

AGENDA

GARDEN GROVE PLANNING COMMISSION

June 16, 2022 - 7:00 PM

COMMUNITY MEETING CENTER 11300 STANFORD AVENUE

COVID-19 Information: If you plan to attend the meeting in person, regardless of vaccination status, the public is encouraged to wear face masks indoors. Please do not attend this meeting if you have had direct contact with someone who has tested positive for COVID-19, or if you are experiencing symptoms such as coughing, sneezing, fever, difficulty breathing or have other flu-like symptoms.

Meeting Assistance: Any person requiring auxiliary aids and services, due to a disability, to address the Planning Commission, should contact the Department of Community & Economic Development at (714) 741-5312 or email planning@ggcity.org 72 hours prior to the meeting to arrange for special accommodations. (Government Code §5494.3.2).

Agenda Item Descriptions: Are intended to give a brief, general description of the item. The Planning Commission may take legislative action deemed appropriate with respect to the item and is not limited to the recommended action indicated in staff reports or the agenda.

Documents/Writings: Any revised or additional documents/writings related to an item on the agenda distributed to all or a majority of the Planning Commission within 72 hours of a meeting, are made available for public inspection at the same time (1) in the Planning Services Division Office at 11222 Acacia Parkway, Garden Grove, CA 92840, during normal business hours; and (1) at the Community Meeting Center at the time of the meeting.

Public Comments: Members of the public who attend the meeting in-person and would like to address the Planning Commission are requested to complete a yellow speaker card indicating their name and address, and identifying the subject matter they wish to address. This card should be given to the Recording Secretary before the meeting begins. General comments are made during "Oral Communications" and are limited to three (3) minutes and to matters the Planning Commission has jurisdiction over. Persons wishing to address the Planning Commission regarding a Public Hearing matter will be called to the podium at the time the matter is being considered. Members of the public who wish to comment on matters before the Commission, in lieu of doing so in person, may submit comments by emailing planning@ggcity.org no later than 3:00 p.m. the day of the meeting. The comments will be provided to the Commission as part of the meeting record.

PLEASE SILENCE YOUR CELL PHONES DURING THE MEETING.

REGULAR MEETING AGENDA

ROLL CALL: CHAIR RAMIREZ, VICE CHAIR LINDSAY

COMMISSIONERS ARESTEGUI, CUNNINGHAM, LEHMAN, PEREZ,

SOEFFNER

PLEDGE OF ALLEGIANCE TO THE FLAG OF THE UNITED STATES OF AMERICA

- A. ORAL COMMUNICATIONS PUBLIC
- B. APPROVAL OF MINUTES May 19, 2022
- C. <u>CONTINUED PUBLIC HEARING FROM MAY 19, 2022</u> (Authorization for the Chair to execute Resolution shall be included in the motion.)
 - C.1. SITE PLAN NO. SP-110-2022

 VARIANCE NO. V-036-2022

 LOT LINE ADJUSTMENT NO. LLA-029-2022

APPLICANT: PROLOGIS, L.P.

LOCATION: WEST SIDE OF PALA DRIVE AND INDUSTRY STREET,

NORTH OF ACACIA AVENUE, AND SOUTH OF LAMPSON AVENUE AT 12641 INDUSTRY STREET AND 12691 PALA

DRIVE

REQUEST: Site Plan approval to demolish the 65,880 square-foot

building at 12641 Industry Street, and the 83,100 square-foot building at 12691 Pala Drive, in order to build a new 148,284 square-foot industrial building. Also, a Variance request to deviate from the maximum building height requirement of the M-P (Industrial Park) zone, and a Lot Line Adjustment request to consolidate 12641 Industry Street and 12691 Pala Drive into a single parcel. The site is in the M-P (Industrial Park) zone. The project is exempt from CEQA pursuant to Government Code Section 15302 – Replacement or

Reconstruction, of the State CEQA Guidelines.

STAFF RECOMMENDATION: Approval of Site Plan No. SP-110-2022, Variance No. V-036-2022, and Lot Line Adjustment No. LLA-029-2022, subject to the recommended Conditions of Approval.

- D. MATTERS FROM COMMISSIONERS
- E. MATTERS FROM STAFF
- F. ADJOURNMENT

GARDEN GROVE PLANNING COMMISSION Community Meeting Center 11300 Stanford Avenue, Garden Grove, CA 92840

Meeting Minutes Thursday, May 19, 2022

CALL TO ORDER: 7:01 p.m.

ROLL CALL:

Chair Ramirez
Vice Chair Lindsay
Commissioner Arestegui
Commissioner Cunningham
Commissioner Lehman
Commissioner Perez
Commissioner Soeffner

Absent: Lehman, Perez, Ramirez

<u>PLEDGE OF ALLEGIANCE:</u> Led by Commissioner Soeffner.

<u>ORAL COMMUNICATIONS – PUBLIC</u> – In regard to the first public hearing item, which was withdrawn, Maureen Blackmun expressed her opposition to the Crazy Beer & Wine Market project citing concerns that there were frequent Police calls for service in the neighborhood relating to drugs, alcohol, and high-crime, and there were too many convenience stores in the area, as well as graffiti on the wall.

April 21, 2022 MINUTES:

Action: Received and filed.

Motion: Lindsay Second: Arestegui

Ayes: (4) Arestegui, Cunningham, Lindsay, Soeffner

Noes: (0) None

Absent: (3) Lehman, Perez, Ramirez

PUBLIC HEARING - CONDITIONAL USE PERMIT NO. CUP-217-2022 FOR PROPERTY LOCATED NORTH OF GARDEN GROVE BOULEVARD, BETWEEN LORNA STREET AND JOSEPHINE STREET, AT 8725 GARDEN GROVE BOULEVARD

Applicant: HEDRA MAMLOUK Date: May 19, 2022

Request: Conditional Use Permit approval to allow a new convenience store, Crazy

Beer & Wine Market, to operate with an original Alcoholic Beverage Control (ABC) Type "20" (Off-Sale, Beer and Wine) License. The site is in the GGMU-2 (Garden Grove Boulevard Mixed Use 2) zone. The project is exempt from the CEQA pursuant to Government Code Section 15301 – Existing Facilities – of the State CEQA Guidelines.

Action:

Staff stated that a letter to withdraw the item was submitted by the applicant on the afternoon of 5/19/22. Comments were taken under Oral Communications.

PUBLIC HEARING - SITE PLAN NO. SP-112-2022 AND TENTATIVE PARCEL MAP NO. PM-2021-112 FOR PROPERTY LOCATED ON THE NORTHEAST CORNER OF BEVERLY LANE AND ENEO PLACE AT 9811 BEVERLY LANE

Applicant: Date:

HENRY BALANZA May 19, 2022

Request:

A request for Site Plan and Tentative Parcel Map approval to reconfigure two (2) existing adjacent parcels for the purpose of constructing a new two-story single-family home on each lot. Lot 1 will have a lot size of 10,500 square feet, while Lot 2 will have a lot size of 7,238 square feet. The existing single-family dwelling will be demolished to accommodate the proposed development. The site is in the R-1 (Single-Family Residential) zone. The project is exempt from CEQA pursuant to Government Code Section 15303 – New Construction or Conversion of Small Structures and Section 15315 – Minor Land Divisions, of the State CEQA Guidelines.

Action:

Resolution No. 6042-22 was approved with one amendment, the insertion of a new Condition of Approval No. 67, renumbering the condition count from 72 to 73. Condition of Approval No. 67 states: "Second-story windows located on the east and west side of each unit shall either be frosted or designed as clerestory windows to preserve privacy of adjacent dwelling units." Also, one letter of opposition was submitted by Leyna Nguyen. Three speakers expressed concerns with the two-story building height, loss of privacy, compromise of property value, loss of single-family neighborhood charm, increase in traffic, general noise increase, and construction noise.

Motion:

Soeffner

Second:

Arestegui

Ayes:

(4) Arestegui, Cunningham, Lindsay, Soeffner

Noes:

(0) None

Absent:

(3) Lehman, Perez, Ramirez

PUBLIC HEARING - SITE PLAN NO. SP-110-2022, VARIANCE NO. V-036-2022, AND LOT LINE ADJUSTMENT NO. LLA-029-2022 FOR PROPERTY LOCATED ON THE WEST SIDE OF PALA DRIVE AND INDUSTRY STREET, NORTH OF ACACIA AVENUE, AND SOUTH OF LAMPSON AVENUE AT 12641 INDUSTRY STREET AND 12691 PALA DRIVE

Applicant: PROLOGIS, L.P. Date: May 19, 2022

Request: Site Plan approval to demolish the 65,880 square-foot building at 12641

Industry Street, and the 83,100 square-foot building at 12691 Pala Drive, in order to build a new 148,284 square-foot industrial building. Also, a Variance request to deviate from the maximum building height requirement of the M-P (Industrial Park) zone, and a Lot Line Adjustment request to consolidate 12641 Industry Street and 12691 Pala Drive into a single parcel. The site is in the M-P (Industrial Park) zone. The project is exempt from CEQA pursuant to Government Code Section 15302 – Replacement or Reconstruction, of the State CEQA Guidelines.

Action: In order for staff to analyze the estimated trip generation

and potential traffic impacts of the project, the Planning Commission motioned to continue the item to the June 16th Planning Commission meeting. With the public hearing

left open, the request was approved.

Motion: Soeffner Second: Arestegui

Ayes: (3) Arestegui, Cunningham, Soeffner

Noes: (1) Lindsay

Absent: (3) Lehman, Perez, Ramirez

PUBLIC HEARING - SITE PLAN NO. SP-111-2022 AND TENTATIVE PARCEL MAP NO. PM-2021-190 FOR PROPERTY LOCATED ON THE NORTHEAST CORNER OF GARDEN GROVE BOULEVARD AND BROOKHURST STREET AT 10201 AND 10231 GARDEN GROVE BOULEVARD

Applicant: DR. MICHAEL DAO Date: May 19, 2022

Request: Site Plan approval to construct a five-story mixed-use development on

a 1.86-acre site consisting of two parcels with 9,786 square feet of retail space, 9,270 square feet of medical space, and 52 apartment units with a 22.5% affordable housing density bonus for "very low-income" households. Pursuant to the State Density Bonus law, the applicant is requesting one (1) concession and three (3) waivers from the GGMU-2 (Garden Grove Boulevard Mixed Use 2) zone development standards: (1) a concession to reduce the minimum required private balcony area and dimensions for each unit, (2) a waiver to reduce the minimum active

recreation dimensions and to allow the indoor and roof deck recreation areas to contribute to more than 50% of the required open space; (3) a waiver to allow the building to exceed the maximum building height of 50 feet or 4-stories; and (4) a waiver to deviate from the minimum 300 cubic feet of private storage per unit. Also, Tentative Parcel Map approval to consolidate the two (2) existing parcels into a single lot to accommodate the proposed development. The site is in the GGMU-2 (Garden Grove Boulevard Mixed Use 2) zone. The project is exempt from CEQA pursuant to Government Code Section 15332 – In-Fill Development Projects, of the State CEQA Guidelines.

Action:

Resolution No. 6041-22 was approved with one amendment, the addition of Condition of Approval No. 113, which states: The applicant shall enhance the east building elevation by incorporating vertical wall landscaping to soften the building façade, and shall also incorporate privacy features, that are integrated with the design of the building, to the parking structure openings located on levels 2 and 3.

In addition, staff would work with traffic engineering to potentially add a "No U-turn" and/or "Keep Clear" sign to assist with easing traffic in the area on Garden Grove Boulevard at the entrance to the Rosewood Village development.

Other than the applicant, architect, landscape architect, and traffic engineer speaking, seven speakers expressed that though the project was beautiful it was not "family-friendly". Their concerns included the building height, lack of privacy, opposition to the tall bamboo plantings along the property line, gate access hours, ingress and egress to the development, increased traffic and parking overflow into neighborhoods, and "U-turns" that hinder traffic. Four letters of opposition were submitted with concerns relating to lack of outdoor space for growing families, child-safety, homeless in area, low-income housing, lack of privacy, and overflow parking in neighborhood. Two letters of support were submitted citing the need for affordable housing and the addition of value to the corner, as well as new jobs, businesses, and medical services in the area.

Motion: Lindsay Second: Arestegui

Ayes: (4) Arestegui, Cunningham, Lindsay, Soeffner

Noes: (0) None

Absent: (3) Lehman, Perez, Ramirez

<u>MATTERS FROM COMMISSIONERS:</u> Commissioners reminded everyone of the upcoming Strawberry Festival and tribute concerts at the amphitheater, which include Aerosmith, Green Day, and Tom Petty.

MATTERS FROM STAFF: Staff noted that the June 2nd meeting would be cancelled and the continued item would be moved to the June 16th meeting.

<u>ADJOURNMENT:</u> At 9:53 p.m. to the next Meeting of the Garden Grove Planning Commission on Thursday, June 16, 2022, at 7:00 p.m. in the Community Meeting Center, 11300 Stanford Avenue, Garden Grove.

Judith Moore Recording Secretary

COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT PLANNING STAFF REPORT

AGENDA ITEM NO.: C.1.	SITE LOCATION: West side of Pala Drive, North of Acacia Avenue, and West side of Industry Street, South of Lampson Avenue, at 12641 Industry Street and 12691 Pala Drive
HEARING DATE: June 16, 2022	GENERAL PLAN: Industrial (I)
CASE NO.: Site Plan No. SP-110-2022, Variance No. V-036-2022, Lot Line Adjustment No. LLA-029-2022	ZONE: M-P (Industrial Park)
APPLICANT: Prologis, L.P., ATTN: Eddie Pang	APN: 215-011-11 & 215-111-16
PROPERTY OWNER: Same as Applicant	CEQA DETERMINATION: Exempt: Section 15302 – Replacement or Reconstruction

REQUEST:

The applicant is requesting Site Plan approval to build a new 149,335 gross square-foot industrial building, necessitating the demolition of the 65,880 square-foot building at 12641 Industry Street, and the 83,100 square-foot building at 12691 Pala Drive. In conjunction with this request, the applicant is also requesting approval of a Variance request to deviate from the thirty-five foot (35'-0") maximum building height limit of the M-P (Industrial Park) zone by two feet and two inches (2'-2"), and a Lot Line Adjustment request to relocate the property line between 12641 Industry Street and 12691 Pala Drive.

DISCUSSION:

On May 19, 2022, the Planning Commission held a public hearing to consider Site Plan No. SP-110-2022, Variance No. V-036-2022, and Lot Line Adjustment No. LLA-029-2022. At the meeting, no members of the public spoke about the project. The Planning Commission voted 3-1, with three commissioners absent, to keep the public hearing open, and to continue the item to the June 16th hearing date.

During the meeting, the Planning Commission directed Staff to analyze the trip generation, and any potential traffic impacts the project might have. Urban Crossroads, a traffic engineering firm, was retained by the applicant to do a traffic assessment based on the Planning Commission's directive. According to their findings, the existing building at 12691 Pala Drive currently generates an average of forty-four (44) daily trips, and using the ITE Trip Generation manual, the building at 12641 Industry Street is estimated to generate 116 daily trips (160 total daily

trips). The proposed building, to replace the two aforementioned buildings, is estimated to generate 374 daily trips, a 214 increase in daily trips.

During peak hours, the existing building at 12691 Pala Drive currently generates an average of six (6) A.M. peak-hour trips, and four (4) P.M. peak-hour trips. Again, using ITE standards, it was found that the existing building at 12641 Industry Street can be expected to generate ten (10) A.M. peak-hour trips, and twelve (12) P.M. peak-hour trips. Collectively, the two existing buildings are estimated to generate sixteen (16) A.M. peak-hour trips, and sixteen (16) P.M. peak-hour trips. The proposed building, is estimated to generate forty-six (46) A.M. peak-hour trips, and forty-three (43) P.M. peak-hour trips. This is a thirty (30) trip, and twenty-seven (27) trip increase, respectively, over the existing conditions. In neither case did the A.M. nor P.M. peak-hour trips increase more than fifty (50) trips, and therefore did not require further analysis, according to the City's Traffic Impact Analysis Guidelines.

	A.M. Peak	P.M. Peak	Daily Trips
12691 Pala Drive	6 trips	4 trips	44 trips
12641 Industry Street	10 trips	12 trips	116 trips
Proposed Building	46 trips	43 trips	374 trips

Additionally, the Planning Commission requested an assessment of the impacts that the project would have on the existing intersections near the project, particularly along Knott Avenue. Urban Crossroads identified and assessed six (6) intersections closest to the proposed project. After conducting traffic counts, it was revealed that only the Garden Grove Boulevard and Knott Avenue intersection has a current Level of Service (LOS) of F during P.M. peak hours. This is the only intersection identified with a deficient LOS. With the proposed building, and the estimated new trips generated, it is estimated that the Volume/Capacity ratio for said intersection would increase 0.006. This does not meet the threshold identified in the City's Traffic Impact Analysis Guidelines that would warrant any mitigation measures.

None of the other intersections studied had an existing LOS below acceptable levels. When the expected trips from the project were added to the existing LOS, none of the intersections saw an increase in the Volume/Capacity ratio of more than 0.01, or had the LOS decrease to unacceptable levels. Therefore, there are no expected decreases in the LOS at the studied intersections, as a result of the project.

City Staff, including the City's Traffic Engineer, have reviewed the traffic assessment, and concurred with the methodology used. Additionally, the Traffic Engineer, in accordance with the policies stated in the Traffic Impact Analysis Guidelines, concluded that no further assessment or mitigation measures would be required for the project. Urban Crossroad's report is appended for commissioner's review. No changes have been proposed to the Staff Report, Resolution, or Conditions of Approval related to the item from the May 19th Planning Commission meeting.

RECOMMENDATION:

Staff recommends that the Planning Commission take the following action:

 Adopt Resolution No. 6040-22 approving Site Plan No. SP-110-2022, Variance No. V-036-2022, and Lot Line Adjustment No. LLA-029-2022, subject to the recommended Conditions of Approval.

Lee Marino

Planning Services Manager

By: Priit Kaskla

Assistant Planner

Attachment 1: Planning Commission Staff Report dated May 19, 2022 Attachment 2: Initial Draft Planning Commission Resolution of Approval
Attachment 3: Exhibit "A" Conditions of Approval
Attachment 4: Traffic Assessment by Urban Crossroads

COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT STAFF REPORT

AGENDA ITEM NO.: C.3.	SITE LOCATION: West side of Pala Drive, North of Acacia Avenue, and West side of Industry Street, South of Lampson Avenue, at 12641 Industry Street and 12691 Pala Drive
HEARING DATE: May 19, 2022	GENERAL PLAN: Industrial (I)
CASE NOS.: Site Plan No. SP-110-2022,	ZONE: M-P (Industrial Park)
Variance No. V-036-2022, Lot Line	,
Adjustment No. LLA-029-2022	
PROPERTY OWNER: Prologis, L.P.,	CEQA DETERMINATION: Exempt: Section
ATTN: Eddie Pang	15302 - Replacement or Reconstruction
APPLICANT: Same as Owner	APN NOS.: 215-011-11 & 215-111-16

REQUEST:

The applicant is requesting Site Plan approval to build a new 149,335 gross square-foot industrial building, necessitating the demolition of the 65,880 square-foot building at 12641 Industry Street, and the 83,100 square-foot building at 12691 Pala Drive. In conjunction with this request, the applicant is also requesting approval of a Variance request to deviate from the thirty-five foot (35'-0") maximum building height limit of the M-P (Industrial Park) zone by two feet and two inches (2'-2"), and a Lot Line Adjustment request to relocate the property line between 12641 Industry Street and 12691 Pala Drive.

BACKGROUND:

The subject site is comprised of two (2) parcels, located at 12691 Pala Drive, and 12641 Industry Street, totaling 9.02 acres. The property at 12691 Pala Drive (Assessor's Parcel No. 215-011-11), on the west side of Pala Drive, north of Acacia Avenue, is currently improved with an 83,100 square-foot industrial building, originally constructed in 1973. The property at 12641 Industry Street (Assessor's Parcel No. 215-011-16), on the west side of Industry Street, south of Lampson Avenue, is currently improved with a 65,880 square-foot industrial building, and a 36,338 square-foot building (12601 Industry Street), both also constructed in 1973. Both properties have a General Plan Land Use designation of Industrial (I), and are zoned Industrial Park (M-P). The subject site abuts industrial uses on M-P zoned properties to the north, south, west, and east, across Pala Drive and Industry Street.

In 1969, the City considered Lot Split No. LS-102-69 for the subdivision of industrial properties in the M-P zone, south of Lampson Street. While the Lot Split was approved, it was not exercised. In 1973, Lot Split No. LS-109-73 was approved by the City to subdivide property to create the lot at 12601-12641 Industry Street, and to dedicate Industry Street itself. The buildings at 12691 Pala Drive and 12641 Industry Street were approved in 1973, with construction finalizing in 1974. Lot Split

No. LS-111-74 was also approved in 1974, adjusting the lot lines approved under LS-109-73. Lastly, in 1974, Conditional Use Permit No. CUP-107-74 was approved for a freestanding monument sign on the subject Industry Street property.

Both properties have a long history of being occupied by manufacturing uses. Both 12601 and 12641 Industry Street were most recently occupied by the same textile dyeing company until 2019. According to business license records, the building at 12691 Pala Drive was most recently occupied by a garment manufacturing company until early 2021. Consequently, all buildings have remained vacant since.

Now, the applicant is requesting to demolish the 83,100 square foot building at 12691 Pala Drive, and the 65,880 square foot building at 12641 Industry Street. The 36,338 square foot building at 12601 Industry Street will remain. A new 149,335 gross square-foot industrial building will be constructed in virtually the same location as the demolished buildings. A Variance is also requested to allow for the new building to exceed the maximum height permitted in the M-P zone by two feet and two inches (2'-2"). The purpose and intent of the project is to construct a singular, larger, contemporary building with taller interior ceiling heights, meeting the current market demand for industrial facilities. The applicant is also requesting to move the lot line that is currently between the two properties approximately 262'-0" to the north, such that the existing building at 12601 Industry Street would reside on its own parcel. A reciprocal access agreement will be recorded along the new property line to maintain circulation access for both properties.

PROJECT STATISTICS:

	New Building	Building to Remain	Municipal Code
Minimum Lot Size	304,049 sq. ft.	88,862 sq. ft.	15,000 sq. ft.
	(6.98 acres)	(2.04 acres)	(0.34 acres)
<u>Setbacks</u>			
Front (East)	20′-0″	20′-0″	10'-0"
Rear (West)	44'-0"	83′-0″	0'-0"
Side (North)	40′-0″	65′-0″	0'-0"
Side (South)	76′-3″	35′-2″	0'-0"
<u>Parking</u>	154 spaces	89 spaces	150 spaces (New)
	os spaces	73 spaces (Remaining)	
<u>Building Height</u>	*37′-2″	30′-0″	35'-0"
<u>Building Area</u>	149,335 sq. ft.	36,338 sq. ft.	N/A
Floor Area Ratio	0.49	0.41	1.0 Maximum
Landscaping Area	36,534 sq. ft. (11.97%)	8,932 sq. ft. (10.05%)	10%

^{*}Variance requested under V-036-2022

DISCUSSION:

SITE PLAN:

Site Design and Circulation

The project will consist of constructing a 149,335 gross square-foot industrial building on a 6.98-acre property. The industrial building will be located approximately in the center of the site, with parking and landscaping surrounding, and fronting toward both Pala Drive and Industry Street. The entirety of the street frontage along Pala Drive and Industry Street, save for driveway and pedestrian access points, will be landscaped.

The building features two entrances: one on the northeast corner, fronting Industry Street, and one on the southeast corner, fronting Pala Drive. At the Pala Drive entrance will be a 3,000 square-foot office area. Directly above that area is another 3,000 square-foot mezzanine office area. At the Industry Street entrance, on the northern side of the building, is another 2,000 square-foot office area. The remaining 141,335 square feet of the building will consist of open floor area. No tenant has been identified to date. All interior improvements, including any subdivision of the building, will be completed by the tenant(s) at a later date.

	1 st Floor	Mezzanine
<u>Office</u>	5,000 sq. ft.	3,000 sq. ft.
<u>Industrial Floor</u>	141,335 sq. ft.	

Vehicle traffic can access the site via two (2) new driveways on Pala Drive, or via two (2) new driveways on Industry Street. A two-way drive aisle provides the vehicular circulation on-site, wrapping around all sides of the building, connecting the four (4) driveways, and the truck docking area. The drive aisle also provides reciprocal access to the property directly to the north, at 12601 Industry Street. Standard parking spaces are provided along the north, south, and east sides of the proposed building. To the west, in the rear of the building, parallel parking spaces will be adjacent to the drive aisle. The City's Engineering Division has reviewed the on- and off-site vehicle circulation, and has not raised any concerns with the project design.

A single row of eighteen (18) truck bays will flank the eastern side of the building, between the two main entrances. The docking bays connect directly into the open floor area, toward the center of the building. Outside, a truck turn-around and parking area is provided adjacent to the loading bays. Primary access to the trucking area will be provided from Pala Drive, to the south, but secondary access is also provided from Industry Street.

The design of the building will also provide new pedestrian access from both Pala Drive and Industry Street. The accessible path-of-travel from Pala Drive will cross the drive aisle before reaching the southern entrance of the building. Access from Industry Street will pass through a landscaped area before reaching the north entrance of the building. This pedestrian access also connects to the accessible

parking spaces in the parking lot. Bicycle parking will also be provided near the entrances of the building.

Parking and Traffic

Parking requirements from Municipal Code Section 9.16.040.150.D. for "Industrial Uses" stipulate one (1) parking space 'is required per 1,000 square feet of gross floor area for buildings in excess of 100,000 square feet. Incidental offices associated with the industrial use that do not exceed 30% of the gross floor area do not require additional parking.

The proposed building is approximately 149,335 square feet in size. Of that floor area, the office space totals approximately 8,000 square feet, or approximately 5% of the gross floor area. This does not exceed 30% of the gross floor area, and therefore does not require additional parking. In total, 150 parking spaces are required for the use (149,335 sq. ft. / 1,000). The subject site provides 154 striped parking spaces, a surplus of four (4) spaces.

The building at 12601 Industry Street is approximately 36,338 square feet. Parking standards for an industrial use of that size requires two (2) parking spaces per 1,000 square feet of gross floor area. Only 4,791 square feet of the gross floor area is dedicated to office use, or 13.2%. This does not exceed 30% of the gross floor area, and therefore does not require additional parking. In total, 73 parking spaces are required for the use $((36,338 \text{ sq. ft.} / 1,000) \times 2)$. The subject site provides 89 striped parking spaces, a surplus of sixteen (16) spaces.

Landscaping

The M-P zone requires a minimum of 10% of the total site area to be dedicated for landscaping. The proposed site design will provide a total of approximately 36,534 square feet of landscaping on-site (11.97% of the overall site). This meets the Code requirement. The landscaping is provided in a variety of areas across the site, including adjacent to the parking areas so as to limit their visual impacts. The on-site landscaping design will consist of a mixture of trees, shrubs, and groundcover.

Furthermore, the M-P zone requires a minimum ten-foot (10'-0'') landscaped setback along all non-arterial street frontages, excluding the driveway access points. Neither Industry Street nor Pala Drive have been identified as arterial streets. The entirety of the street frontages along Pala Drive and Industry Street are landscaped, with a minimum dimension of twenty feet (20'-0'') wide. Additionally, one (1) tree must be provided for every thirty feet (30'-0'') of street frontage. In the parking lot, a minimum of one (1) tree is required for every ten (10) parking spaces. The proposed project complies with both tree planting requirements.

The applicant is required to submit a landscape and irrigation plan to the City that complies with the landscaping requirements of Title 9 of the Municipal Code, including the Landscape Water Efficiency Guidelines. All landscaping shall be watered by means of an automatic irrigation system meeting the City's Landscape Water

Efficiency Guideline requirements. A separate landscape application will be submitted, and a building permit will be obtained for the proposed landscaping.

Building Architecture

Characterized by a rectangular footprint, flat roof, and large, vertical windows accentuating the corners of the building, the building takes on a contemporary design. The main entrances in the corners of the buildings feature vertical windows and storefronts glazed in green hues. Additional windows will be added above the loading bays, helping illuminate the interior of the building, and helping to add contrast against the concrete walls. A parapet, with a simple decorative coping will encircle the roof on all sides.

At the highest point, the roof stands approximately thirty-seven feet (37'-2") tall, above the maximum allowable building height of thirty-five feet (35'-0") for the M-P zone. As a result, a Variance is requested, and discussed below. The building parapet extends to a maximum height of forty-two feet (42'-0") at the highest point. The Municipal Code allows for architectural features that do not add usable square footage, like a parapet, to extend up to fifteen feet (15'-0") beyond the maximum building height, up to a maximum building height of fifty feet (50'-0").

The building will be constructed in a tilt-up concrete style. Various scores in the concrete walls, and various paint colors add visual intrigue. The neutral color scheme consists of shades of white, grey, and green colors, which contributes to the building's contemporary design. Window and door trim are all constructed of metal, trimmed black to add contrast. The building design and color is similar to other Prologis industrial buildings found nationwide.

VARIANCE:

The applicant is requesting consideration of a Variance from Section 9.16.040.030 (Industrial—General Requirements) of Title 9 of the Municipal Code for a deviation to the maximum building height permitted in the M-P (Industrial Park) zone. The maximum building height permitted in the M-P zone is thirty-five feet (35′-0″). The topmost portion of the roof, as measured from average finished grade, will be 37′-2.″ The roof will slope downwards to lower building heights to accommodate roof drainage. The topmost portion of the roof parapet will be 42′-0″. The Municipal Code allows for parapets to extend up to fifteen feet (15′-0″) beyond the maximum building height, up to fifty feet (50′-0″). Therefore, the parapet does not require a Variance. Only a Variance for the roof height will be considered.

Pursuant Garden Grove Municipal Code Section 9.32.030.D.6, in order to grant a property owner's request for a Variance, the Planning Commission must make each of the following five (5) findings:

1. That there are exceptional or extraordinary circumstances or conditions applicable to the property involved or to the intended use or development of the property that do not apply generally to other property in the same zone or neighborhood.

Approval of this Variance will allow the project to deviate from the maximum building height of thirty-five feet (35′-0″) in the M-P (Industrial Park) zone by two feet and two inches (2′-2″), in order to facilitate the construction of the new building. With exception to the requested Variance, the project meets all other Municipal Code development standards such as, but not limited to, building setbacks, parking, and landscaping. There are exceptional or extraordinary circumstances or conditions applicable to the property involved that do not apply generally to other similar properties in the immediate vicinity, within the same zone, or other similarly zoned properties throughout the City.

The subject site is surrounded and constrained by previously developed properties to the north, west, and south. To accommodate the edge conditions created by the presence of these existing developments, the proposed elevations adjacent to the building in the northwest and southeast corners are lower to accommodate the positive flow of stormwater to the existing and proposed drainage inlets. Building height is measured from the average level of the building at grade. By lowering the adjacent grade, the average level of the building was also lowered, creating a taller measurement to the top of the building roof. This drainage condition coupled with the calculation process for determining building height, results in a building height that is measured slightly higher than the existing buildings.

Furthermore, increased building heights lead to more vertical racking, enhanced fire sprinkler systems, and more expansive commodity storage types, which may attract high quality tenants in the community. The current market demand for industrial buildings is calling for minimum interior ceiling height clearances of thirty-two feet (32'-0"), taller than buildings built in the past. Vertical expansion is favored over horizontal, resulting in the need for taller buildings to meet vertical racking space requirements. This provides sufficient space for the minimum standard vertical racking systems, as well as meeting storage capacity needs. The additional building height requested of two feet and two inches (2'-2") provides for five feet and two inches (5'-2") of space to accommodate fire sprinkler suppression system requirements, as well as all necessary structural building requirements.

Lastly, the property is irregularly shaped, with frontages along two culs-de-sac at Pala Drive and Industry Street. Some of the lot area are triangular slivers, and generally unusable space adjacent to the cul-de-sacs. This effectively reduces the usable area of the lot, preventing a larger building footprint. Horizontal expansion, with a larger building footprint is unfeasible. The most feasible option is to add vertical capacity, resulting in a taller building.

2. That such Variance is necessary for the preservation and enjoyment of a substantial property right possessed by other property in the same vicinity and zone, but which is denied to the subject property.

Approval of this Variance will allow the project to deviate from the maximum building height of thirty-five feet (35'-0") in the M-P (Industrial Park) zone by two

feet and two inches (2'-2"), in order to facilitate the construction of the new building. With exception to the requested Variance, the project meets all other Municipal Code development standards such as, but not limited to, building setbacks, parking, and landscaping. Other properties within immediate vicinity of the subject lot, and within other similarly zoned properties throughout the City, have existing similar type buildings that exceed the maximum thirty-five foot (35'-0") building height allowed M-P zone.

Within the vicinity of the subject lot, an industrial building located at 12821 Knott Street, which is a similarly zoned property (Industrial Planned Unit Development), provides a building height of thirty-nine feet (39'-0") to the top of the roof, and forty feet (40'-0") to the top of the parapet, exceeding the thirty-five foot (35'-0") building height requirement found in the M-P zone. Another building at 12752 Monarch Street was granted a Variance (V-033-2021) in May 2021 to allow for a building height of approximately thirty-seven feet (36'-9"). This property is also located in the same neighborhood and zoning district as the subject property.

Accordingly, approval of the proposed Variance will not set a precedent, and will allow the applicant to enjoy a substantial property right possessed by other property owners located in the M-P zone, and other similar zoned properties in the City. With exception to the requested Variance to deviate from the maximum building height limitation, the proposed project complies with all other development standards of the M-P zone.

3. That the granting of a Variance will not be materially detrimental to the public welfare or injurious to the property or improvements in such zone or neighborhood in which the property is located.

Approval of this Variance will allow the project to deviate from the maximum building height of thirty-five feet (35'-0") in the M-P (Industrial Park) zone, in order to facilitate the construction of the new building. The approval of this Variance will allow a 37'-2" building height (to the topmost portion of the roof), which is slightly more than two feet (2'-2") above the maximum building height of thirty-five feet (35'-0") allowed in the M-P zone.

The Variance will not affect surrounding properties, which are developed with existing industrial uses. The subject lot is not within close proximity to sensitive uses (e.g., residential, schools, parks). Other properties within the vicinity of the subject lot, and within other similar zoned properties throughout the City, have existing similar type buildings that exceed the maximum building height of the M-P zone. Nearby, an industrial building located at 12821 Knott Street, which is a similar zoned property (Industrial Planned Unit Development), provides a building height of thirty-nine feet (39'-0") to the top of the roof, and forty feet (40'-0") to the top of the parapet, exceeding the thirty-five foot (35'-0") building height requirement found in the M-P zone. Another building at 12752 Monarch Street was granted a Variance (V-033-2021) in May 2021 to allow for a building height of approximately thirty-seven feet (36'-9").

The project will be required to comply with all applicable building, and life-safety codes and regulations to ensure that there are no adverse impacts on public health, safety, or welfare. Furthermore, the proposal has been reviewed by all City departments in order to ensure compliance with all applicable Municipal Code provisions. Provided the project complies with the Conditions of Approval, the approval of the Variance will not be materially detrimental to the public welfare or injurious to the property or improvements in such zone or neighborhood in which the property is located.

4. That the granting of such Variance will not adversely affect the City's General Plan.

The General Plan does not explicitly impose a building height limitation. Therefore, the proposed building height Variance will not adversely affect the General Plan.

The Industrial (I) General Plan Land Use Designation is intended to create, maintain, and enhance industrial areas characterized by general industrial uses, such as warehousing and distribution or business parks, and more intensive industrial uses, such manufacturing, fabrication, assembly, processing, trucking, warehousing and distribution, and servicing. The proposed building is consistent with the intent of the Industrial Land Use Designation. Specifically, the project meets the intent of the general plan by furthering the following General Plan goals, policies, and implementation programs:

Goal LU-7: The City values its industrial areas as an important contributor to a well-planned community and for the jobs and economic impacts they provide. The proposed project will replace the existing buildings with a contemporary building that meets the needs of the current industrial market by providing increased vertical racking space for additional interior storage capacity. The proposed project will ensure that the City maintains healthy and competitive industrial areas contributing to a well-planned and well-maintained community.

Implementation Program LU-IMP-7B: Require improved maintenance and rehabilitation of industrial buildings and sites, as necessary. The project Conditions of Approval will remain in perpetuity for the life of the development. The Conditions of Approval will help ensure that the property is well-maintained, and will not be detrimental to the surrounding neighborhood in which the property is located. Additionally, the project proposes enhanced exterior elevations which are aesthetically pleasing, which can foster further investments in high quality, contemporary industrial areas around the community.

The proposed project will be consistent with the spirit and intent of the General Plan, furthering its goals, policies, and implementation programs. The project would also help meet the community's need for competitive industrial facilities in its industrial zoned areas. Therefore, the granting of the requested Variance will not adversely affect the City's General Plan.

5. That approval of the Variance is subject to such conditions as will assure that it does not constitute a grant of special privileges inconsistent with the limitations upon other properties in the vicinity and zone in which the subject property is situated.

Provided the Conditions of Approval are adhered to for the life of the project, approval of the subject Variance will not grant a special privilege that is inconsistent with the limitations upon other properties located within the vicinity or zone in which the subject property is situated.

To construct the proposed building, the Variance to deviate from the maximum building height of thirty-five feet (35'-0") allowed in the M-P (Industrial Park) zone is necessary to facilitate the development and improvement of the property, which otherwise meets all other Municipal Code development standards. This includes, but is not limited to, building setbacks, parking, and landscaping. Other properties within the immediate area of the subject lot, and within other similarly zoned properties throughout the City, have existing similar type buildings that exceed the maximum thirty-five foot (35'-0") building height allowed M-P zone.

Within the immediate vicinity of the subject site, an industrial building located at 12821 Knott Street, which is a similarly zoned property (Industrial Planned Unit Development) provides a building height of thirty-nine feet (39'-0") to the top of the roof, and forty feet (40'-0") to the top of the parapet, which exceeds the building height requirement of the M-P zone. A Variance (V-033-2021) was more recently granted for the redevelopment of an industrial building located 12752 Monarch Street, providing for a maximum building height of approximately thirty-seven feet (36'-9").

Accordingly, approval of the proposed Variance will not grant a special privilege that is inconsistent with the limitations upon other property owners located in the Industrial Park and other similar zoned properties in the City. With exception to the requested Variance to deviate from the maximum building height limitation, the proposed project complies with all other development standards of the M-P zone.

The industrial building market has evolved over the past years to necessitate a greater interior ceiling height. Current market demands are calling for a minimum thirty-two foot (32′-0″) interior ceiling height to provide increased operations and storage capacity. Increased building heights lead to more vertical racking, enhanced fire sprinkler systems, and more expansive commodity storage types, which attract high quality tenants. Property acquisition in a built-out community to accommodate horizontal expansion is impractical, and the proposed project is otherwise consistent with the standards and intent of the M-P (Industrial Park) zone. Conditions applicable to the subject property and its intended development do not readily apply to other property in similar zones, the same zone, and neighborhood. Accordingly, approval of the proposed Variance will not set a precedent, and will allow the applicant to enjoy a substantial property right possessed by other property owners located in similar properties in the City.

