.37	0.37	0.37	0.37
Volume/Cap:	0.36	0.87	0.87	0.87	0.36	0.36	0.87	0.87	0.87	0.40	0.40	0.28
Delay/Veh:									40.0			
User DelAdj:									1.00			
AdjDel/Veh:												
DesignQueue:									5			
	-					_	-	-	_	_		-

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Level Of Service Computation Report 2000 HCM Operations (Future Voluma Allamativa) 2020 Pkps Phase 1 and 2 AM

Intersection #23: Bay/King [N/S: Bay E/w: King]



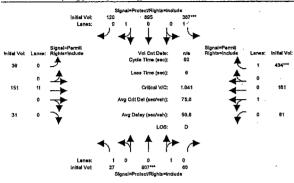
Approach:	No	rth Bo	ound								est Bo	ound
Movement:			- R			- R					T	
						·						
Min. Green:		0	0	0	0	. 0	0	0	0	0	0	0
		<u>-</u> -					1					
Volume Modul	e:											
Base Vol:		452	67	140	268	14	106	96	129	19	190	.92
Growth Adj:	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24
Initial Bse:	10	560	83	174	332	17	131	119	160	24	236	114
Added Vol:	0	4	1	0	8	0		0	0	2	0	0
Campus Incr:	0	51	0	15	14	0	0	0	0	0	0	51
Initial Fut:	10	615	84	189	354	17	131	119	160	26	236	165
User Adj:			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF 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
PHF Volume:	10	615	84	189	354	17	131	119	160	26	236	165
Reduct Vol:	0	0	0		. 0	0	0	0	0	0	0	0
Reduced Vol:	10	615	84	189	354	17	131	119	160	26	236	165
PCE 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
MLF 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
Final Vol.:	10	615	84		354	17					236	165
									1			
Saturation F	low Mo	odule:										_
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.93	0.96	0.96	0.93	0.97	0.97	0.67	0.67	0.67	0.93	0.93	0.83
Lanes:	1.00	0.88	0.12	1.00	0.95	0.05	0.32	0.29	0.39	0.10	0.90	1.00
Final Sat.:	1769	1609	220	1769	1763	86	407				1592	1583
~~~~~~				1						1		
Capacity Ana							•		•	•		
Vol/Sat:				0.11	0.20	0.20	0.32	0.32	0.32	0.15	0.15	0.10
Crit Moves:		****		****				****				
Green/Cycle:	0.02	0.44	0.44	0.12	0.54	0.54	0.37	0.37	0.37	0.37	0.37	0.37
Volume/Cap:				0.88	0.37	0.37	0.88	0.88	0.88	0.40	0.40	0.28
Delay/Veh:				65.7				40.7	40.7	19.2	19.2	18.1
User DelAdj:												
		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	1.00				1.00			1.00			1.00	1.00 18.1

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Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternative) 2020 Baseline PM

Intersection #23: Bay/King [N/S: Bay E/w: King]

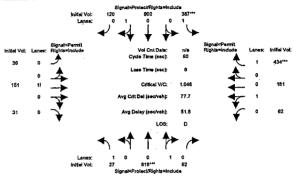


Approach:	No:	rth B	ound	So	uth Bo	ound	E	ast Bo	und	We	est Bo	ound
Movement:	L	- т	- R	L	- T	- R	ъ.	- T	- R	L ·	- Т	- R
									1			
Min. Green:	. 0	0	0	. 0	0	0	· 'o	0	0	. 0		
				1								
Volume Modul			,	•		'			•			
Base Vol:	22	627	48	274	684	97	29	122	25	49	146	326
Growth Adj:	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24
Initial Bse:	27	777	60	340	848	120	36	151	31	61	181	404
Added Vol:	0	0	0	0	0	0			0	0	0	0
Campus Incr:	0	30	0	47	47	0	0	0	. 0	0	0	30
Initial Fut:	27	807	60	387	895	120	36	151	31		181	
User 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
PHF 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
PHF Volume:	27	807	60	387	895	120	36	151	31	61	181	434
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	27	807	60	387	895	120	36	151	31	61	181	434
PCE 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
MLP Ad:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.:	27	807	60	387	895	120	36	151	31	61	181	434
	1					·	1					
Saturation F	low M	odule	: `	•								
Sat/Lane:	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.93	0.97	0.97	0.93	0.96	0.96	0.88	0.88	0.88	0.83	0.83	0.83
Lanes:	1.00	0.93	0.07	1.00	0.88	0.12	0.16	0.70	0.14	0.25	0.75	1.00
Final Sat.:	1769	1717	127	1769	1612	217	276	1161	238	398	1186	1583
			1							·		
Capacity Ana						'			,			•
Vol/Sat:				0.22	0.56	0.56	0.13	0.13	0.13	0.15	0.15	0.27
Crit Moves:		****		****								****
Green/Cycle:	0.02	0.45	0.45	0.21	0.64	0.64	0.26	0.26	0.26	0.26	0.26	0.26
Volume/Cap:					0.86	0.86	0.49	0.49	0.49	0.58	0.58	1.04
Delay/Veh:					18.2	18.2	25.8	25.8	25.8	27.6	27.6	84.7
User DelAdi:					1.00		1.00	1.00	1.00	1.00	1.00	1.00
AdiDel/Veh:					18.2		25.8	25.8	25.8	27.6	27.6	84.7
DesignOueue:							1	5	1	2		15

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Level Of Service Computation Report 2000 HCM Operations (Future Volume Alternetive) 2020 Plus Phese 1 and 2 PM

Intersection #23: Bay/King [N/S: Bay E/w: King]



Approach:	No	rth Bo	ound					und		st Bo	
Movement:			- 1R					- R			- R
Min. Green:	` 0	0	0	0 0	0	0	. 0	. 0	0	0	0
Volume Module					1	1			1		1
Base Vol:	22	627	48	274 684	97	29	122	25	49	146	326
Growth Adj:	1.24	1.24	1.24	1.24 1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24
Initial Bse:		777	60	340 848	120	36	151	31	61	181	404
Added Vol:	0	9	2	0 5	0	0	0	0	1	0	0
Campus Incr:	0	30	0	4747	0	0	0	0	0	0	30
Initial Fut:		816	62	387 900	120	36	151	31	62	181	434
User 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
PHF 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
PHF Volume:	27		62	387 900	120	36	151	31	62	181	434
Reduct Vol:	0	0	0	0 0	. 0	0	0	0	0	0	0
Reduced Vol:	27	816	62	387 900	120	36	151	31	62	181	434
PCE Adi:		1.00	1.00	1.00 1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Ad:	1.00	1.00	1.00	1.00 1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.:	27	816	62	387 900			151	31		181	434
	i								1		
Saturation F				•							
Sat/Lane:	1900	1900	1900	1900 1900	1900	1900	1900	1900	1900	1900	1900
Adjustment:	0.93	0.97	0.97	0.93 0.96	0.96	0.88	0.88	0.88	0.83	0.83	0.83
Lanes:		0.93	0.07	1.00 0.88	0.12	0.16	0.70	0.14	0.25	0.75	1.00
Final Sat.:	1769	1714	129	1769 1613	216	274	1153	236	401	1176	1583
	1					1			j		
Capacity Ana.	lysis	Modu?	le:	•	•	-					