In addition, Condition of Approval No. 84 states, "The rights granted the applicant pursuant to Variance No. V-036-2022 shall continue in effect for only so long as the improvements authorized and contemplated by Site Plan No. SP-110-2022, and these Conditions of Approval (as they may be amended from time to time) continue to exist on the Site. In the event that that Site Plan No. SP-110-2022 is not exercised within one year of approval (or the length of any extension approved by the City), or the improvements authorized and contemplated by Site Plan No. SP-110-2022 are demolished and not re-established within one year of demolition, Variance No. V-036-2022 shall cease to be effective or grant the applicant any rights to construct other improvements inconsistent with the then-currently applicable development standards."

Staff believes the record contains sufficient facts to support approval of the applicant's Variance request. Accordingly, Staff has prepared for the Commission's consideration a draft resolution approving the proposed Variance request, in conjunction with the Site Plan and Lot Line Adjustment requests, subject to the specified Conditions of Approval.

LOT LINE ADJUSTMENT:

Currently, the buildings at 12691 Pala Drive, and 12641 Industry Street are conjoined, with no direct access, and separated by a property line. To accommodate the new building, this property line will be moved approximately 262'-0" to the north. The new property line will reside in the drive aisle between the new building, and the existing building at 12601 Industry Street.

As a result of the lot line adjustment, the subject site with the new building will ultimately total 6.98 acres. The property at 12601 Industry Street will ultimately consist of 2.04 acres. Both new properties meet the minimum 15,000 square-foot lot sizes required in the M-P zone. After the Lot Line Adjustment, both the new and existing buildings will comply with the development standards pertaining to the M-P zone, save for the requested Variance.

Lastly, a new driveway and vehicle access aisle will be provided along the new lot line between the two subject parcels. The drive aisle will provide access to both the new building to the south, and the existing building to the north. A reciprocal easement agreement, or equivalent agreement, will be recorded between the two properties to maintain access to the properties in perpetuity. The project has been conditioned as such.

CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEOA):

CEQA's Class 2 exemption applies to replacement or reconstruction of existing structures (CEQA Guidelines §15302.). A project can qualify for a Class 2 exemption if a commercial building is replaced with a new structure of substantially the same size, purpose, and capacity (CEQA Guidelines §15302.).

The project involves the demolition of a 65,880 square-foot industrial building at 12641 Industry Street, and an 83,100 square-foot industrial building at 12691 Pala Drive. The two buildings are currently adjoined, and compose a singular 148,980 square-foot structure. The project will replace the existing two buildings with an industrial building with a 146,335 square-foot footprint. By replacing a 148,980 square-foot industrial building with another industrial building of a slightly smaller footprint, the project replaces a commercial building with a new structure of substantially the same size, purpose, and capacity. It can be determined that the project can be exempted from further CEQA action under the Class 2 exemption.

RECOMMENDATION:

Staff recommends that the Planning Commission take the following action:

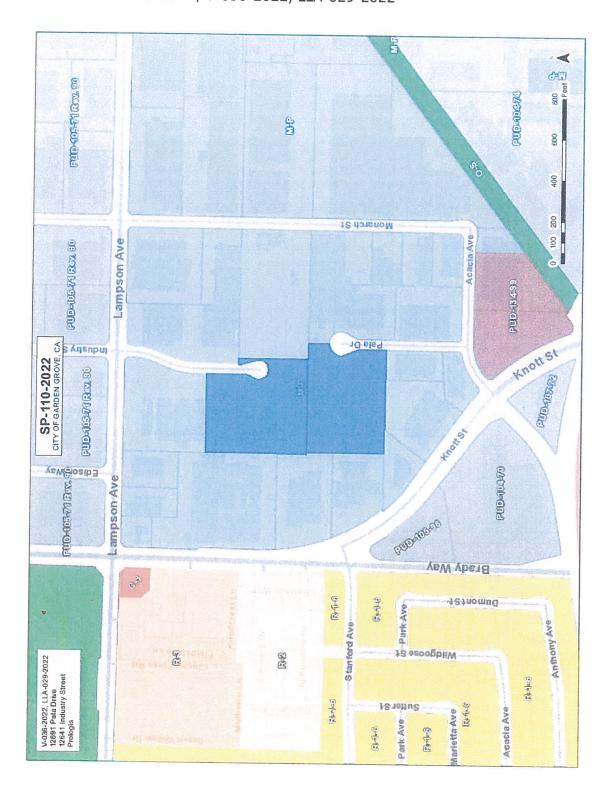
 Adopt Resolution No. 6040-22 approving Site Plan No. SP-110-2022, Variance No. V-036-2022, and Lot Line Adjustment No. LLA-029-2022, subject to the recommended Conditions of Approval.

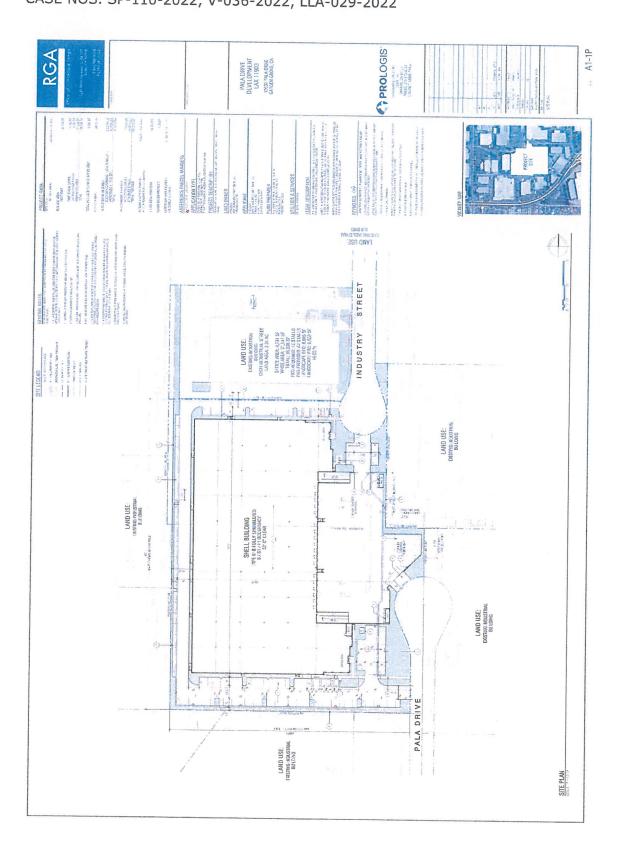
Lee Marino

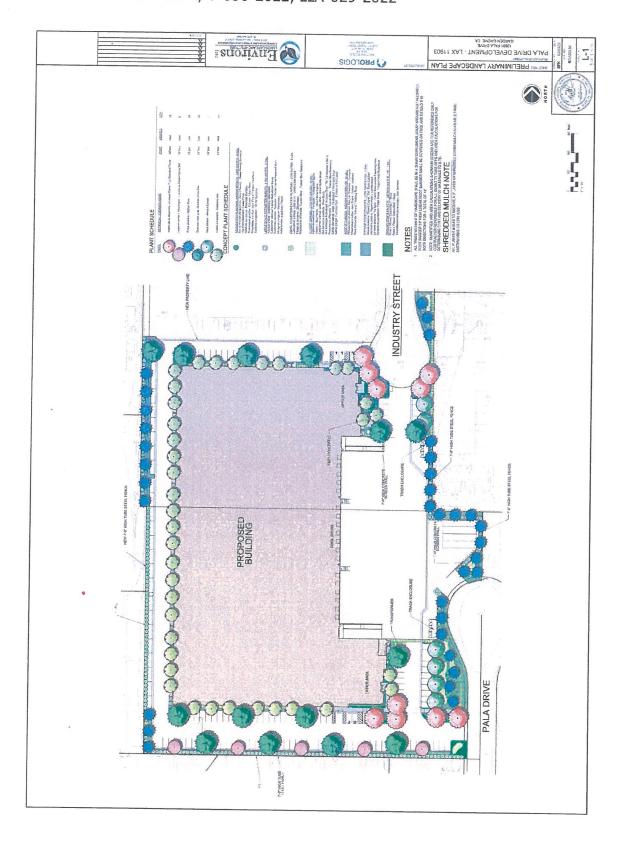
Planning Services Manager

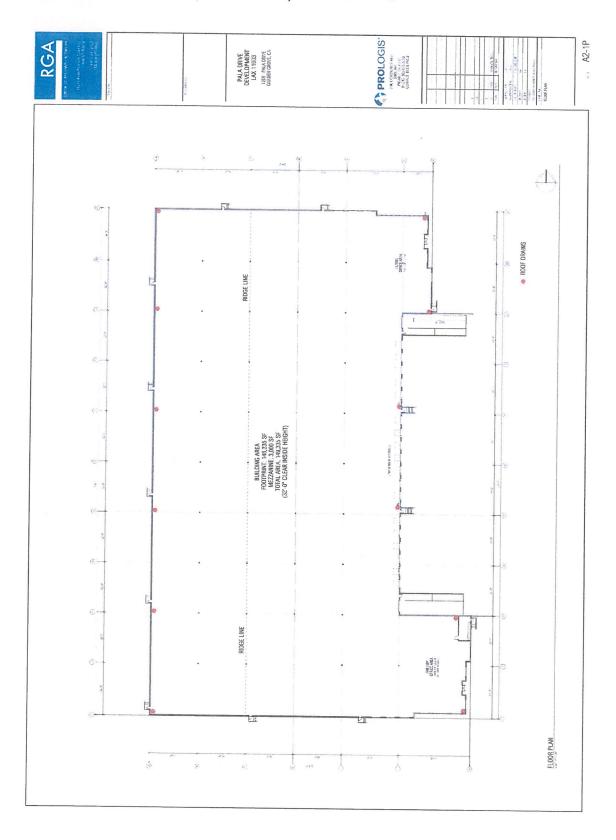
By: Priit Kaskla

Assistant Planner

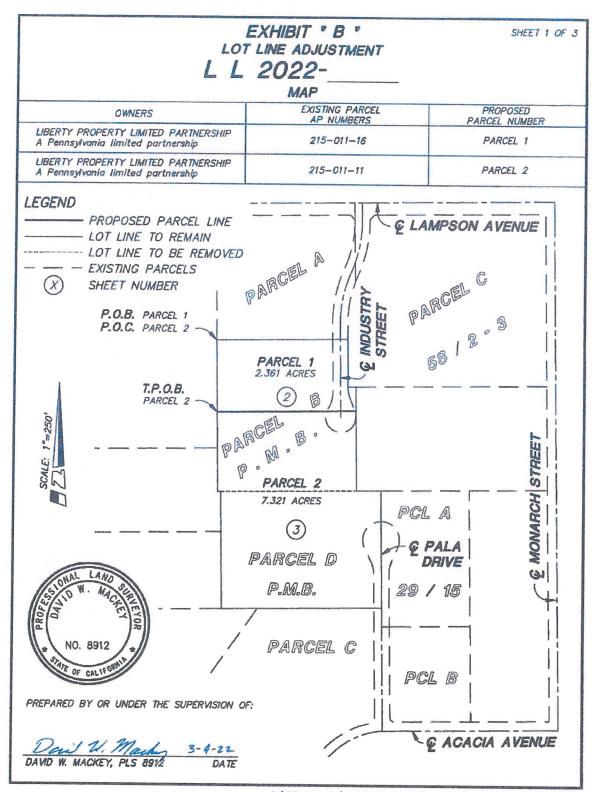




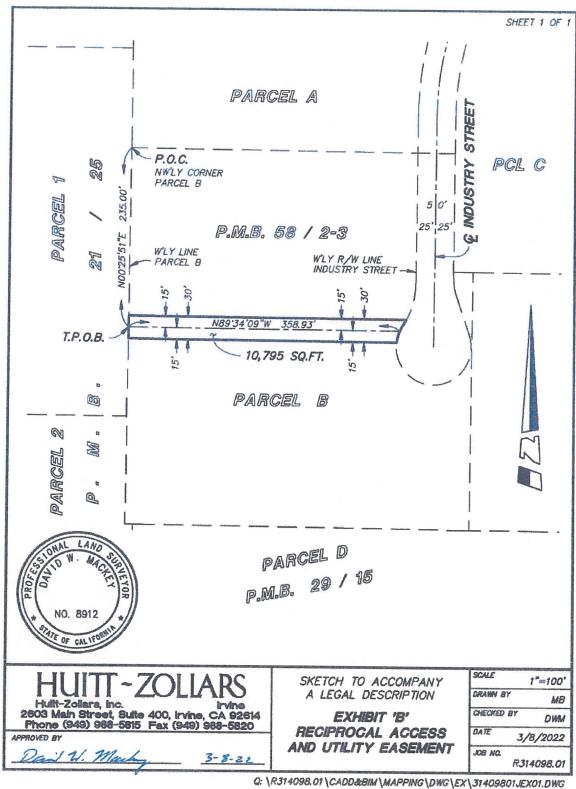








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RESOLUTION NO. 6040-22

A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF GARDEN GROVE APPROVING SITE PLAN NO. SP-110-2022, VARIANCE NO. V-036-2022, AND LOT LINE ADJUSTMENT NO. LLA-029-2022 FOR PROPERTIES LOCATED ON THE WEST SIDE OF PALA DRIVE, NORTH OF ACACIA AVENUE, AND THE WEST SIDE OF INDUSTRY STREET, SOUTH OF LAMPSON AVENUE, AT 12691 PALA DRIVE AND 12641 INDUSTRY STREET, ASSESSOR'S PARCEL NOS. 215-011-11 AND 215-011-16.

BE IT RESOLVED that the Planning Commission of the City of Garden Grove, in regular session assembled on May 19, 2022, does hereby approve Site Plan No. SP-110-2022, Variance No. V-036-2022, and Lot Line Adjustment No. LLA-029-2022, for land located on the west side of Pala Drive, north of Acacia Avenue, and the west side of Industry street, south of Lampson avenue, at 12691 Pala Drive and 12641 Industry Street, Assessor's Parcel No. 215-011-11 and 215-011-16, subject to the Conditions of Approval attached hereto as "Exhibit A."

BE IT FURTHER RESOLVED in the matter of Site Plan No. SP-110-2022, Variance No. V-036-2022, and Lot Line Adjustment No. LLA-029-2022, the Planning Commission of the City of Garden Grove does hereby report as follows:

- 1. The subject case was initiated by Eddie Pang of Prologis, L.P. (the "Applicant").
- 2. The applicant is requesting Site Plan approval to build a new 149,335 gross square-foot industrial building, necessitating the demolition of the 65,880 square-foot building at 12641 Industry Street, and the 83,100 square-foot building at 12691 Pala Drive. In conjunction with this request, the applicant is also requesting a Variance request to deviate from the thirty-five foot (35'-0") maximum building height requirement of the M-P (Industrial Park) zone by two feet and two inches (2'-2"), and a Lot Line Adjustment request to relocate the property line between 12641 Industry Street and 12691 Pala Drive (collectively, the "Project").
- 3. The Planning Commission hereby determines that this project is categorically exempt from review under the California Environmental Quality Act ("CEQA") pursuant to Section 15302, Replacement or Reconstruction Projects of the CEQA Guidelines (14 Cal. Code Regs., 15302).
- 4. The property has a General Plan Land Use designation of Industrial (I), and is currently zoned Industrial Park (M-P). The subject site is currently improved with three industrial buildings across two parcels, comprising 9.02 acres.
- 5. Existing land use, zoning, and General Plan designation of property within the vicinity of the subject property have been reviewed.
- 6. Report submitted by City Staff was reviewed.

- 7. Pursuant to a legal notice, a public hearing was held on May 19, 2022, and interested persons were given an opportunity to be heard.
- 8. The Planning Commission gave due and careful consideration to the matter during its meeting of May 19, 2022, and considered all oral and written testimony presented regarding the project.

BE IT FURTHER RESOLVED, FOUND AND DETERMINED that the facts and reasons supporting the conclusion of the Planning Commission, as required under Municipal Code Section 9.32.30, are as follows:

FACTS:

The subject site is comprised of two (2) properties, across approximately 9.02 acres, located on the west side of Pala Drive, north of Acacia Avenue, and the west side of Industry Street, south of Lampson Avenue, at 12691 Pala Drive and 12641 Industry Street, respectively. The site has a General Plan Land Use designation of Industrial (I), and is zoned Industrial Park (M-P). The property at 12691 Pala Drive (Assessor's Parcel No. 215-011-11), is currently improved with a 65,800 square-foot industrial building. The property at 12641 Industry Street (Assessor's Parcel No. 215-011-16), is currently improved with an 83,100 square-foot industrial building, and a 36,338 square-foot building (12601 Industry Street). The buildings at 12691 Pala Drive, 12601 Industry Street, and 12641 Industry Street are currently unoccupied. The subject site abuts M-P zoned properties on all sides.

Now, the applicant is requesting to demolish the buildings at 12691 Pala Drive and 12641 Industry Street. The building at 12601 Industry Street is to remain. A new 149,335 gross square-foot industrial building will be constructed in virtually the same location as the existing buildings. The building features two entrances: one fronting Industry Street, and one fronting Pala Drive. At the Pala Drive entrance will be a 3,000 square-foot office area, and a 3,000 square-foot mezzanine office above. At the Industry Street entrance is another 2,000 square-foot office area. The remaining 141,335 square feet of the building will consist of open floor area.

Vehicle traffic can access the site via two (2) new driveways on Pala Drive, or two (2) new driveways on Industry Street. A drive aisle provides the vehicular circulation on-site, wrapping around all sides of the building, connecting the four (4) driveways, and the truck docking area. The drive aisle also provides reciprocal access to the property directly to the north, at 12601 Industry Street. Vehicular parking spaces are provided along all sides of the proposed building. Pedestrian access will also be provided from Pala Drive and Industry Street, with bicycle parking at both entrances.

The Municipal Code requires one (1) parking space per 1,000 square feet of gross floor area for industrial uses in excess of 100,000 square feet. Incidental offices

associated with the industrial use that do not exceed 30% of the gross floor area do not require additional parking. The proposed building is approximately 149,335 square feet in size. The total office space does not exceed 30% of the gross floor area, and therefore does not require additional parking. In total, 150 parking spaces are required for the use. The subject site provides 154 parking spaces, a surplus of four (4) parking spaces. Based on the parking requirements of the Municipal Code, the building at 12601 Industry Street requires 73 parking spaces, and provides 89, a sixteen (16) space surplus.

The M-P zone requires a minimum of 10% of the total site area to be dedicated to landscaping. The proposed site design will provide a total of approximately 36,534 square feet of landscaping (11.97% of the overall site). Furthermore, the M-P zone requires a minimum ten-foot (10'-0'') landscaped setback along all non-arterial street frontages, excluding the driveway access points. The entirety of the street frontages along Pala Drive and Industry Street are landscaped, with a minimum dimension of twenty feet (20'-0'') wide. Additionally, one (1) tree must be planted along every thirty feet (30'-0'') of street frontage. In the parking lot, a minimum of one (1) tree is required for every ten (10) parking spaces. The proposed project complies with all landscaping requirements.

Characterized by a rectangular footprint, flat roof, and large, vertical windows accentuating the corners of the building, the building takes on a contemporary design. The building will be constructed in a tilt-up concrete style. Various scores in the concrete walls, and various paint colors add visual intrigue. The main entrances in the corners of the buildings feature vertical windows and storefronts glazed in green hues. Additional windows will be added above the loading bays, helping illuminate the interior of the building, and helping to add contrast against the concrete walls. The neutral color scheme consists of shades of white, grey, and green colors, which contributes to the building's contemporary design. Window and door trim are all constructed of metal, trimmed black to add contrast.

A Variance is also requested to allow for the new building to exceed the maximum height permitted in the M-P zone by two feet and two inches (2'-2"). The applicant is also requesting to move the lot line that is currently between the two properties approximately 262'-0" to the north, such that the existing building at 12601 Industry Street would reside on its own parcel. A reciprocal access agreement will be recorded along the new property line to maintain circulation access for both properties.

FINDINGS AND REASONS:

Site Plan:

1. The Site Plan complies with the spirit and intent of the provisions, conditions and requirements of Title 9 and is consistent with the General Plan.

The General Plan Land Use Designation of the subject site is Industrial (I), which is intended to encourage general industrial uses, such as warehousing and distribution or business parks, and more intensive industrial uses, such manufacturing, fabrication, assembly, processing, trucking, warehousing and distribution, and servicing. The Industrial Park (M-P) zoning implements the General Plan, and is intended to provide for modern industrial, research and administrative facilities by requiring comprehensive planning of large parcels of land and the coordination of building design and locations. Goals, policies, and implementation programs of the General Plan strive, in part, to:

Goal LU-1: The City of Garden Grove is a well-planned community with sufficient land uses and intensities to meet the needs of anticipated growth and achieve the community's vision. The existing buildings were constructed in 1973. In the years since, the industry standards for industrial-type uses have changed. The new building would accommodate these new industry standards with more truck bays, higher interior ceilings, and a large, open floor area. By accommodating current market demands, it helps the City to be a more economically viable destination for industrial uses into the foreseeable future.

Goal LU-4: The City seeks to develop uses that are compatible with one another. The proposed industrial building is located in an existing industrial area. Various industrial uses, including manufacturing, distribution, and storage/warehousing facilities, abut the subject property on all sides. The siting of the proposed industrial use will continue the development patterns of the immediate surroundings.

Policy LU-4.5: Require that the commercial and industrial developments adjoining residential uses be adequately screened and buffered from residential areas. The subject property is not directly adjacent to residential uses. The design of the proposed building, however, has taken into account any impacts on the vicinity, and has therefore proposed landscaping, and other visual screening methods to limit any impacts of the building.

Policy LU-5.1: Work with property owners of vacant property to develop their sites into appropriate, economically viable projects. The existing buildings on the subject site have both been vacant since 2021, according to Business License records. By constructing a new building, and introducing a new use, the proposed project could redevelop an unoccupied property into a more economically viable use.

Policy LU-7.3: Monitor the appearance of industrial properties to prevent areas of decline by requiring improved maintenance or rehabilitation, as necessary. The proposed project will redevelop the entirety of the subject site. As a brand new construction, the project would rid the site of potential

property maintenance issues involved with the existing buildings. Furthermore, the Conditions of Approval associated with the project will require the proper maintenance of the development, including, but not limited to, maintenance of landscaping, trash disposal, and graffiti abatement.

2. The project will not adversely affect essential on-site facilities such as off-street parking, loading and unloading areas, traffic circulation, and points of vehicular and pedestrian access.

Vehicle traffic can access the site from either Pala Drive via two (2) new driveways, or Industry Street via two (2) new driveways. A drive aisle provides the vehicular circulation on-site, wrapping around all sides of the building and connecting the four (4) driveways, and the truck docking area. The drive aisle also provides reciprocal access to the property directly to the north, at 12601 Industry Street. Standard parking spaces are provided along the north, south, and east sides of the proposed building. To the west, in the rear of the building, parallel parking spaces will be adjacent to the drive aisle. The City's Engineering Division has reviewed the on- and off-site vehicle circulation, and has not raised any concerns with the project design.

A row of eighteen (18) truck bays will flank the eastern side of the building, between the two entrances. The docking bays connect directly into the open floor area, toward the center of the building. Outside, a truck turn-around and parking area is provided adjacent to the loading bays. The main entrance to the trucking area will be provided from Pala Drive, to the south, but secondary access is also provided from Industry Street.

The design of the building will also provide new pedestrian access from both Pala Drive and Industry Street. The accessible path of travel from Pala Drive will cross the drive aisle before reaching the southern entrance of the storage building. Access from Industry Street will pass through a landscaped area before reaching the north entrance of the building. This pedestrian access also connects to the accessible parking spaces in the parking lot. Bicycle parking will also be provided near the entrances of the building.

Parking requirements from Municipal Code Section 9.16.040.150.D. for "Industrial Uses" stipulate one (1) parking space per 1,000 square feet of gross floor area for buildings in excess of 100,000 square feet. Incidental offices associated with the industrial use that do not exceed 30% of the gross floor area do not require additional parking.

The proposed building is approximately 149,335 square feet in size, requiring 150 parking spaces. Of that, the office space totals approximately 8,000 square feet, or approximately 5% of the gross floor area. This does not

exceed 30% of the gross floor area, and therefore does not require additional parking. Therefore, 150 parking spaces are required for the use. The subject site provides 154 striped parking spaces, a surplus of four (4) spaces.

The building at 12601 Industry Street is approximately 36,338 square feet. Parking standards for an industrial use of that size requires two (2) parking spaces per 1,000 square feet of gross floor area. Only 4,791 square feet of the gross floor area is dedicated to office use, or 13.2%. This does not exceed 30% of the gross floor area, and therefore does not require additional parking. In total, 73 parking spaces are required for the use. The subject site provides 89 striped parking spaces, a surplus of sixteen (16) spaces.

The Community and Economic Development Department, and the Engineering Division, have reviewed the plans and all appropriate conditions of approval and mitigation measures have been incorporated to minimize any adverse impacts on surrounding streets. Accordingly, the design of the project will not adversely affect essential on-site facilities such as off-street parking, loading and unloading areas, traffic circulation, and vehicular and pedestrian access.

3. The project will not adversely affect essential public facilities such as streets and alleys, utilities and drainage channels.

The streets in the area are adequate to accommodate the development. Existing utilities and drainage channels in the area are adequate to accommodate the development. The proposed development will install and maintain landscaping, allowing adequate drainage of stormwater. Landscaping will also be added along the street frontages of Pala Drive and Industry Street. A preliminary water quality management plan (WQMP) has been reviewed and approved by the Engineering Division. The Public Works Department has reviewed the project, and has incorporated all of the appropriate conditions of approval to minimize any adverse impacts.

4. The project will not adversely impact the Public Works Department's ability to perform its required function.

The Public Works Department has reviewed the project, and has incorporated all of the appropriate conditions of approval to minimize any adverse impacts to ensure the project will not adversely impact the Public Works Department's ability to perform its required function(s).

5. The project is compatible with the physical, functional, and visual quality of the neighboring uses and desirable neighborhood characteristics.

The subject properties are located in an area that is adjacent to Industrial Park (M-P) zoned properties in all directions.

The proposed development would improve a currently unoccupied property, making it more compatible with the surrounding neighborhood. Architecturally, the facility has been designed with facades to be aesthetically complimentary with the surrounding industrial buildings. A variety of colors, materials, and massing help create visual intrigue. Contemporary architectural styles are compatible with the nearby industrial uses.

The proposed building will provide adequate parking, vehicular and pedestrian circulation for access to and from the site, and new landscaping. The architecture and design of the project will be of sufficiently high quality, consistent with developments elsewhere in the surrounding industrial area.

The project has been designed in accordance with the development standards applicable to the M-P zone. With exception to the requested Variance, the project meets all other Municipal Code development standards, such as, but not limited to: building setbacks, parking, and landscaping. The City's Community and Economic Development Department has reviewed the proposed project, and all appropriate conditions of approval have been incorporated to ensure physical, functional, and visual compatibility with the project's surroundings.

6. Through the planning and design of buildings and building placement, the provision of open space landscaping and other site amenities will attain an attractive environment for the occupants of the property.

The proposed building will provide adequate parking, vehicular and pedestrian circulation for access to and from the site, and new landscaping. The architecture and design of the building will be of sufficiently high quality, consistent with the industrial buildings nearby.

The new building will be situated toward the center of the lot, with setbacks of forty feet (40′-0″) to the northerly property line, forty-four feet (44′-0″) to the westerly property line, approximately seventy-six feet (76′-3″) to the southerly property line, and a minimum of twenty feet (20′-0″) to the easterly property line along Pala Drive and Industry Street. Landscape planters will be provided along the perimeter of the site to ensure adequate buffering of any potential noise and light/glare impacts. A total of 36,534 square feet of landscaping will be provided on-site.

The City's Community and Economic Development Department has reviewed the proposed project, and all appropriate conditions of approval have been

incorporated to ensure the attractiveness of the on-site landscaping and other amenities.

Variance:

1. That there are exceptional or extraordinary circumstances or conditions applicable to the property involved or to the intended use or development of the property that do not apply generally to other property in the same zone or neighborhood.

Approval of this Variance will allow the project to deviate from the maximum building height of thirty-five feet (35′-0″) in the M-P (Industrial Park) zone by two feet and two inches (2′-2″), in order to facilitate the construction of the new building. With exception to the requested Variance, the project meets all other Municipal Code development standards such as, but not limited to, building setbacks, parking, and landscaping. There are exceptional or extraordinary circumstances or conditions applicable to the property involved that do not apply generally to other similar properties in the immediate vicinity, within the same zone, or other similarly zoned properties throughout the City.

The subject site is surrounded and constrained by previously developed properties to the north, west, and south. To accommodate the edge conditions created by the presence of these existing developments, the proposed elevations adjacent to the building in the northwest and southeast corners are lower to accommodate the positive flow of stormwater to the existing and proposed drainage inlets. Building height is measured from the average level of the building at grade. By lowering the adjacent grade, the average level of the building was also lowered, creating a taller measurement to the top of the building roof. This drainage condition coupled with the calculation process for determining building height, results in a building height that is measured slightly higher than the existing buildings.

Furthermore, increased building heights lead to more vertical racking, enhanced fire sprinkler systems, and more expansive commodity storage types, which may attract high quality tenants in the community. The current market demand for industrial buildings is calling for minimum interior ceiling height clearances of thirty-two feet (32'-0"), taller than buildings built in the past. Vertical expansion is favored over horizontal, resulting in the need for taller buildings to meet vertical racking space requirements. This provides sufficient space for the minimum standard vertical racking systems, as well as meeting storage capacity needs. The additional building height requested of two feet and two inches (2'-2") provides for five feet and two inches (5'-2") of space to accommodate fire sprinkler suppression system requirements, as well as all necessary structural building requirements.

Lastly, the property is irregularly shaped, with frontages along two culs-desac at Pala Drive and Industry Street. Some of the lot area are triangular slivers, and generally unusable space adjacent to the cul-de-sacs. This effectively reduces the usable area of the lot, preventing a larger building footprint. Horizontal expansion, with a larger building footprint is unfeasible. The most feasible option is to add vertical capacity, resulting in a taller building.

2. That such Variance is necessary for the preservation and enjoyment of a substantial property right possessed by other property in the same vicinity and zone, but which is denied to the subject property.

Approval of this Variance will allow the project to deviate from the maximum building height of thirty-five feet (35′-0″) in the M-P (Industrial Park) zone by two feet and two inches (2′-2″), in order to facilitate the construction of the new building. With exception to the requested Variance, the project meets all other Municipal Code development standards such as, but not limited to, building setbacks, parking, and landscaping. Other properties within immediate vicinity of the subject lot, and within other similarly zoned properties throughout the City, have existing similar type buildings that exceed the maximum thirty-five foot (35′-0″) building height allowed M-P zone.

Within the vicinity of the subject lot, an industrial building located at 12821 Knott Street, which is a similarly zoned property (Industrial Planned Unit Development), provides a building height of thirty-nine feet (39'-0") to the top of the roof, and forty feet (40'-0") to the top of the parapet, exceeding the thirty-five foot (35'-0") building height requirement found in the M-P zone. Another building at 12752 Monarch Street was granted a Variance (V-033-2021) in May 2021 to allow for a building height of approximately thirty-seven feet (36'-9"). This property is also located in the same neighborhood and zoning district as the subject property.

Accordingly, approval of the proposed Variance will not set a precedent, and will allow the applicant to enjoy a substantial property right possessed by other property owners located in the M-P zone, and other similar zoned properties in the City. With exception to the requested Variance to deviate from the maximum building height limitation, the proposed project complies with all other development standards of the M-P zone.

3. That the granting of a Variance will not be materially detrimental to the public welfare or injurious to the property or improvements in such zone or neighborhood in which the property is located.

Approval of this Variance will allow the project to deviate from the maximum building height of thirty-five feet (35′-0″) in the M-P (Industrial Park) zone, in order to facilitate the construction of the new building. The approval of this Variance will allow a 37′-2″ building height (to the topmost portion of the roof), which is slightly more than two feet (2′-2″) above the maximum building height of thirty-five feet (35′-0″) allowed in the M-P zone.

The Variance will not affect surrounding properties, which are developed with existing industrial uses. The subject lot is not within close proximity to sensitive uses (e.g., residential, schools, parks). Other properties within the vicinity of the subject lot, and within other similar zoned properties throughout the City, have existing similar type buildings that exceed the maximum building height of the M-P zone. Nearby, an industrial building located at 12821 Knott Street, which is a similar zoned property (Industrial Planned Unit Development), provides a building height of thirty-nine feet (39'-0") to the top of the roof, and forty feet (40'-0") to the top of the parapet, exceeding the thirty-five foot (35'-0") building height requirement found in the M-P zone. Another building at 12752 Monarch Street was granted a Variance (V-033-2021) in May 2021 to allow for a building height of approximately thirty-seven feet (36'-9").

The project will be required to comply with all applicable building, and life-safety codes and regulations to ensure that there are no adverse impacts on public health, safety, or welfare. Furthermore, the proposal has been reviewed by all City departments in order to ensure compliance with all applicable Municipal Code provisions. Provided the project complies with the Conditions of Approval, the approval of the Variance will not be materially detrimental to the public welfare or injurious to the property or improvements in such zone or neighborhood in which the property is located.

4. That the granting of such Variance will not adversely affect the City's General Plan.

The Industrial (I) General Plan Land Use Designation is intended to create, maintain, and enhance industrial areas characterized by general industrial uses, such as warehousing and distribution or business parks, and more intensive industrial uses, such manufacturing, fabrication, assembly, processing, trucking, warehousing and distribution, and servicing. The proposed building is consistent with the intent of the Industrial Land Use Designation. Specifically, the project meets the intent of the general plan by furthering the following General Plan goals, policies, and implementation programs:

Goal LU-7: The City values its industrial areas as an important contributor to a well-planned community and for the jobs and economic impacts they

provide. The proposed project will replace the existing buildings with a contemporary building that meets the needs of the current industrial market by providing increased vertical racking space for additional interior storage capacity. The proposed project will ensure that the City maintains healthy and competitive industrial areas contributing to a well-planned and well-maintained community.

Implementation Program LU-IMP-7B: Require improved maintenance and rehabilitation of industrial buildings and sites, as necessary. The project Conditions of Approval will remain in perpetuity for the life of the development. The Conditions of Approval will help ensure that the property is well-maintained, and will not be detrimental to the surrounding neighborhood in which the property is located. Additionally, the project proposes enhanced exterior elevations which are aesthetically pleasing, which can foster further investments in high quality, contemporary industrial areas around the community.

The proposed project will be consistent with the spirit and intent of the General Plan, furthering its goals, policies, and implementation programs. The project would also help meet the community's need for competitive industrial facilities in its industrial zoned areas. Therefore, the granting of the requested Variance will not adversely affect the City's General Plan.

5. That approval of the Variance is subject to such conditions as will assure that it does not constitute a grant of special privileges inconsistent with the limitations upon other properties in the vicinity and zone in which the subject property is situated.

Provided the Conditions of Approval are adhered to for the life of the project, approval of the subject Variance will not grant a special privilege that is inconsistent with the limitations upon other properties located within the vicinity or zone in which the subject property is situated.

To construct the proposed building, the Variance to deviate from the maximum building height of thirty-five feet (35′-0″) allowed in the M-P (Industrial Park) zone by two feet and two inches (2′-2″) is necessary to facilitate the development and improvement of the property, which otherwise meets all other Municipal Code development standards. This includes, but is not limited to, building setbacks, parking, and landscaping. Other properties within the immediate area of the subject lot, and within other similarly zoned properties throughout the City, have existing similar type buildings that exceed the maximum thirty-five foot (35′-0″) building height allowed M-P zone.

Within the immediate vicinity of the subject site, an industrial building located at 12821 Knott Street, which is a similarly zoned property (Industrial Planned Unit Development) provides a building height of thirty-nine feet (39'-0") to the top of the roof, and forty feet (40'-0") to the top of the parapet, which exceeds the building height requirement of the M-P zone. A Variance (V-033-2021) was more recently granted for the redevelopment of an industrial building located 12752 Monarch Street, providing for a maximum building height of approximately thirty-seven feet (36'-9").

Accordingly, approval of the proposed Variance will not grant a special privilege that is inconsistent with the limitations upon other property owners located in the Industrial Park and other similar zoned properties in the City. With exception to the requested Variance to deviate from the maximum building height limitation, the proposed project complies with all other development standards of the M-P zone.

The industrial building market has evolved over the past years to necessitate a greater interior ceiling height. Current market demands are calling for a minimum thirty-two foot (32′-0″) interior ceiling height to provide increased operations and storage capacity. Increased building heights lead to more vertical racking, enhanced fire sprinkler systems, and more expansive commodity storage types, which attract high quality tenants. Property acquisition in a built-out community to accommodate horizontal expansion is impractical, and the proposed project is otherwise consistent with the standards and intent of the M-P (Industrial Park) zone. Conditions applicable to the subject property and its intended development do not readily apply to other property in similar zones, the same zone, and neighborhood. Accordingly, approval of the proposed Variance will not set a precedent, and will allow the applicant to enjoy a substantial property right possessed by other property owners located in similar properties in the City.

In addition, Condition of Approval No. 84 states, "The rights granted the applicant pursuant to Variance No. V-036-2022 shall continue in effect for only so long as the improvements authorized and contemplated by Site Plan No. SP-110-2022, and these Conditions of Approval (as they may be amended from time to time) continue to exist on the Site. In the event that that Site Plan No. SP-110-2022 is not exercised within one year of approval (or the length of any extension approved by the City), or the improvements authorized and contemplated by Site Plan No. SP-110-2022 are demolished and not re-established within one year of demolition, Variance No. V-036-2022 shall cease to be effective or grant the applicant any rights to construct other improvements inconsistent with the then-currently applicable development standards."

Lot Line Adjustment:

1. The parcels, as a result of the Lot Line Adjustment, will conform to the zoning and building codes.

The subject parcels comprising the project are both zoned M-P (Industrial Park). The M-P zone requires a minimum lot area of 15,000 square feet, or 0.34 acres. The property at 12691 Pala Drive (APN: 215-011-11) is currently approximately 4.4 acres. The northern property at 12641 Industry Street (APN: 215-011-16) is currently approximately 4.7 acres. The requested Lot Line Adjustment would move the property line between the two properties approximately 262'-0" to the north. As a result of the Lot Line Adjustment, the southern parcel will be expanded to approximately 6.98 acres, and the property to the north will be reduced to approximately 2.04 acres. Both properties will comply with the minimum lot size required by the Code, even after the lot line adjustment.

INCORPORATION OF FACTS AND REASONS SET FORTH IN STAFF REPORT

In addition to the foregoing, the Planning Commission incorporates herein by this reference, the facts and reasons set forth in the staff report.

BE IT FURTHER RESOLVED that the Planning Commission does conclude:

- 1. The Site Plan No. SP-110-2022, Variance No. V-036-2022, and Lot Line Adjustment No. LLA-029-2022 possess characteristics that would indicate justification of the requests in accordance with Municipal Code Section 9.32.030.
- 2. In order to fulfill the purpose and intent of the Municipal Code, and thereby promote the health, safety, and general welfare, the following conditions of approval, attached as Exhibit "A", shall apply to Site Plan No. SP-110-2022, Variance No. V-036-2022, and Lot Line Adjustment No. LLA-029-2022.

Adopted this 19th day of May 2022

EXHIBIT "A"

Site Plan No. SP-110-2022 Variance No. V-036-2022 Lot Line Adjustment No. LLA-029-2022

12691 Pala Drive & 12641 Industry Street

CONDITIONS OF APPROVAL

General Conditions

- 1. The applicant and each owner of the property shall execute, and the applicant shall record against the property a "Notice of Agreement with Conditions of Approval and Discretionary Permit of Approval," as prepared by the City Attorney's Office. Proof of such recordation is required prior to issuance of building permits.
- 2. All Conditions of Approval set forth herein shall be binding on and enforceable against each of the following, and whenever used herein, the term "applicant" shall mean and refer to each of the following: the project applicant, Prologis L.P., the developer of the project, the current owner of the Property, the future owner(s) and tenants(s) of the Property, and each of their respective successors and assigns. All Conditions of Approval are required to be adhered to for the life of the project, regardless of property ownership. Any changes of the Conditions of Approval require approval by the Planning Commission. All Conditions of Approval herein shall apply to Site Plan No. SP-110-2022, Variance No. V-036-2022, and Lot Line Adjustment No. LLA-029-2022.
- 3. Approval of this Site Plan, Variance, and Lot Line Adjustment shall not be construed to mean any waiver of applicable and appropriate zoning and other regulations; and wherein not otherwise specified, all requirements of the City of Garden Grove Municipal Code shall apply.
- 4. Minor modifications to the Site Plan, Variance, Lot Line Adjustment, and/or these Conditions of Approval may be approved by the Community and Economic Development Director, in his or her discretion. Proposed modifications, to the project and/or these Conditions of Approval, determined by the Community and Economic Development Director not to be minor in nature shall be subject to approval of new and/or amended land use entitlements by the applicable City hearing body.
- 5. The approved site plan, floor plan, and use of the subject property, as represented by the Applicant, are an integral part of the decision approving this Site Plan. If major modifications are made to the approved floor plan,

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site plan, or other related changes that result in the intensification of the project or create impacts that have not been previously addressed, the proper entitlements shall be obtained reflecting such changes.

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6. All conditions of approval shall be implemented at the applicant's expense, except where specified in the individual condition.

Engineering Division

- 7. The applicant shall be subject to Traffic Mitigation Fees, Drainage Facilities Fees, Water Assessment Fees, and other applicable mitigation fees identified in Chapter 9.44 of the Garden Grove Municipal Code, along with all other applicable fees duly adopted by the City. The amount of said fees shall be calculated based on the City's current fee schedule at the time of permit issuance.
- 8. Prior to issuance of a grading permit, the applicant shall design overhead street lighting within the development in a manner meeting the approval of the City Engineer. Location of lighting poles shall be shown on the precise grading and street improvement plans.
- 9. A geotechnical study prepared by a registered geotechnical engineer is required. The report shall analyze the liquefaction potential of the site and make recommendations. The report shall analyze sub-surface issues related to the past uses of the site, including sub-surface tanks, infiltration and stormwater treatment structures, and basement and septic facilities. Any soil or groundwater contamination shall be remediated prior to the issuance of a building permit in a manner meeting the approval of the City Engineer in concert with the Orange County Health Department. The report shall make recommendations for pavement design of the interior streets and parking spaces. The report shall also test and analyze soil conditions for LID (Low Impact Development) principles and implementations, including potential infiltration alternatives, soil compaction, saturation, permeability and groundwater levels. Requirements for any "dewatering" will also need to be addressed in the report.
- 10. A separate street permit shall be required for all work performed within the public right-of-way.
- 11. Grading and street improvement plans prepared by a registered Civil Engineer are required. The grading plan shall be based on a current survey

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of the site, including a boundary survey, topography on adjacent properties up to thirty feet (30′-0″) outside the boundary, and designed to preclude cross-lot drainage. Minimum grades shall be 0.50% for concrete flow lines, and 1.25% for asphalt. The grading plan shall also include water and sewer improvements. The grading plan shall include a coordinated utility plan. All improvements within the public right-of-way shall conform to all format and design requirements of the City Standard Drawings & Specifications. Special features, such as decorative pavers or other improvements, may be required to have an agreement prepared between the owner and the city to cover any encroachment limitations, responsibilities and maintenance requirements.

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- 12. The applicant shall complete the following for the Lot Line Adjustment (LLA) application:
 - a. Prior to issuance of a grading permit, the applicant shall submit to the Planning Services Division an updated title report along with copies of the recorded instruments listed in the title report, reference maps used to prepare legal description, and the plat per County of Orange Lot Line Adjustment Manual.
 - b. Preparation, formatting, and packaging of the LLA application and exhibits must follow the requirements of the County of Orange Lot Line Adjustment Manual, and shall be reviewed and approved by the City Engineer.
 - c. The order of recording documentation of the LLA application with the County of Orange Recorder's Office shall be as prescribed by the City Engineer. The instrument numbers assigned by the County Recorder for the LLA shall be written into the new property description of the succeeding Grant Deed or Quit Claim conveyances as prescribed by the City Engineer.
 - d. If there is a lien against either parcel affected by the LLA resulting from a loan or deed of trust, whether or not indicated in the Title Report, each lender and/or beneficiary of the deed of trust, as applicable, must consent to the LLA by execution of a recordable Modification of Deed of Trust, or similar recordable document acceptable to the City. The Modification of Deed of Trust, or similar document, must be signed by a person authorized to represent the lender of beneficiary, as applicable, and notarized. Exhibits for the Modification of Deed of Trust shall be the exhibits as prepared for the

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Site Plan No. SP-110-2022 Variance No. V 036 2022

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LLA prior to recordation. A blank line must be left in the acknowledgement description to write the LLA instrument number as recorded by the County Clerk.

- 13. The grading plan shall depict an accessibility route for the ADA pathway in conformance with the requirements of the Department of Justice standards, latest edition, and Section 1110A of the California Building Code.
- 14. Grading fees shall be calculated based the current fee schedule at the time of permit issuance.
- 15. All parking spaces that abut sidewalks that are not elevated with a curb face to the stall, shall have wheel stops in order to prevent vehicle overhang into sidewalk. A minimum six-foot (6'-0") wide sidewalk is required for parking spaces that are utilizing elevated sidewalk curb face as a wheel stop, and must maintain a minimum four-foot (4'-0") from the overhang of the vehicle bumper for the ADA pathway.
- 16. In accordance with the Orange County Storm Water Program manual, the applicant and/or their contractors shall provide dumpsters onsite during construction unless an Encroachment Permit is obtained for placement in street.
- 17. Prior to the issuance of any grading or building permits, or prior to recordation upon subdivision of land if determined applicable by the City Building Official, the applicant shall submit to the City for review and approval a Water Quality Management Plan that:
 - a. Addresses required mitigation Site Design Best Management Practices (BMPs) based upon the latest Santa Ana Regional Water Quality Control Board (SARWQCB) approved Drainage Area Management Plan (DAMP), as identified in the geotechnical report recommendations and findings, including, but not limited to, infiltration minimizing impervious areas, maximizing permeability, minimizing directly connected impervious areas, creating reduced or "zero discharge" areas, and conserving natural areas as required by the latest adopted County of Orange Technical Guidance Document (TGD).
 - b. BMP's shall be sized per the requirements of the latest Technical Guidance Documents.

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- c. Incorporates the applicable Routine Source Control BMPs as defined in the DAMP.
- d. Incorporates structural and Treatment Control BMPs as defined in the DAMP.
- e. Generally describes the long-term operation and maintenance requirements for the Treatment Control BMPs.
- f. Identifies the entity that will be responsible for long-term operation and maintenance of the Treatment Control BMPs.
- g. Describes the mechanism for funding the long-term operation and maintenance of the Treatment Control BMPs.
- h. Provides a hydrological analysis with scaled map, as well as hydrologic and hydraulic calculations to size storm drains, per the Orange County RDMD standards.
- 18. All trash container areas shall meet the following requirements per City of Garden Grove Standard B-502, and state-mandated commercial organic recycling laws, including AB 1826 and its implementing regulations, and any other applicable State recycling laws related to refuse, recyclables, and/or organics:
 - a. Paved with an impervious surface, designed not to allow run-on mixing of drainage from adjoining areas, designed to divert drainage from adjoining roofs and pavements to be directed around the area for trash roll out, and screened or walled to prevent off-site transport of trash by water or wind.
 - b. Provide solid roof or awning to prevent direct precipitation into the enclosure.
 - c. Connection of trash area drains to the municipal storm drain system is prohibited. Drainage from the enclosure may be directed to a conforming grease or contaminant interceptor.
 - d. Potential conflicts with fire code access requirements and garbage pickup routing for access activities shall be considered in implementation of design and source control. See CASQA Storm

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Water Handbook Section 3.2.9 and BMP Fact Sheet SD-32 for additional information.

- e. The trash enclosure and containers shall be located to allow pick-up and maneuvering, including turnarounds, in the area of enclosures, and concrete aprons for roll-out areas.
- f. Pursuant to commercial organic recycling state law (AB 1826), the applicant shall coordinate storage and removal of the organics waste with the local recycling/trash company.
- g. Pursuant to applicable state laws, the applicant shall contact and coordinate with the operations manager of the local recycling/trash company (Republic Services, 800-700-8610) to ensure the trash enclosure includes the appropriate size and number of containers for the disposal of items, such as, but not limited to, municipal solid waste (MSW), recyclables, and organic green waste.
- h. Based on the amount of waste disposed per week, the applicant shall coordinate with the local recycling/trash company to ensure the adequate frequency of trash pick-up is serviced to the site for municipal solid waste (MSW), recyclables, and organic green waste, and any other type of waste.
- i. The applicant shall ensure large, bulky items, intended for coordinated and scheduled pick-up by the local recycling/trash company, are not placed in areas that encroach into drive aisles, parking spaces, pedestrian pathways, or areas in the front of the property, including the public right-of-way (e.g., street, sidewalk), during and after construction. Any large bulky items shall be out of public vantage points.
- j. The requirements for the trash enclosure and design criteria are bound and coordinated with the Water Quality Management Plan (WQMP), when required, as depicted on the project grading plan, which shall be incorporated into the WQMP by narrative description, exhibits, and an Operation and Maintenance Plan (O&M).
- 19. The applicant and its contractor shall be responsible for protecting all existing horizontal and vertical survey controls, monuments, ties (centerline and corner), and benchmarks located within the limits of the project. If any of

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the above require removal, relocation, or resetting, the contractor shall, prior to any construction work, and under the supervision of a California licensed Land Surveyor, establish sufficient temporary ties and benchmarks to enable the points to be reset after completion of construction. Any ties, monuments, and benchmarks disturbed during construction shall be reset per Orange County Surveyor Standards after construction. The applicant and its contractor shall also reset the tie monuments where curb or curb ramps are removed and replaced, or new ramps are installed. The Applicant and its contractor shall be liable for, at their expense, any resurvey required due to their negligence in protecting existing ties, monuments, benchmarks, or any such horizontal and vertical controls. Temporary Benchmarks shall not be used for vertical control. Benchmarks shall be to the National Geodetic Vertical Datum (NGVD).

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- 20. Prior to the issuance of any grading or building permits for projects that will result in soil disturbance of one acre or more of land, the applicant shall demonstrate that coverage has been obtained under California's General Permit for Stormwater Discharges Associated with Construction Activity by providing a copy of the Notice of Intent (NOI) submitted to the State Water Resources Control Board, and a copy of the subsequent notification of the issuance of a Waste Discharge Identification (WDID) Number. Projects subject to this requirement shall prepare and implement a Stormwater Pollution Prevention Plan (SWPPP). A copy of the current SWPPP shall be kept at the project site, and be available for City review on request.
- 21. Any new or required block walls and/or retaining walls shall be shown on the grading plans, both in plan-view and cross-sections. Cross-sections shall show vertical and horizontal relations of improvements (existing and proposed) on both sides of property lines. Required wall heights shall be measured vertically from the highest adjacent finished grade. Block walls shall be designed in accordance to City of Garden Grove Standard B-504, B-505, B-506 & B-508, or designed by a professional registered engineer. In addition, the following shall apply:
 - a. The color and material of all proposed block walls, columns, and wrought iron fencing shall be approved by the Planning Services Division Prior to installation.
 - b. Openings for drainage through walls shall be shown in section details, and approved by the City Engineer. Cross-lot drainage is not allowed.

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22. The applicant shall identify a temporary parking site(s) for construction crew(s) prior to issuance of a grading permit. No construction parking is allowed on local streets.

- 23. Prior to issuance of a grading permit, the applicant submit and obtain approval of a worksite traffic control plan, satisfactory to the City Traffic Engineer.
- 24. Heavy construction truck traffic and hauling trips shall occur outside of peak travel periods. Peak travel periods are considered to be from 7:00 a.m. to 9:00 a.m., and 4:00 p.m. to 6:00 p.m.
- 25. Any required lane closures shall occur outside of peak travel periods.
- 26. Construction vehicles shall be parked off traveled roadways, in a designated parking lot.
- 27. Prior to issuance of a grading permit, the applicant shall provide a hydrological analysis with scaled map, calculations, and hydraulic calculations to size storm drains per the Orange County RDMD standards. Parkway culverts shall be designed per Orange County Standard Plan 1309, Type B. BMP's shall be sized per the requirements of the latest Technical Guidance Documents.
- 28. Prior to the issuance of a building permit, the applicant shall design and construct street frontage improvements as identified below. All landscaping installed within public rights-of-way shall be maintained by the applicant in a manner meeting the approval of the City Engineer, and the Planning Services Division. A separate street improvement plan shall be prepared for Industry Street and Pala Drive, and submitted to the Engineering Division for improvements within the City rights-of-way.

Industry Street

a. The applicant shall cold mill (grind)the existing asphalt pavement three-inch (0'-03") uniform depth, and replace with three inches (0'-3") of fiber-reinforced asphalt surface course, from the edge of the westerly gutter to the edge of easterly gutter on Industry Street, along the property frontage, per City specifications, and the direction of the City Engineer.

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- b. Any proposed landscaping in the public right-of-way shall be approved by the Planning Services Division, and maintained by the applicant.
- c. The applicant shall coordinate the location of all new water meters, backflow preventers, and backflow devices to be placed in the sidewalk area on Industry Street with the Planning Services Division, and the Water Services Division.

Pala Drive

- a. Remove and replace the existing northerly substandard driveway approach to the site on Pala Drive, and construct a new commercial driveway approach in accordance with City of Garden Grove Standard Plan B-121.
- b. Any proposed landscaping in the public right-of-way shall be approved by the Planning Services Division, and maintained by the applicant.
- c. The applicant shall coordinate the location of all new water meters, backflow preventers, and backflow devices to be placed in the sidewalk area on Pala Drive with the Planning Services Division, and the Water Services Division.

Public Works Environmental

29. The applicant shall comply with all applicable Garden Grove Sanitary District and California State recycling requirements for commercial developments.

Orange County Fire Authority

30. The applicant shall comply with all applicable Orange County Fire Authority requirements, including, but not limited to the Fire Master Plan.

Building and Safety Division

- 31. All work shall comply with the current California Building Standards Code at the time of permit application.
- 32. The application shall provide "clean air" and "future electric vehicle charging" parking stalls, in compliance with California Green Building Code Sections 5.106.5.2 and 5.106.5.3. Additionally, all electric vehicle charging stations

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and parking stalls shall comply with CBC Section 11B-228.3.

- 33. The applicant shall provide an accessible path-of-travel to the trash enclosures.
- 34. The applicant shall provide a building height/area analysis to show compliance with CBC Chapter 5
- 35. The applicant shall specify the type of fire sprinkler system to be used.
- 36. The applicant shall provide an exiting plan, showing the path-of-travel, and the maximum travel distance, including a common path of egress.
- 37. The applicant shall provide an accessible means of egress complying with CBC Section 1009.
- 38. The applicant shall provide a copy of a soils investigation report at the time of permit application.
- 39. All rooms/spaces/elements shall meet the accessibility requirements of CBC Chapter 11B.

Water Services Division

- 40. New water service installations two inches (0'-2") and smaller, shall be installed by the City of Garden Grove at owner's/developer's expense. Installation shall be scheduled upon payment of applicable fees, unless otherwise noted. Fire services and larger water services three inches (0'-3") and larger, shall be installed by developer/owner's contractor per City Standards.
- 41. Water meters shall be located within the City right-of-way, or within dedicated waterline easement. Fire services and large water services three inches (0'-3") and larger, shall be installed by contractor with a Class A or C-34 license, per City water standards, and inspected by approved Public Works inspection.
- 42. A Reduced Pressure Principle Device (RPPD) backflow prevention device shall be installed for meter protection. The landscape system shall also have RPPD device. Any carbonation dispensing equipment shall have a RPPD device. Installation shall be per City standards, and shall be tested by a certified

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backflow device tester immediately after installation. The cross-connection inspector shall be notified for inspection after the installation is completed. The owner shall have the RPPD device tested once a year thereafter by a certified backflow device tester, and the test results submitted to the Public Works Department, Water Services Division. The property owner must open a water account upon installation of a RPPD device.

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- 43. It shall be the responsibility of the owner/developer to abandon any existing private water well(s) per Orange County Health Department requirements. Abandonment(s) shall be inspected by an Orange County Health Department inspector after permits have been obtained.
- 44. A composite utility site plan shall be part of the water plan approval.
- 45. There is an existing water main and a water easement running along a portion of the westerly property line. There shall be no structures or utilities built on or crossing water or sewer main easements.
- 46. There shall be a minimum fifteen-foot (15'-0") clearance of building footings from the water main. Clearances less than fifteen feet (15'-0") shall be reviewed and approved by the Water Services Division.
- New utilities shall have a minimum five-foot (5'-0") horizontal, and a 47. minimum one-foot (1'-0") vertical clearance from the water main and appurtenances.
- 48. There shall be a minimum clearance from the sewer main or laterals, and the water main of ten feet (10'-0") from outside of pipe to outside of pipe.
- 49. No permanent structures, trees or deep-rooted plants shall be placed over sewer main or water main.
- 50. Any new or existing water valve located within a new concrete driveway or sidewalk shall be constructed per City Standard B-753.
- 51. The City shall determine if existing water services(s) is/are usable and meets current City standards. Any existing meter and service located within new driveway(s) shall be relocated at the owner's expense.
- Existing fire services on both Pala Drive and Industry Street have single-52. check detector assembly in a vault. These are required to be upgraded to

Site Plan No. SP-110-2022, Variance No. V-036-2022, & Lot Line Adjustment No. LLA-029-2022

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above-ground Double-Check Detector Assembly (DCDA), as per condition 53, below. The Applicant shall prepare quitclaim deeds, at the Applicant's sole cost and expense, satisfactory to the City Engineer and City Attorney, for quitclaim by the City to the property owner(s) the existing water easements for the two (2) fire service vaults, following completion of the upgrade to the above-ground DCDA.

- 53. Fire service shall have an above-ground backflow device with a double-check valve assembly. The device shall be tested immediately after installation and once a year thereafter by a certified backflow device tester, and the results to be submitted to the Public Works Department, Water Services Division. The device shall be on private property, and is the responsibility of the property owner. The above-ground assembly shall be screened from public view as required by the Planning Services Division.
- 54. The location and number of fire hydrants shall be as required by the Water Services Division and Orange County Fire Authority (OCFA).
- 55. Commercial food use of any type shall require the installation of an approved grease interceptor prior to obtaining a business license. The plumbing plan for any grease interceptor shall be routed to Environmental Services for review.
- 56. Food grinders (garbage disposal devices) are prohibited per Ordinance 6 of the Garden Grove Sanitary District Code of Regulations. Existing units are to be removed.
- 57. If needed, the owner shall install a new sewer lateral with clean out at the street right-of-way line. Laterals in the public right-of-way shall be a minimum six-inch (0'-6") diameter, extra strength VCP with wedgelock joints.
- 58. The contractor shall abandon any existing unused sewer lateral(s) at the street right-of-way on the property owner's side. The sewer pipe shall be capped with an expansion sewer plug, and encased in concrete. Only one sewer connection per lot is allowed.
- 59. All perpendicular crossings of the sewer, including laterals, shall maintain a minimum vertical separation of twelve inches (1'-0") below the water main, outer diameter to outer diameter. All exceptions to the above require a variance from the State Water Resources Control Board.

Exhibit "A" Page 13 Site Plan No. SP-110-2022, Variance No. V-036-2022,

& Lot Line Adjustment No. LLA-029-2022

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60. If the water main is exposed during the installation of a sewer lateral, a twenty-foot (20'-0") section of the water main shall be replaced with twenty feet (20'-0") of PVC C-900 DR-14 Class 305 water pipe, size in kind and centered at the crossing.

<u>Planning Services Division</u>

- 61. A prominent, permanent sign, stating "NO LOITERING IS ALLOWED ON OR IN FRONT OF THE PREMISES," shall be posted in a place that is clearly visible to patrons of the applicant. The sign lettering shall be four to six inches tall (0'-4"-0'-6"), with black letters on a white background. The sign shall be displayed near or at the entrance, and shall also be visible to the public.
- 62. Litter shall be removed daily from the premises, including adjacent public sidewalks, and from all parking areas under the control of the applicant. These areas shall be swept or cleaned, either mechanically or manually, on a weekly basis, to control debris.
- 63. The applicant/property owner shall abate all graffiti vandalism within the premises. The applicant/property owner shall implement best management practices to prevent and abate graffiti vandalism within the premises throughout the life of the project, including, but not limited to, timely removal of all graffiti, the use of graffiti resistant coatings and surfaces, the installation of vegetation screening of frequent graffiti sites, and the installation of signage, lighting, and/or security cameras, as necessary. Graffiti shall be removed/eliminated by the applicant/property owner as soon as reasonably possible after it is discovered, but not later than 72 hours after discovery.
- 64. The applicant is advised that the establishment is subject to the provisions of State Labor Code Section 6404.5 (ref: State Law AB 13), which prohibits smoking inside the establishment as of January 1, 1995.
- 65. Permits from the City of Garden Grove shall be obtained prior to displaying any temporary advertising (i.e., banners).
- 66. Signs shall comply with the City of Garden Grove sign requirements. No more than 15% of the total window area and clear doors shall bear advertising or signs of any sort. No signs advertising alcoholic beverages shall be placed on the windows. Any opaque material applied to the store

Exhibit "A"
Site Plan No. SP-110-2022, Variance No. V-036-2022,

& Lot Line Adjustment No. LLA-029-2022

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front, such as window tint, shall count toward the maximum window coverage area.

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- 67. Exterior advertisements displays or exterior wall advertisements shall not be allowed.
- 68. Any modifications to existing signs or the installation of new signs shall require approval by the Community and Economic Development Department, Planning Services Division prior to issuance of a building permit.
- 69. Hours and days of construction and grading shall be as follows as set forth in the City of Garden Grove's Municipal Code Chapter 8.47 as adopted, except that:
 - a. Monday through Saturday not before 7 a.m. and not after 8 p.m. (of the same day).
 - b. Sunday and Federal Holidays may work same hours, but subject to noise restrictions as stipulated in Chapter 8.47 of the Municipal Code.
- 70. Construction activities shall adhere to SCAQMD Rule 403 (Fugitive Dust) that includes dust minimization measures, the use of electricity from power poles rather than diesel or gasoline powered generators, and the use methanol, natural gas, propane or butane vehicles instead of gasoline or diesel powered equipment, where feasible. Also, the use of solar or low-emission water heaters, and use of low-sodium parking lot lights, and to ensure compliance with Title 24.
- 71. No exterior piping, plumbing, roof top access ladders, or mechanical ductwork shall be permitted on any exterior facade and/or be visible from any public right-of-way or adjoining property.
- 72. Any and all correction notice(s) generated through the plan check and/or inspection process is/are hereby incorporated by reference as conditions of approval and shall be fully complied with by the owner, applicant, and all agents thereof.
- 73. No roof-mounted mechanical equipment shall be permitted unless a method of screening complementary to the architecture of the building is approved by the Community and Economic Development Department, Planning Services

Conditions of Approval

Division. Said screening shall block visibility of any roof-mounted mechanical equipment from view of public streets and surrounding properties.

- 74. Building color and material samples shall be submitted to the Planning Services Division for review and approval prior to issuance of building permits.
- 75. All lighting structures shall be placed so as to confine direct rays to the subject property. All exterior lights shall be reviewed and approved by the Planning Division. Lighting adjacent to residential properties shall be restricted to low decorative type wall-mounted lights, or a ground lighting system. Lighting shall be provided throughout all private drive aisles and entrances to the development per City standards for street lighting.
- 76. The site improvements and subsequent operation of the site/business(es) shall adhere to the following:
 - a. There shall be no business activities, or storage permitted outside of the building. All business related equipment and material shall be kept inside the building except for loading or unloading purposes.
 - b. Property owners, employees, and business operators shall not store vehicles anywhere on the site.
 - c. All drive aisles on the site are considered to be fire lanes and shall remain clear and free of any materials, and/or vehicles.
 - d. The property owner shall comply with the adopted City Noise Ordinance.
- 77. All landscaping shall be consistent with the landscape requirements of the Landscape Water Efficiency Guidelines (Appendix A), per Title 9 of the Municipal Code. The applicant shall submit a separate and complete Water Efficient Landscape Plan. The water efficient landscape submittal shall include landscape plans, irrigation plans, soils report, grading plans, and all other applicable documentation. The landscape plans shall include type, size, location, and quantity of all plant material. The landscape plans are also subject to the following:
 - a. A complete, permanent, automatic remote control irrigation system shall be provided for all landscaping areas shown on the plans. The

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sprinklers shall be of low flow/precipitation sprinkler heads for water conservation.

- b. The plans shall provide a mixture of a minimum of ten percent (10%) of the trees at 48-inch box, ten percent (10%) of the trees at 36-inch box, fifteen percent (15%) of the trees at 24-inch box and sixty percent (60%) of the trees at 15-gallon, the remaining five percent (5%) may be of any size. These trees shall be incorporated into the landscaped frontages of all streets. Where clinging vines are considered for covering walls, drought tolerant vines shall be used.
- c. Landscape treatments and irrigation shall be installed within the front, side, and rear setback areas of the property. The landscaping shall incorporate a mixture of ground cover, flowerbeds, shrubs, and trees. The Community and Economic Development Department shall review the type and location of all proposed trees.
- d. Clinging vines shall be planted within landscape planters along any proposed block walls, and/or trash enclosure walls to deter graffiti.
- e. The applicant shall be responsible for all installation and permanent maintenance of all landscaping on the property. Said responsibility shall extend to the parkway landscaping, sidewalk, curb, and pavement of the site. All planting areas are to be kept free of weeds, debris, and graffiti.
- f. All above-ground utilities (e.g., water backflow devices, electrical transformers, irrigation equipment, etc.) shall be shown on the landscaping plans in order to ensure proper screening.
- g. The landscape plans shall incorporate and maintain, for the life of the project, means and methods to address water run-off, including Low Impact Development (LID) provisions which address water run-off. This includes, without limitation, all applicable requirements of the Water Quality Management Plan (WQMP), Drainage Area Management Plan (DAMP), or Local Implementation Plan (LIP), and any other water conservation measures applicable to this type of development required by applicable ordinance or regulation.
- 78. During construction, if paleontological or archaeological resources are found, all attempts will be made to preserve in place or leave in an undisturbed

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state. In the event that fossil specimens or cultural resources are encountered on the site during construction, and cannot be preserved in place, the applicant shall contact and retain, at applicant's expense, a qualified paleontologist or archaeologist, as applicable, acceptable to the City, to evaluate and determine appropriate treatment for the specimen or resource, and work in the vicinity of the discovery shall halt until appropriate assessment and treatment of the specimen or resource is determined by the paleontologist or archeologist (work can continue elsewhere on the project site). Any mitigation, monitoring, collection, and specimen/resource treatment measures recommended by the paleontologist/archaeologist shall be implemented by the applicant at its own cost.

- 79. The applicant shall comply with the Migratory Bird Treaty Act (MBTA), and Sections 3503, 3503.5, and 3513 of the California Fish and Game Code, which require the protection of active nests of all bird species, prior to the removal of any on-site landscaping, including the removal of existing trees.
- 80. A copy of the resolution, including the conditions approving Site Plan No. SP-110-2022, Variance No. V-036-2022, and Lot Line Adjustment No. LLA-029-2022, shall be kept on the premises at all times.
- 81. The applicant/property owner shall submit signed letters acknowledging receipt of the decision approving Site Plan No. SP-110-2022, Variance No. V-036-2022, and Lot Line Adjustment No. LLA-029-2022, and their agreement with all conditions of approval.
- 82. The applicant shall, as a condition of project approval, at its sole expense, defend, indemnify and hold harmless the City, its officers, employees, agents and consultants from any claim, action, or proceeding against the City, its officers, agents, employees and/or consultants, which action seeks to set aside, void, annul or otherwise challenge any approval by the City Council, Planning Commission, or other City decision-making body, or City staff action concerning Site Plan No. SP-110-2022, Variance No. V-036-2022, and Lot Line Adjustment No. LLA-029-2022. The applicant shall pay the City's defense costs, including attorney fees and all other litigation related expenses, and shall reimburse the City for court costs, which the City may be required to pay as a result of such defense. The applicant shall further pay any adverse financial award, which may issue against the City including, but not limited, to any award of attorney fees to a party challenging such project approval. The City shall retain the right to select its counsel of choice in any action referred to herein.

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83. In accordance with Garden Grove Municipal Code Sections 9.32.160, the rights granted pursuant to Site Plan No. SP-110-2022, Variance No. V-036-2022, and Lot Line Adjustment No. LLA-029-2022 shall be valid for a period of one (1) year from the effective date of this approval. Unless a time extension is granted pursuant to Section 9.32.030.D.9 of the Municipal Code, the rights conferred by Site Plan No. SP-110-2022, Variance No. V-036-2022, and Lot Line Adjustment No. LLA-029-2022 shall become null and void if the subject development and construction necessary and incidental thereto is not commenced within one (1) year of the expiration of the appeal period, and thereafter diligently advanced until completion of the project. In the event construction of the project is commenced but not diligently advanced until completion, the rights granted pursuant to Site Plan No. SP-110-2022, Variance No. V-036-2022, and Lot Line Adjustment No. LLA-029-2022 shall expire if the building permits for the project expire.

84. The rights granted the applicant pursuant to Variance No. V-036-2022 shall continue in effect for only so long as the improvements authorized and contemplated by Site Plan No. SP-110-2022, and these Conditions of Approval (as they may be amended from time to time) continue to exist on the Site. In the event that that Site Plan No. SP-110-2022 is not exercised within one year of approval (or the length of any extension approved by the City), or the improvements authorized and contemplated by Site Plan No. SP-110-2022 are demolished and not re-established within one year of demolition, Variance No. V-036-2022 shall cease to be effective or grant the applicant any rights to construct other improvements inconsistent with the then-currently applicable development standards.



June 7, 2022

Mr. Eddie Pang Prologis 17777 Center Court Dr. N, Suite 100 Cerritos, CA 90703

PALA DRIVE INDUSTRIAL FOCUSED TRAFFIC ASSESSMENT

Mr. Eddie Pang,

This letter has been prepared to document the findings for the focused traffic assessment for the proposed Pala Drive Industrial development (Project) located at 12691 Pala Drive in the City of Garden Grove. It is our understanding that the Project is to demolish two existing light industrial buildings (totaling 149,800 square feet) and redevelop the site to accommodate a 148,284 square foot industrial building which would include 6,000 square feet of office space and 142,284 square feet of warehouse area. A third building on the property (located at 12601 Industry Street) will remain. The purpose of this work effort is to determine if there are any traffic deficiencies anticipated with the development of the proposed Project.

PROPOSED PROJECT

EXISTING TRAFFIC

The existing site is currently occupied by three buildings:

- 12691 Pala Drive = 83,000 square feet
- 12641 Industry Street = 66,800 square feet
- 12601 Industry Street = 36,100 square feet

The building located at 12691 Pala Drive is currently occupied by a tenant, however, the site at 12641 Industry Street is currently vacant. The building located at 12601 Industry Street is not proposed to be redeveloped as part of the Project and will remain. Exhibit 1 shows the proposed Project.

In an effort to understand the existing traffic associated with the current use at 12691 Pala Drive, traffic counts were collected at the driveways on March 2 and 3, 2022 (Wednesday and Thursday). A summary of the count data collected is shown in Table 1. See Attachment A for driveway count data worksheets.

TABLE 1: SUMMARY OF EXISTING DRIVEWAY COUNTS

			1269)1 Pala I	Drive ²		
	AM.	Peak H	our	PM			
Land Use	In	Out	Total	ln	Out	Total	Daily
Day 1: March 2, 2022							***************************************
Passenger Cars:	1	1	2	1	1	2	31
Total Truck Trips:	2	0	2	1	1	2	11
Total Trips ¹	3	1	4	2	2	4	42
Day 2: March 3, 2022							
Passenger Cars:	4	4	8	2	2	4	28
Total Truck Trips:	0	0	0	0	0	0	16
Total Trips ¹	4	4	8	2	2	4	44
2-Day Average Trip Generation:							
Passenger Cars:	,	7	_	2	~	2	2.0
١	3	3	5	2	2		30
Total Truck Trips:	1	0	1	1	1	1	14
Total Trips ¹	4	3	6	2	2	4	43

^{*} Note: data collected on March 2, and 3, 2022.

The building located at 12641 Industry Street is currently vacant and driveway counts were not conducted for this location. However, the site could reasonably be occupied by another warehouse tenant. As such, the trip generation rates from the Institute of Transportation Engineers (ITE) as provided in their <u>Trip Generation Manual</u> (11th Edition, 2021) has been utilized to calculate the trip generation associated with the existing use at 12641 Industry Street (see Table 2).

TABLE 2: TRIP GENERATION RATES

	ITE LU		AN	1 Peak Ho	our	PIV	1 Peak Ho	our	
Land Use	Code	Units ¹	In	Out	Total	ln	Out	Total	Daily
Warehousing ²	150	TSF	0.131	0.039	0.170	0.050	0.130	0.180	1.710
Passenger Cars			0.116	0.034	0.150	0.042	0.108	0.150	1.110
Trucks			0.011	0.009	0.020	0.016	0.014	0.030	0.600

¹ TSF = Thousand Square Feet

Table 3 summarizes the average existing trip generation for 12691 Pala Drive based on the count data collected over two consecutive days in addition to the trip generation associated with 12641 Industry Street per ITE (for ITE Land Use Code 150, Warehousing). As such, the existing buildings what are proposed to be redeveloped currently generate a total of 160 two-way trips per day, with 16 trips during the AM peak hour and 16 trips during the PM peak hour.

¹ Total Trips = Passenger Cars + Truck Trips.

² Trip generation represents the sum of all driveways, by day.

² Trip Generation & Vehicle Mix Source: Institute of Transportation Engineers (ITE), <u>Trip Generation Manual</u>, Eleventh Edition (2021).

TABLE 3: EXISTING TRIP GENERATION

		AM	and received to	lour	16.188168.27	Peak H	lour	
Existing Land Use	Quantity Units ¹	<u>In</u>	Out	Total	<u>ln</u>	Out	Total	Daily
12691 Pala Drive	83.000 TSF							
Passenger Cars:		3	3	5	2	2	3	30
Truck Trips:		1	0	1	1	1	1	14
12691 Pala Trips ²		4	3	6	2	2	4	44
12641 Industry Street	66.800 TSF							
Passenger Cars:		8	2	10	3	7	10	74
Truck Trips:		0	0	0	1	1	2	42
12641 Industry Trips ²		8	2	10	4	8	12	116
Project Trips ²		12	5	16	6	10	16	160

¹ TSF = thousand square feet

PROPOSED PROJECT

In order to develop the traffic characteristics of the proposed Project, trip-generation statistics published in the ITE <u>Trip Generation Manual</u> (11th Edition, 2021) for General Light Industrial (ITE Land Use Code 110) and Warehousing (ITE Land Use Code 150) were used. The vehicle mix (percentage of cars versus trucks) was also obtained from the <u>Trip Generation Manual</u> for each applicable land use. Table 4 presents the trip generation rates. For the purposes of this trip generation assessment and in order to calculate a conservative trip generation for the proposed Project, it was assumed 25% of the overall square footage would be general light industrial with the remaining 75% assuming warehousing uses. Table 4 shows the resulting Project trip generation summary, which shows the Project is anticipated to generate a total of 374 two-way trips per day with 46 AM peak hour trips and 43 PM peak hour trips.

² Total Trips = Passenger Cars + Truck Trips.

TABLE 4: PROJECT TRIP GENERATION SUMMARY

	ITE LU		AIV	l Peak H	our	PIV	l Peak H	our	
Land Use ¹	Code	Units ²	In	Out	Total	ln	Out	Total	Daily
Trip Generation Rates:				***************************************					
General Light Industrial	110	TSF	0.651	0.089	0.740	0.091	0.559	0.650	4.870
Passenger Cars			0.642	0.088	0.730	0.090	0.550	0.640	4.620
Trucks			0.006	0.004	0.010	0.005	0.005	0.010	0.250
Warehousing	150	TSF	0.131	0.039	0.170	0.050	0.130	0.180	1.710
Passenger Cars			0.116	0.034	0.150	0.042	0.108	0.150	1.110
Trucks			0.011	0.009	0.020	0.016	0.014	0.030	0.600

¹ Trip Generation & Vehicle Mix Source: Institute of Transportation Engineers (ITE), <u>Trip Generation Manual</u>, Eleventh Edition (2021).

² TSF = Thousand Square Feet

	1	AN	l Peak H	our	PM	Peak Ho	our	
Land Use	Quantity Units ¹	ln	Out	Total	In	Out	Total	Daily
Project Trip Generation Summary					***************************************			
General Light Industrial (25%)	37.071 TSF							
Passenger Cars		24	3	27	3	20	23	172
Trucks		0	0	0	0	0	o	10
Subtotal		24	3	27	3	20	23	182
Warehousing (75%)	111.213 TSF							
Passenger Cars		13	4	17	5	12	17	124
Trucks		1	1	2	2	2	3	68
Subtotal		14	5	19	7	14	20	192
Project Total		38	8	46	10	34	43	374

¹ TSF = Thousand Square Feet

TRIP GENERATION COMPARISON

Table 5 shows the trip generation comparison between the existing uses and the proposed Project. The resulting net new trips are identified on Table 5. As shown, the Project is anticipated to generate 214 net new two-way trips per day with 30 net new AM peak hour trips and 27 net new PM peak hour trips.