Vol/Sat:		0.48	0.48	0.22 0.56	0.56	0.13	0.13	0.13	0.15	0.15	0.27
Crit Moves:		***		****							****
Green/Cycle:	0.02	0.45	0.45	0.21 0.65	0.65	0.26	0.26	0.26	0.26	0.26	0.26
Volume/Cap:					0.86	0.50	0.50	0.50	0.59	0.59	1.05
Delay/Veh: :				91.6 18.3	18.3	26.0	26.0	26.0	28.0	28.0	86.8
User DelAdj:				1.00 1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh: :				91.6 18.3	18.3	26.0	26.0	26.0	28.0	28.0	86.8
DesignQueue:				14 17	2	1.	5	1	2	6	15

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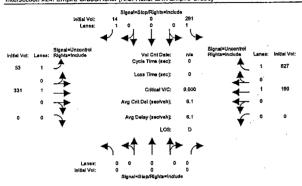
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Level Of Service Computation Report 2000 HCM Unsignalized (Future Volume Allemative) 2020 Baseline AM

Intersection #24: Empire Grade/Heller [N/S: Heller E/w: Empire Grade]

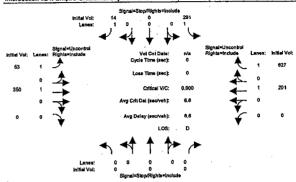


Approach: No	rth Bo	und	Sou	th Bo	ound	E	st Bo	ound	₩e	est Bo	ound
	- T	- R	L -	т	- R	L.	- T	- R	. L -	- Т	- R
			1								
Volume Module:			•								
Base Vol:	0	0	217		10	38	262	0	0	152	444
Growth Adj: 1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24		1.24
Initial Bse: 0	0	0	269	0	12	47	325	0	0	188	551
Added Vol: 0	0	Ó	0	0	0	0	0	0	0	0	0
Campus Incr: C	0	0	22	0	2	6	6	. 0	0	2	76
Initial Fut: 0	0	0	291	0	14	53	331	0	0	190	627
User 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
PHF Volume: 0	0	0	291	0	14	53	331	0	0	190	627
	0	0	0	0	0	0	. 0	0	0	0	0
Final Vol.: 0	0	0	291	0	` 14	53	331	0	0	190	627
Critical Gap Modu	le:										
Critical Gp:xxxxx	XXXX	XXXXX	6.4	XXXX	6.2	4.1	XXXX	XXXXXX	XXXXX	XXXX	XXXXXX
FollowUpTim:xxxxx	xxxx	xxxxx	3.5	XXXX	3.3	2.2	XXXX	XXXXXX	XXXXXX	XXXX	2000000
			1			1					
Capacity Module:		,									
Cnflict Vol: xxxx	XXXX	XXXXX	628	XXXX	190	817	XXXX	XXXXX	XXXXX	XXXX	XXXXX
Potent Cap.: xxxx	XXXX	xxxxxx	450	XXXX	856	820	XXXX	XXXXX	XXXX	XXXX	XXXXX
Move Cap.: xxxx	XXXX	XXXXX	428	XXXX	856	820	XXXX	XXXXXX	XXXX	XXXX	XXXXXX
			1			11					1
Level Of Service	Module): :	•				•				
Stopped Del:xxxxx	20000	XXXXX	29.5	XXXX	9.3	9.7	XXXX	XXXXX	XXXXXX	XXXX	XXXXXX
LOS by Move: *	*	*	D	*	A	A	*	*	*	*	*
	- LTR	- RT	LT ·	LTR	- RT	LT	- LTR	- RT	LT ·	- LTR	- RT
Shared Cap.: xxxx	xxxx	XXXXX	жж	XXXX	XXXXX	30000	XXXXX	XXXXX	XXXXX	XXXX	XXXXXX
Shrd StpDel:xxxxx	XXXXX 3	XXXXX	XXXXXX	XXXX	XXXXX	XXXXX	XXXX	XXXXXX	XXXXXXX.	XXXX	XXXXXX
Shared LOS: *	*	*	*	*	*	*	*	*	*	*	*
	200000			28.5		×	хжж		30	XXXXXX	
ApproachLOS:	*			D			*			*	

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Level Of Service Groupstation Report
2000 HCM Unapplated Future Volume Allemative)
2020 Ptus Phase 1 and 2 AM
Intersection #24: Empire Grade/Heller [N/S: Heller E/w: Empire Grade]

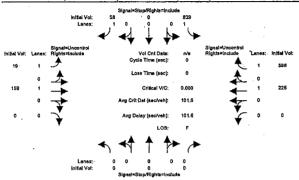


			Signa	=2 to by kild u	a-monte							
Approach:	No	rth Bo	ound	Sot	ith Bo	ound	E	ast Bo	ound	We	est Bo	ound
Movement:	L.	- T	- R	ъ.	- T	- R	L ·		- R			- R
												!