TABLE 5: TRIP GENERATION COMPARISON

	100	AM	Peak H	lour	PM	Peak H	our -	
Proposed Land Use	Quantity Units ¹	In	Out	Total	In	Out	Total	Daily
Existing Use (Table 3)	149.800 TSF		***************************************	***************************************				
Passenger Cars:		10	5	15	5	9	14	104
Total Truck Trips:		1	0	1	2	2	4	56
Total Trips		11	5	16	6	10	18	160
Proposed Project (Table 4)	148.284 TSF				***************************************			
Passenger Cars:		37	7	44	8	32	40	296
Total Truck Trips:		1	1	2	2	2	4	78
Total Trips		38	8	46	10	34	44	374
VARIANCE								
Passenger Cars:		27	3	30	4	24	28	192
Total Truck Trips:		0	1	1	1	1	2	22
Total Trips		27	4	31	5	25	30	214

¹ TSF = thousand square feet

The net difference in trip generation has been utilized for this analysis. The Project only traffic volumes are provided on Exhibit 5.

TRIP DISTRIBUTION

The Project trip distribution and assignment process represents the directional orientation of traffic to and from the Project site. The trip distribution pattern is heavily influenced by the geographical location of the site, the location of surrounding uses, and the proximity to the regional freeway system. In addition, truck routes for the City of Garden Grove have been taken into consideration in the development of the trip distribution patterns for heavy trucks. Exhibit 2 illustrates the proposed Project distribution patterns for passenger cars and Exhibit 3 illustrates the proposed Project distribution patterns for trucks.

INTERSECTION OPERATIONS ANALYSIS

Intersection operations have been analyzed in accordance with the <u>City of Garden Grove's Traffic Impact Analysis Guidelines for Vehicles Miles Traveled and Level of Service Assessment</u> (dated May 2020) (City Guidelines). Per the City's traffic study guidelines, Level of Service (LOS) D or better is considered acceptable for City intersections. The study area utilized for this analysis is shown on Exhibit 4.

EXISTING (2022) CONDITIONS

The intersection LOS analysis is based on the traffic volumes observed during the peak hour conditions using traffic count data collected in May 2022. The existing counts are provided in Attachment B. To represent the effect large trucks, buses, and recreational vehicles have on traffic flow, all trucks were converted into passenger car equivalent (PCE). By their size alone, these vehicles occupy the same space as two or more passenger cars. In addition, the time it takes for them to accelerate and slow-down is also much longer than for passenger cars and varies depending on the type of vehicle and number of axles. For this analysis, the following PCE factors have been used to estimate each turning movement: 2.0 for 2-axle trucks, 2.5 for 3-axle trucks, and 3.0 for 4+-axle trucks. These factors are consistent with the values utilized for other projects within the County of Orange. The Existing (2022) traffic volumes, in actual vehicles, are provided on Exhibit 6. Table 6 provides the intersection operations analysis for Existing (2022) traffic conditions.

TABLE 6: INTERSECTION OPERATIONS ANALYSIS FOR EXISTING (2022) CONDITIONS

		De	lay ¹	Volur	ne-to-	Lev	el of	
	Traffic	(se	ecs.)	Capaci	ty (V/C)	Sen	vice	
# Intersection	Control ²	AM	PM	AM	PM	AM	PM	
1 Knott St. & Lampson Av.	TS			0.655	0.582	В	Α	
2 Knott St. & Stanford Av.	TS			0.555	0.446	Α	Α	
3 Knott St. & SR-22 WB On-Ramp/Acacia Av.	TS -			0.608	0.621	В	В	
4 Knott St. & Garden Grove Bl.	TS	**		0.895	1.084	D	F	
5 Industry St. & Lampson Av.	CSS	15.2	12.3			C	В	
6 Pala Dr. & Acacia Av.	CSS	9.1	9.7			Α	Α	

^{*} BOLD = Level of Service (LOS) does not meet the applicable jurisdictional requirements (i.e., unacceptable LOS).

As shown in Table 6, the following intersection currently operates at an unacceptable LOS during the peak hours:

• Knott Street & Garden Grove Boulevard (#4) – LOS F PM peak hour only

The intersection operations analysis worksheets for Existing (2022) conditions are provided in Attachment C.

EXISTING PLUS PROJECT (E+P) CONDITIONS

The E+P traffic conditions analysis includes the existing traffic volumes plus the addition of traffic generated by the proposed Project. In an effort to conduct a conservative analysis, a PCE value of 3.0 has been utilized for Project truck trips. The E+P traffic volumes, in actual vehicles, are

Per the Highway Capacity Manual (6th Edition), overall average intersection delay and level of service are shown for intersections with a traffic signal or all way stop control. For intersections with cross street stop control, the delay and level of service for the worst individual movement (or movements sharing a single lane) are shown. HCM delay reported in seconds.

² TS = Traffic Signal; CSS = Cross-street Stop

provided on Exhibit 7. Table 7 provides the intersection operations analysis for E+P traffic conditions.

TABLE 7: INTERSECTION OPERATIONS ANALYSIS FOR E+P CONDITIONS

				Existing	(2022)					E-	P				Dif	Terence	
		De	lay¹	Volui	ne-to-	Lev	el of	De	lay 1	Volui	ne-to-	Lev	el of	Del	ay¹	Volur	ne-to-
	Traffic	(se	cs.)	Capaci	ty (V/C)	Ser	vice	(se	ecs.)	Capaci	ty (V/C)	Ser	vice	(se	cs.)	Capaci	ty (V/C)
# Intersection	Control*	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
1 Knott St. & Lampson Av.	TS		**	0.655	0.581	В	Α	**	**	0.655	0.581	В	Α			0.000	0.000
2 Knott St. & Stanford Av.	TS			0.554	0.446	Α	Α			0.555	0.446	Α	Α			0.001	0.000
3 Knott St. & SR-22 WB On-Ramp/Acacia Av.	TS		**	0.606	0.619	В	В			0.608	0.630	В	В	-		0.002	0.011
4 Knott St. & Garden Grove Bi.	TS		44	0.894	1.073	D	F		**	0.895	1.079	D	F			0.001	0.006
5 Industry St. & Lampson Av.	CSS	15.2	12,3	~~		C	В	15.3	12.4			C	В	0.1	0.1	**	
6 Pala Dr. & Acacia Av.	CSS	9.1	9.7	**		Α	Α	9.1	9.7	~		Α	Α	0.0	0.0		

BOLD = Level of Service (LOS) does not meet the applicable jurisdictional requirements (i.e., unacceptable LOS).

As shown in Table 7, there are no additional study area intersections anticipated to operate at an unacceptable LOS during the peak hours. The intersection operations analysis worksheets for E+P conditions are provided in Attachment D.

TRAFFIC SIGNAL WARRANT ANALYSIS.

The term "signal warrants" refers to the list of established criteria used by Caltrans and other public agencies to quantitatively justify or determine the potential need for installation of a traffic signal at an otherwise unsignalized intersection. This traffic assessment uses the signal warrant criteria presented in the latest edition of the Caltrans <u>California Manual on Uniform Traffic Control Devices (CA MUTCD)</u>.

There are currently no unsignalized study area intersections that currently meet a traffic signal warrant under Existing (2022) traffic conditions (see Attachment E). With the addition of Project traffic, there are no unsignalized study area intersections that are anticipated to meet a traffic signal warrant under E+P traffic conditions (see Attachment F).

DEFICIENCIES AND IMPROVEMENTS

Per the City of Garden Grove traffic study guidelines, signalized intersections require improvements if one of the following conditions is met:

- The addition of project traffic to an intersection results in the degradation of intersection operations from acceptable operations (LOS D or better to unacceptable operations (LOS E or F).
- The project-related increase in volume-to-capacity ratio (V/C) is equal to or greater than 0.010 at an intersection that is already operating at LOS E or F.

Per the Highway Capacity Manual (6th Edition), overall average intersection delay and level of service are shown for intersections with a traffic signal or all way stop control. For intersections with cross street stop control, the delay and level of service for the worst individual movement for movements sharing a single lane) are shown. HCM delay reported in seconds.

^{*} TS = Traffic Signal: CSS = Cross-street Stop

Unsignalized study area intersections require improvements if both of the following conditions are met:

- The addition of project traffic to an intersection results in the degradation of overall intersection operations from acceptable operations (LOS D or better) to unacceptable operations (LOS E or F), and
- The intersection meets peak hour signal warrants either caused by project volumes, or project volumes are added at an intersection that meets peak hour signal warrants in the baseline scenario(s). Peak hour signal warrants should be determined based on the latest CA MUTCD.

As shown in Table 7, the intersection of Knott Street & Garden Grove Boulevard (#4) currently operates at an unacceptable LOS during the peak hours and is anticipated to continue to operate at an unacceptable LOS during the peak hours with the addition of Project traffic. However, the volume-to-capacity does not increase by more than 0.010. The intersection of Knott Street & Garden Grove Boulevard (#4) does not meet this criterion based on the change in v/c between the Existing and E+P traffic conditions. As such, no intersection improvements have been identified for this deficient intersection per the City of Garden Grove traffic study guidelines.

CONCLUSION

Although the intersection of Knott Street & Garden Grove Boulevard (#4) currently operates and is anticipated to operate at an unacceptable LOS during the peak hours under both Existing (2022) and E+P traffic conditions, the proposed Project does not increase the volume-to-capacity ratio to the City's threshold. Therefore, no intersection improvements have been identified.

If you have any questions or comments, I can be reached at (916) 806-8326.

Respectfully submitted,

URBAN CROSSROADS, INC.

Connor Paquin, PE

Transportation Engineer

Conur Ruje

EXHIBIT 1: SITE MAP

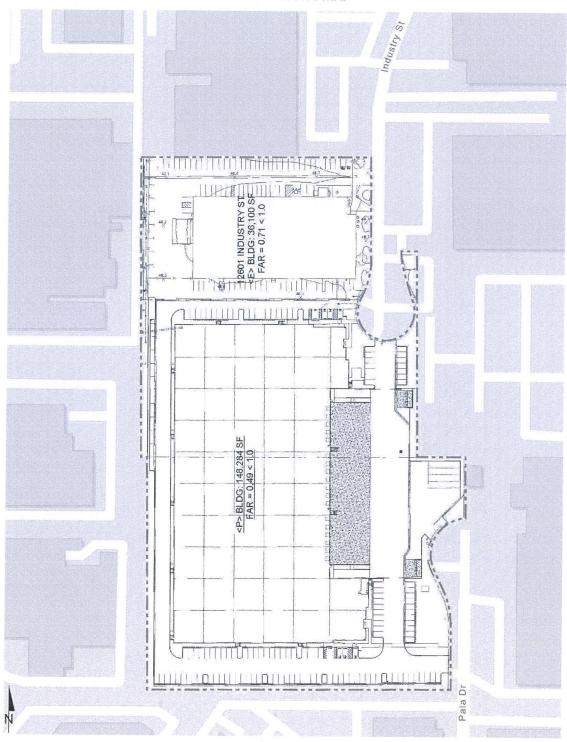


EXHIBIT 2: PROJECT (PASSENGER CAR) TRIP DISTRIBUTION

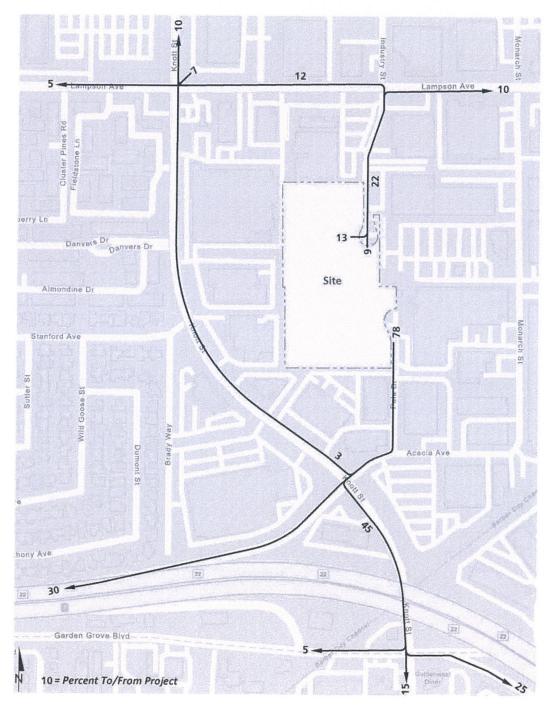


EXHIBIT 3: PROJECT (TRUCK) TRIP DISTRIBUTION

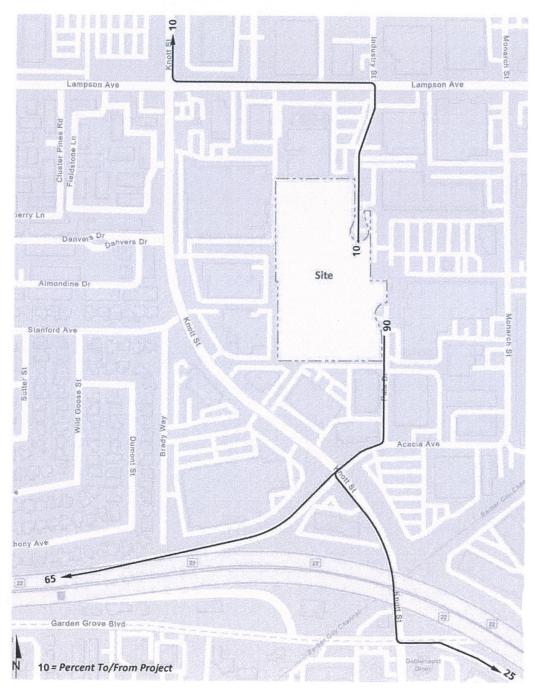


EXHIBIT 4: STUDY AREA

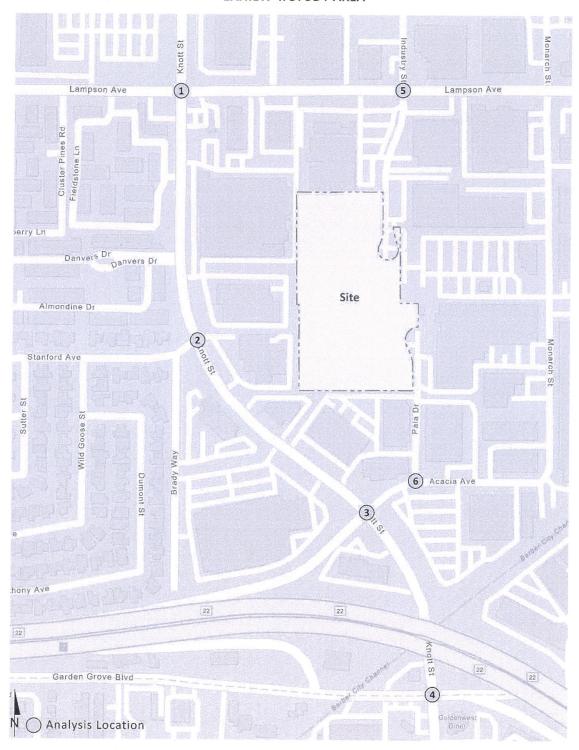
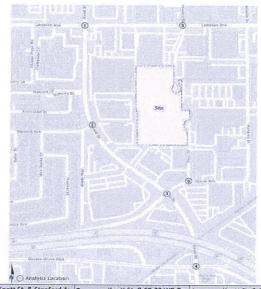


EXHIBIT 5: PROJECT ONLY TRAFFIC VOLUMES

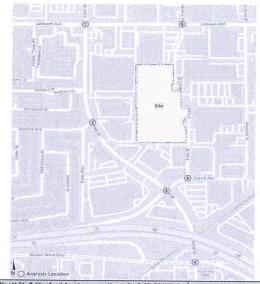


Knott	St. & Lampson Av. 2	Клоtt St. & Stanford A	v. 3 Knott S	it. & SR-22 WB On- Ramp/Acacia Av.		Knott St	t. & Garden	Grove Bl.	5 Indu	stry St. & I	ampso
1(0) → (0)1	1	← 1(0) (01) →	حـ 1(0)	150 ← 0(1) ← 2(8) ← 2(11)	-	(0)1 (0)1 (0)1 (1) (1) (1) (1)	± 15(3)	100		F 3(0) 1 €	ľ
	la Dr. & Acacia Av.	6	Naminal	20(4)		1))	Nominal	3(1) ¬ Nominal	0(3)	0(2)

6	Pa	la Dr. & Acacia Av.
150	(0Z) _E → 21(4) →	
150		

##(##) AM(PM) Peak Hour Intersection Volumes
Average Daily Trips

EXHIBIT 6: EXISTING (2022) TRAFFIC VOLUMES

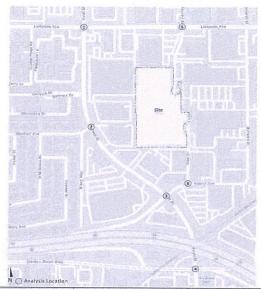


1		Kr	ott	St. &	Lampsor	ı Av.			K	nott	St.	& Stanf	ord Av.	3		K	nott S		SR-22 W mp/Acac		4		Kn	ott 5	t. &	Gard	en Gr	ove Bl.	5		Inc	dust	try St	.&L	ampso
30,550	331(180)	7	159(100) - 1	38(64) 331(195) 120(164) ↑ (02)141	32,000	31,650	150	(Z011)Z0E1 → (Z6)		52(77) -3 9 1	m 4 ← (2221)6801	32,750	34,250	C 197(229)	← 1186(1052)	F- 13(5)	110(156) - 1 1 1	8(8)	050	34,2	355(558(131(586)	\rightarrow	+	420	39, (565) (520) (432) (432) (432)	200	_	21 0(40 18)	(9) - (9) -	÷ + 13(3	1	16(7) 175(3 16(8)	10,900 67)
250	10(9)		7(2) (S)	t_	& Acacia 2, 3(2) 75(140)	Av. 900								L							least.							- N. P							•

##(##) AM(PM) Peak Hour Intersection Volumes ## Average Daily Trips

19(4) → 143(76) →

EXHIBIT 6: E+P TRAFFIC VOLUMES



										N	0	Analysis Lo	eatlon						8	A STATE OF																
1		K	nott	St. 8	k Lamp	pson Av			K	(nott	St.	& Stanfe	ord Av.	3		Kn	ott			R-22 W p/Aca				Kr	ott S	t. &	Gard	en Gre	Bl.	5		Indus	try!	5t. & I	Lamp	SOF
30,550	117(8	← 1002(924)	F 118(71)	++		196)	31,650	← 42(45)	← 1303(1102)	7 1(0)	+ +	1-2	100	34,250	← 197(229)	← 1186(1052)	₹ 14(5)	1	99	3(9) 32(65) 50(96)		34,400	← 119(136)	← 779(595)	← 345(355)	+	420	39,5 (568) (520) (432)	00	950	← 0(2)	- 13(31)	1 + 5	16(7 475(19(8	367)	100
8,80	332	6(59) (180) 0(58)	7	€ (001)651	88	± (70)111 32,000	2,90	150	1(26) 0(76)		52(77) -	1089(1273) →	32,750	5,75	50			110(156) -		1173(1353) →	720		558 131	(347) (586) (185)	+	40(48) ->	480(662) →	598(597) ~	32,550	490	21(9) (409) 21(7))	3(17) 4	0(2) →	8(23) ~	750
450			Pa	la Dr	. & Ac	2,900																														
	£ 13(29)		(2)		3(2) 75(14	10)																														
		40(8) 3(76)																																		
3,15	50																																			

##(##) AM(PM) Peak Hour Intersection Volumes ## Average Daily Trips

ATTACHMENT A EXISTING SITE COUNTS



City:

Garden Grove

Location:

12691 Pala Dr - TOTAL

Date:

3/2/2022

Count Type:

Driveway Classification Count

	<u></u>		Entering		***************************************
	Pass	Large	T	1	1
	Veh	2 Axle	3 Axle	4+ Axle	Total
0:00		0	0	0	0
0:15	0	0	1 0	0	0
0:30	1	1 0	0	0	1 0
0:45		0	0	0	1 0
1:00		1 0	0	0	1 0
1:15	0	0	0	0	1 0
1:30	0	0	0	0	0
1:45	0	0	0	0	0
2:00	0	0	0	0	0
2:15	0	0	0	0	0
2:30	0	0	0	0	0
2:45	0	0	0	0	1 0
3:00	0	0	0	0	1 0
3:15	0	0	0	0	0
3:30	0	0	0	0	0
3:45	0	0	0	0	0
4:00	0	0	0	0	0
4:15	0	0	0	0	0
4:30	0	0	0	0	0
4:45	0	0	0	0	0
5:00	0	0	0	0	0
5:15	0	0	0	0	0
5:30	1	0	0	0	1
5:45	1	0	0	1	2
6:00	0	0	0	0	0
6:15	1	0	0	0	1
6:30	0	0	0	0	0
6:45	0	0	0	0	0
7:00	3	0	0	0	3
7:15	0	0	0	0	0
7:30	0	0	0	0	0
7:45	0	0	0	0	0
8:00	0	0	0	0	0
8:15	0	0	0	1	1
8:30	1	0	0	1	2
8:45	0	0	0	0	0
9:00	1	0	0	0	1
9:15	0	0	0	0	0
9:30	0	0	0	0	0
9:45	0	0	0	0	0
10:00	0	0	0	0	0
10:15	0	0	0	0	0
10:30	1	0	0	0	1
10:45	0	0	0	0	0
11:00	0	0	0	0	0
11:15	0	0	0	0	0
11:30	0	0	0	0	0
11:45	0	0	0	0	0

	Γ		- 5:		
		Т.	Exiting	·	T
	Pass	Large			
<u> </u>	Veh	2 Axle	3 Axle	4+ Axle	Total
0:00		0	0	0	0
0:15		0	0	0	0
0:30		0	0	0	0
0:45		0	0	0	0
1:00		0	0	0	0
1:15		0	0	0	0
1:30		0	0	0	0
1:45		0	0	0	0
2:00		0	0	0	0
2:15		0	0	0	0
2:30		0	0	0	0
2:45	-	0	0	0	0
3:00	·	0	0	0	0
3:15		0	0	0	0
3:30		0	0	0	0
3:45		0	0	0	0
4:00		0	0	0	0
4:15		0	0	0	0
4:30		0	0	0	0
4:45		0	0	0	0
5:00		0	0	0	0
5:15	 	0	0	0	0
5:30		0	0	0	0
5:45	 	0	0	0	0
6:00	 	0	0	0	0
6:15		0	0	0	0
6:30	 	0	0	0	0
6:45	0	0	0	0	0
7:00		0	0	11	1
7:15	0	0	0	0	0
7:30	0	0	0	0	0
7:45	0	0	0	0	0
8:00	0	0	0	0	0
8:15	0	0	0	0	0
8:30		0	0	0	1
8:45	0	0	0	0	0
9:00		0	0	0	0
9:15	0	0	0	0	0
9:30	0	0	0	0	0
9:45	0	0	0	0	0
10:00	1	0	0	0	11
10:15	0	0	0	0	0
10:30	0	0	0	0	0
10:45	1	0	0	0	1
11:00	0	1	0	0	11
11:15	0	0	0	0	0
11:30	1	0	0	0	1
11:45	0	0	0	0	0



City:

Garden Grove

Location:

12691 Pala Dr - TOTAL

Date:

3/2/2022

Count Type:

Driveway Classification Count

		Υ	Entering	·	
	Pass	Large			
	Veh	2 Axle	3 Axle	4+ Axle	Total
12:00		0	0	0	2
12:15		0	0	0	0
12:30	 	0	0	0	0
12:45	0	0	0	0	0
13:00	ļ	0	0	0	1
13:15	1	0	0	0	1
13:30	0	11	0	0	1
13:45	0	0	0	0	0
14:00	0	0	0	0	0
14:15	0	0	0	0	0
14:30	0	0	0	0	0
14:45	0	0	0	0	0
15:00	0	0	0	0	0
15:15	0	0	0	0	0
15:30	0	0	0	0	0
15:45	0	0	0	0	0
16:00	0	0	0	0	0
16:15	0	0	0	0	0
16:30	1	0	0	1	2
16:45	0	- 0	0	0.0	0
17:00	00	0	0	0	0
17:15	0	0	0	0	0
17:30	0	0	0	0	0
17:45	0	0	0	0	0
18:00	0	0	0	0	0
18:15	0	0	0	0	0
18:30	0	0	0	0	0
18:45	0	0	0	0	0
19:00	0	0	0	0	0
19:15	0	0	0	0	0
19:30	0	0	0	0	0
19:45	0	0	0	0	0
20:00	0	0	0	0	0
20:15	2	0	0	0	2
20:30	0	0	0	0	0
20:45	0	0	0	0	0
21:00	0	0	0	0	0
21:15	0	0	0	0	0
21:30	0	0	0	0	0
21:45	0	0	0	0	0
22:00	0	0	0	0	0
22:15	0	0	0	0	0
22:30	0	0	0	0	0
22:45	0	0	0	0	0
23:00	0	0	0	0	0
23:15	0	0	0	0	0
23:30	0	0	0	0	0
23:45	0	0	0	0	0
TOTAL	16	1	0	4	21

	r		C!+1	····	
	D		Exiting	T	T
	Pass	Large		1	
12.00	Veh	2 Axle	3 Axle	4+ Axle	Total
12:00	0	0	0	1 1	1
12:15	0	1	0	0	1
12:30	0	0	0	0	0
12:45	11	0	0	0	1
13:00	0	0	0	0	0
13:15	1	0	0	0	1 1
13:30	0	0	0	0	0
13:45	0	1	0	0	1
14:00	0	0	0	0	0
14:15	0	0	0	0	0
14:30	0	0	0	0	0
14:45	0	0	0	0	0
15:00	0	0	0	0	0
15:15	1	0	0	0	1
15:30	00	0	0	0	0
15:45	0	0	0	0	0
16:00	0	0	0	0	0
16:15	0	0	0	0	0
16:30	1	0	0 .	0	1
16:45	0	0	0	1	1
17:00	0	0 .	0	- 0	0
17:15	0	0	0	0	0
17:30	2	0	0	0	2
17:45	1	0	0	0	1
18:00	0	0	0	0	0
18:15	0	0	0	0	0
18:30	0	0	0	0	0
18:45	0	0	0	0	0
19:00	0	0	0	0	0
19:15	0	0	0	0	0
19:30	0	0	0	0	0
19:45	2	0	0	0	2
20:00	0	0	0	0	0
20:15	2	0	0	0	2
20:30	0	0	0	0	0
20:45	0	0	0	0	0
21:00	0	0	0	0	0
21:15	0	0	0	0	0
21:30	0	0	0	0	0
21:45	0	0	0	0	0
22:00	0	0	0	0	0
22:15	0	0	0	0	0
22:30	0	0	0	0	0
22:45	0	0	0	0	0
23:00	0	0	0	0	0
23:15	0	0	0	0	0
23:30	0	0	0	0	0
23:45	0	0	0	0	0
L	15	3	0	3	21



City: Garden Grove

Location: 12691 Pala Dr - TOTAL

Date: 3/3/20222

Count Type: Driveway Classification Count

			Entering		
	Pass	Large			
	Veh	2 Axle	3 Axle	4+ Axle	Total
0:00		0	0	0	0
0:15	<u> </u>	0	0	0	0
0:30	· 	0	0	0	0
0:45		0	0	0	0
1:00	·	0	0	0	0
1:15		0	0	0	0
1:30	·	0	0	0	0
1:45		0	0	0	0
2:00		0	0	0	0
2:15	4	0	0	0	0
2:30		0	0	0	0
2:45	ļ	0	0	0	0
3:00	0	0	0	0	0
3:15		0	0	0	0
3:30		0	0	0	0
3:45	0	0	0	0	0
4:00	0	0	0	0	0
4:15	0	0	0	0	0
4:30	ļ	0	0	0	0
4:45	0	0	0	0	0
5:00	0	0	0	0	0
5:15	1	0	0	0	1
5:30	0	0	0	0	0
5:45	1	0	0	0	1
6:00	0	0	0	0	0
6:15	0	0	0	0	0
6:30	0	0	0	0	0
6:45	0	0	0	0	0
7:00	0	0	1	0	1
7:15	0	0	0	0	0
7:30	0	0	0	0	0
7:45	0	0	0	0	0
8:00	1	0	0	0	1
8:15	2	0	0 4	0	2
8:30	0	0	0	0	0
8:45	1	0	0	0	1
9:00	0	0	11	0	1
9:15	0	0	0	0	0
9:30	0	1	0	0	1
9:45	0	0	0	0	0
10:00	0	0	0	0	0
10:15	0	0	0	0	0
10:30	0	0	0	0	0
10:45	0	2	0	0	2
11:00	0	1	0	0	1
11:15	0	0	0	0	0
11:30	0	0	0	0	0
11:45	0	0	0	0	0

	Γ		Exiting	****	······
	Pass	Large	LAICHIG	T	T
	Veh	2 Axle	3 Axle	A. Avla	Total
0:00	0	0	0	4+ Axle	Total 0
0:15	0	0	0	0	1 0
0:30	0	0	0	1 0	1 0
0:45	0	1 0	0	1 0	1 0
1:00	0	1 0	0	0	1 0
1:15	0	0	0	0	0
1:30	0	1 0	1 0	1 0	1 0
1:45	0	0	0	0	1 0
2:00	0	0	0	0	0
2:15	0	0	0	0	0
2:30	0	0	1 0	0	1 0
2:45	0	0	1 0	0	1 0
3:00	0	0	0	0	0
3:15	0	0	1 0	1 0	0
3:30	0	0	0	0	1 0
3:45	0	0	0	0	0
4:00	0	0	0	0	0
4:15	0	0	1 0	0	0
4:30	0	0	0	0	0
4:45	0	0	0	0	0
5:00	0	0	0	0	0
5:15	1	0	0	0	1
5:30	0	0	0	0	0
5:45	1	0	0	0	1
6:00	0	0	0	0	0
6:15	0	0	0	0	0
6:30	0	0	0	0	0
6:45	0	0	0	0	0
7:00	0	0	1	0	1
7:15	0	0	0	0	0
7:30	0	0	0	0	0
7:45	0	0	0	0	0
8:00	1	0	0	0	1
8:15	2	0	0	0 :	2
8:30	0	0	0	0	0
8:45	1	0	ō	0	1
9:00	0	0	1	0	1
9:15	0	0	0	0	0
9:30	0	1	0	0	1
9:45	0	0	0	0	0
10:00	0	0	0	0	0
10:15	0	0	0	0	0
10:30	0	0	0	0	0
10:45	0	2	0	0	2
11:00	0	1	0	0	1
11:15	ō	0	0	0	0
11:30	0	0	0	0	0
11:45	0	0	0	0	0
(5)					



City:

Garden Grove

Location:

12691 Pala Dr - TOTAL

Date:

3/3/20222

Count Type:

Driveway Classification Count

		·	Entering	γ	·
	Pass	Large			
	Veh	2 Axle	3 Axle	4+ Axle	Total
12:00	1	0	0	0	1
12:15	0	0	0	0	0
12:30	0	0	0	0	0
12:45	0	0	0	0	0
13:00	1	0	0	0	1
13:15	0	0	0	0	0
13:30	0	1	0	0	1
13:45	0	0	0	0	0
14:00	0	0	0	0	0
14:15	0	0	0	0	0
14:30	1	0	0	0	1
14:45	1	0	0	0	1
15:00	0	1	0	0	1
15:15	1	0	0	0	1
15:30	0	0	0	0	0
15:45	0	0	0	0	0
16:00	0	0	0	0	0
16:15	0	0	0	0	0
16:30	0	0	0	0	0
16:45	0	0	0	0	0
17:00	0	0	0	0	0
17:15	0	0	0	0 ;	0
17:30	2	- 0	0	0	2
17:45	0	0	0	0	0
18:00	0	0	0	0	0
18:15	0	0	0	0	0
18:30	0	0	0	0	0
18:45	0	0	0	0	0
19:00	0	0	0	0	0
19:15	0	0	0	0	0
19:30	0	0	0	0	0
19:45	0	0	0	0	0
20:00	0	0	0	0	0
20:15	0	0	0	0	0
20:30	0	0	0	0	0
20:45	0	0	0	0	0
21:00	1	0	0	0	1
21:15	0	0	0	0	0
21:30	0	0	0	0	0
21:45	0	0	0	0	0
22:00	0	0	0	0	0
22:15	0	0	0	0	0
22:30	0	0	0	0	0
22:45	0	0	0	0	0
23:00	0	0	0	0	0
23:15	0	0	0	0	0
23:30	0	0	0	0	0
23:45	0	0	0	0	0
TOTAL	14	6	2	0	22

		***************************************	Exiting		
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12:45	0	0	0	0	0
13:00	1	0	0	0	1
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13:30	0	1	0	0	1
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14:00	0	0	0	0	0
14:15	0	0	0	0	0
14:30	1	0	0	0	1
14:45	1	0	0	0	1
15:00	0	1	0	0	1
15:15	1	0	0	0	1
15:30	0	0	0	0	0
15:45	0	0	0	0	0
16:00	0	0	0	0	0
16:15	0	0	0	0	0
16:30	0	0	0	0	0
16:45	0	0	0	0	0
17:00	0	0	0	0	0
17:15	-0	0	- 0	0	0
17:30	2	0	0	0	2
17:45	0	0	0	0	0
18:00	0	0	0	0	0
18:15	0	0	0	0	0
18:30	0	0	0	0	0
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19:15	0	0	0	0	0
19:30	0	0	0	0	0
19:45	0	0	0	0	0
20:00	0	0	0	0	0
20:15	0	0	0	0	0
20:30	0	0	0	0	0
20:45	0	0	0	0	0
21:00	1	0	0	0	1
21:15	0	0	0	0	0
21:30	0	0	0	0	0
21:45	0	0	0	0	0
22:00	0	0	0	0	0
22:15	0	0	0	0	0
22:30	0	0	0	0	0
22:45	0	0	0	0	0
23:00	0	0	0	0	0
23:15	0	0	0	0	0
23:30	0	0	0	0	0
23:45	0	0	0	0	0
	14	6	2	0	22

ATTACHMENT B **EXISTING TRAFFIC COUNTS** URBAN CROSSROADS

A816

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION)
Prepared by AimTD LLC tet. 714 253 7888 cs@aimtd.com

CITY:

Tuesday, Nay 24, 2022

DATE:

Garden Grove

LOCATION:

AM PEAK HOUR AM PEAK VOLUME Knott south of Acada 12:00
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13:15 7:30 AM AM PEAK HOUR AM PEAK VOLUME 503466 JOB #:

2.43 2.87 2.87 2.87 2.87 2.87 2.87 2.87 3.83 3.82

LASS 1		TOTAL: AM+PM	17,763	1,620	255	373	20,011
LASS 2	N	% OF TOTAL	88.8%	8.1%	1.3%	1.9%	100.0%
CLASS 3 CLASS 4	3-AXLE TRUCKS 4 OR MORE AXLE TRUCKS						
		TOTAL: ALL	31,499	2,571	388	591	35,049
		% OF TOTAL	89.9%	7.3%	1.1%	1.7%	100.0%

24-HOUR ROADWAY SEGMENT COUNTS (WITH CLASSIFICATION) Prepared by AimTD LLC tel. 714 253 7888 cs@aimtd.com

4:30 PM TOTAL AM PEAK HOUR AM PEAK VOLUME Garden Grove Knott south of Acacia CITY: LOCATION: 12:00
12:45
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16:10 PM Time 7:00 AM TOTAL AM PEAK HOUR AM PEAK VOLUME Tuesday, May 24, 2022 SC3466 10:00 10:15 10:30 10:45 11:00 11:15 11:30 TIME Σ DATE: 30B #:

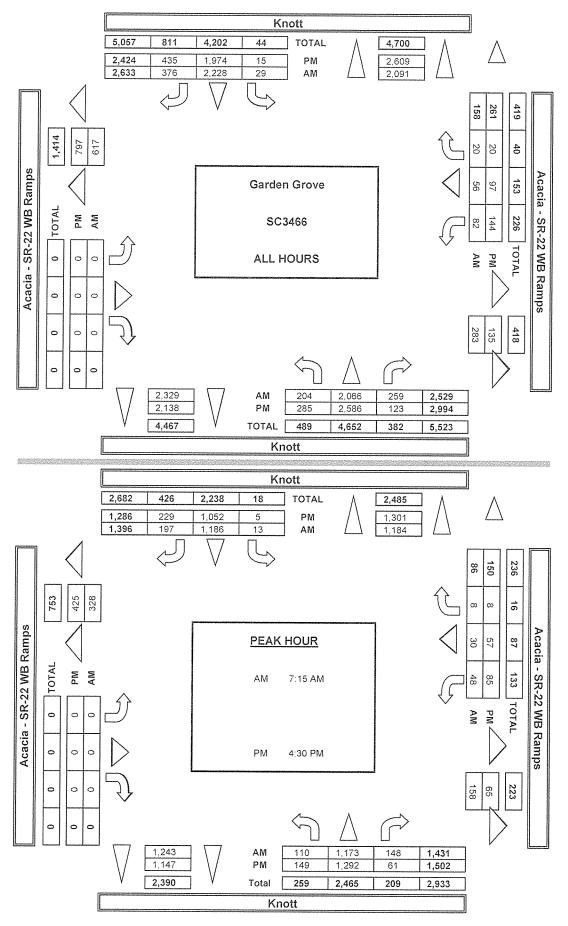
LASS 1	PASSENGER VEHICLES	TOTAL: AM+PM	13,736	951	133	218	15,038
CLASS 2	2-AXLE TRUCKS	% OF TOTAL	91.3%	6,3%	0.9%	1.4%	100.0%
LASS 3	3-AXLE TRUCKS						
LASS 4	4 OR MORE AXILE TRUCKS						

1,147

INTERSECTION TURNING MOVEMENT COUNTS PREPARED 5N: AimTD LLC. rel: 714 253 7682 is 8 aimtid com Garden Grove FROJECT #: SC3466 LOCATION #: 1

		REPARED BY: AmTO LLC. rel: 714					
DATE:	LOCATION:	Garden Grove	PROJECT				
Tue, May 24, 22	NCRTH & SOUTH: EAST & WEST;	Knett	LOCATION	(#: 1			
	LEAST & WEST:	Acecia	CONTROL	: SIGNAL		_	
NOTES:					A	1	
1	Queue 07:11-07:14, 07:24-07:	26, 07:32-07:35, 07:42-08:03, 08:	07, 08:33-08:51 38 AM; 16:15-	I I I I	N	900000-00000000000000	
	16:19, 16:23-16:30, 16:36-16:	39, 17:15-17:33, 17:45-17:48 58 (7M,		s	Green war ben	
					7	2	
	NORTHBOUND	SOUTHBOUND	EASTBOUND	WESTEGUND		U-TURNS	RTOR
	tacit	kreti	Koloa - 19 02 ISB Rumpa	Para - \$2-22 KS far		II GIONNIS	RIDR
LANES	NL NT NR	SL ST SR	EL ET ER	WL WT	WR TOTAL	NB SB EB WB TTL	NRR SRR ERR WRR
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7:00 AM 7:15 AM	20 210 29 22 248 27	4 277 53 2 328 56	0 0 0	8 6	0 607	1 0 0 0 1	6 17 0 3
7:30 AM	25 300 41	1 1 324 1 42	10 0 0	12 8	1 754	1 1 0 0 2 3 0 0 0 3	7 2 0 0
7:45 AM	37 335 53	3 289 58	0 0 0	7 S	3 793	3 1 0 6 4	7 15 0 1
8:00 AM 8:15 AM	26 290 27 24 268 31	7 245 41 4 235 54	0 0 0	16 10	4 666	2 1 0 0 3	2 14 0 3
8:30 AM		2 302 39	0 0 0	8 5 9 10	2 631 5 642	2 1 0 0 3	6 13 0 0
≤ 8:45 AM	27 192 22	6 228 33	0 0 0	9 5	5 527	3 1 1 0 0 4	
S:45 AM VOLUMES APPROACH %	264 2,066 259	29 2,228 376	0 0 0	82 56	20 5,320	19 5 0 0 24	36 95 0 11
APP/DEPART	8% 82% 10% 2,529 / 2,091	1% 85% 14% 2,633 / 2,329	0% 0% 0% 0%	52% 35%	13%		
BEGIN PEAK HR	7:15 AM	2,633 / 2,329	0 / 283	158 /	617 0	1	
VOLUMES	110 1,173 148	13 1,186 197	0 0 0	48 30	8 2,913		21 60 0 4
APPROACH % PEAK HR FACTOR	8% 82% 10% 0.842	1% 85% 14%	0% 0% 0%	56% 35%	9%		
APP/DEPART	1,431 / 1,184	0.904	0.000	0.717 86 /	0.918 328 0		
4:00 PM	43 279 15	3 230 68	0 0 0	23 15		C + 10 (0 10 13)	0 9 0 5
4:15 PM	33 362 18	5 254 58	0 0 0	15 9	4 758	4 1 0 0 5	1 0 1 2 1 0 1 3 1
4:30 PM 4:45 PM	38 272 19 32 332 20	2 266 64 1 240 48	0 0 0	36 21	3 721	2 0 0 0 2	3 1 7 0 1
5:00 PM	43 314 9	2 254 64	0 0 0	13 13 21 9	1 700 3 719	2 1 0 0 3 3 0 0 0 3	1 7 0 0 2 13 0 7
5:15 PM	35 374 13	0 292 53	0 0 0	15 14	798	3 6 6 6 3	6 + 3 - 5 - 6
\$:30 PM 5:45 PM	31 328 11 29 325 18	0 225 49	0 0 0	16 5	2 667	1 0 0 0 1	0 1 0 1
S:45 PM VOLUMES	29 : 325 18 285 2,586 123	2 213 31 15 1,974 435	0 0 0	5 11 144 97	3 637 20 5,679	2 1 0 0 3 20 3 0 0 23	
APPROACH SI	10% 86% 4%	1% 81% 18%	0% 0% 0%	55% 37%	8%	20 3 0 0 23	8 ! 42 : 0 : 12
APP/DEPART	2,994 / 2,609	2,424 / 2,138	0 / 135	261 /	797 0		
BEGIN PEAK HR VOLUMES	4:30 PM 1:49 1,292 61	5 1.052 229	0 0 0	85 57	8 2,933		7 7 70 0 4
APPROACH %	10% 85% 4%	0% 82% 15%	0% 0% 0%	57% 38%	5% 2,933		7 30 6 4
PEAK HR FACTOR	0.888	0.932	0.000	0.625	0.920	•	
APP/DEPART	1,502 / 1,301	1,285 / 1.147	0 / 65	150 /	425 0		
		Knott	}				
	***************************************	NORTH SIDE	L				
	Acacia WEST SID	É	EAST SIDE Acacia				
		SOUTH SIDE					
		Knott	I				
		PED AND BIKE	PEDEST	RIAN CROSSINGS		BICYCLE CROSSINGS	
7.55.31	E SIDE W SIDE		E SIDE W SIDE	S SIDE N SIDE	TOTAL	ES WS SS NS TOTAL	
7:00 AM 7:15 AM	- 1 1 1 1 1	2	0 0	0 0	0	0 1 0 0 1	
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7:45 AM	1 0	0 0 1	1 0	0 0	1	0 0 0 0	
\$:00 AM 8:15 AM	0 0	0 0 0	0 0	0 0	Ô	0 0 0 0 0	
8:30 AM		0 1 2	0 0	0 0	0	1 0 0 1 2	
S:4S AM	1 1 5 5	10 0 0	1 0 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		0	2 0 0 0 2	
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1.15.011	1 1 1	0 1 3	0 1	0 0	0 1	1 2 0 1 4 1 0 0 1 2	
5:00 PM	1 1	0 0 2	l î lî	0 0	- 2	0 0 0 0 0	
5:15 PM	0 3	0 0 3	0 0	0 0	0	0 3 0 0 3	
5:30 PM 5:45 PM	0 1	0 0 1	0 1 1	0 0	1	0 0 0 0 0	
TOTAL	3 11	0 2 16	0 0	0 0	7	0 0 0 0 0	
		<u> </u>	<u> </u>	<u> </u>		2 15 0 2 9	

AimTD LLC
TURNING MOVEMENT COUNTS



	DATE: 5/24/22 TUESDAY	LOCATION: NORTH & SOUTH: EAST & WEST:	Garden Grove Knott Acacia	PROJECT LOCATIC CONTRO	ON #: 1			
	CLASS 1: PASSENGER VEHICLES	NOTES:			A N S V	E D		
		NORTHBOUND Knott	SOUTHBOUND Knatt	EASTBOUND Acases	WESTBOUND Acascal		U-TURNS	RTOR
	LANES:	NL NT NR 1 2 1	SL ST SR 1 2 1	EL ET ER	WL WT WR 0 1 0	TOTAL	NB SB EB WB TTL	NRR
	7:00 AM 7:15 AM 7:30 AM 7:30 AM 8:00 AM 8:15 AM 8:30 AM 8:45 AM VOLUMES APPROACH % APP/DEPART	18 168 24 16 227 24 20 282 38 28 305 48 23 260 25 22 232 30 16 198 23 23 161 18 166 1,833 230 7% 82% 10% 2,229 f 1,853	4 259 43 1 305 43 1 299 28 2 258 49 7 220 32 4 212 41 2 277 27 5 199 25 26 2,029 288 1% 87% 12% 2,343 7 2,108	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 3 0 9 3 0 9 7 1 7 8 3 14 3 2 5 5 5 5 5 5 7 4 5 5 5 5 5 5 5 5 5	525 628 685 708 586 552 558 447 4,689	1 0 0 0 1 1 0 0 0 1 3 0 0 0 3 2 0 0 0 2 2 1 0 0 3 2 1 0 0 3 3 0 0 0 3 3 1 0 0 4 17 3 0 0 20	6 13 0 0 4 18 0 0 6 6 6 0 0 6 12 0 1 2 2 12 0 2 6 10 0 0 1 3 0 4 1 1 0 3 3 32 75 0 10
	BEGIN PEAK HR VOLUMES APPROACH % PEAK HR FACTOR APP/DEPART	7:15 AM 79 1,074 135 6% 83% 10% 0.850 1,296 / 1,081	10 1,082 152 1% 87% 12% 0.892 1,245 / 1,129	0 0 0 0% 0% 0% 0.000 0 / 145	39 21 6 59% 32% 9% 0.868 66 / 252	2,607 0.921 0		18 48 0 3
	4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:35 PM VOLUMES APPROACH % APP/DEPART	41 249 13 29 334 15 37 250 13 30 307 17 43 293 7 31 345 12 31 310 10 27 366 18 269 2,394 105 10% 86% 4% 62,768 7 2,46 6	3 218 63 5 231 51 2 256 54 1 222 47 2 242 60 0 280 51 0 214 48 2 199 29 15 1,862 403 1% 82% 18% 2,280 / 2,016	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19 15 3 15 7 4 36 19 3 11 12 0 20 8 3 15 14 1 15 5 2 5 11 3 136 91 19 55% 37% 8% 246 / 745	624 691 670 647 678 749 635 600 5,294	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 8 0 1 0 2 0 3 1 7 0 1 0 7 0 0 2 13 0 3 0 3 0 0 0 1 0 1 1 0 0 3 4 41 0 12
	BEGIN PEAK HR VOLUMES APPROACH % PEAK HR FACTOR APP/DEPART	4:30 PM 133 1,195 49 10% 86% 4% 0.892 1,385 / 1,203	4 1,000 212 0% 82% 17% 0.919	0 0 0 0% 0% 0% 0.000	82 53 7 58% 37% 5% 0.612 142 / 398	2,744 0.916 0		3 30 0 4
_			Knott NORTH SIDE					
		Acacia WEST SID	E	EAST SIDE Acacia				
			SOUTH SIDE Knott					

	<u>DATE:</u> 5/24/22 TUESDAY	LOCATION: NORTH & SOUTH: EAST & WEST:	RED BY: AIMTD LLC. tel: 71 Garden Grove Knott Acacia	14 253 7888 CS@aimtd.com PROJEC LOCATI CONTRI	T#: SC3466 ON #: 1			
	CLASS 2: 2-AXLE WORK VEHICLES/ TRUCKS	NOTES:			■W	N E >	Province of the state of the st	
		NORTHBOUND Knott	SOUTHBOUND Knests	EASTBOUND AGREGA	WESTEOUND AGEGIA		U-TURNS	RTOR
	LANES:	NL NT NR 1 2 1	SL ST SR 1 2 1	EL ET ER	WL WT	VR TOTAL	NB SB EB WB TTL	NRR SRR ERR WRR
AM	APPROACH % APP/DEPART	2 23 4 4 10 2 5 10 2 8 25 4 2 21 1 0 27 1 2 14 4 4 19 2 27 149 20 14% 76% 10% 196 / 154	0 13 8 1 18 10 0 19 10 1 20 7 0 15 9 0 16 12 0 16 10 1 22 6 3 139 72 1% 65% 34% 214 / 158	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	65 58 60 54 57 446	0 0 0 0 0 0 0 1 0 0 1 0 0 0 0 0 1 1 0 0 0 1 1 0 0 2 0 1 1 2 0 0 3	0 3 0 0 1 4 0 0 1 2 0 0 1 3 0 0 0 2 0 1 0 3 0 0 1 1 0 0 0 0 0 0 4 18 0 1
***************************************	BEGIN PEAK HR VOLUMES APPROACH % PEAK HR FACTOR APP/DEPART	7:15 AM 18 66 9 19% 70% 10% 0.635 94 / 70	0 72 36 0% 65% 33% 0.948	0 0 0 0% 0% 0% 0.000	7 8 2 41% 47% 1 0.425	0.850		3 11 0 1
μd	4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM VOLUMES APP/DEPART	2	0 9 4 0 15 4 0 9 8 0 14 1 0 8 3 0 11 2 0 7 1 0 9 2 0 82 25 0% 77% 23% 107 / 89	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	33 45 40 35 28 31 23 20 255	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	BEGIN PEAK HR VOLUMES APPROACH % PEAK HR FACTOR APP/DEPART	4:30 PM 4 57 10 5% 78% 14% 0.869 73 / 58	0 42 14 0% 75% 25% 0.824 56 / 45	0 0 0 0% 0% 0% 0.000 0 / 10	1 3 1	134 0.838		3 0 0 0
			Knott NORTH SIDE				•	
		Acacia WEST SIDE		EAST SIDE Acacia				
			SOUTH SIDE Knott					

	DATE; 5/24/22 TUESDAY CLASS 3:	LOCATION: NORTH & SOUTH: EAST & WEST:	EPARED BY: AimTD LLC, tel: 71 Garden Grove Knott Acacia	4 253 7888 CS@aimtd.com PROJEC LOCATT CONTRO	ON #: 1	N. C. A. S. A.	3	
	3-AXLE TRUCKS				N N S	EÞ		
		NORTHBOUND Knett	SOUTHBOUND Knott	EASTBOUND Acada	WESTBOUND Acada		U-TURNS	RTOR
	LANES:	NL NT NR 1 2 1	SL ST SR 1 2 1	EL ET ER X X	WL WT WR 0 1 0	TOTAL	NB SB EB WB TTL	NRR SRR ERR WRR 0 0 X 0
	7:00 AM 7:15 AM 7:15 AM 7:30 AM 7:45 AM 8:00 AM 8:15 AM 8:30 AM VOLUMES APPROACH % APP/DEPART BEGGIN PEAK HR	0 8 0 1 2 0 0 2 0 1 0 0 0 4 0 0 1 0 3 3 0 0 2 0 15 22 0 15% 81% 0% 27 / 22 7.15 AM	0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 0 0 4 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 6 6 3 9 2 48	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
**************************************	VOLUMES APPROACH % PEAK HR FACTOR APP/DEPART	2 8 0 20% 80% 0% 0.625	0 13 2 0% 87% 13% 0.536 15 / 14	0 0 0 0% 0% 0% 0.000	1 0 0 100% 0% 0% 0.250	26 0.813		0 0 0 0
	4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:35 PM 5:45 PM VOLUMES APPROACH % APP/DEPART BEGIN PEAK HR	0 6 0 0 8 0 0 5 1 0 7 0 0 3 0 2 6 0 0 4 0 0 6 0 2 45 1 4% 94% 2% 48 / 45	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 11 6 10 4 8 4 7 58	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
STREET,	VOLUMES APPROACH % PEAK HR FACTOR APP/DEPART	2 21 1 8% 88% 4% 0.750 24 / 21	0 3 0 0% 100% 0% 0.375	0 0 0 0% 0% 0% 0.000	1 0 0 100% 0% 0% 0.250	28 0.700		0 0 0 0
L	(1) C/ DUFTAN	1.27	Knott NORTH SIDE	0 / 1		0		
		Acacia WEST SID	E	EAST SIDE Acacia				
		***************************************	SOUTH SIDE Knott					

	DATE: 5/24/22 TUESDAY CLASS 4:	LOCATION: NORTH & SOUTH: EAST & WEST: NOTES:	Garden Grove Knott Acacia	.4 253 7888 CS@aimta.com PROJEC LOCATI CONTR	TT #: SC3466 ION #: 1 OL: SIGNAL	CONTROL CONTRO	~	
	4 OR MORE AXLE TRUCKS	NOTES.			A N	E D		
		NORTHBOUND Knockt	SOUTHBOUND Kriett	EASTBOUND Acade	WESTBOUND		U-TURNS	RTOR
	LANES:	NL NT NR 1 2 1	SL ST SR 1 2 1	EL ET ER	WL WT WR	TOTAL	NB SB EB WB TTL	NRR SRR ERR WRR
0 M	7:00 AM 7:15 AM 7:30 AM 7:345 AM 8:00 AM 8:15 AM 8:30 AM 8:33 AM VOLUMES APP/DEPART	0 8 1 1 6 1 0 4 1 1 2 1 2 7 0 1 8 2 0 10 2 5 49 9 8% 78% 14% 63 / 49	0 3 2 0 2 2 0 1 4 0 4 1 0 6 0 0 5 1 0 6 2 0 7 2 0 34 14 0% 71% 29%	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 1 0	15 12 11 10 11 15 19 21	0 0 0 0 0 0 0 0 0 0 0	0 0 X 0 0 1 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	BEGIN PEAK HR VOLUMES APPROACH % PEAK HR FACTOR APP/DEPART	63 / 49 7:15 AM 2 16 4 9% 73% 18% 0.688 22 / 16	0 13 7 0% 65% 35% 0.833 20 / 14	0 / 9 0 0 0 0% 0% 0% 0.000 0 / 4	3 / 21 1 1 0 50% 50% 0% 0.500 2 / 10	0 44 0.917 0		0 1 0 0
Wd	4:00 PH 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM VOLUMES APPROACH % APPPOEPART	0 9 0 0 1 0 0 2 0 0 4 1 0 3 0 0 7 0 0 1 5 0 1 5 0 1 32 3% 34 / 32	0 2 1 0 5 1 0 0 2 0 0 2 0 0 0 0 3 1 0 0 0 0 4 0 0 3 0 0 0 77% 23% 22 / 18	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	12 8 4 6 8 7 5 9	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	BEGIN PEAK HR VOLUMES APPROACH % PEAK HR FACTOR APP/DEPART	4:30 PM 0 16 1 0% 94% 6% 0.607 17 / 16	0 3 3 0% 50% 50% 0.375 6 / 4	0 0 0 0% 0% 0% 0.000 0 / 1	3 / 8 1 1 0 50% 50% 0% 0.500 2 / 4	0 25 0.781 0		1 0 0 0
		WEAT AND A STATE OF THE STATE O	Knott NORTH SIDE				•	
		Acacia WEST SIDE	SOUTH SIDE [EAST SIDE Acacia				
			Knott					

INTERSECTION TURNING MOVEMENT COUNTS PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com Garden Grove PROJECT #:

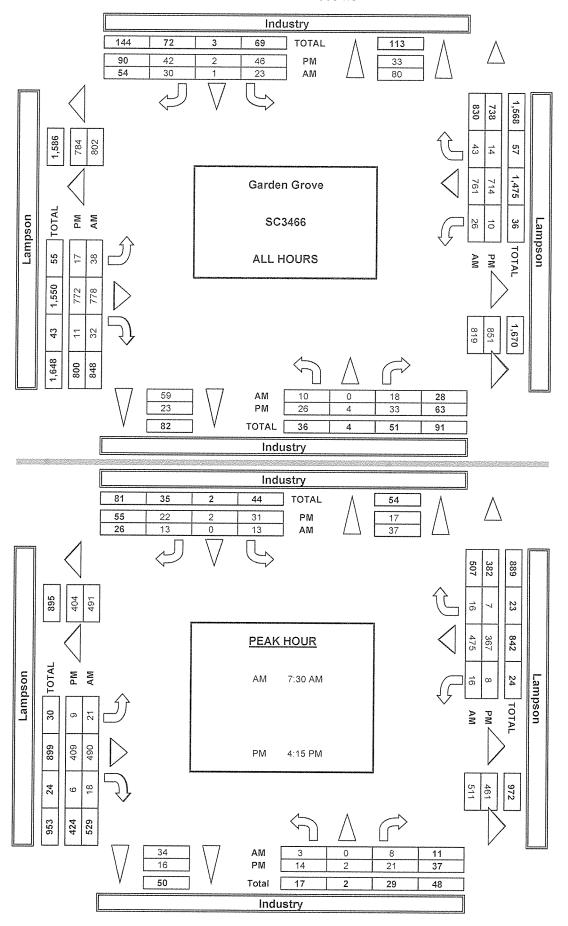
	5/24/22 TUESDAY	NORTH & SOUTH: EAST & WEST:	Knott Acacia	LOCATI CONTRO	ON #: 1			
	CLASS 5: RV	NOTES:			N N S	E>		
		NORTHBOUND Knott	SOUTHBOUND Knott	EASTBOUND Acada	WESTBOUND Acasia	***************************************	U-TURNS	RTOR
	LANES:	NL NT NR 1 2 1	SL ST SR 1 2 1	EL ET ER	WL WT WR	TOTAL	NB SB EB WB TTL	NRR SRR ERR WRR 0 0 X 0
ΔM	APPROACH % APP/DEPART	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	BEGIN PEAK HR VOLUMES APPROACH % PEAK HR FACTOR APP/DEPART	7:15 AM 0 0 0 0% 0% 0% 0.000	0 0 0 0% 0% 0% 0.000	0 0 0 0% 0% 0% 0.000	0 0 0 0% 0% 0% 0.000	0 0.000 0		0 0 0 0
Wd	4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM VOLUMES APPROACH % APP/DEPART	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	BEGIN PEAK HR VOLUMES APPROACH % PEAK HR FACTOR APP/DEPART	4:30 PM 0 0 0 0% 0% 0% 0.000 0 / 0	0 0 0 0% 0% 0% 0.000	0 0 0 0% 0% 0% 0.000 0 / 0	0 0 0 0% 0% 0% 0.000 0 / 0	0 0.000 0		0 0 0 0
		411111111111111111111111111111111111111	Knott NORTH SIDE		-			
		Acacia WEST SIDE	SOUTH SIDE Knott	EAST SIDE Acacia				

	<u>DATE:</u> 5/24/22 TUESDAY	LOCATION: NORTH & SOUTH: EAST & WEST:	Garden Grove Knott Acacia	PROJECT LOCATIC CONTRO	ON #: 1			
	CLASS 6: BUSES	NOTES:			N N S ¥	EÞ		
	***************************************	NORTHBOUND	SOUTHBOUND	EASTBOUND	WESTBOUND		U-TURNS	RTOR
	LANES:		SL ST SR 1 2 1	Acasia EL ET ER X X X	# Acaca WR WR 0 1 0	TOTAL	NB SB EB WB TTL	NRR SRR ERR WRR 0 0 X 0
AM	7:00 AM 7:15 AM 7:15 AM 7:45 AM 8:00 AM 8:15 AM 8:45 AM VOLUMES APPROACH % APP/DEPART	0 3 0 0 3 0 0 2 0 0 1 0 0 1 0 0 1 0 0 0 0 0 0 0 0 13 0 0 0 13 0 0 0 0 0 10% 0%	0 2 0 0 2 0 0 1 0 0 1 0 0 2 0 0 0 0 0 0 0 0 1 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5 5 3 2 5 1 1 0 22	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
-	BEGIN PEAK HR VOLUMES APPROACH % PEAK HR FACTOR APP/DEPART	7:15 AM 0 9 0 0% 100% 0% 0.750 9 / 9	0 6 0 0% 100% 0% 0.750 6 / 6	0 0 0 0% 0% 0% 0.000	0 0 0 0% 0% 0% 0.000	15 0.750 0		0 0 0 0
Md	4:00 PM 4:15 PM 4:15 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM VOLUMES APPROACH % APPPOEPART	0 2 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0 0 2 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 3 1 2 1 3 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	BEGIN PEAK HR VOLUMES APPROACH % PEAK HR FACTOR APP/DEPART	4:30 PM 0 3 0 0% 100% 0% 0.375	0 4 0 0% 100% 0% 0.500	0 0 0 0% 0% 0% 0.000	0 0 0 0% 0% 0% 0.000	0 7 0.583		0 0 0 0
L	JAPP/DEPART] 3 / 3	Knott NORTH SIDE	0 / 0	0 / 0	0	l .	
		Acacia WEST SID	E	EAST SIDE Acacia				
			SOUTH SIDE					
			Knott	1				

INTERSECTION TURNING MOVEMENT COUNTS PREPARED BY: AMTO LLC. rel: 714 283 7880 cs@amet.com Garden Grove PROJECT at: LOCATION at: LOCATION at:

	DATE:	PRE LOCATION:	PARED BY: AlmiTD LLC, rel: 714 Garden Grove	253 75 8 3 cs/g a/mtg.com PROJECT	#: SC3466			
	Toe, May 24, 22	NORTH & SOUTH: EAST & WEST:	Industry Lampson	LOCATION CONTROL	1 m; 2			
	NOTES:		***************************************	CONTROL	A	T	1	
					■ N	E >		
					S ¥		And to Filter in Early Genry,	
		NORTHEGUND Industry	SOUTHBOUND	EASTBOUND	WESTBOUND		U-TURNS	RTOR
	LANES:	NL NT NR 0 1 0	SL ST SR	EL ET ER	WL WT WR	TOTAL	N8 SB EB WE TTL	NRR SRR ERR WAR
П	7:00 am 7:15 am	1 0 2	2 0 5	8 67 8	4 63 9	169	0 0 0 0 0	
	7:30 AM 7:35 AM 7:45 AM	0 0 0	2 0 1	2 68 2 4 86 4	1 77 9 2 144 3	168 246	0 0 0 0 0	0 0 0 0
	8:00 AM 8:15 AM	0 0 2	3 0 6 4 0 3	5 150 5 10 142 6	11 177 3 2 70 4	396 243	0 0 0 0 0	0 0 0 0
	5:30 AM	1 0 5	4 0 3 3 0 5	2 82 3 4 85 1	1 84 6 1 74 6	188 185	0 0 0 0 0	0 0 0 0
AM	8:45 AM VOLUMES	1 0 2 10 0 18	5 1 3 23 1 30	3 68 3 38 778 32	4 72 3 26 761 43	165 1,760	0 0 1 0 1	0 0 0 0
1 [APPROACH % APP/DEPART	36% 0% 64% 28 / 80	43% 2% 56% 54 / 59	4% 92% 4% 848 / 819	3% 92% 5% 830 / 802	0		<u> </u>
11	BEGIN PEAK HR VOLUMES	7:30 AM 3 0 8	13 0 13	21 490 18	16 475 16	1,073	٠	
1 1	APPROACH % PEAK HR FACTOR	27% 0% 73% 0.458	50% 0% 50% 0.722	4% 93% 3% 0.695	3% 94% 3% 0.664	0.677		0 1 0 1 0 1 0
H	APP/DEPART 4:00 FM	11 / 37 8 1 1 4	26 / 34 5 0 8	529 / S11	507 / 491	0		,
11	4:15 PM 4:30 PM	5 0 3	7 0 5	3 89 0 3 102 5	0 87 3 1 91 1 3 80 1	223 205 228	0 0 1 0 1	0 0 0 0
	4:45 PM 5:00 PM	3 2 2	5 1 1 10 0 8	2 102 0	3 92 1	214	0 0 0 0 0	0 0 0 0
	5:15 PM 5:30 PM		7 0 3	1 116 1 1 85 2	1 104 4 0 99 3	251 203	0 0 1 0 1 0 0 0 0 0 0 0 0 0	0 0 0 0
ž.	5:45 PM /OLUMES	2 0 2	1 0 3	4 98 0 1 79 0	0 77 1 2 84 0	193 174	0 0 0 0 0	0 0 0 0
1 6	APPROACH %	41% 6% 52%	45 2 42 51% 2% 47%	17 772 11 2% 97% 1%	10 714 14 1% 97% 2%	1,691	0 0 2 0 2	0 0 0 0
1 1	APP/DEPART SEGIN PEAK HR	63 / 33 4:15 PM	90 / 23	800 / 851	738 / 784	0		
	VOLUMES APPROACH %	14 2 21 38% 5% 57%	31 2 22 56% 4% 40%	9 409 6 2% 96% 1%	8 367 7 2% 96% 2%	898		
	PEAK HR FACTOR NPP/DEPART	0.578 37 / 17	0.764 5\$ / 16	0.898 424 / 461	0.876 382 / 404	0.894		
		l	Industry					
			NORTH SIDE					
		Lampson WEST SIDE		EAST SIDE Lampson				
			SOUTH SIDE					
			Industry					
	***************************************	ALL F	PED AND BIKE		IAN CROSSINGS		BICYCLE CROSSINGS	
T	7:00 AM	E SIDE W SIDE	0 1 1	E SIDE W SIDE	0 0		ES WE SS NS TOTAL	
	7:15 AM 7:30 AM	0 0	0 1 1	0 0			0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
¥ -	7:45 AM 8:00 AM	0 0	0 4 4	0 0	0 2 2		0 0 0 2 2 0 0 0 0	
F	8:15 AM 8:30 AM	0 0	0 2 2 1 2 3	0 0	0 2 2		0 0 0 0	
F	S:45 AM TOTAL	0 0 :	1 0 1 2 14 16	0 0	1 0 1		0 0 0 0 0	
H	4:00 PM 4:15 PM	0 0	0 1 1	0 0	0 1 1		0 0 1 6 7	
	4:30 PM	0 0	0 1 1 0 0	0 0	0 1 1		0 0 0 0 0	
Ξ.	4,45 PM 5:00 PM	0 0	1 0 1 0 2 2	0 0	0 0 0 0		0 0 1 3 1	
1	5:15 PM 5:30 PM	0 0	0 3 3	0 0	0 2 2		0 0 0 1 1	
H	5:45 PM TOTAL	0 0	2 0 2 3 7 10	0 0	0 0 0		0 0 2 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	

AimTD LLC
TURNING MOVEMENT COUNTS



	DATE: 5/24/22 TUESDAY	LOCATION: NORTH & SOUTH: EAST & WEST:	Garden Grove Industry Lampson	PROJECT #: LOCATION # CONTROL:				
	CLASS 1: PASSENGER VEHICLES	NOTES:			A N S V	Eδ		
		NORTHBOUND Industry	SOUTHBOUND Industry	EASTBOUND	WESTBOUND		U-TURNS	RTOR
	LANES:	NL NT NR 0 1 0			Lampson WR WR 1 2 0	TOTAL	NB SB EB WB TTL	NRR SRR ERR WRR
AM	7:00 AM 7:15 AM 7:15 AM 7:45 AM 8:00 AM 8:15 AM 8:30 AM 8:45 AM VOLUMES APPROACH % APPP/DEPART	1 0 1 1 0 0 0 0 0 0 0 0 0 5 0 0 0 0 2 0 0 0 0 0 3 1 0 1 5 0 11 31% 0% 69%	1 0 4 0 0 3 2 0 1 1 0 3 3 0 1 4 0 1 1 0 2 3 1 2 3 1 2 3 1 2 3 1 5 15 1 7 45% 3% 52%	4 58 7 2 2 62 1 1 4 81 4 2 5 5 175 5 8 9 132 6 2 1 75 2 1 3 77 1 1 1 57 2 1 2 9 717 28 24 4% 93% 4% 3 774 7743 75	63 6 135 3 170 3 63 3 79 5 66 4 65 3 0 695 36	143 140 232 375 219 170 158 137 1,574	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	BEGIN PEAK HR VOLUMES APPROACH % PEAK HR FACTOR APP/DEPART	7:30 AM 2 0 5 29% 0% 71% 0.350 7 / 33	10 0 6	19 463 17 1	3 447 14 % 94% 3% 0.655	996 0.664 0		0 0 0 0
Md	4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM VOLUMES	8 1 3 5 0 3 5 0 11 3 2 1 1 0 4 1 0 1 1 1 4 2 0 2 26 4 29	4	1 87 2 0 2 82 0 1 1 88 3 3 1 92 0 3 1 102 1 1 1 77 1 0 2 91 0 0 0 73 0 0 9 692 7 9	85 1 84 0 76 0 90 1 101 1 94 2 72 0 83 0	199 187 201 198 228 186 176 165 1,540	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	APPROACH % APP/DEPART BEGIN PEAK HR VOLUMES APPROACH % PEAK HR FACTOR APP/DEPART	44%	74 / 18 24 2 19 53% 4% 42% 0.703	708 / 757 69 4 364 4 8 1% 98% 1% 2 0.897	351 2 % 97% 1% 0.876	0 814 0.893		0 0 0 0
L	JAPP/DEPART	J 33 / 8	45 / 14 Industry NORTH SIDE	373 / 407 36	1 / 385	0		
		Lampson WEST SIG	DE	EAST SIDE Lampson				
			SOUTH SIDE Industry					

INTERSECTION TURNING MOVEMENT COUNTS PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com Garden Grove PROJECT #:

	<u>DATE:</u> 5/24/22 TUESDAY	LOCATION: NORTH & SOUTH: EAST & WEST:	Garden Grove Industry Lampson	PROJEC LOCATI CONTRI	ON #: 2			
	CLASS 2: 2-AXLE WORK VEHICLES/ TRUCKS	NOTES:			A N S	E A		
		NORTHBOUND Industry	SOUTHBOUND	EASTBOUND	WESTBOUND		U-TURNS	RTOR
	LANES:	NL NT NR 0 1 0	Industry SL ST SR 0 1 0	EL ET ER 1 2 0	WL WT WR	TOTAL	NB SB EB WB TTL	NRR SRR ERR WRR X X X X
MA	7:00 AM 7:15 AM 7:30 AM 7:45 AM 8:00 AM 8:15 AM 8:30 AM 8:45 AM VOLUMES APPROACH % APP/DEPART	0 0 1 3 0 0 0 0 0 0 0 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 5 0 6 45% 0% 55% 11 / 12	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4	0 7 0 0 12 1 0 8 0 3 4 0 0 6 1 0 7 1 0 7 1 3 4 0 6 52 4 10% 84% 6% 62 / 68	19 22 12 15 17 15 23 22 145	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	BEGIN PEAK HR VOLUMES APPROACH % PEAK HR FACTOR APP/DEPART	7:30 AM 1 0 2 33% 0% 67% 0.750 3 / 4	2 0 7 22% 0% 78% 0.563	2 17 1 10% 85% 5% 0.714 20 / 21	3 22 2 11% 81% 7% 0.844 27 / 30	59 0.868 0		0 0 0 0
Md	4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:35 PM 5:45 PM VOLUMES APPROACH %	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 0 1 2 0 0 1 0 1 1 0 1 0	0 9 1 1 6 0 2 9 1 1 4 0 0 6 0 0 4 0 2 5 0 1 2 0 7 45 2 13% 83% 4%	0 1 1 0 6 1 0 4 0 0 2 0 0 3 2 0 5 0 0 4 1 1 1 0 1 26 5 3% 81% 16%	15 16 18 10 13 9 14 5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	APP/DEPART BEGIN PEAK HR VOLUMES APPROACH % PEAK HR FACTOR APP/DEPART	2 / 12 4:15 PM 0 0 2 0% 0% 100% 0.500 2 / 7	12 / 3 4 0 3 57% 0% 43% 0.875 7 / 1	54 / 53 4 25 1 13% 83% 3% 0,625 30 / 31	32 / 32 0 15 3 0% 83% 17% 0.643 18 / 18	0 57 0.792 0		0 0 0 0
Secure	ii C 2002 (1900) (1900) (1900) (1900) (1900)		Industry NORTH SIDE			***************************************	1	
	L	ampson WEST SIDE		EAST SIDE Lampso	on			
			SOUTH SIDE		-			
			Industry					

	<u>DATE:</u> 5/24/22 TUESDAY	NORTH & EAST & W	SOUTH:	Indu	len Grove istry pson				PROJEC LOCATION CONTRO	ON #:	SC3466 2 STOP N							
	CLASS 3: 3-AXLE TRUCKS	NOTES:									4 W	A N S ▼	E>					
		1	THEOUND Industry		SOUTHBOU Industry	JND		EASTBOUI Lampson	ND	V	VESTBOU Lampson	ND		U-TURNS		Rī	ror .	~
	LANES:	NL 0		NR S	L ST	SR 0	EL 1	ET 2	ER 0	WL 1	WT 2	WR 0	TOTAL	NB SB EB WB TTL	NRR X	SRR X	ERR X	WRR X
AM	7:00 AM 7:15 AM 7:30 AM 7:45 AM 8:00 AM 8:15 AM 8:30 AM 8:45 AM VOLUMES APPROACH % APPP/DEPART	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	L 0 0 0 0 0 0 0 0 0 L 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 0 1 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	2 0 1 0 1 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0
	BEGIN PEAK HR VOLUMES APPROACH % PEAK HR FACTOR APP/DEPART	0 0%	30 AM 0 : 0% 10 1.250	. 0	0 0% 0.000	0 0%	0 0%	1 100% 0.250	0 0%	0 0%	0 0% 0.000	0 0%	2 0.500 0		0	<u> </u>	0 1	0
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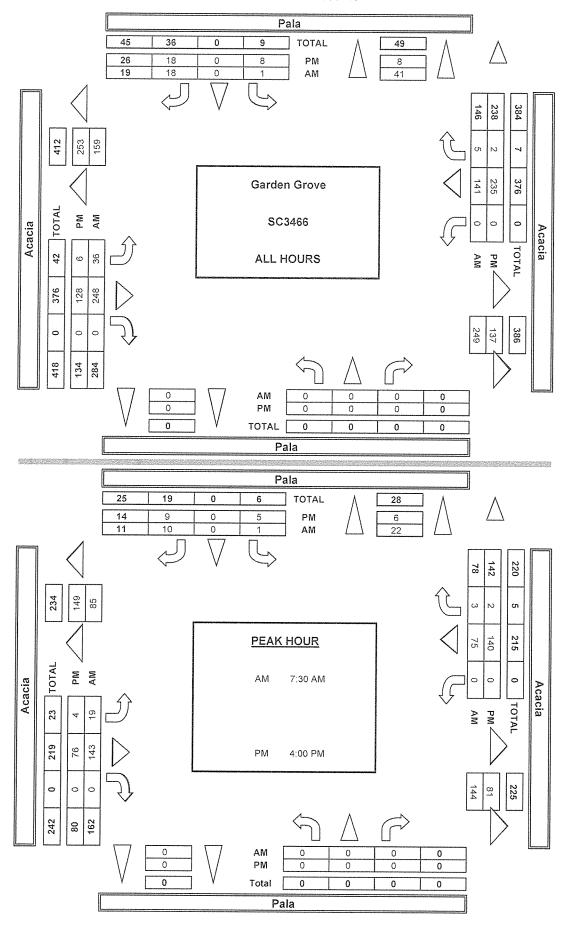
	<u>DATE:</u> 5/24/22 TUESDAY	LOCATION: NORTH & SOUTH: EAST & WEST:	RED BY: AimTD LLC. tel: 71 Garden Grove Industry Lampson	.4 253 7888 Cs@aimtd.com PROJEC LOCATI CONTRI	TT #: SC3466 ON #: 2		_	
	CLASS 4: 4 OR MORE AXLE TRUCKS	NOTES:			N S	E >		
		NORTHBOUND Industry	SOUTHBOUND Industry	EASTBOUND Lampson	WESTBOUND Lampson		U-TURNS	RTOR
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	DATE: 5/24/22 TUESDAY	LOCATION: NORTH & SOUTH: EAST & WEST:	Garden Grove Industry Lampson	PROJEC LOCATI CONTRO	ON #: 2					
	CLASS 5: RV	NOTES:			N N S	EA				
		NORTHBOUND Industry	SOUTHBOUND	EASTBOUND	WESTBOUND		U-TURNS		RTOR	
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	DATE: 5/24/22 TUESDAY	LOCATION: NORTH & SOUTH: EAST & WEST;	Garden Grove Industry Lampson	PROJECT LOCATIO CONTRO	ON #: 2				
	CLASS 6: BUSES	NOTES:			A N S W	EA			
		NORTHBOUND	SOUTHBOUND	EASTBOUND	WESTBOUND		U-TURNS	RTO	R
	LANES:		Industry SL ST SR 0 1 0	EL ET ER 1 2 0	WL WT WR	TOTAL	NB SB EB WB TTL	NRR SRR X X	ERR WRR
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		ampson WEST SIDE	Industry NORTH SIDE	EAST SIDE Lampson	entre de la companya	U			
			Industry						

INTERSECTION TURNING MOVEMENT COUNTS PREPARED BY: AmitD LLC. tel: 714 253 7688 cs @aintif.com LOCATION: NORTH & SOUTH: EAST & WEST; <u>DATE:</u> Tue, May 24, 22 PROJECT #: LOCATION #: CONTROL: \$03466 3 STOP S Queue 4:20 W8 PM E > S V Charles have be been been RTOR WESTERUND U-TURNS WT TOTAL WL. WR NRR SRR LANES 49 47 61 74 68 48 57 45 449 248 36 13% 10 91% 143 88% 0.750 19 12% 75 96% 0.722 251 0 0% 0 0% 3 4% 0.848 57 49 79 51 46 43 35 37 5:45 PM 398 PPYDEPART PEGIN PEAK HR POLUMES PPROACH % EAK HR FACTOR 76 95% 0.909 0 0% 0 0% 5 36% 9 64% 4 5% 0 0% 2 1% 236 Pala NORTH SIDE WEST SIDE Acacia EAST SIDE Acacia SOUTH SIDE Pala ALL PED AND BIKE PEDESTRIAN CROSSINGS BICYCLE CROSSINGS ES I WS I SS I NS TOTAL 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM

AimTD LLC
TURNING MOVEMENT COUNTS



INTERSECTION TURNING MOVEMENT COUNTS PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com Garden Grove PROJECT #: SC3466

		P	REPARED BY: AimTD LLC. tel: 71	4 253 7888 cs@aimtd.com	· 			
	DATE: 5/24/22 TUESDAY	LOCATION: NORTH & SOUTH: EAST & WEST:	Garden Grove Pala Acacia	PROJEC LOCATI CONTRO	ON #: 3			
	CLASS 1:	NOTES:			A	1	7	
	PASSENGER VEHICLES				▼ N S V	E Þ		
		NORTHBOUND	SOUTHBOUND	EASTBOUND	WESTBOUND		U-TURNS	RTOR
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_	7:00 AM						<u> </u>	X X X X
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	<u>DATE:</u> 5/24/22 TUESDAY	LOCATION: NORTH & SOUTH: EAST & WEST:	Garden Grove Pala Acacia	PROJEC LOCATI CONTRO	ON #: 3			
	CLASS 2: 2-AXLE WORK VEHICLES/ TRUCKS	NOTES:			N N S	E >		
		NORTHEOUND Pala	SOUTHBOUND Feb	EASTBOUND Associa	WESTBOUND		U-TURNS	RTOR
	LANES:	NL NT NR X X X	SL ST SR 0 X 0	EL ET ER 0 1 X	Acacia WL WT WR X 1 0	TOTAL	NB SB EB WB TTL	NRR SRR ERR WRR
AM	7:00 AM 7:15 AM 7:35 AM 7:45 AM 8:00 AM 8:15 AM 8:30 AM 8:45 AM VOLUMES APPROACH % APP/DEPART BEGIN PEAK HR	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 2 0 0 0 2 0 0 0 0 0 0 2 0 0 0 0 0 0 2 1 0 0 0 0 0 1 0 0 0 1 1 0 7 13% 0% 88% 8 / 0	0	0 3 0 0 3 0 0 2 0 0 3 0 0 5 0 0 4 0 0 6 0 0 3 0 0 29 0 0% 100% 0% 29 / 36	8 5 7 5 9 7 11 6 58 0	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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L	APP/DEPART	0 / 1	1 / 0	9 / 8	4 / 5	0.700		
			Pala NORTH SIDE					
		Acacia WEST SIDE		EAST SIDE Acacia				
			SOUTH SIDE					
			Pala					

	DATE: 5/24/22 TUESDAY CLASS 3:	LOCATION: NORTH & SOUTH: EAST & WEST:	REPARED BY: AIMTD LLC, tel: 71 Garden Grove Pala Acacia	4 253 7888 CS@aimtd.com PROJEC' LOCATIC CONTRO	ON #: 3		-	
	3-AXLE TRUCKS	NOTES:			M N S V	E >	Assertant and as	
	THE RESERVE AND THE PARTY OF TH	NORTHBOUND Paia	SOUTHBOUND Para	EASTBOUND	WESTBOUND		U-TURNS	RTOR
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		Acacia WEST SI	DE	EAST SIDE Acacia				
			SOUTH SIDE	VIV				
			Pala					

INTERSECTION TURNING MOVEMENT COUNTS PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com Garden Grove PROJECT #: SC3466

	DATE: 5/24/22 TUESDAY	LOCATION: NORTH & SOUTH: EAST & WEST:	RED BY: AIMTD LLC. tel: 7: Garden Grove Pala Acacia	14 253 7888 CS@aimtd.com PROJEC LOCATIO CONTRO	T #: SC3466 ON #: 3 DL: STOP S		-	
	CLASS 4: 4 OR MORE AXLE TRUCKS	NOTES:			N S	E >		
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A N.S.	7:00 AM 7:15 AM 7:30 AM 7:45 AM 8:00 AM 8:15 AM 8:30 AM 8:45 AM VOLUMES APPROACH % APP/DEPART BEGIN PEAK HR	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	2 2 1 2 0 2 2 2 13	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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Sacrage			Pala NORTH SIDE			inner a river a samuel	•	
		Acacia WEST SIDE	:	EAST SIDE Acacia				
			SOUTH SIDE					
			Pala					

INTERSECTION TURNING MOVEMENT COUNTS PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com Garden Grove PROJECT #: SC3466

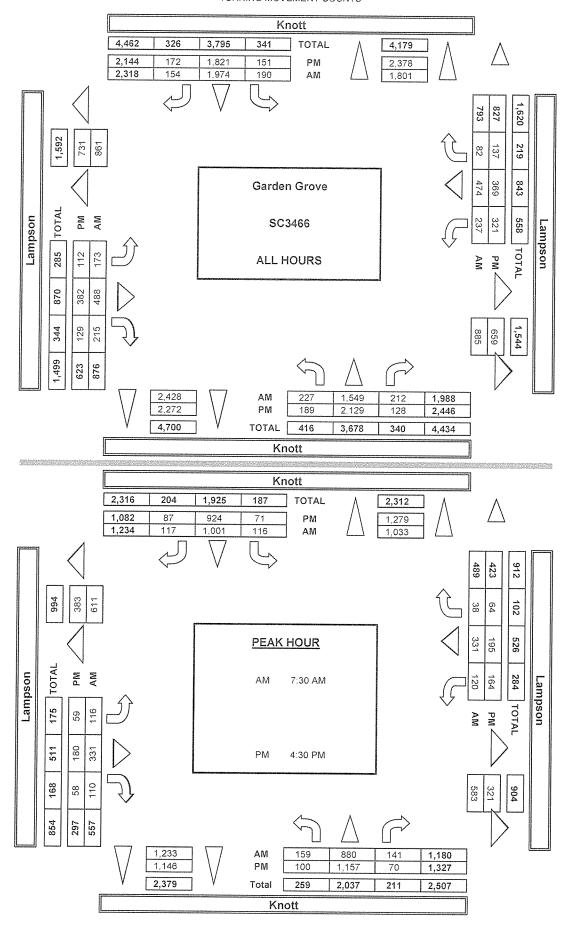
	DATE: 5/24/22 TUESDAY CLASS 5: RV	LOCATION: NORTH & SOUTH; EAST & WEST: NOTES:	RED BY: AIMTD LLC. tel: 71 Garden Grove Pala Acacia	PROJEC PROJEC LOCATI CONTRO	T #: SC3466 ON #: 3		1	
		I NORTHBOUND	I SOUTHBOUND	EASTBOUND	■ WESTBOUND	E>	U-TURNS	RTOR
	LANES:	Pata NL NT NR	SL ST SR	Acsos EL ET ER	Acacia WL WT WR	TOTAL	NB SB EB WB TTL	NRR SRR ERR WRR
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			Pala NORTH SIDE					
		Acacia WEST SIDE	SOUTH SIDE [EAST SIDE Acacia				
			Pala					

INTERSECTION TURNING MOVEMENT COUNTS PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com Garden Grove PROJECT #:

	DATE: 5/24/22 TUESDAY	LOCATION: NORTH & SOUTH: EAST & WEST:	Garden Grove Pala Acacia	PROJECT LOCATIC CONTRO	ON #: 3			
	CLASS 6: BUSES	NOTES:			A N	EA		
		NORTHBOUND	SOUTHBOUND	EASTBOUND	WESTBOUND	1	U-TURNS	RTOR
	LANES:	NL NT NR X X X	Para SL ST SR 0 X 0	Acasia EL ET ER 0 1 X	### Acada WL WT WR X 1 0	TOTAL	NB SB EB WB TTL	NRR SRR ERR WRR
AM	7:00 AM 7:15 AM 7:30 AM 7:30 AM 8:00 AM 8:15 AM 8:30 AM 8:45 AM 9:45 AM APPROACH % APPROACH %	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	BEGIN PEAK HR VOLUMES APPROACH % PEAK HR FACTOR APP/DEPART	7:30 AM 0 0 0 0% 0% 0% 0.000	0 0 0 0% 0% 0% 0.000	0 0 0 0% 0% 0% 0.000	0 0 0 0% 0% 0% 0.000	0.000		0 0 0 0
Md	4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM VOLUMES APPROACH % APP/DEPART	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Target State	BEGIN PEAK HR VOLUMES APPROACH % PEAK HR FACTOR APP/DEPART	4:00 PM 0 0 0 0% 0% 0% 0.000 0 / 0	0 0 0 0% 0% 0% 0.000 0 / 0	0 0 0 0% 0% 0% 0.000 0 / 0	0 0 0 0% 0% 0% 0.000 0 / 0	0 0.000 0		0 0 0 0
		TOWN THE STATE OF	Pala NORTH SIDE					
		Acacia WEST SIDE	Ī	EAST SIDE Acacia				
			SOUTH SIDE					

	DATE: Wed, May 25, 22	LOCATION: NORTH & SOUTH:	EPARED BY: AmTO LLC. ref: 714 Garden Grove Knott	PROJECT LOCATION	I#: 4			
	NOTES:	EAST & WEST:	Lampson	CONTROL	SIGNAL N S S S S S S S S S S S S S S S S S S	E >	Just University Leaves to	
		NORTHBOUND	SOUTHBOUND	EASTBOUND	WESTECUND		U-TURNS	RTOR
	LANES:	NL NT NR 1 3 G	SL ST SR	EL ET ER	WL WT WR	TOTAL	NB SB EB WB TTL	NRR SRR ERR WRR
г	7:00 AM	13 132 26	23 260 6	1 2 0	33 36 6	609	0 0 0 0	8 0 9 2
	7;15 AM 7;30 AM 7;45 AM	26 175 11 44 191 26 69 225 44	24 267 11 29 276 33 54 261 52	17 +0 33 28 64 33	30 34 18 37 107 12	686 880	0 0 0 0 0 0 0 0 2 1 0 3	3 3 8 4 6 6 11 1
	8:00 AM 8:15 AM	18 249 45	24 257 13	35 118 35 34 83 24	42 122 8 16 34 9	1,070 806	0 0 0 0 0	3 1 1 1 2 1 2 3
_	8:30 AM	28 215 26 15 163 18 14 199 16	9 207 1.4 14 265 9 13 181 11	19 66 18 15 48 24 10 33 20	25 68 9 28 45 9 26 28 11	704 653	1 0 1 6 2 0 0 1 6 1	9 0 3 0 2 0 7 4
AM	VOLUMES APPROACH %	227 1,549 212 11% 78% 11%	190 1,974 154 8% 85% 7%	173 -188 215 20% 56% 25%	26 28 11 237 474 82 30% 50% 10%	567 5,975	0 0 0 0 0 2 5 8 0 15	2 0 4 5 29 17 45 20
	APP/DEPART GEGIN PEAK HR	1,988 / 1,801 7:30 AM	2,318 / 2,426	876 / 885	793 / 861	0		
	VOLUMES APPROACH %	159 880 141 13% 75% 12%	116 1,001 117 9% 81% 9%	116 331 110 21% 59% 20%	120 331 38 25% 68% 6%	3,460		13 14 17 5
L	PEAK HR FACTOR APP/DEPART	0.873 1,180 / 1,033	0.829	0.741 557 / 583	0.711 489 / 611	0.808		
Г	4:00 FM 4:15 PM	20 210 11 18 256 20	27 238 23 15 226 16	9 49 19 11 40 24	56 42 27 36 45 13	728 721	1 1 0 0 2 0 1 0 0 1	1 0 11 5
	4:30 PM 4:45 PM 5:00 PM	19 281 15 16 301 14	18 224 17 19 224 23	16 43 13 17 37 15	46 39 23 31 44 14	754 755	0 0 0 0 0 0 0 1 0 1	0 0 6 6
	5:15 PM 5:30 PM	32 270 19 33 305 22 24 249 18	14 216 23 20 260 24 25 228 23	13 +6 12 13 54 18	47 49 12 40 63 15	753 867	0 0 0 0 0 0 0 0 0	2 3 4 1
E	5:45 PM VOLUMES	27 27 18 27 257 9 189 2,129 128	13 208 23	15 55 13 18 58 15	32 44 16 33 42 17	742 720	0 0 0 0 0	1 2 4 5
	APPROACH % APP/DEPART	8% 87% 5% 2.445 / 2,378	151 1,821 172 7% 85% 8% 2,144 / 2,272	112 382 129 18% 61% 21% 623 / 659	321 369 137 39% 45% 17% 627 / 731	6,040	1 2 2 0 5	9 1 9 39 27
	BEGIN PEAK HR VOLUMES	4:30 PM 100 1,157 70	71 924 87	59 160 59	164 195 64	0 3,129		4 1 1 12 14 1
	APPROACH % PEAK HR FACTOR	8% 87% 5% 0.922	7% 85% 8% 0.890	20% 61% 20% 0.874	39% 46% 15% 0.896	0.902		3 1 3 17 3
L	APP/DEPART	1,327 / 1,279	1,082 / 1,146	297 / 321	423 / 383	Q Q		
			Knott					
			NORTH SIDE					
		Lampson WEST SIDE		EAST SIDE Lampson				
		***************************************	SOUTH SIDE					
			Knott					
_			PED AND BIKE	PEDEST	LIAN CROSSINGS		BICYCLE CROSSINGS	
Н	7:00 AM	0 6	S SIDE N SIDE TOYAL	E SIDE W SIDE	2 0 5		E5 W5 SS NS TOTAL 0 3 0 3 6 0 2 1 0 3	
	7:15 AM 7:30 AM 7:45 AM	0 2 2 16	2 4 8 2 9 29 4 5 37	2 15	2 7 26		0 1 0 2 3	
AM	8:00 AM	1 27 0 0	0 2 2	1 27 0 0	4 3 35 0 1 1		0 0 0 2 2 0 0 0 1 1	
	8:15 AM 8:30 AM 8:45 AM	0 0 1	0 0 0 0 1 4 1 0 3	0 0 2 1	0 0 0		0 0 0 0 0	
Ш	TOTAL	0 2 5 54	11 24 94	0 1 5 47	1 0 2 10 16 78		0 1 0 0 1 0 7 1 8 16	
	4:00 PM 4:15 PM 4:20 PM	0 4 0 3 0 0	0 0 4 0 0 3	0 4	0 0 4 0 3		0 0 0 0 0	
М	4:45 PM	0 2	0 0 2	0 0	0 0 0 0 0 2		0 0 0 0 0	
-	5:00 PM 5:15 PM 5:30 PM	0 0	1 1 2 0 0 3	0 0	1 0 1 0 0 1		0 0 0 1 1 1 1 0 0 2	
	\$:45 PM	0 0	0 0 0	0 0	0 0 0		0 0 0 0 0	
	TOTAL	1 11	1 1 14	9 10	1 0 11		1 11 10 11 3	

AimTD LLC
TURNING MOVEMENT COUNTS



INTERSECTION TURNING MOVEMENT COUNTS PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com Garden Grove PROJECT #: SC3466

				PREPA	RED BY:	AimTD LL	C. tel: 714	253 788	8 cs@ain	itd.com									
	DATE:	LOCATI			Garden	Grove				PROJEC	T#:	SC3466							
	5/25/22		& SOUTH:		Knott					LOCATI		4							
	WEDNESDAY	_ EAST &	WEST:		Lampso	n				CONTR	OL:	SIGNAL							
	CLASS 1:	NOTES	:				~				1.835.8700.9		A	7	7				
	PASSENGER			***************************************							1	Ĭ	N						
	VEHICLES	1										4 W		E >	1				
		1											7 s		1				
		1																	
			NORTHEOU	ND	1 0	OUTHBO	IND	T	ASTBOU	SID		VESTBOU	AID.		1				
	1	'	Knott		1	Knott	UNU	1	Lampson	NO	1 '		NU	1	U-TURNS		RT	OR	1
		NL	NT	NR	SL	ST	SR.	T EL	ET	ER	WL	Lampson	WR	TOTAL	NB SB EB WB TTL	NRR			
	LANES	: 1	3	0	1	3	0	1	2	. 0	1	2	0	TOTAL	ND 30 ED WD IIL	INKK 0	SRR 0	ERR 0	WRR 0
ı	7:00 AM	1 12	117	22	16	238	1 5	15	28	27						<u></u>			
- 1	7:15 AM	23	160	8	18	244	10	13	37	31	28	32	6 13	546 613	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		0 1	9	2
	7:30 AM	40	170	21	28	248	31	27	60	33	29	104	11	802	0 2 1 0 3	5	T 5 1	8	2
1	7:45 AM	66	201	41	52	236	55	34	114	34	36	117	7	993	1 3 4 0 8	5	1 3	11	1
Ì	8:00 AM	15	219	41	23	226	13	31	76	21	8	33	. 8	714		1	TÍ	<u>i</u>	
I	8:15 AM	26	195	22	9	183	14	18	59	17	18	63	7	631	1 0 1 0 2	Ö	-	3	ő
- 1	8:30 AM	14	145	13	11	237	9	14	46	23	24	41	6	583			ő	···	<u>2</u>
- 1	8:45 AM VOLUMES	11	176	15	12	144	10	10	35	. 19	22	26	10	490		2	0 1		
- 1	▼ VOLUMES	207	1,383	183	169	1,756	147	163	455	205	189	447	68	5,372	2 5 8 0 15	24	15	44	15
- 1	APPROACH %	12%	78%	10%	8%	85%	7%	20%	55%	25%	27%	63%	10%				·		
- 1	APP/DEPART BEGIN PEAK HR	1,773	7.20.111	1,611	2,072		2,152	823	/	802	704	1	807	0					
	VOLUMES	145	7:30 AM 785	125	107	002		100	300	100									
	APPROACH %	14%	74%	12%	10%	893	113	104	309	105	91	317	33	3,140		11	13	16	4
	PEAK HR FACTOR		0.858	1270	10%	80% 0.815	10%	20%	59% 0.720	20%	21%	72%	7%						
	APP/DEPART	1,057	7	927	1.118	0.015	1,091	524	0.720	541	441	0.689	E01	0.791					
r	4:00 PM	20	187	8	27	216	20	8	1 45	19	49	39	581	664	1 1 0 0 2				
- 1	4:15 PM	17	232	17	12	215	15	111	39	19	35	43	11	666	1 1 0 0 <u>2</u> 0 1 0 0 1	0	2	3	6 4
- 1	4:30 PM	17	260	14	13	215	16	15	37	13	43	37	23	703	0 0 0 0 0	0	0	6	7
- 1	4:45 PM	16	274	13	18	209	22	16	35	15	28	44	12	702	0 0 1 0 1	0	<u>\</u>	3	I
- 1	5:00 PM	32	251	16	12	208	23	12	42	10	47	47	12	712			0	3	
- 1	5:15 PM	33	277	21	13	248	22	12	50	18	37	62	15	808	0 0 0 0 0	1	2	4	2
	5:30 PM	23	227	14	20	218	23	15	53	13	30	43	16	695	0 0 0 0 0	2	1	4	6
	S:45 PM VOLUMES	26	241	9	10	199	22	18	56	15	33	42	16	687	0 0 1 0 1	1	2	4	5
	APPROACH %	184 8%	1,949 87%	112	125	1,728	163	107	357	122	302	357	131	5,637	1 2 2 0 5	- 6	9	35	25
- 1	APP/DEPART	2,245	0/70	5% 2,187	2,016	86%	2,153	18% 586	61%	21%	38%	45%	17%						
- 1	BEGIN PEAK HR	14,475	4:30 PM	2,107	2,010		2,155	1 200		592	790	/	705	0					
- 1	VOLUMES	98	1,062	64	56	880	83	54	164	56	155	190	62	2,925					
- 1	APPROACH %	8%	87%	5%	5%	86%	8%	20%	60%	20%	38%	47%	15%	2,925		2	4	16	4
- 1	PEAK HR FACTOR		0.924			0.900	9,0	1 2010	0.859	10.0	3070	0.893	1370	0.905					
L	APP/DEPART	1,224	/	1,178	1,019	7	1,091	275	7	284	407	7	372	0.505					
																			
						Knott													
					١.	100711.01													
) 1	IORTH SI	DΕ			~									
		Lampson	. W	EST SIDE				EAST SI	DE	Lampso	n								
		***************************************			i c	OUTH SI	75												
					٥	OU IT 511	J la												
						Knott													
								•											

INTERSECTION TURNING MOVEMENT COUNTS PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com Garden Grove PROJECT #: SC3466

	DATE: 5/25/22 WEDNESDAY	LOCATION: NORTH & SOUTH: EAST & WEST:	Garden Grove Knott Lampson	PROJEC LOCATI CONTRO	ON #: 4				
	CLASS 2: 2-AXLE WORK VEHICLES/ TRUCKS	NOTES:			A N	EA	The second secon		
		NORTHBOUND Knott	SOUTHBOUND Knott	EASTBOUND	WESTBOUND		U-TURNS	RTC	PR .
	LANES:	NL NT NR 1 3 0	SL ST SR 1 3 0	EL ET ER 1 2 0	WL WT WR 1 2 0	TOTAL	NB SB EB WB TTL	NRR SRR 0 0	ERR WRR
AM	7:00 AM 7:15 AM 7:36 AM 7:45 AM 8:00 AM 8:15 AM 8:15 AM VOLUMES APPROACH % APPPOEPART	0 8 2 1 7 3 2 17 5 0 15 3 3 24 3 2 16 2 1 8 5 1 19 1 10 114 24 7% 77% 16%	4 15 1 1 5 16 0 0 1 17 1 1 2 19 1 1 19 0 0 16 0 3 22 0 1 30 1 17 154 4 10% 88% 2% 175 7 200	0 1 1 1 1 1 1 3 2 1 1 4 0 1 1 2 1 3 3 1 2 1 1 4 1 1 1 1 0 1 1 1 0 1 1 1 0 1 1 1 0 1 1 1 0 1 1 1 0 1 1 1 0 1 1 1 0 1 1 1 0 1 1 1 0 1 1 1 0 1 1 1 1 0 1 1 1 1 0 1 1 1 1 0 1 1 1 1 1 0 1 1 1 1 1 1 1 1 0 1 1 1 1 1 1 1 1 0 1	4	37 46 58 50 66 54 51 62 424	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 1 0 1 1 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 0 0 1 1 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	BEGIN PEAK HR VOLUMES APPROACH % PEAK HR FACTOR APP/DEPART	7:30 AM 7 72 13 8% 78% 14% 0.767 92 / 81	4 71 2 5% 92% 3% 0.875	5 13 5 22% 57% 22% 0.719	22 10 4 61% 28% 11% 0.750 36 / 19	228 0.864		2 0	1 1
Md	4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM VOLUMES APPROACH %	0 14 2 1 14 3 2 18 1 0 18 1 0 9 2 0 15 1 1 11 3 1 10 0 5 109 13 4% 86% 10%	0 15 1 0 4 0 2 6 1 0 8 1 0 7 0 1 9 2 1 8 0 2 9 1 6 66 6 8% 85% 85% 8%	0 4 0 0 1 4 0 1 2 0 0 4 2 1 4 0 0 4 2 1 4 0 0 1 0 0 1 0 0 2 6 2 22 6 7% 73% 20%	S 3 1 1 1 3 2 3 3 2 3 3 2 3 3	45 33 39 35 26 36 28 26 26	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	APP/DEPART BEGIN PEAK HR VOLUMES APPROACH % PEAK HR FACTOR	127 / 116 4:30 PM 2 60 5 3% 90% 7% 0.798	78 / 88 3 30 4 8% 81% 11% 0.771	776	8 5 1 57% 36% 7% 0.700	0 136 0.872		1 0	1 0
<u> </u>	APP/DEPART	67 / 63	37 / 40 Knott NORTH SIDE	18 / 22	14 / 11	0			
	L	ampson WEST SIDE		EAST SIDE Lampso	n				
			SOUTH SIDE		•				
			Knott						

INTERSECTION TURNING MOVEMENT COUNTS PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com Garden Grove PROJECT

	5/25/22 WEDNESDAY	NORTH & SOUTH: EAST & WEST;	Knott Lampson	LOCATIO CONTRO	ON #: 4			
	CLASS 3: 3-AXLE TRUCKS	NOTES:			N N S	E>		
		NORTHBOUND Knott	SOUTHBOUND Knott	EASTBOUND Lampson	WESTEOUND	_	U-TURNS	RTOR
	LANES:	NL NT NR 1 3 0	SL ST SR 1 3 0	EL ET ER 1 2 0	WL WT WR 1 2 0	TOTAL	NB SB EB WB TTL	NRR
АМ	7:00 AM 7:15 AM 7:30 AM 7:45 AM 8:00 AM 8:15 AM 8:30 AM 8:45 AM VOLUMES APP/DEPART	0 2 1 0 2 0 1 0 0 0 0 0 0 0 0	1 3 0 0 3 1 0 3 0 0 1 0 0 1 0 0 2 0 0 0 2 0 2 0 1 16 1 6% 89% 6%	0 1 0 1 0 0 0 0 0 0 1 0 1 0	0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0	8 5 6 6 3 7 5 48	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	BEGIN PEAK HR VOLUMES APPROACH % PEAK HR FACTOR APP/DEPART	7:30 AM 1 6 2 11% 67% 22% 0.750 9 / 8	0 6 0 0% 100% 0% 0.500	1 1 0 50% 50% 0% 0.500 2 / 3	1 1 1 33% 33% 33% 33% 0.375	20 0.833 0		0 0 0 0
ЬМ	4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM VOLUMES APPROACH % APPROACH %	0 3 0 0 0 0 0 0 0 0 0 2 0 0 5 0 0 4 0 0 3 0 0 2 0 0 19 0 0% 100% 0%	0 1 2 3 3 1 1 2 0 0 0 1 2 0 0 6 0 0 3 2 0 0 1 0 0 3 2 0 1 0 0 3 2 0 1 0 0 3 3 2 0 1 0 0 3 3 2 0 1 0 0 1 0 0 3 3 2 0 0 1 0 0 3 3 2 0 0 1 0 0 3 2 0 0 1 0 0 3 2 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7 7 4 5 8 10 9 3 53	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
and the second	BEGIN PEAK HR VOLUMES APPROACH % PEAK HR FACTOR APP/DEPART	4:30 PM 0 11 0 0% 100% 0% 0.550 11 / 13	12 2 0 86% 14% 0% 0.583 14 / 2	2 0 0 100% 0% 0% 0.500 2 / 12	0 0 0 0% 0% 0% 0.000 0 / 0	0 27 0.675 0		0 0 0
			Knott NORTH SIDE					
	L	ampson WEST SIDE	SOUTH SIDE Knott	EAST SIDE Lampso	n			

	5/25/22 WEDNESDAY	NORTH & SOUTH: EAST & WEST:	Garden Grove Knott Lampson	PROJEC LOCATI CONTRO	ON #: 4					
	CLASS 4: 4 OR MORE AXLE TRUCKS	NOTES:			N S Y	E >				
		NORTHBOUND	SOUTHBOUND	EASTBOUND	WESTBOUND		U-TURNS		RTOR	
	LANES:	NL NT NR 1 3 0	SL ST SR 1 3 0	EL ET ER	WL WT WR	TOTAL	NB SB EB WB TTL	NRR 0	SRR ERR	WRR 0
AM	7:00 AM 7:15 AM 7:30 AM 7:45 AM 8:00 AM 8:15 AM 8:35 AM 8:45 AM VOLUMES APPROACH % APPLOEPART	0 3 1 0 5 0 1 4 0 2 5 0 0 3 0 0 2 1 0 6 0 1 1 0 4 29 2 11% 83% 6%	1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 2 1 0 0 0 0 0 0 1 0 0 2 0 0 2 0 0 2 0 0 0 0 0 0 0 0 8 1 0 89% 11% 0%	7 11 12 13 12 13 11 7 86	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0
	BEGIN PEAK HR VOLUMES APPROACH % PEAK HR FACTOR APP/DEPART 4:00 PM	7:30 AM 3 14 1 17% 78% 6% 0.643 18 / 14 0 5 1	0 27 0 0% 100% 0% 0.844 27 / 32 0 3 0	0 0 0 0% 0% 0% 0.000 0 / 1	5 0 0 100% 0% 0% 0.625 5 / 3	50 0.962 0		0	0 0	voji O
PM	4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:30 PM 5:45 PM VOLUMES APPROACH % APP/DEPART BEGIN PEAK HR	0 5 1 0 9 0 0 3 0 0 7 0 0 5 1 0 6 0 0 8 1 0 4 0 0 47 3 0% 94% 6% 50 / 48	0 3 0 0 2 0 0 1 0 0 5 0 0 1 0 0 1 0 1 0 0 1 0 0 0 0 0 1 1 3 0 7% 93% 0%	0 0 0 1 0 1 0 1 0 0 0 0 0 0 0 0 0	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	11 12 5 13 7 8 10 4 70	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 1 0 0 0 0 0 2	0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	VOLUMES APPROACH % PEAK HR FACTOR APP/DEPART	0 21 1 0% 95% 5% 0.786	0 8 0 0% 100% 0% 0.400 8 / 9	0 1 0 0% 100% 0% 0.250	1 0 1 50% 0% 50% 0.500	33 0.635 0			0 0	0
	La	ampson WEST SIDE	Knott NORTH SIDE	EAST SIDE Lampso	kan maka mana maga pangkanan pangkanan na Tanan maga bala					
			SOUTH SIDE Knott							

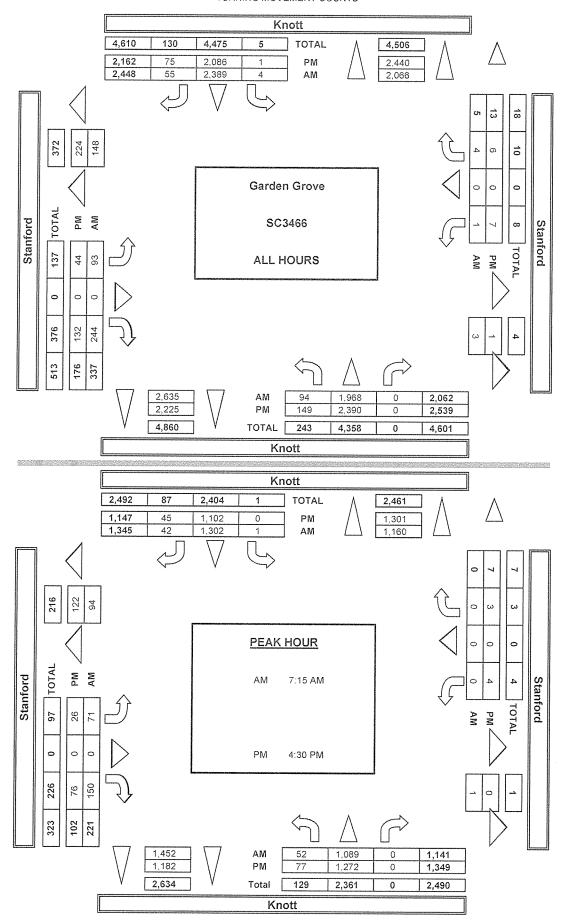
INTERSECTION TURNING MOVEMENT COUNTS PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com Garden Grove PROJECT #: SC3466

	DATE: 5/25/22 WEDNESDAY	LOCATION: NORTH & SOUTH: EAST & WEST:	Garden Grove Knott Lampson	PROJEC LOCATI CONTRO	ION #: 4		_	
	CLASS 5: RV	NOTES:			N N S	E >		
		NORTHBOUND	SOUTHBOUND	EASTBOUND	WESTBOUND		U-TURNS	RTOR
	LANES:	NL NT NR 1 3 0	SL ST SR 1 3 0	EL ET ER	VIL WT WR 1 2 0	TOTAL	NB SB EB WB TTL	NRR SRR ERR WRR 0 0 0 0
AM	APPROACH % APP/DEPART	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 1 0 0 0 0 0 0 1 2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	BEGIN PEAK HR VOLUMES APPROACH % PEAK HR FACTOR APP/DEPART	7:30 AM 0 1 0 0% 100% 0% 0.250 1 / 1	0 0 0 0% 0% 0% 0.000	0 0 0 0% 0% 0% 0.000 0 / 0	0 0 0 0% 0% 0% 0.000	1 0.250 0		0 0 0 0
PM	4:00 PM 4:15 PM 4:15 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:30 PM 5:45 PM VOLUMES APPROACH % APP/DEPART BEGIN PEAK HR	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	VOLUMES APPROACH % PEAK HR FACTOR APP/DEPART	4:30 PM 0 0 0 0% 0% 0% 0.000 0 / 0	0 0 0 0% 0% 0% 0.000	0 0 0 0% 0% 0% 0.000 0 / 0	0 0 0 0% 0% 0% 0.000	0.000 0		0 0 0 0
	L	ampson WEST SIDE	Knott NORTH SIDE	EAST SIDE Lampso	- on		•	
			SOUTH SIDE	Annanavaure	-			

	DATE: 5/25/22 WEDNESDAY	LOCATION: NORTH & SOUTH: EAST & WEST:	Garden Grove Knott Lampson	PROJEC LOCATIO CONTRO	ON #: 4			
	CLASS 6: BUSES	NOTES:			N N S	EÞ		
		NORTHBOUND Keests	SOUTHBOUND Knott	EASTBOUND Lampson	WESTBOUND Lampson	THE STATE OF THE S	U-TURNS	RTOR
	LANES:	NL NT NR 1 3 0	SL ST SR 1 3 0	EL ET ER 1 2 0	WL WT WR 1 2 0	TOTAL	NB SB EB WB TTL	NRR SRR ERR WRR 0 0 0 0
AM	7:00 AM 7:15 AM 7:30 AM 7:45 AM 8:00 AM 8:15 AM 8:33 AM 8:45 AM VOLUMES APPROACH %	1	1 3 0 0 2 0 0 1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 9 2 8% 75% 17%	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	11 8 3 7 8 3 1 2 43	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0
	BEGIN PEAK HR VOLUMES APPROACH % PEAK HR FACTOR APP/DEPART	7:30 AM 1 2 0 33% 67% 0% 0.375 3 / 2	0 4 2 0% 67% 33% 0.500 6 / 5	0 8 0 0% 100% 0% 0.500 8 / 8	1 3 0 25% 75% 0% 0.333	21 0.656		0 1 0 0
Md	4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM VOLUMES APPROACH % APP/DEPART	0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 3 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 3 3 0 0 5 0 0 12	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	BEGIN PEAK HR VOLUMES APPROACH % PEAK HR FACTOR APP/DEPART	4:30 PM 0 3 0 0% 100% 0% 0.250 3 / 3	0 4 0 0% 100% 0% 0.500 4 / 4	0 1 0 0% 100% 0% 0.250	0 0 0 0% 0% 0% 0.000 0 / 0	8 0.400 0		0 0 0 0
			Knott NORTH SIDE					
	L	ampson WEST SIDE	Ē	EAST SIDE Lampso	on			
			SOUTH SIDE					