Volume Module	ė:											
Base Vol:		0			0		38		0			
Growth Adj:	1.24	1.24	1.24	1.24	1.24	1.24		1.24			1.24	
Initial Bse:	0	0	0	269	. 0	12	47		0	0		551
Added Vol:	0	0	0	0	0			19	. 0		11	0
Campus Incr:	0	. 0	0	22	0	_		6	0		2	
Initial Fut:	0	0	0	291	0	14			0		201	
User Adj:					1.00			1.00			1.00	
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00		1.00			1.00	
PHF Volume:		0	0	291	0	14	53		0			
Reduct Vol:	0	0	٥	0	0	0		0	0	_	0	0
Final Vol.:	٥	0	0	291	0	14	53	350	0	0	201	627
Critical Gap	Modu.	le:										
Critical Gp:	XXXXX	200000	XXXXX	6.4	XXXX					XXXXX		
FollowUpTim:	XXXXX	XXXX	XXXXX		XXXX							XXXXXX
Capacity Mod	ule:											
Cnflict Vol:	XXXX	XXXX	XXXXXX	658	XXXX			XXXX	XXXXXX			XXXXX
Potent Cap.:	XXXX	XXXX	XXXXXX	432	XXXX				XXXXX			XXXXX
Move Cap.:	XXXX	XXXX	XXXXXXX		XXXX				XXXXX			XXXXXX
Level Of Ser	vice 1	Module	≘:									
Stopped Del:	XXXXX	XXXXX	XXXXX	32.4	XXXX					XXXXX	XXXX	XXXXX
LOS by Move:	. *	*	*	D	*		A				*	*
Movement:	LT	- LTR	- RT	LT	- LTR	- RT	LT	- LTR	- RT	LT	- LTR	- RT
Shared Cap.:	XXXXX	30000	XXXXXX	XXXXX	XXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXX	XXXX	XXXXX
Shrd StpDel:	XXXXX	XXXX	200000	XXXXXX	XXXX	XXXXXX	XXXXXX	XXXX	200000	XXXXXX	XXXX	200000
Shared LOS:	*	*	*	*		*	*	*		*	_	*
ApproachDel:	x	XXXXX			31.3		×	XXXXX		×	xxxxx	
ApproachLOS:		*			,D			*			•	

Wed Nov 28 10:18:05 2003

November 2003
Level Of Service Computation Report
2000 HCM Unsignatized (Future Volume Alternative)
2020 Baseline PM

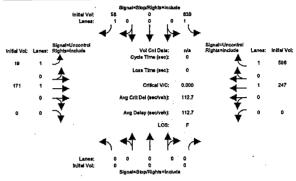
Intersection #24: Empire Grade/Heller (N/S: Heller E/w: Empire Grade)



Approach:	No	rth B	ound	So	ith Bo	ound	E	ast Bo	ound	We	est Bo	ound
Movement:	L	- T	- R	L ·	- T	- R	ь	- т	- R	L	- T	- R
Volume Modul	e:											
Base Vol:	0	0	0	620	0	42	12	125	. 0	0.	177	444
Growth Adj:	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24
Initial Bse:	0	0	0	769	0	52	15	155	0	0	219	551
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Campus Incr:	0	0	0	70	0	6	4	4	. 0	0	6	45
Initial Fut:	0	0	0	839	0	58	19	159	0	0	225	596
User 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
PHF 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
PHF Volume:	0	0	0	839	0	58	19	159	0	0	225	596
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Final Vol.:	0	٥	0	839	0	58	19	159	0	0	225	596
Critical Gap	Modu.	le:										
Critical Gp:	XXXXXX	XXXX	XXXXX	6.4	XXXXX	6.2	4.1	XXXX	XXXXX	XXXXX	XXXX	XXXXX
FollowUpTim:	XXXXX	XXXX	XXXXX	3.5	XXXX	3.3	2.2	XXXX	XXXXXXX	2000000	XXXX	XXXXX
Capacity Mod	ule:											•
Cnflict Vol:	XXXX	xxxx	xxxxx	422	XXXX	225	821	XXXX	XXXXX	XXXX	XXXX	XXXXXX
Potent Cap.:	XXXX	XXXX	XXXXX	592	XXXX	819	817	XXXX	XXXXXX	200000	XXXX	XXXXX
Move Cap.:	XXXX	xxxx	xxxxx	582	XXXX	819	817	XXXX	XXXXXX	XXXX	XXXX	XXXXXX
							11					
Level Of Ser	vice 1	Modul	€:									
Stopped Del:	жжжж	XXXX	XXXXX	228.7	XXXX	9.7	9.5	хххх	XXXXX	XXXXX	XXXX	XXXXXX
LOS by Move:	*	*	*	F	*	A	A	*		*	*	*
Movement:	LT ·	- LTR	- RT	LT ·	- LTR	- RT	LT ·	- LTR	- RT	LT ·	- LTR	- RT
Shared Cap.:	XXXX	XXXX	XXXXX	XXXX	XXXXX	XXXXX	XXXX	XXXX	XXXXX	XXXX	XXXX	XXXXX
Shrd StpDel:	xxxxx	xxxx	XXXXX	XXXXX	xxxx	XXXXX	XXXXX	XXXX	xxxx	XXXXX	XXXX	XXXXX
Shared LOS:	*	*	*	*	*	*	*	*	*	*	*	*
ApproachDel:	×	XXXXX			214.5		×	COCXX		x	COCCX	
ApproachLOS:		*			F			*			*	

Level Of Service Computation Report 2000 HCM Unsignatized (Future Volume Alternative) 2020 Plus Phase 1 and 2 PM

Intersection #24: Empire Grade/Heller [N/S: Heller E/w: Empire Grade]



			Signal	l≖Stop/Righ	ts=include							
Approach:	No	rth B	ound	So	uch B	ound			ound		est B	ound
			- R			- R			- R			- R
							[]					
Volume Module	e:											
Base Vol:	0	0	0	620	. 0	42				0	177	
Growth Adj:	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24
Initial Bse:	0	0	0	769	0	52	15	155	0	0	219	551
Added Vol:		0		0		. 0	0	12	0	0	. 22	0
Campus Incr:	0	- 0	0	70	0			4	0	0	6	45
Initial Fut:	. 0	0	0	839	0	58	19	171	0	0	247	
User 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
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00
PHF Volume:	0	0	0	839	0	58	19	171	0	. 0	247	596
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	٥
Final Vol.:	0	0	0	839	. 0	58	19	171	0	0	247	596
Critical Gap	Modu.	le:										
Critical Gp:			XXXXXX	6.4	XXXX	6.2	4.1	XXXX	XXXXXX	XXXXX	30000	XXXXX
FollowUpTim::					XXXX			XXXX	200000	XXXXX	XXXXX	XXXXXX
	1											
Capacity Mod	ule:		,									·
Cnflict Vol:		XXXX	XXXXXX	456	XXXX	247	843	XXXX	XXXXX	XXXX	XXXX	XXXXXX
Potent Cap.:	XXXX	XXXX	XXXXXX	566	XXXX	796	802	XXXX	XXXXXX	XXXXX	XXXX	XXXXXX
Move Cap.:					XXXX		802	XXXX	XXXXX	XXXXX	XXXXX	XXXXX
												1
Level Of Ser	vice :	todul	e:	٠.			•					
Stopped Del:	XXXXX	XXXXX	XXXXX	258.5	XXXX	9.9	9.6	xxxx	XXXXXX	XXXXX	XXXX	XXXXX
LOS by Move:	*		*	P.		A	A	*	*	*	*	*
Movement:		LTR	- RT	LT	- LTR	- RT	LT	- LTR	- RT	LT ·	- LTR	- RT
Shared Cap.:	200000	XXXX	XXXXX	200000	xxxx	300000	XXXX	XXXXX	XXXXX	XXXXX	30000	XXXXXX
Shrd StpDel:												
Shared LOS:						*	*			*		*
ApproachDel:				:	242.4		x	CCCC		×	COCC	
ApproachLOS:		*			F			*			*	
· Francos.					_							

APPENDIX D-4

PROJECT TRIP GENERATION

Trip Generation Estimates Marine Science Center CLRDP November 25, 2002

ESTIMATE OF TRIPS (USING SURVEYED TRIP DATA FROM COASTPLANS)

		Trip Rates						Number of Trips								
			AM	Peak Hour		PM Peak Hour		lour		AM	Peak Ho	eak Hour		PM Peak Hou		Off-Peak
Land Use	Size	Daily	In	Out	Total	<u>In</u>	Out	Total	Daily	in	Out	Total	In	Out	Total	Trips
Existing												-				
Peak Hour of Adjacent Traffic	263 emp+stu	3.80	0.24	0.06	0.30	0.12	0.22	0.33	1,000	63	15	78	31	57	88	834
Project Near-Term																
New Employees and Students	255 emp+stu	3.80	0.24	0.06	0.30	0.12	0.22	0.33	968	61	14	76	30	55	85	807
Auditorium	13 visitors			See r	notes be	elow*			22	8	2	10	2	8	10	2
Meeting Rooms	11 visitors			See r	notes be	low*			20	7	2	9	2	7	9	2
Increased use of Seymour Center	48 visitors	0.62	0.11	0.01	0.12	0.01	0.11	0.12	30	. 2	1	6	1	5	6	18
Increased Public Access Use	20 visitors			See r	notes be	elow*			40	4	4	8	4	4	8	24