	*		P P S	PARCU ST.	AimTD ELC. to	el: 714 25	33 78 88 C	s ĝaimtdic	071						
	DATE:	LOCATION:		Garden Gr	rove				PROJECT	at:	303466				
	Wed, May 25, 22	NORTH & SOUTH EAST & WEST;	ł:	Knott Stanford					LOCATIO CONTRO	¥ #:	5 SIGNAL				
	NGTES:	0.0.0.0.0.0.0.0.0		Contord					CONTRO	- Tomoralismo	JIONAL			1	
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												S		Ø-ser-ser-ser-ser-ser-ser-ser-ser-ser-ser	
										100 Sept.	1	7			
		NORTH:		1 3	CUTHBOUND	-		EAST BOU	ND	1	WESTBOUN	ND ON		U-TURNS	RTOR
		NL N		SL	ST	SR	EL	T ET	ER	WL	WT	WR	TOTAL	NB SB EB WB TTL	NRR SPR ERR WRR
	LANES:	1 1 3	1 0	1 1	1 3 1	0	ű	1 1	J o	Ü	1 1	1 0		0 0 0 0	0 0 0 0
	7:00 AM 7:15 AM	9 187	1 0	0	307	-2	<u>2</u>	0	28	0	0	0	535 617	1 0 0 0 1	0 0 15 0
1	7:30 AM	17 248	0	10	346	7	16	0	25	ŏ	0	10	659	0 0 0 0 0	0 1 16 0 0 1 14 0
	7:45 AM 8:00 AM	19 321		1 0		28	31	0	44	0	0	0	757	0 0 0 0	0 3 16 0
ı	8:15 AM	12 289 12 263		1 1		5	19 10	0	50 17	0	0	0	674 557	0 0 0 0 0	0 0 26 0
l	8:30 AM	12 202		2	301	4	3	0	27	ā	0	1	\$52	0 1 0 0 1	0 0 17 1
AM	8:45 AM VOLUMES	9 227 94 1,96	3 0	0		3 55	7	0	22	0	0	2	501	0 0 0 0	0 0 19 2
	APPROACH %	5% 959		0%		2%	93 28%	0 0%	244 72%	20%	0 0%	4 80%	4,852	1 1 0 0 2	0 S 135 3
1	APP/DEPART	2.062 /	2,066	2,448			337	7	3	5	7	148	0		
l	EEGIN PEAK HR VOLUMES	7:15 52 1,08		1	- 202	42	71	0	450	T .					
	APPROACH %	5% 959		0%		3%	32%	0%	150 68%	0%	0 0%	0 0%	2,707		0 5 72 0
	PEAK HR FACTOR	0.83	9		0.953			0.737			0.000		0.894		
-	APP/DEPART 4:00 PM	1,141 / 16 281	1,160	1,345			221	. 0	1	0	- /	94	0		
	4:15 PM	20 284		0		8	5 7	0	11		1 0	+ - 1/2	566 572	0 0 0 0 0	0 0 9 0
	4:30 PM	17 285	0	0		8	6	0	22	4	0	3	628	0 0 0 0	0 1 1 15 1 1
	4:45 PM 5:00 PM	17 316 20 323	- 0	0		10	9	0	10 26	0	0	0	622	0 0 0 0 0	0 0 9 0
	5:15 PM	23 345	ő	ŏ		14	5	- 0	18	-	10	1-6	701	0 0 0 0 0	2 21 0
	\$130 PM \$145 PM	17 253	0	1	253	6	3	0	15	0	0	0	548	0 0 0 0 0	0 1 14 6
E	5:45 PM VOLUMES	19 300 149 2,390	0	0	253 2,086	7 75	3-44	0	132	0 7	0	0 6	599 4,590	0 0 0 0 0	0 1 11 0
	AFFAUALTS 70	6% 944	6 0%	0%	96%	3%	25%	6%	75%	54%	0%	46%		0 10 0 10 0	0 0 99 1 1
	APP/DEPART BEGIN PEAK HR	2,539 / 4:30	2,440	2,162	1 2,	,225	176		1	13		224	0		
	VOLUMES			1									1		
		77 1,27		0		45	26	G	76	4	0	3	2,605		0 4 54 1
	APPROACH %	6% 94%	6 0%	0 0%	96%	45 496	26 25%	0%	76 75%	4 57%	0%	3 43%	2,605		0 4 54 1 1
	APPROACH % PEAK HR FACTOR	6% 94% 0.91	5 0 % 5	0%	96% 0.925	4%	25%		75%		0 0% 0.250	43%	0.929		0 4 54 1
	APPROACH %	6% 94%	5 0 % 5		96% 0.925 / 1.	496		0%		57%	0%				0 4 54 1
	APPROACH % PEAK HR FACTOR	6% 94% 0.91	5 0 % 5	0%	96% 0.925	4%	25%	0%	75%	57%	0%	43%	0.929		0 4 \$4 1
	APPROACH % PEAK HR FACTOR	6% 94% 0.91	5 0 % 5	0%	96% 0.925 / 1.	4%	25%	0%	75%	57%	0%	43%	0.929		0 1 4 : \$4 : 1
	APPROACH % PEAK HR FACTOR	6% 94% 0.91	5 0 % 5	0%	96% 0.925 / 1. Knott	4%	25%	0%	75%	57%	0%	43%	0.929		0 4 \$4 1
	APPROACH % PEAK HR FACTOR	6% 94% 0.91	5 0 % 5	0% 1,147	96% 0.925 / 1. Knott	.182	25%	0% 8.797 /	75%	57%	0%	43%	0.929		0 4 \$4 1
	APPROACH % PEAK HR FACTOR	6% 94% 0.91 1.349 /	6 0% 6 1,301	0%	96% 0.925 / 1. Knott	.182	25%	0% 8.797 /	75%	57%	0%	43%	0.929		0 4 \$4 1
	APPROACH % PEAK HR FACTOR	6% 94% 0.91 1.349 /	6 0% 6 1,301	0%	96% 0.925 / 1. Knott	.182	25%	0% 8.797 /	75%	57%	0%	43%	0.929		0 4 \$4 1
	APPROACH % PEAK HR FACTOR	6% 949 0.91 1.349 /	6 0% 6 1,301 WEST SIDE	0%	96% 0.925 / 1. Knott NORTH SIDE SOUTH SIDE Knott	.182	25%	0% 8.797 /	75% 0	57%	0% 0.250 /	43%	0.929	BICYCLE CROSSINGS	0 4 \$3 1
	APPROACH % PERAK HR RACTOR APP/DEPART	6% 949 0.91 1.349 /	6 0% 6 1,301 WEST SIDE ALL E W SIDE	0% 1.147 1.147 S	96% 0.925 / J. Knott WORTH SIDE SOUTH SIDE Knott BIKE N SIDE To	496	25%	0% 0.797 /	75% 0 0 Stanford PEDES1 W SIDE	57%	0% 0.250 /	43% 122 TOTAL	0.929	BICYCLE CROSSINGS ES WS SS WS TOTAL	0 4 \$4 1
	APPROACH % PERACH REACTOR APPLIEPART 7:00 AM	6% 949 0.91 1.349 /	6 0% 6 1,301 WEST SIDE	0% 1.147 h	96% 0.925 // L. Knott NORTH SIDE SOUTH SIDE Knott BIKE N SIDE TO	182 EA	25%	0% 0.797	75% 0 0 Stanford	S7%	0% 0.250 /	43% 122 17074	0.929	ES WS SS N5 TOTAL	0 4 \$1 1
	APPROACH % PERAK HR PACTOR APP/DEPART 7:00 AM 7:15 AM 7:15 AM 7:30 AM	6% 94% 0.91 1.349	6 0% 6 1,301 WEST SIDE ALL E W SIDE 1	0% 11,147 hh S PED AND E S SIDE 0 0 0	96% 0.925 / 1. Knott NORTH SIDE Knott BOUTH SIDE Knott NOTTH SIDE NOTTH	##6 ##6	25%	0%6 0.797 /	75% 0 0 Stanford PEDES1 W SIDE	57%	0% 0.250 /	43% 122 TOTAL	0.929	ES WS SS NS TOTAL	0 4 \$4 1
	APPROACH % PERAL HR FACTOR APPYDEPART 7:00 AM 7:15 AM 7:30 AM 7:45 AM	6% 94% 0.91 1.349	6 0% 6 1,301 WEST SIDE ALL E W SIDE 1 1 1 1 2 2	0%6 1.1.47 PED AND 6 S SIGE 0 0 0 0	96% 0.925 7 1. KNOTT HORTH SIDE KNOTT BIKE N SIDE 1 0 0 0	496	25%	0%6 0.797 7	PEDEST WSIDE 0 0 1	RIAN CRESCO	0% 0.250 / / / / / / / / / / / / / / / / / / /	43% 122 170741 0 1	0.929	ES WS SS N5 FOTAL 0 1 0 0 1 0 1 0 0 1 0 0 0 0 0 0 1 0 0 1	0 4 \$4 1
	APPROACH % PERAK HR PACTOR APP/DEPART 7:00 AM 7:15 AM 7:15 AM 7:45 AM 7:45 AM	6% 94% 0.91 1.249	### WEST SIDE ###################################	PED AND 8 S SIDE 0 0 0 0 0 0 0 0 0	96% 0.925 / 1. Knott KNOTH SIDE SCOTH SIDE Knott BIKE 0 0 0 0 0 0 0	##6 ##6 ##6 ##6 ##6 ##6 ##6 ##6 ##6 ##6	25%	0%6 0.797 / / E SIDE 0 0 0 0 0	PEDEST W SIDE 0 0 O O O O O O O O O O O	RIAN CRE S SIDE 0 0 0	0% 0.250 / / / / / / / / / / / / / / / / / / /	43% 122 170TAL 0 1 0 1 0 1	0.929	ES WS SS N5 FOTAL 0 1 0 0 1 0 0 0 0 1 0 0 0 0 0 0 1 0 0 1 0 0 0 0	0 4 \$1 1
	APPROACH % PERAK HR PACTOR APP/DEPART 7:00 AM 7:15 AM 7:15 AM 7:45 AM 7:45 AM 8:15 AM 8:15 AM	6% 94% 0.91 1.349	### ALLL ###############################	PED AND E S SIDE 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	96% 0.925 / 1. Knott KORTH SIDE SOUTH SIDE Knott BIKE N SIDE 1 0 0 0 0 0	##6 .182 EA	25%	0%6 0.797 7	75% 0 Stanford PEDES: W SIDE 0	RIAN CRESCO	0% 0.250 / / / / / / / / / / / / / / / / / / /	43% 122 170741 0 1	0.929	ES WS SS N5 FOTAL 0 1 0 0 1 0 1 0 0 1 0 0 0 0 0 0 1 0 0 1	0 4 \$3 1
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	APPROACH % PERAK HR PACTOR APP/DEPART 7:00 AM 7:15 AM 7:15 AM 7:30 AM 7:45 AM 8:15 AM	6% 94% 0.91 1.349	5 0% 5 1,301 WEST SIDE ALL I I I I I I I I I I I I I I I I I I	PED AND E S SIDE 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	96% 0.925 / 1. Knott ACRTH SIDE Knott BIKE 0 1 0 0 0 0 0 0 1	182 EA	25%	0%6 0.797	75% 0 Stanford PEDEST W SIDE 0 0	S7% 7 7 7 7 7 7 7 7 7	0% 0.250 // // // // // // // // // // // // //	43% 122 122 100 100 100 100 100 100 100 100	0.929	ES WS S NS FOTAL 0 1 0 0 1 0 1 0 0 0 1 0 1 0 0 0 1 0 1 0 0 0 1 0 1 0 0 0 0	0 4 \$4 1
	APPROACH % PERAK HR PACTOR APP/DEPART 7:00 AM 7:15 AM 7:15 AM 7:15 AM 7:45 AM 5:15 AM 5:15 AM 5:10 AM 6:15 AM	Stanford E SI O O O O O O O O O	6 0% 6 1,301 WEST SIDE ALL	PED AND E SIDE 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	96% 0.925 / 1. Knott ACRTH SIDE Knott Knott 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##6 .182 EA	25%	6 SIDE 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	75% 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RIAN CRC \$ \$106 0 0 0 0 0 0 0 0	0% 0.250 / / / / / / / / / / / / / / / / / / /	43% 122 122 100 100 100 100 100 100 100 100	0.929	ES WS SS NS NOTAL 0 1 0 0 1 0 1 0 0 1 0 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 0 0 0	0 4 51 1
	APPROACH % PERAK HR PACTOR APP/DEPART 7:00 AM 7:15 AM 7:15 AM 7:15 AM 7:45 AM 8:30 AM 8:15 AM 8:30 AM 6:15 AM 6:15 AM 6:15 AM 7:45 APP 1:45 APP 1:5 AM 8:50 AM	Stanford	6 0% 6 1,301 WEST SIDE ALL 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PED AND E S SIDE S SIDE O O O O O O O O O O O O O O O O O O O	96% 0.925 / 1. Knott Knott SOUTH SIDE Knott BIKE N SIDE 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	##6 ##6 ##6 ##6 ##6 ##6 ##6 ##6 ##6 ##6	25%	0%6 0.797 / / E SIDE 0 0 0 0 0 0 0 0 0	75% 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8746 CRIAN CRE S SIDE 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0% 0.250 // / / / / / / / / / / / / / / / / /	43% 122 TOTAL 0 0 1 0 0 2 0 4 0 1 0 1 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 0 1 1 0	0.929	ES WS S NS FOTAL 0 1 0 0 1 0 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0	0 4 \$4 1
AM	APPROACH 1% PERAK HR PACTOR APP/DEPART 7:00 AM 7:15 AN 7:15 AN 7:15 AN 7:15 AN 7:15 AN 8:00 AM 8:15 AM 8:10 A	Stanford E SI O O O O O O O O O	6 0% 6 1,301 WEST SIDE ALL	PED AND 1 S SIDE 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	96% 0.925 / 1. Knott Knott COUTH SIDE Knott BIKE 1 N SIDE 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	182 EA	25%	0 % 6 0.797	75% 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	87% S7% S7% S7% S7% S7% S7% S7% S7% S7% S	0% 0.250 / / / / / / / / / / / / / / / / / / /	43% 122 TOTAL 0 1 0 1 0 0 2 0 0 1 0 0 0 0 0 0 0 0 0 0	0.929	ES WS S NS FOTAL 0 1 0 0 1 0 1 0 0 0 1 0 1 0 0 0 1 0 0 0 0	0 4 \$4 1
AM	APPROACH % PERAK HR RACTOR APP/DEPART 7:00 AM 7:15 AM 7:15 AM 7:15 AM 7:15 AM 7:15 AM 7:15 AM 8:15 AM	6% 94% 9	6 0% 6 1,301 WEST SIDE ALL	PED AND 6 S SIDE 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	96% 0.925 / 1. Knott COUTH SIDE Knott BIKE 1 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	107AL 1 2 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 3 3 3 3	25%	0%6 0.797 / / E SIDE 0 0 0 0 0 0 0 0 0	75% 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8746 CRIAN CRE S SIDE 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0% 0.250 // / / / / / / / / / / / / / / / / /	43% 122 TOTAL 0 0 1 0 0 2 0 4 0 1 0 1 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 0 1 1 0	0.929	ES WS S NS FOTAL 0 1 0 0 1 0 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0	0 4 54 1
AM	APPROACH % PERAK HR PACTOR APP/DEPART 7:00 AM 7:15 AM 7:15 AM 7:15 AM 7:30 AM 7:45 AM 8:10 AM 8:15 AM 8:15 AM 4:15 FM 5:10 FM 5:10 FM	6% 94% 0.91	6 0% 6 1,301 WEST SIDE ALL 1 0	PED AND E S SIDE 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	96% 0.925 / 1. Knott CONTH SIDE SOUTH SIDE Knott BIKE N SIDE 1 0 0 0 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0	## 1077AL 1 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	25%	0% 0.797	75% 0 0 Stanford PEDES1 WSIDE 0 0 0 1 0 0 0	\$7% 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	0% 0.250 2SSINGS N SIDE 0 1 1 0 0 1 1 0 0 1 1 0 0 0 0 1 0	43% 122 122 122 10 10 10 10 10 10 10 10 10 10 10 10 10	0.929	ES WS S NS FOTAL 0 1 0 0 1 0 0 1 0 1 0 0 0 1 0 0 0 0	0 4 \$3 1
AM	APPROACH 19 PERAK HR PACTOR APP/DEPART 7:00 AM 7:00 AM 7:15 AM 7:15 AM 7:30 AM 8:15 AM 8:10 AM 8:15 A	6% 94% 9	6 0% 6 1,301 WEST SIDE ALL	PED AND 8 S SIDE O O O O O O O O O O O O O O O O O O O	96% 0.925 / 1. Knott Knott CORTH SIDE Knott BIKE I N SIDE 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E/J TOTAL 1 2 0 0 0 0 7 7 0 0 0 1 1 1 1 1 1 1 1 1 1 1	25%	0 % 0.797 / / / / / / / / / / / / / / / / / /	75% 0 0 Stanford PEDES W SIDE 0 0 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0	\$7%6 7 7 7 7 7 7 7 7 7 7 7 7 7	0% 0.250 0.250 N SIDE 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	43% 122 TOTAL 1 0 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0	0.929	ES WS S NS FOTAL 0 1 0 0 1 0 1 0 0 0 1 0 1 0 0 0 0 0 0 0 0	0 4 \$4 1
PM AM	APPROACH % PERAK HR PACTOR APP/DEPART 7:00 AM 7:15 AM 7:15 AM 7:15 AM 7:30 AM 7:45 AM 8:10 AM 8:15 AM 8:15 AM 4:15 FM 5:10 FM 5:10 FM	6% 94% 0.91	6 0% 6 1,301 WEST SIDE ALL 1 0	PED AND E S SIDE 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	96% 0.925 / 1. Knott Knott CORTH SIDE Knott BIKE 1 N SIDE 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	## 1077AL 1 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	25%	0% 0.797	75% 0 0 Stanford PEDES1 WSIDE 0 0 0 1 0 0 0	\$7% 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	0% 0.250 2SSINGS N SIDE 0 1 1 0 0 1 1 0 0 1 1 0 0 0 0 1 0	43% 122 122 122 10 10 10 10 10 10 10 10 10 10 10 10 10	0.929	ES WS S NS FOTAL 0 1 0 0 1 0 1 0 0 0 1 0 1 0 0 0 0 0 0 0 0	

AimTD LLC
TURNING MOVEMENT COUNTS



	DATE: 5/25/22 WEDNESDAY	LOCATION: NORTH & SOUTH: EAST & WEST:	Garden Grove Knott Stanford	PROJEC LOCATI CONTRO	ON #: 5			
	CLASS 1: PASSENGER VEHICLES	NOTES:			A N S Y	EÞ		
		NORTHBOUND Knett	SOUTHBOUND Kried	EASTBOUND Stanford	WESTBOUND Stanford		U-TURNS	RTOR
	LANES:	NL NT NR 1 3 0	SL ST SR 1 3 0	EL ET ER 0 1 0	WL WT WR 0 1 0	TOTAL	NB SB EB WB TTL	NRR SRR ERR WRR 0 0 0 0
AM	7:00 AM 7:15 AM 7:15 AM 7:45 AM 8:00 AM 8:15 AM 8:30 AM 8:31 AM 8:45 AM VOLUMES APPROACH % APPLOEPART	7 170 0 4 203 0 15 222 0 16 290 0 10 261 0 8 240 0 11 184 0 7 205 0 78 1,775 0 496 96% 0% 1,853 / 1,862	0 285 2 0 310 2 0 312 6 1 282 28 0 260 4 1 224 3 1 275 3 0 191 3 3 2,139 51 0% 98% 2% 2,193 / 2,376	1 0 27 5 0 28 14 0 24 30 0 44 16 0 48 9 0 17 2 0 26 7 0 22 84 0 236 26% 0% 74% 320 / 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0 0 1 0 0 1 1 0 1 1 0 3 25% 0% 75%	492 552 593 691 599 504 503 436 4,370	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 15 0 0 1 15 0 0 1 14 0 0 3 16 0 0 1 0 25 0 0 0 12 0 0 0 16 1 0 0 19 1 0 5 132 2
	BEGIN PEAK HR VOLUMES APPROACH % PEAK HR FACTOR APP/DEPART	7:15 AM 45 976 0 4% 96% 0% 0.834 1,021 / 1,041	1 1,164 40 0% 97% 3% 0.947 1,205 / 1,308	65 0 144 31% 0% 69% 0.706	0 0 0 0% 0% 0% 0.000 0 / 85	2,435 0.881		0 5 70 0
Md	4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM VOLUMES APPODEPART BEGIN PEAK HR	15	0 234 9 0 224 8 0 266 8 0 247 10 0 257 12 0 285 13 0 244 6 0 248 4 0 2,005 70 0% 97% 3% 2,075 / 2,127	S 0 8 7 0 11 6 0 19 9 0 8 5 0 22 4 0 17 3 0 14 3 0 16 27% 0% 73% 157 / 0	2	538 531 589 576 615 658 510 567 4,584	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 8 0 0 0 10 0 0 1 14 1 0 0 7 0 0 2 18 0 0 1 9 0 0 1 13 0 0 1 11 0 0 6 90 1
	VOLUMES APPROACH % PEAK HR FACTOR APP/DEPART	74 1,169 0 6% 94% 0% 0,917 1,243 / 1,196	0 1,055 43 0% 96% 4% 0.921 1,098 / 1,125	24 0 66 27% 0% 73% 0.833	4 0 3 57% 0% 43% 0.250 7 / 117	2,438 0.926 0		0 4 48 1
	:	Stanford WEST SIDE	Knott NORTH SIDE	EAST SIDE Stanfor	d			
		VIII.	SOUTH SIDE					

INTERSECTION TURNING MOVEMENT COUNTS PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com Garden Grove PROJECT #: SC3466

	<u>DATE:</u> 5/25/22 WEDNESDAY	LOCATION: NORTH & SOUTH: EAST & WEST:	Garden Grove Knott Stanford	PROJEC LOCATI CONTRO	ON #: 5					
	CLASS 2: 2-AXLE WORK VEHICLES/ TRUCKS	NOTES:			N S Y	E>				
		NORTHBOUND Knott	SOUTHBOUND Knott	EASTBOUND Stanford	WESTBOUND	T	U-TURNS		RTOR	
	LANES:	NL NT NR 1 3 0		EL ET ER 0 1 0		TOTAL	NB SB EB WB TTL	NRR 0	SRR ERR	WRR 0
ΔM	7:00 AM 7:15 AM 7:36 AM 7:45 AM 8:00 AM 8:15 AM 8:30 AM 8:45 AM VOLUMES APPROACH % APPP/DEPART	2 7 0 0 17 0 1 20 0 1 20 0 0 23 0 2 19 0 1 9 0 2 17 0 9 132 0 6% 94% 0%	0 17 0 0 23 0 0 22 1 0 23 0 0 22 1 0 17 1 1 18 1 0 32 0 1 176 26 1	1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	28 43 47 44 52 39 31 51 335	1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0
	BEGIN PEAK HR VOLUMES APPROACH % PEAK HR FACTOR APP/DEPART	7:15 AM 2 80 0 2% 98% 0% 0.891 82 / 85	0 92 2 0% 98% 2% 0.940	5 0 5 50% 0% 50% 0.625	0 0 0 0% 0% 0% 0.000	186 0.894		0 ;	0 ; 1	0
Md	4:00 PM 4:15 PM 4:30 PM 4:35 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM VOLUMES APP/DEPART	1 15 0 2 17 0 1 17 0 2 22 0 0 12 0 0 16 0 0 13 0 1 12 0 7 124 0 7 95% 95% 0%	0 7 0 0 6 0 0 10 0 0 7 0 0 8 1 0 6 1 1 7 0 0 5 3 1 56 5 2% 90% 8%	0 0 2 0 0 1 0 0 2 0 0 2 1 0 1 0 0 1 0 0 1 0 0 1 0 0 1 1 0 1 8% 0% 92%	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	25 26 30 33 23 24 22 22 22 205	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 1 0 1 0 2 0 2 0 1 0 0 0 0 0 0 7	0 0 0 0 0 0 0
	BEGIN PEAK HR VOLUMES APPROACH % PEAK HR FACTOR	4:30 PM 3 67 0 4% 96% 0% 0.729	62 / 67 0 31 2 0% 94% 6% 0.825	12 / 1 1 0 6 14% 0% 86% 0.875	0 / 12 0 0 0 0% 0% 0% 0.000	0 110 0.833		0	0 4	0
<u></u>	APP/DEPART	70 / 68	33 / 37 Knott NORTH SIDE	7 / 0	0 / 5	0				
	S	tanford WEST SID	Ε	EAST SIDE Stanford	d					
			SOUTH SIDE							
				•						

INTERSECTION TURNING MOVEMENT COUNTS PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com Garden Grove PROJECT

	5/25/22 WEDNESDAY	NORTH & SOUTH: EAST & WEST:	Knott Stanford	LOCATIO CONTRO	ON #: 5			
	CLASS 3: 3-AXLE TRUCKS	NOTES:			A N S Y	E		
		NORTHBOUND Knott	SOUTHBOUND Kroots	EASTBOUND Startford	WESTBOUND Stanford		U-TURNS	RTOR
	LANES:	NL NT NR 1 3 0	SL ST SR 1 3 0	EL ET ER 0 1 0	WL WT WR 0 1 0	TOTAL	NB SB EB WB TTL	NRR SRR ERR WRR 0 0 0 0
AM	7:00 AM 7:15 AM 7:30 AM 7:45 AM 8:00 AM 8:15 AM 8:45 AM VOLUMES APPROACH % APP/DEPART	0 3 0 0 2 0 1 0 1 0 2 2 2 0 1 1 1 0 2 1 0 0 4 0 0 3 0 5 17 0 23% 77% 0%	0 2 0 0 1 0 0 4 0 0 2 0 0 2 0 0 0 2 0 0 0 2 0 0 0 2 0 0 2 0 0 2 0 0 2 0 15 0 0%	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 1 0 0 1 1 0% 0% 100%	5 3 5 6 4 3 6 6 6	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0
**************************************	BEGIN PEAK HR VOLUMES APPROACH % PEAK HR FACTOR APP/DEPART	7:15 AM 3 6 0 33% 67% 0% 0.563 9 / 6	0 9 0 0% 100% 0% 0.563	0 0 0 0% 0% 0% 0.000 0 / 0	0 0 0 0% 0% 0% 0.000 0 / 3	18 0.750		0 0 0
pM	4:00 PM 4:15 PM 4:35 PM 4:45 PM 5:00 PM 5:15 PM 5:33 PM 5:45 PM VOLUMES APPROACH % APP/DEPART	0 0 0 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0	0 0 1 0 0 1 0 0 1 0 0 0 0 0 2 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 0 5 17% 0% 83% 6 / 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 4 3 1 3 3 3 3 1 19	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	BEGIN PEAK HR VOLUMES APPROACH % PEAK HR FACTOR APP/DEPART	0 3 0 0% 100% 0% 0.750 3 / 4	0 3 0 0% 100% 0% 0.750 3 / 6	1 0 3 25% 0% 75% 0.500 4 / 0	0 0 0 0% 0% 0% 0.000 0 / 0	10 0.833 0		0 0 2 0
			Knott NORTH SIDE	TO THE STATE OF TH				
	S	tanford WEST SIDE	SOUTH SIDE Knott	EAST SIDE Stanford	ı			

	DATE: 5/25/22 WEDNESDAY	LOCATION: NORTH & SOUTH: EAST & WEST:	Garden Grove Knott Stanford	PROJEC LOCATIO CONTRO	ON #: 5					
	CLASS 4: 4 OR MORE AXLE TRUCKS	NOTES:			N S V	E Þ				
		NORTHBOUND Krictt	SOUTHBOUND Knott	EASTBOUND Stanford	WESTBOUND Stanford		U-TURNS		RTOR	***************************************
	LANES:	NL NT NR 1 3 0	SL ST SR 1 3 0	EL ET ER 0 1 0	WL WT WR 0 1 0	TOTAL	NB SB EB WB TTL	NRR SRI	R ERR	WRR 0
AM	7:00 AM 7:15 AM 7:30 AM 7:45 AM 8:00 AM 8:15 AM 8:30 AM 8:35 AM VOLUMES APPROACH %	0 4 0 0 6 0 1 4 0 0 8 0 1 3 0 0 3 0 0 5 0 0 1 0 2 34 0 6% 94% 0%	0 2 0 0 6 0 0 7 0 0 5 0 0 10 0 0 7 0 0 6 0 0 5 0 0 6 0 0 5 0 0 48 0 0% 100% 0%	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 12 12 13 14 11 11 6 85	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	APP/DEPART BEGIN PEAK HR VOLUMES APPROACH % PEAK HR FACTOR APP/DEPART	36	0 28 0 0 100% 0% 0.700 28 / 28	1 / 0 0 0 0 0% 0% 0% 0.000	0 / 2 0 0 0 0% 0% 0% 0.000 0 / 2	0 51 0.911 0		0 0	0 1	0
Md	4:00 PN 4:15 PM 4:35 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM VOLUMES APPROACH % APP/DEPART BEGIN PEAK HR VOLUMES	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 8 4 12 12 11 13 9 69	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0
	APPROACH % PEAK HR FACTOR APP/DEPART	0% 100% 0% 0.682	0% 100% 0% 0.450	0 0 0 0% 0% 0% 0.000	0 0 0 0% 0% 0% 0.000	39 0.813 0		0 0	0	0
i de la comp	English Control	1	Knott NORTH SIDE	J. S.	Variable of the second of the		ı			
	S	itanford WEST SIDE		EAST SIDE Stanford	i					
			SOUTH SIDE Knott							

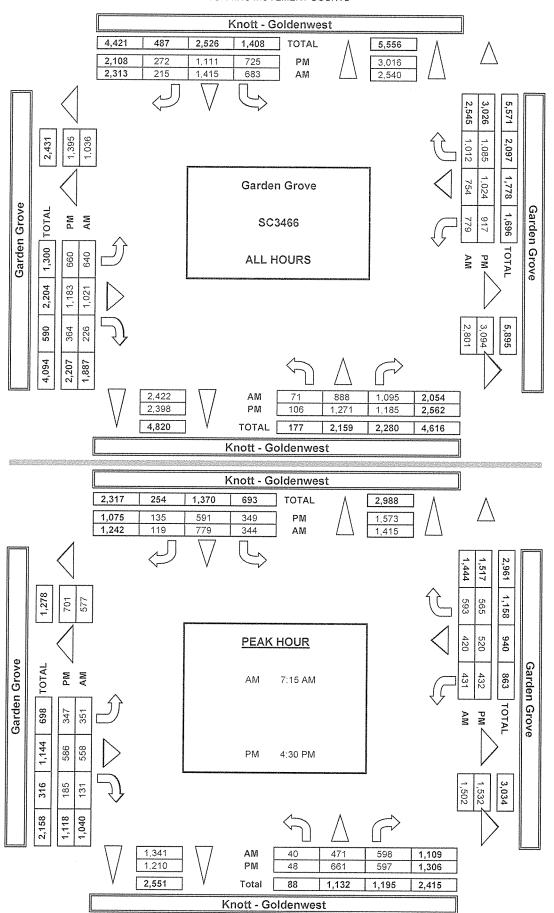
	<u>DATE:</u> 5/25/22 WEDNESDAY	LOCATION: NORTH & SOUTH: EAST & WEST:	Garden Grove Knott Stanford	PROJEC LOCATI CONTR	ION #: 5			
	CLASS 5: RV	NOTES:			N S Y	E>		
		NORTHBOUND Knott	SOUTHBOUND Knott	EASTBOUND Stanford	WESTBOUND Stanford		U-TURNS	RTOR
	LANES:	NL NT NR 1 3 0	SL ST SR 1 3 0	EL ET ER 0 1 0	WL WT WR 0 1 0	TOTAL	NB SB EB WB TTL	NRR
AM	7:00 AM 7:15 AM 7:30 AM 7:45 AM 8:00 AM 8:15 AM 8:30 AM 8:45 AM VOLUMES APPROACH % APP/DEPART BEGIN PEAK HR	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	0 0 0 1 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	VOLUMES APPROACH % PEAK HR FACTOR APP/DEPART	0 1 0 0% 100% 0% 0.250	0 0 0 0% 0% 0% 0.000	0 0 0 0% 0% 0% 0.000	0 0 0 0% 0% 0% 0.000	0.250 0		0 0 0
PM	4:00 PM 4:15 PM 4:35 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:34 PM VOLUMES APPROACH % APP/DEPART BEGIN PEAK HR	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	VOLUMES APPROACH % PEAK HR FACTOR APP/DEPART	0 0 0 0% 0% 0% 0.000	0 0 0 0% 0% 0% 0.000	0 0 0 0% 0% 0% 0.000	0 0 0 0% 0% 0% 0.000	0.000		0 0 0 0
Seems	Status transferrence versi e status in men se	Stanford WEST SIDE	Knott NORTH SIDE	EAST SIDE Stanfor		<u> 0</u>	I	
			SOUTH SIDE		-			
			Knott					

<u>DATE:</u> 5/25/22 WEDNESDAY	LOCATION: NORTH & SOUTH: EAST & WEST:	Garden Grove Knott Stanford	14 253 7888 cs@aimtd.com PROJEC LOCATII CONTRO	T #: SC3466 ON #: 5		_	
CLASS 6: BUSES	NOTES:			A N S Y	E Þ		
NAMES OF STREET OF STREET, STR	NORTHBOUND Knots	SOUTHBOUND Kriett	EASTBOUND Stanferd	WESTEOUND Stanford		U-TURNS	RTOR
LANES:	NL NT NR 1 3 0	SL ST SR 1 3 0	EL ET ER 0 1 0	WL WT WR 0 1 0	TOTAL	NB SB EB WB TTL	NRR SRR ERR WRR 0 0 0 0
7:00 AM 7:15 AM 7:30 AM 7:45 AM 8:00 AM 8:15 AM 8:30 AM 8:45 AM VOLUMES APPROACH % APP/DEPART BEGIN PEAK HR	0 3 0 0 3 0 0 1 0 0 1 0 0 0 0 0 1 0 0 0 0 0 1 0 0 0 0 0 0 0 0 1 0	0 1 0 0 4 0 0 1 0 0 1 0 0 3 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 7 2 2 5 0 1 2 23	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
VOLUMES APPROACH % PEAK HR FACTOR APP/DEPART	7:15 AM 0 5 0 0% 100% 0% 0.417 5 / 6	0 9 0 0% 100% 0% 0.563 9 / 10	1 0 1 50% 0% 50% 0.500	0 0 0 0% 0% 0% 0.000	16 0.571 0		0 0 1 0
4:00 PM 4:15 PM 4:30 PM 4:35 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM VOLUMES APPROACH % APPROACH %	0 2 0 0 1 0 0 0 0 0 0 0 0 0 0 0 3 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 2 0 1 5 0 0 13	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
BEGIN PEAK HR VOLUMES APPROACH % PEAK HR FACTOR APP/DEPART	4:30 PM 0 3 0 0% 100% 0% 0.250 3 / 3	0 4 0 0% 100% 0% 0.500	0 0 1 0% 0% 100% 0.250	0 0 0 0% 0% 0% 0.000 0 7 0	8 0.400 0		0 0 0 0
		Knott NORTH SIDE			l-mannen en en el		
S	itanford WEST SIDE	:	EAST SIDE Stanford	i			
	- I - I - I - I - I - I - I - I - I - I	SOUTH SIDE Knott					

INTERSECTION TURNING MOVEMENT COUNTS PREPARED BY: AvmTD LLC. tel: 714 253 7888 csit/avmts.com <u>DATE:</u> Wed, May 25, 22 LOCATION: NORTH & SOUTH: EAST & WEST; Garden Grove SC3466 6 SIGNAL Knott Garden Grove N. ∢ \\ Auto has believed 5 SOUTHBOUND EASTBOUND U-TURNS RTOR Carpon Grove ET NI. NT WT NR SR 152 215 182 197 185 163 177 7:30 AM 7:30 AM 7:30 AM 7:45 AM 8:00 AM 8:15 AM 8:30 AM 8:30 AM 114 1,122 1,223 1,316 1,174 1,051 1,009 963 8,799 129 101 137 122 108 21 20 22 226 144 1,415 61% 1,012 779 31% 2,545 754 30% 5499 12% 2,501 GIN PEAK HR XUMES 779 63% 0.955 420 29% 0.851 40 4% 471 42% 598 54% 344 28% 4,835 271 PPROACH 16 EAK HR FACTOR 0.919 1.415 147 153 141 160 144 152 148 140 1,185 46% 3,016 4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM 144 138 153 126 143 169 129 109 35 29 35 36 26 38 39 34 95 96 90 74 91 91 88 97 36 44 46 43 52 59 40 364 93 88 83 87 89 61 88 660 30% 163 158 174 158 171 145 147 151 153 134 153 1,111 53% 1.271 50% 725 349 54% 16% 3,094 349 0 4:30 PM 661 51% 0,946 591 55% 0.902 597 45% 349 32% 586 52% 0.988 135 13% 347 31% \$20 34% 0.909 185 17% 432 565 3746 5,016 233 : 18 : 83 : 230 28%b 0.983 Knott NORTH SIDE Garden Grove WEST SIDE EAST SIDE Garden Grove Knott ALL PED AND BIKE PEDESTRIAN CROSSINGS BICYCLE CROSSINGS 7:00 AM 7:15 AM 7:30 AM 7:45 AM 8:00 AM 8:15 AM 8:30 AM

4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM

AimTD LLC
TURNING MOVEMENT COUNTS



	DATE: 5/25/22 WEDNESDAY	LOCATION: NORTH & SOUTH: EAST & WEST:	Garden Grove Knott Garden Grove	PROJEC LOCATIO CONTRO	ON #: 6			
	CLASS 1: PASSENGER VEHICLES	NOTES:			A N	E >		
		NORTHBOUND	SOUTHBOUND	EASTBOUND	WESTBOUND		U-TURNS	RTOR
	LANES:	NL NT NR 1 2 1	SL ST SR 1 2 0	Garden Grove EL ET ER 1 2 1	Garden Grove	TOTAL	NB SB EB WB TTL	NRR
AM	APPROACH % APP/DEPART	7	111 138 24 70 200 28 84 169 38 76 187 33 65 171 15 61 146 19 57 162 18 65 124 29 589 1,297 204 28% 62% 10% 2,090 7 2,181	66	49 57 77 79 73 96 97 120 133 119 98 163 86 88 122 82 85 100 79 82 90 93 78 81 684 681 31% 39% 2,227 7 946	846 1,012 1,096 1,196 1,051 934 894 845 7,874	0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0	43
	BEGIN PEAK HR VOLUMES APPROACH % PEAK HR FACTOR APP/DEPART	7:15 AM 35 430 551 3% 42% 54% 0.928 1,017 / 1,242	295 727 114 26% 64% 10% 0.953 1,136 / 1,223	298 514 116 32% 55% 13% 0.892 928 / 1,362	379 379 514 30% 30% 40% 0.838 1,274 / 528	4,355 0.910 0		249 6 60 234
PM	APPROACH % APP/DEPART	14 143 136 14 152 141 17 147 136 11 169 151 11 154 135 8 161 141 15 140 144 15 143 128 105 1,209 1,112 4% 50% 46% 2,426 7 2,790	85 133 32 32 32 35 35 35 35	61 112 32 80 132 41 82 133 44 71 136 42 79 144 41 85 126 50 52 148 58 82 158 39 592 1,089 347 29% 54% 17% 2,028 7 2,880	100	1,070 1,171 1,174 1,145 1,209 1,202 1,163 1,166 9,300	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	57 3 21 35 67 3 16 61 44 2 19 57 60 4 23 48 58 2 19 59 56 9 17 41 52 6 24 45 32 6 18 48 426 35 157 394
	BEGIN PEAK HR VOLUMES APPROACH % PEAK HR FACTOR APP/DEPART	4:30 PM 45 631 563 4% 51% 45% 0.937 1,241 / 1,466	329 561 133 32% 55% 13% 0.904 1,023 / 1,157	317 539 177 31% 52% 17% 0.978 1,033 / 1,431	417 498 518 29% 35% 36% 0.914 1,433 / 676	4,730 0.978 0		218 17 78 205
			Knott NORTH SIDE		-			
	Gard	en Grove WEST SIDE	SOUTH SIDE	EAST SIDE Garden	Grove			
			Knott					

	<u>DATE:</u> 5/25/22 WEDNESDAY	LOCATION: NORTH & SOUTH: EAST & WEST:	Garden Grove Knott Garden Grove	PROJEC LOCATI CONTRO	T#: SC3466 ION#: 6			
	CLASS 2: 2-AXLE WORK VEHICLES/ TRUCKS	NOTES:			N N S V	E >		
		NORTHBOUND Knott	SOUTHBOUND Knott	EASTBOUND Garden Grove	WESTBOUND		U-TURNS	RTOR
	LANES:	NL NT NR 1 2 1	SL ST SR 1 2 0	EL ET ER	Garden Grove	TOTAL	NB SB EB W6 TTL	NRR
AM	7:00 AM 7:15 AM 7:15 AM 7:45 AM 8:00 AM 8:15 AM 8:30 AM 8:45 AM VOLUMES APPROACH % APP/DEPART BEGIN PEAK HR	1 3 6 0 6 8 11 1 8 11 1 9 7 0 8 11 0 7 10 0 9 10 1 10 12 4 60 75 3% 43% 54% 139 / 211	9	4 10 3 8 9 4 4 8 8 5 9 9 1 14 8 3 6 4 2 6 14 3 6 9 2 61 71 23 39% 46% 15% 155 / 203	5 2 7 9 5 10 11 7 16 8 9 13 15 8 9 11 12 17 14 2 8 4 7 10 77 52 90 35% 24% 41% 219 / 66	65 73 89 87 95 94 85 87 675	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 5 2 0 2 4 4 0 2 8 3 0 1 6 5 0 0 2 2 0 2 7 3 0 0 2 2 0 2 5 21 0 10 39
-	VOLUMES APPROACH % PEAK HR FACTOR APP/DEPART	7:15 AM 2 31 37 3% 44% 53% 0.875 70 / 118	27 37 4 40% 54% 6% 0.810 68 / 93	39 34 13 45% 40% 15% 0.860 86 / 98	43 29 48 36% 24% 40% 0.882	344 0.905 0		14 0 5 20
PM	4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM VOLUMES APPROACH % APPLOEPART	0 6 8 0 7 7 1 10 4 0 3 9 0 2 7 0 7 9 0 2 4 0 1 11 1 38 59 1% 39% 60% 98 7 140	6 10 3 8 4 0 1 7 2 3 5 0 3 7 0 4 1 2 3 1 0 32 39 7 41% 50% 9% 78 / 82	9 17 3 11 11 3 5 14 1 9 14 2 8 9 1 1 7 2 4 5 1 4 10 1 51 87 14 3496 57% 996 152 / 178	4 6 6 6 5 5 9 1 4 5 5 7 7 2 7 6 4 5 5 7 7 7 3 4 3 29 43 51 24% 35% 41% 123 / 51	78 70 53 64 50 53 42 41 451	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 0 1 2 2 0 3 2 0 0 1 3 5 1 1 5 2 0 1 4 6 0 2 3 3 1 1 2 2 0 1 2 23 2 11 23
	BEGIN PEAK HR VOLUMES APPROACH % PEAK HR FACTOR	4:30 PM 1 22 29 2% 42% 56% 0.813	11 23 2 31% 64% 6%	23 44 6 32% 60% 8%	12 21 26 20% 36% 44%	220		13 1 5 15
L	APP/DEPART	0.813 52 / 71	0.900 36 / 41	0.730 73 / 84	0.868 59 / 24	0.859 0		
	Garder	n Grove WEST SIDE	Knott NORTH SIDE	EAST SIDE Garden	Grove			
			SOUTH SIDE					
			Knott					