Overnight Accommodations (Est. Rates)	5 beds	4.00	0.20	1.05	1.25	0.84	0.41	1.25	20	1	5	6	. 4	2	6	8
On-Site Housing (60% of ITE Apt Rate)	42 du	5.51	0.06	0.29	0.34	0.10	0.49	0.59	232	2	12	14	4	21_	25	192
						Near-	Ferm S	ubtotal	1,331	89	40	129	47	103	149	1,053
Project Long-Term																
New Employees and Students	366 emp+stu	3.80	0.24	0.06	0.30	0.12	0.22	0.33	1,390	88	21	108	43	80	122	1,159
Increased use of Seymour Center	48 visitors	0.62	0.11	0.01	0.12	0.01	0.11	0.12	30	5	1	6	1	5	6	18
Increased Public Access Use	20 visitors			See r	otes be	elow*			40	4	4	8	4	4	8	24
Dorm Rooms (Estimated Rate)	30 beds	4.00	0.20	1.05	1.25	0.84	0.41	1.25	120	6	32	38	25	12	38	45
On-Site Housing (60% of ITE Apt Rate)	38 du	5.71	0.06	0.29	0.35	0.11	0.52	0.62	217	2	11	13	4	20	24	180
						Long-	Term S	ubtotal	1,797	105	68	173	76	121	197	1,426
	•				Avera	ige Day	Projec	t Total	3,128	195	108	303	123	224	347	2,479

Notes:

Trip rates for employees+students based on traffic counts of existing site uses provided by Coastplans. Daily trips (over 24-hour period) were estimated based on 7 am to 5 pm volumes. Currently, students represent 23% of employee+student population average daily occupancy. Under Near-Term and Long-Term conditions, they represent 16% and 19%, respectively.

Contemps, students represent 25% or employees students for Near-Term Conditions in cludes a net loss of 2 employees-students from Changed Use of Existing Facilities.

For auditorium/meeting room use, average daily attendance is based on annual attendance projection divided by 312 days/yr. Assumptions for trip generation include:

Average of 1.25 persons/car during peak hour and everyone travels during the peak hour.

Daily trip estimate includes both peak hours plus 2 additional trips each for preparation, tear-down and other activities outside the peak periods.

Increased use of Seymour Center under each scenario assumes 2 persons per car resulting in 24 vehicle trips, of which 50% are assumed to occur during the peak periods.

An additional 6 trips is added under each scenario to account for new staff trips during the day.

Overnight accommodations and dorm beds are assumed to have an average daily occupancy of 50% per population projections.

Source: Fehr & Peers Associates based on population projections and information from Estimated Occupancy of Trip-Generating Space table (Ann Bertken, UCSC, 9/27/2002).

Trip Generation for simultaneous average attendance at auditorium and meeting rooms on a specific day plus peak attendance at Seymour Center:

With an average auditorium attendance of 225 persons and 1.25 persons/car and 75% of visitors from off-site, resulting trip generation is 135 vehicles.

With an average meeting room attendance of 95 persons and 1.25 persons/car and 50% of visitors from off-site, resulting trip generation is 38 vehicles.

Daily trip estimate includes both peak hours plus 40 additional trips each to auditorium and meeting rooms for preparation, tear-down and other activities outside the peak periods.

Conservative assumption is that everyone travels in during the morning peak hour and out during the evening peak hour.

With an increase in peak attendance of 300 visitors on "Free Tuesdays" and 2.5 persons/car, the resulting trip generation is 120 vehicles. Of this total, approximately 20 percent are assumed to travel during each of the peak hours.

		Trip Rates						Number of Trips									
	Off-Site		AM Peak Hour			PM Peak Hour				AM Peak Hour			PM Peak Hour			Off-Peak	
	Visitors	Daily	In	Out	Total	ln	Out	Total	Daily	In	Out	Total	łn	Out	Total	Trips	
Auditorium	169	1.84	0.80	0.06	0.86	0.06	0.80	0.86	310	135	10	145	10	135	145	20	
Meeting Rooms	48	2.42	0.80	0.21	1.01	0.21	0.80	1.01	116	38	10	48	10	38	48	20	
Peak Seymour Center Attendance	300	0.40	0.07	0.01	0.08	0.07	0.01	0.08	120_	22	2	24	22	2	24	72	
		Peak Day Additional Trip Total					p Total	547	195	22	218	42	176	218	112		
		Average Day Project Total						t Total	3,128	195	108	303	123	224	347	2,479	
	Peak Day Grand Total (Simultaneous Events)							vents)	3,675	390	130	520	165	400	564	2,591	

APPENDIX D-5

ROADWAY SEGMENT LOS THRESHOLD

APPENDIX C -

LEVEL OF SERVICE THRESHOLD VOLUMES FOR VARIOUS ROADWAY TYPES

	TOTAL PEAK HOUR VOLUME IN BOTH DIRECTIONS (PHV)									
•	Level	Level	Level	Level	Level					
	of	of	of	of	of					
ROADWAY TYPE	Service	Service	Service	Service	Service					
(with Abbreviation)	A	. B	С	D	E					
8-Lane Freeway (8F)	5,100	7,900	11,200	13,600	14,600					
6-Lane Freeway (6F)	3,900	5,900	8,500	10,200	11,000					
8-Lane Expressway (8E)	3,500	5,400	7,500	9,000	9,800					
6-Lane Expressway (6E)	2,800	4,200	5,600	6,700	7,400					
4-Lane Freeway (4F)	2,600	3,900	5,700	6,800	7,300					
<pre>8-Lane Divided Arterial (w/left turn lane) (9)</pre>	4,000	4,700	5,400	6,100	6,800					
6-Lane Divided Arterial (w/left turn lane) (7)	3,200	3,800	4,300	4,900	5,400					
4-Lane Expressway (4E)	1,800	2,700	3,600	4,500	5,000					
<pre>4-Lane Divided Arterial (w/left turn lane) (5)</pre>	2,200	2,500	2,900	3,250	3,600					
4-Lane Undivided Arterial (no left turn lane) (4)	1,600	1,900	2,200	2,400	2,700					
2-Lane Rural Highway	400	800	1,200	1,700	2,500					
2-Lane Arterial (w/left turn lane) (3)	1,100	1,250	1,450	1,600	1,800					
2-Lane Collector (2)	600	750	900	1,050	1,200					
2-Lane Local* (1)	120	140	160	180	200					
1-Lane Freeway Ramp** (1)	500	750	1,050	1,300	1,500					
2-Lane Freeway Ramp**	1,000	1,500	2,100	2,600	2,800					

Note:

- 1. Non-directional peak hour volume (PHV) is normally about 10 percent of the daily volume. Directional split is assumed 60/40.
- 2. Based on "Highway Capacity Manual", Transportation Research Board, 1994.
- 3. *The capacity limitation is related to neighborhood quality-of-life rather than the physical carrying capacity of the road. This assumes a standard suburban neighborhood, 40 foot roadway width and 25 mile per hour speed limit with normal speed violation rates.
- 4. **Capacities given for each service level assume the same level of service for the adjoining merging roadway as well as level of service being determined by volume to capacity and not attainable speed. Level of service will be controlled by freeway level of service if worse than ramp.
- 5. All volumes are approximate and assume ideal roadway characteristics.