	5/25/22 WEDNESDAY									PROJEC LOCATI CONTRO	ON #:	SC3466 6 SIGNAL								
	CLASS 3: 3-AXLE TRUCKS	NOTES	5:									4 W	A N S	EA						
		N	ORTHBO	JND		SOUTHBOU	ND		EASTBOUND		WESTBOUND			U-TURNS	RTOR			*******************************		
		NL	Knett	NR	SL	Knott	SR	EL	Garden Gro	ER	WL	Garden Grov	WR	TOTAL	NB SB EB WB TTL			55		
	LANES:		2	1	1	2	Ö	1	2	1	1.5	1.5	1	TOTAL	NB SB EB WB TTL	NRF 0		RR 0	ERR 0	WRR 0
ΔM	7:00 AM 7:15 AM 7:30 AM 7:45 AM 8:00 AM 8:15 AM 8:30 AM 8:45 AM VOLUMES APPROACH %	0 0 0 0 0 0 0 0 0	1 0 1 0 1 0 1 0 4 50%	1 1 1 0 0 0 0 1 0 4 50%	1 2 2 0 0 1 0 0 0 6 38%	0 3 2 1 0 1 1 1 9 56%	0 0 0 1 0 0 0 0 0 1 6%	0 1 0 1 2 1 0 2 7 44%	3 3 1 1 1 0 0 0 9 56%	0 0 0 0 0 0 0	0 2 1 0 0 0 0 1 4 13%	0 1 1 0 0 2 2 2 0 6 20%	3 2 2 3 3 2 3 2 2 67%	9 15 11 7 7 7 8 6	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 0 0 0 0 0		0 0 0 0 3 0 0 0	0 0 0 0 0 0 0	0 2 1 1 1 2 1 9
	APP/DEPART BEGIN PEAK HR VOLUMES APPROACH % PEAK HR FACTOR ÄPP/DEPART 4:00 PM	8 0 0% 4 0	7:15 AN 2 50% 0.500	31 2 50% 16	16 4 36%	6 55% 0.550 /	13 1 9% 9	16 4 40% 10 1	6 60% 0.625 /	19 0 0% 12	30 3 20%	2 13% 0.750	7 10 67% 3	0 40 0.667 0		1			0	5
pM	4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM VOLUMES APPROACH % APP/DEPART	0 0 0 0 0 0 0 0 0 0 0 0	0 1 1 2 2 2 3 2 15 83%	1 0 0 2 0 0 0 0 0 3 17%	0 1 0 0 0 1 1 0 6 50%	3 0 1 1 0 1 0 6 50%	0 0 0 0 0 0 0 0 0 0 0 0 0 8	0 0 1 0 1 3 1 7 70%	0 0 0 0 0 0 0 0 0 0 0 2 20%	0 0 0 0 0 0 0 0 0 0 1 10%	0 0 1 0 0 0 0 0 1 4%	0 0 0 0 0 0 0 0 0 0	0 1 1 5 3 5 5 5 23 96%	4 3 5 10 7 13 8 64	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0			0 0 0 0 0 0 0	1 0 0 0 1 1 2 2 2 2 2 0 0 8 8
-	BEGIN PEAK HR VOLUMES APPROACH % PEAK HR FACTOR APP/DEPART	0 0% 8	4:30 PM 6 75% 0.500	2 25% 18	2 50% 4	2 50% 1.000 /	0 0% 3	2 100%	0 0% 0.500	0 0% 4	1 9%	0 0% 0.550	10 91% 0	25 0.625 0		0)	0	5
			*****************	· · · · · · · · · · · · · · · · · · ·		Knott NORTH SID	E		******		-									
	Garde	n Grove	. WE	ST SIDE		SOUTH SID	E	EAST SI	DE	Garden	Grove									

	DATE: 5/25/22 WEDNESDAY	LOCATION: NORTH & SOUTH: EAST & WEST:	Garden Grove Knott Garden Grove	PROJEC LOCATI CONTRO	ON #: 6			
	CLASS 4: 4 OR MORE AXLE TRUCKS	NOTES:			N S Y	E >		
		NORTHBOUND Krieft	SOUTHBOUND Knett	EASTBOUND Garden Grove	WESTBOUND		U-TURNS	RTOR
	LANES:	NL NT NR 1 2 1	SL ST SR 1 2 0	EL ET ER 1 2 1	WL WT WR 1.5 1.5 1	TOTAL	NB SB EB WB TTL	NRR
AM	7:00 AM 7:15 AM 7:30 AM 7:45 AM 8:00 AM 8:15 AM 8:15 AM VOLUMES APPROACH % APPLOEPART	0 2 1 0 0 2 1 2 0 0 3 5 1 0 0 0 0 0 0 0 0 1 1 0 5 3 7 14 13% 29% 58% 24 / 60	0 0 0 0 0 4 1 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 1 3 0 0 0 4 1 0 1 1 0 1 1 0 1 1 1 0 2 2 0 0 0 4 2 1 17 4 4 68% 16% 16% 16%	2	13 15 20 22 16 13 21 20 140	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 1 2 0 0 4 0 0 0 2 4 0 0 4 0 0 0 2 0 0 0 3 0 0 0 3 0 0 0 2 6 0 1 21
	BEGIN PEAK HR VOLUMES APPROACH % PEAK HR FACTOR APP/DEPART	7:15 AM 1 5 7 7% 36% 50% 0.438 14 / 33	14 4 0 78% 22% 0% 0.750	9 1 2 75% 8% 17% 0.600	3 7 19 10% 24% 66% 0.806	73 0.830 0		6 0 0 12
Md	4:00 PM 4:15 PM 4:30 PM 4:43 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM VOLUMES APPROACH % APP/OEPART	0 1 2 0 3 3 0 0 0 0 0 1 0 0 0 0 0 0 1 1 0 0 0 0 0 1 1 0 6 7 0% 46% 54% 13 7 35	1 1 0 1 1 0 2 0 0 2 1 0 0 0 2 1 0 10 0 0	0 0 0 0 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 3 0 0 4 0 0 1 1 0 2 0 0 5 1 0 3 0 1 4 0 1 0 3 2 22 11% 7% 81% 27 / 2	9 14 4 9 6 7 7 7 4 60	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 3 1 0 0 3 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 0 2 0 0 12
	BEGIN PEAK HR VOLUMES APPROACH % PEAK HR FACTOR APP/DEPART	4:30 PM 0 1 1 0% 50% 50% 0.500 2 / 14	6 1 0 86% 14% 0% 0.583 7 / 5	2 0 2 50% 0% 50% 0.500 4 / 7	2 0 11 15% 0% 85% 0.650	26 0.722 0		0 0 0 5
e e e e e e e e e e e e e e e e e e e			Knott NORTH SIDE			o omaa.iii maama	ı	
	Garder	1 Grove WEST SIDE		EAST SIDE Garden	Grove			
			SOUTH SIDE Knott					

INTERSECTION TURNING MOVEMENT COUNTS PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com Garden Grove PROJECT #:

	5/25/22 WEDNESDAY	NORTH & SOUTH: EAST & WEST:	Knott Garden Grove	LOCATI CONTRO	ON #: 6			
	CLASS 5: RV	NOTES:			N N N S V	E>		
		NORTHBOUND Knott	SOUTHBOUND Knott	EASTBOUND Garden Grove	WESTBOUND Garden Grove		U-TURNS	RTOR
	LANES:	NL NT NR 1 2 1	SL ST SR 1 2 0	EL ET ER 1 2 1	WL WT WR 1.5 1.5 1	TOTAL	NB SB EB WB TTL	NRR SRR ERR WRR 0 0 0 0
AM	APPROACH % APP/DEPART	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0	0 0 1 2 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
CONTRACTOR OF THE PARTY OF THE	BEGIN PEAK HR VOLUMES APPROACH % PEAK HR FACTOR APP/DEPART	7:15 AM 0 0 0 0% 0% 0% 0.000	0 0 0 0% 0% 0% 0.000 0 / 1	1 0 0 100% 0% 0% 0.250	1 1 0 50% 50% 0% 0.500 2 / 1	3 0.375 0		0 1 0 1 0 1 0
Md	4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM	0 0 1 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 0 0 0 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0
	BEGIN PEAK HR VOLUMES APPROACH % PEAK HR FACTOR APP/DEPART	4:30 PM 0 0 0 0% 0% 0% 0.000 0 / 1	0 / 0 0 0 0 0% 0% 0% 0.000	2 / 2 1 0 0 100% 0% 0% 0.250 1 / 0	1 / 1 0 0 0 0% 0% 0% 0.000 0 / 0	0 1 0.250 0		0 0 0 0
			Knott NORTH SIDE			A CONTRACTOR OF THE CONTRACTOR		
	Gardei	n Grove WEST SIDE	:	EAST SIDE Garden	Grove			
			SOUTH SIDE Knott					

INTERSECTION TURNING MOVEMENT COUNTS PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com Garden Grove PROJECT #:

	5/25/22 WEDNESDAY	NORTH & SOUTH: EAST & WEST:	Knott Garden Grove	LOCATIO CONTRO	ON #: 6			
	CLASS 6: BUSES	NOTES:			N S V	E>		
		NORTHBOUND Knott	SOUTHBOUND Kright	EASTBOUND Garden Grove	WESTBOUND Garden Grove		U-TURNS	RTOR
	LANES:	NL NT NR 1 2 1	SL ST SR 1 2 0	EL ET ER 1 2 1	WL WT WR 1.5 1.5 1	TOTAL	NB SB EB WB TTL	NRR SRR ERR WRR 0 0 0 0
AM	APPROACH % APP/DEPART	0 2 2 0 1 1 0 1 0	0 1 0 1 2 0 0 1 0 0 1 0 3 1 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 1 0 0 1 0 0 1 0 0 1 0 0 7 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 0 0	0 1 0 0 1 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 0 13% 88% 0% 8 / 15	0	8 7 6 2 5 3 1 5 37 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0
	BEGIN PEAK HR VOLUMES APPROACH % PEAK HR FACTOR APP/DEPART	7:15 AM 0 3 1 0% 75% 25% 0.500 4 / 5	4 5 0 44% 56% 0% 0.563 9 / 5	0 3 0 0% 100% 0% 0.375 3 / 8	0 2 2 0% 50% 50% 0.500 4 / 2	20 0.714 0		1 0 0 1
PM	4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM VOLMES APPROACH % APP/DEPART	0	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 1 0 0 0 0 0 1 0 0 1 0 0 0 0 2 1 0 0 0 0 2 1 0 0 0 0 2 4 0 33% 67% 0% 6 7 8	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 7 4 2 1 7 1 0 24	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 1 1 1 0 0 0 0 0 0 0 0 0 0
	BEGIN PEAK HR VOLUMES APPROACH % PEAK HR FACTOR APP/DEPART	4:30 PM 0 1 2 0% 33% 67% 0.375 3 / 3	1 4 0 20% 80% 0% 0.625 5 / 4	2 3 0 40% 60% 0% 0.417 5 / 6	0 1 0 0% 100% 0% 0.250 1 / 1	14 0.500 0		2 0 0 0
		VACITIVE PROCESSION AND ADMINISTRATION OF THE PROCESSION AND ADMINISTRATION AND ADMINISTRATI	Knott NORTH SIDE					
	Garde	n Grove WEST SIDE	Ē	EAST SIDE Garden	Grove			
			SOUTH SIDE Knott					

ATTACHMENT C
EXISTING (2022) INTERSECTION OPERATIONS ANALYSIS WORKSHEETS
URBAN CROSSROADS

Pala Drive Industrial TA (JN:14700) Existing AM Peak Hour

Level Of Service Computation Report ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative) **************** Intersection #1 Knott & Lampson ******************* Cycle (sec): 100 Critical Vol./Cap.(X): Loss Time (sec): 10 Average Delay (sec/veh): Optimal Cycle: 45 Level Of Service: Approach: North Bound South Bound East Bound West Bound Movement: L - T - R L - T - R L - T - R
 Control:
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 Volume Module: Base Vol: 170 950 152 118 1097 118 120 339 113 142 337 4.1 Initial Bse: 170 950 152 118 1097 118 142 337 120 339 113 41 Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 Reduced Vol: 170 950 152 118 1097 118 120 339 113 142 337 41 Saturation Flow Module: Capacity Analysis Module: Vol/Sat: 0.10 0.22 0.22 0.07 0.24 0.24 0.07 0.13 0.13 0.08 0.11 0.11 Crit Moves: **** **** ****

Pala Drive Industrial TA (JN:14700) Existing

AM Peak Hour Level Of Service Computation Report ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative) Intersection #2 Knott & Stanford Cycle (sec): 100 Critical Vol./Cap.(X): Loss Time (sec): 10 Optimal Cycle: 37 Average Delay (sec/veh): Level Of Service: Approach: North Bound South Bound East Bound West Bound Movement: L - T - R L - T - R L - T - R
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 0 Volume Module: Base Vol: 60 1177 0 1 1413 43 74 0 0 153 0 Initial Bse: 60 1177 0 1 1413 43 74 0 153 0 0 Saturation Flow Module: _____| Capacity Analysis Module: Vol/Sat: 0.04 0.23 0.00 0.00 0.29 0.29 0.04 0.00 0.13 0.00 0.00 0.00 Crit Moves: ****

Pala Drive Industrial TA (JN:14700) Existing

AM Peak Hour Level Of Service Computation Report ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative) Intersection #3 Knott & Acacia/SR-22 WB Ramp Cycle (sec): 100 Critical Vol./Cap.(X): Loss Time (sec): 10 Average Delay (sec/veh): 10 40 Optimal Cycle: Level Of Service: Approach: North Bound South Bound East Bound West Bound Movement: L - T - R L - T - R L - T - R Volume Module: Base Vol: 129 1278 165 13 1261 231 0 0 0 55 36 Initial Bse: 129 1278 165 13 1261 231 0 0 55 36 9 Saturation Flow Module: Capacity Analysis Module: Vol/Sat: 0.08 0.38 0.10 0.01 0.37 0.14 0.00 0.00 0.00 0.06 0.06 0.06 *** * * * * Crit Moves:

Ex AM Tue Jun 7, 2022 10:50:00 Page 5-1 Pala Drive Industrial TA (JN:14700) Existing

Existing AM Peak Hour														
Level Of Service Computation Report ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative) ***********************************														
Intersection	#4 K	nott	& Garde	en Gro	ve									
Cycle (sec): Loss Time (s Optimal Cycl	ec): e:	1	00 10 97			Critic Averag Level	al Vo e Del Of Se	l./Cap ay (se rvice	p.(X); ec/veh)	:	9.0 KKKK	394 KMM D		
Approach: Movement:	No. L	rth Bo	ound - R	So L	uth Bo - T	ound - R	E L	ast Bo	ound - R	We L -	**************************************			
Control: Protected Protected Split Phase Spl Rights: Ovl Include Ovl Min. Green: 0 0 0 0 0 0 0 0 0														
Min. Green: Y+R: Lanes:	4.0	4.0	4.0	4.0	4.0	4.0	4.0 1	4.0	4.0 0 1	4.0 1 1	4.0	0 1		
Volume Module	e:							***						
Base Vol: Growth Adj: Initial Bse:	1.00		633 1.00 633	390 1.00 390	812 1.00 812	122 1.00 122	397 1.00 397	1.00	142 1.00 142	462 1.00 462	451 1.00 451	672 1.00 672		
User Adj: 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: Reduct Vol: Reduced Vol:	43 0 43	504 0 504	633 0 633	390 0 390	812 0 812	122 0 122	397 0 397		142 0 142	462 0 462	451 0 451	672 0 672		
PCE Adj: MLF Adj: FinalVolume:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00 1.00	1.00	1.00	1.00		
OvlAdjVol:			633 0 	390	812	122	397		142 99	462	451	672		
Saturation Fl Sat/Lane:	low Mc 1700		1700	1700	1700	1700	1700	1700	1700	1700	1700	1700		
Adjustment: Lanes:	1.00	1.00	1.00	1.00	1.00 1.74	1.00 0.26	1.00	1.00 1.78	1.00	1.00 1.52	1.00	1.00		
Final Sat.:					2956 	444		3034	1700	2581 	2519 	1700		
Capacity Anal Vol/Sat: OvlAdjV/S: Crit Moves:		0.15		0.23	0.27	0.27	0.19	0.19	0.08	0.18	0.18	0.40		
********	****	****			*****	*****	*****		*****	* * * * *	****	****		

Intersection														
Int Delay, s/veh	1													
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR		
Lane Configurations	<u> </u>	<u>ተ</u> ጐ		ħ	<u>የነጋ.</u> ተጉ	VVUIX	INDL	ाप <u>ा</u> की	NDIV	OOL	001 (A)	ODN		
Traffic Vol, veh/h	22	502	19	18	492	17	- 4	0	10	16	.0	17		
Future Vol. veh/h	22	502	19	18	492	17	4	0	10	16	0	17		
Conflicting Peds, #/hr	0	- 0	0	0	0	0	0	0	0	. 0	0	0		
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop		
RT Channelized	-	•	None	-	_	None			None		- 0,0	None		
Storage Length	90	*	-	70			-		Maka basahan -	-		-		
Veh in Median Storage,	# -	0	-		0		-	2	-	-	2	-		
Grade, %	-	0	_	•	0		-	0	-	-	0	- -	+15 x 17 + 17 + 17 + 17 + 17 + 17 + 17 + 17	
Peak Hour Factor	68	68	68	68	- 68	68	68	68	68	68	68	68		
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0		MANAGATATA
Mvmt Flow	32	738	28	26	724	25	6	0	15	24	0	25		
													THE RESERVE THE PROPERTY OF STREET	
Major/Minor N	lajor1		A	//ajor2		٨	/linor1		. A.	/linor2				
Conflicting Flow All	749	0	0	766	0	0	1230	1617	383	1222	1619	375		
Stage 1	-						816	816	_	789	789	-		
Stage 2	-	***********	-	Allysia States	-	erkoenlen -	414	801	-	433	830			5850000
Critical Hdwy	4.1			4.1			7.5	6.5	6.9	7.5	6.5	6.9		
Critical Hdwy Stg 1	*	-	-	*	# 100 miles (100 miles)	44 0903 JVB (24)	6.5	5.5	eedreagalagia •	6.5	5.5			
Critical Hdwy Stg 2	-			-			6.5	5.5		6.5	5.5	-		
Follow-up Hdwy	2.2		-	2.2	*	-	3.5	4	3.3	3.5	4	3.3		
Pot Cap-1 Maneuver	869	-		856			136	105	621	138	104	628		
Stage 1	-	-	-	-	-	-	341	393	-	354	405	•		
Stage 2	-			-	•		592	400	_	577	388			
Platoon blocked, %	Seattle of the Chicago	en a composition.			and the second s	-								
Mov Cap-1 Maneuver	869	-	-	856			124	98	621	128	97	628		
Mov Cap-2 Maneuver		- Fagtestokaen		# \$10406666844444	- Profesion Brokes		282	263	e de la companya de l	291	264			
Stage 1	•				•	•	328	378	•	341	393	-		
Stage 2	- Markana	- ENERALIS		- 96/90/99/99/99	= Eksenyanskes	- Programme	551	388	• 2000 1000 1000 1000 1000 1000 1000 1000	543	374			ere ere dia con some er se
			Silen											
Approach	EB			WB			NB			SB				
HCM Control Delay, s	0.4			0.3			13.2			15.2				
HCM LOS	er oer olivaar oo deel versie oo						В		a comme completion in the completion from the sec	С				
Minor Lane/Major Mvmt	NE	3Ln1	EBL	EBT	EBR	WBL	WBT	WBR S	BLn1					
Capacity (veh/h)		462	869			856			402					
ICM Lane V/C Ratio	0	0.045		00000000000000000000000000000000000000	- 1	0.031	weekkel -	2007.57.67.67 -	0.121					
HCM Control Delay (s)		13.2	9.3		-	9.3	_		15.2					
ICM Lane LOS	an element de le fil	В	Α	namas Albibidi •	-,::::::::::::::::::::::::::::::::::::	A	- -	-	C		enachie			
			0.1						~					

			·			
Intersection						
Int Delay, s/veh	1					
•	•		l'a l'ann			
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		4	Þ	a saada daree ee dagaa ee ee ee	ky#	
Traffic Vol, veh/h	20	153	86	3	2	12
Future Vol, veh/h	20	153	86	3	2	12
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	•	None	-	None	_	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage	# -	0	0	•	0	ž.
Grade, %	-	0	0	**************************************	0	-
Peak Hour Factor	85	85	85	85	85	85
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	-24	180	101	4	2	14
ter en mit 19 had 18 met im 19 faktilde genin Hedde objekte ble sektione der had de genal liter 15 met in 2 ml		~420ch (9,100A) - 64		10 1,676 (R) (R) 7 (R)	Germanyon, jak	
			7.00			
****	1ajor1		//ajor2		/linor2	
Conflicting Flow All	105	0	-	0	331	103
Stage 1	-			5	103	•
Stage 2	u taposágum serce	-	-		228	
Critical Hdwy	4.1			-	6.4	6.2
Critical Hdwy Stg 1	· (BOS) (Carta Bee)	yeard way to diverse		-	5.4	-
Critical Hdwy Stg 2	1	•			5.4	
Follow-up Hdwy	2.2	-			3.5	3.3
Pot Cap-1 Maneuver	1499				668	957
Stage 1	-			-	926	- Albandaria
Stage 2				_	815	
Platoon blocked, %		ne en a sur festività	-	**************************************		
Mov Cap-1 Maneuver	1499				656	957
Mov Cap-2 Maneuver	- ve krorika etki	eess state (Maria)	.— . co so dutido divir	aa saastatsekkiisti. ••	656	
Stage 1					909	
Stage 2	001.001.00197 •		======================================	erane/DSCR) •	815	andatakitik -
J					- 10	
A Property of the Control of the Con						
Approach	EB		WB		SB	
HCM Control Delay, s	0.9		0		9.1	
HCM LOS		creation to the section of the	and the control of the control	is of the government of the	Α	No son superior and second
Minor Lane/Major Mvmt		EBL	EBT	WBT	WBR S	RI n1
Capacity (veh/h)		1499	רטו	NAD I	NY DIVE	-
HCM Lane V/C Ratio			5.685.6	5. S.		898
) 	0.016	- -	- 1745/1845/144		0.018
HCM Lang LOS		7.4	0			9.1
HCM Lane LOS	KENGKISTA	A	A 	- Vestanacione		A
HCM 95th %tile Q(veh)		0	- 1 ()	-	•	0.1

Ex PM Tue Jun 7, 2022 10:50:30 Page 2-1 Pala Drive Industrial TA (JN:14700) Existing PM Peak Hour

PM Peak Hour															
Level Of Service Computation Report ICU 1(Loss as Cycle Length *) Method (Base Volume Alternative) ***********************************															
Intersection	Intersection #1 Knott & Lampson ************************************														
Cycle (sec): 100															
Loss Time (s Optimal Cycl	Cycle (sec): 100 Critical Vol./Cap.(X): 0.581 Loss Time (sec): 10 Average Delay (sec/veh): xxxxxx Optimal Cycle: 39 Level Of Service: A ************************************														
Approach: North Bound South Bound East Bound West Bound															
Movement:	L -	T - R	L	- T	- R	L	- T	- R	L - T	- R					
Control: Protected Protected Prot+Permit Prot+Permit															
Rights: Include Include Include Include															
Min. Green: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0															
Y+R:	Min. Green: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0														
Lanes:	Lanes: 1 0 2 1 0 1 0 2 1 0 1 0 1 1 0 1 0 1 0 0														

Volume Module:															
	101 12					62			170 198	-					
Growth Adj: Initial Bse:	1.00 1.			1.00	1.00		1.00		1.00 1.00						
User Adi:			85	957	89	62	189	59	170 198	67					
PHF Adi:				1.00	1.00		1.00		1.00 1.00						
PHF Volume:			1.00	957	89	62	1.00	1.00 59	1.00 1.00						
		0 0		957	0 9		T 2 3		170 198 0 0	67					
Reduced Vol:			85	957	89	-	189		170 198	-					
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						
FinalVolume:			85		89		189	59	170 198	67					
						1			1/0 190						
Saturation Fl					1	1		1	1	1					
	1700 17		1700	1700	1700	1700	1700	1700	1700 1700	1700					
Adjustment:	1.00 1.			1.00	1.00		1.00	1.00	1.00 1.00						
Lanes:	1.00 2.	83 0.17		2.74	0.26	1.00		0.48	1.00 1.49						
Final Sat.:	1700 480	09 291	1700	4666	434	1700	2591	809	1700 2540	860					
Capacity Anal	ysis Mod	dule:													
Vol/Sat:				0.21	0.21	0.04	0.07	0.07	0.10 0.08	0.08					
	ol/Sat: 0.06 0.26 0.26 0.05 0.21 0.21 0.04 0.07 0.07 0.10 0.08 0.08 0.08 0.08 0.08 0.08 0.08														
*****	******	******	*****	****	****	****	* * * * * *	*****	*******	+++++					

Pala Drive Industrial TA (JN:14700)

Existing PM Peak Hour Level Of Service Computation Report ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative) Intersection #2 Knott & Stanford Critical Vol./Cap.(X): 0.446 *************** Cycle (sec): 100 Loss Time (sec): 10
Optimal Cycle: 31 Average Delay (sec/veh): Level Of Service: *************** Approach: North Bound South Bound East Bound West Bound Movement: L - T - R L - T - R L - T - R Volume Module: 0 Base Vol: 79 1369 0 1139 46 28 0 82 4 0 PHF Volume: 79 1369 0 0 1139 46 28 0 82 4 0 3
Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0 0
Reduced Vol: 79 1369 0 0 1139 46 28 0 82 4 0 3 FinalVolume: 79 1369 0 0 1139 46 28 0 82 4 0 3 _____| Saturation Flow Module: Lanes: 1.00 3.00 0.00 1.00 2.88 0.12 0.25 0.00 0.75 0.57 0.00 0.43 Final Sat.: 1700 5100 0 1700 4902 198 433 0 1267 971 0 729 -----| Capacity Analysis Module: Vol/Sat: 0.05 0.27 0.00 0.00 0.23 0.23 0.02 0.00 0.06 0.00 0.00 0.00

Pala Drive Industrial TA (JN:14700) Existing

PM Peak Hour ______ Level Of Service Computation Report ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative) ************* Intersection #3 Knott & Acacia/SR-22 WB Ramp Cycle (sec): 100 Critical Vol./Cap.(X): Loss Time (sec): 10
Optimal Cycle: 42 Average Delay (sec/veh): Level Of Service: Approach: North Bound South Bound East Bound West Bound Movement: L - T - R L - T - R L - T - R _____
 Control:
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 Split Phase
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 0< _____ Volume Module: Base Vol: 160 1435 72 5 1082 242 0 0 0 89 Initial Bse: 160 1435 72 5 1082 242 0 0 0 89 61 9 Saturation Flow Module: Capacity Analysis Module: Vol/Sat: 0.09 0.42 0.04 0.00 0.32 0.14 0.00 0.00 0.00 0.09 0.09 Crit Moves: **** ****

OvlAdjVol:

Pala Drive Industrial TA (JN:14700) Existing PM Peak Hour

Level Of Service Computation Report ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative) ****************** Intersection #4 Knott & Garden Grove *********** ******* Cycle (sec): 100 Critical Vol./Cap.(X): 1.073 XXXXXX Loss Time (sec): 10 Average Delay (sec/veh): Optimal Cycle: 180 Level Of Service: Approach: North Bound South Bound East Bound Movement: L-T-R L-T-RWest Bound L - T - R Volume Module:

Saturation Flow Module: _____ Capacity Analysis Module: Vol/Sat: 0.03 0.20 0.36 0.22 0.22 0.22 0.19 0.19 0.11 0.19 0.19 0.36 0.00 OvlAdjV/S: 0.08 Crit Moves:

FinalVolume: 49 682 616 369 607 136 365 608 192 443 531 620

143

0

Intersection													
Int Delay, s/veh	1.4												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	<u>LUL</u> K	4B	= FDIX	ነ ነ	<u>የየይነ</u>	VVDIV	NOL		NON	ODL		אמנ	
Traffic Vol, veh/h	11	442	7	8	377	13	14	⊕ 2	22	36	♣ 2	24	
Future Vol, veh/h	11	442	7	8	377	13	14	2	22	36	2	24 24	
Conflicting Peds, #/hr	. 0	0	0	0	0	0	.0	0	- 0		0	2 4 0	
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop	
RT Channelized			None	- 100	1100	None	2.00	- C(OP	None	Olop -	Olop	None	
Storage Length	90	-	44474676 -	70	Kativadatea -	49.59.59.5 -	:27/2/2019 -	798255 -				-	
Veh in Median Storage		-0	-		0	-		- 2	.	1	2		
Grade, %	******************	0	48****************	-	0	-	::::::::::::::::::::::::::::::::::::::	0	**************************************	-	0	-	
Peak Hour Factor	89	89	89	89	89	89	89	89	89	89	89	89	
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0	
Mvmt Flow	12	497	- 8	9	424	15	16	2	25	40	2	27	
	***********							James et al. Sanda Jerija			area en resultabales de		en armente en statistis per en einer stages de state de la fille de la fille de la fille de la fille de la fil
Major/Minor N	/lajor1		١	//ajor2		ı	1inor1		٨	/linor2			
Conflicting Flow All	439	0	0	505	0	0	756	982	253	724	979	220	
Stage 1			Ž.	-		-	525	525	200	450	450	220	
Stage 2		euroroso •	**************************************	-	>122E0120 -		231	457		274	529)	
Critical Hdwy	4.1			4.1		-	7.5	6.5	6.9	7.5	6.5	6.9	
Critical Hdwy Stg 1	ARROWS NO SOCIETY	***********		Markalisans •		- -	6.5	5.5	######################################	6.5	5.5	1842 : Y 1.72.941 -	
Critical Hdwy Stg 2	<i>y</i>			-			6.5	5.5		6.5	5.5	-	
Follow-up Hdwy	2.2	-	-	2.2	-	one collection put	3.5	4	3.3	3.5	4	3.3	
Pot Cap-1 Maneuver	1132		-	1070		<u>-</u>	301	251	753	317	252	790	
Stage 1	-	_	-		•	•	509	533	**	564	575		
Stage 2		-	-	-	-	-	757	571	-	714	530	1	
Platoon blocked, %		-	-		-	-							And the Proposition of Super-State of Super-State of the Super-State of Super-Sta
Mov Cap-1 Maneuver	1132	•	5	1070			285	246	753	301	247	790	
Mov Cap-2 Maneuver	etathani kontiko eka	sana serasanan	-		er malaustran museum au	. Dalle Villa in management and	447	419	_	476	419	-	
Stage 1		•	-	-			503	527	- 1945 1945	558	570	-	
Stage 2		= 80% (nierodano)		-		Encono Santonivo Senso	722	566		680	524	-	
Approach	EB			WB			NB			SB			
HCM Control Delay, s	0.2			0.2			11.7			12.3			
HCM LOS	er en electric de la constantina de la	and the second second	2000-00-00-00-00-00-00-00-00-00-00-00-00				В	S Solversing Selection	384-845,415-620 ₄ 6	В			
Minor Lane/Major Mymt	N!	BLn1	EBL	EBT	EBR	WBL	WBT	WBR S	BI n1				
Capacity (veh/h)			1132			1070		**************************************	560			and the same	
HCM Lane V/C Ratio)	0.073				0.008			0.124				
			2.011								-National Community of the		
		11.7	8.2		_	8.4			123				
HCM Control Delay (s)		11.7 B	8.2 A	-	- -	8.4 A	-	_	12.3 B				

Intersection						
Int Delay, s/veh	0.7					
·		iligijajon kur kmunomer	professional contraction	z-Katawatangan Phawa	000-000-00-00-00-00-00-00-00-00-00-00-0	Statement was
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		स्री	ĵ∍		k#	
Traffic Vol, veh/h	5	83	148	- 2	5	10
Future Vol, veh/h	5	83	148	2	5	10
Conflicting Peds, #/hr	0	0	. 0	0	0	. 0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	1100	None	1100		- -	auditoria en
Storage Length		INOUG.				IAOHE
	- 11		- -	- Vetavletsva	0	-
Veh in Median Storage	,# -	0	0		0	-
Grade, %		0	0	-	0	
Peak Hour Factor	75	75	75	75	75	75
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	7	111	197	3	7	13
Major/Minor N	Anio-1	ı	Ania-n		ALC: CO	
	/lajor1		/lajor2		/linor2	
Conflicting Flow All	200	0	·	0	324	199
Stage 1	7	-			199	Ē
Stage 2	-	-	-	-	125	-
Critical Hdwy	4.1		•	•	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	•				5.4	
Follow-up Hdwy	2.2		e karpterijë K	-	3.5	3.3
Pot Cap-1 Maneuver	1384				674	847
Stage 1	1004	unispūis			839	947
			- 3388339	- 269223040		- 50506450
Stage 2					906	5.5
Platoon blocked, %	North Strong		_ 5500000000000000		edingratify.	sament move
Mov Cap-1 Maneuver	1384		-		671	847
Mov Cap-2 Maneuver	***	-	-	_	671	-
Stage 1			-	-	835	•
Stage 2	-	*		*	906	-
	-n		TA (T)			
Approach	EB		WB		SB	
HCM Control Delay, s	0.4		0		9.7	
HCM LOS					Α	
Manufacture		Eni		DATE: T		. Б. (
Minor Lane/Major Mvmt		EBL	EBT	WBT	WBR S	**************
Capacity (veh/h)		1384	-	•		779
HCM Lane V/C Ratio	(0.005	-	-	-	0.026
HCM Control Delay (s)		7.6	0	•	- 10 <u>-</u> 10	9.7
HCM Lane LOS	a ja jajahah 1994 (1992)	Α	Α	## ###################################		Α
HCM 95th %tile Q(veh)		0	•			0.1
			e:11:5729:520			

	ATTACHMENT D	
	E+P INTERSECTION OPERATIONS ANALYSIS WORKSHEETS	
URBAN C	CROSSROADS	

E+P AM Tue Jun 7, 2022 10:09:02 Page 2-1 Pala Drive Industrial TA (JN:14700) E+P

				A		+P k Hour								
ICU 1	Loss	as C	vcle Le	enath	%) Me	Computation (E	Future	Volu	me Alte	ernati	ve)	* * * * * * *		
Intersection *******	#1 K	nott :	& Lamps	son	****	+++++		**+**	+ + + + + + + + +	والمعاشية المستدان				
Cycle (sec): Loss Time (sec) Optimal Cycle ************************************	ec): e:	1(00 LO 45			0.655 xxxxxx B								
Approach: Movement:	No: L	rth Bo - T	ound - R	So:	uth Bo	ound - R	E T.	ast Bo	ound - R	We	est Bo	ound - R		
Control: Rights:	P:	cotect Incl	ced	P	roteci Incl	ced	Pr	ot+Pei Incli	rmit	Pro	Prot+Permit Include			
Min. Green: Y+R: Lanes:	0 4.0 1	0 4.0 2	0 4.0 1 0	0 4.0 1	0 4.0 0 2	0 4.0 1 0	0 4.0 1	0 4.0 0 1	0 4.0 1 0	0 4.0 1	4.0	0 4.0 1 0		
Volume Module	170 1.00 170 0 0 170 1.00 1.00 170 1.00 1.0	950 1.00 950 0 950 1.00 1.00 950 1.00 1.00	152 1.00 152 0 0 152 1.00 1.00 152 1.00 1.52	118 1.00 118 2 0 120 1.00 1.00 120 0 1.00 1.00	1.097 1.00 1097 1 0 1098 1.00 1.098 0 1098 1.00 1.00	118 1.00 118 0 0 118 1.00 1.00 118 1.00 1.00	120 1.00 120 0 120 1.00 1.00 120 1.00 1.0	339 1.00 339 1 0 340 1.00 340 1.00 340 1.00 340	113 1.00 113 0 0 113 1.00 1.3 0 113 1.00 1.13	142 1.00 142 0 0 142 1.00 1.00 142 1.00 1.00	337 1.00 337 0 0 337 1.00 1.00 337 1.00 1.00	41 1.00 41 0 0 41 1.00 1.00 41 1.00 1.00		
Saturation Fl Sat/Lane: Adjustment: Lanes: Final Sat.:	.ow Mc 1700 1.00 1.00 1700	dule: 1700 1.00 2.59 4397	1700 1.00 0.41 703	1700 1.00 1.00 1700	1700 1.00 2.71 4605	1700 1.00 0.29 495	1700 1.00 1.00 1700	1700 1.00 1.50 2552	1700 1.00 0.50 848	1700 1.00 1.00	1700 1.00 1.78 3031	1700 1.00 0.22		
Capacity Anal Vol/Sat: Crit Moves:	ysis 0.10 ****	Modul 0.22	e: 0.22	0.07	0.24	0.24	0.07	0.13	0.13	0.08	0.11	0.11		

Pala Drive Industrial TA (JN:14700)

E+PAM Peak Hour Level Of Service Computation Report ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative) Intersection #2 Knott & Stanford Cycle (sec): 100 Critical Vol./Cap.(X): Loss Time (sec): 10 Average Delay (sec/veh): Optimal Cycle: 37 Level Of Service: Approach: North Bound South Bound East Bound West Bound Movement: L - T - R L - T - R L - T - R
 Control:
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 Rights:
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 0 _____ Volume Module: Base Vol: 60 1177 0 1 1413 43 74 0 153 0 0 Initial Bse: 60 1177 0 1 1413 43 74 0 153 0 0 FinalVolume: 60 1177 0 1 1414 43 74 0 153 0 0 Saturation Flow Module: Capacity Analysis Module: Vol/Sat: 0.04 0.23 0.00 0.00 0.29 0.29 0.04 0.00 0.13 0.00 0.00 0.00 Crit Moves: ****

E+P AM Tue Jun 7, 2022 10:09:02 Page 4-1 Pala Drive Industrial TA (JN:14700) E+P E+P AM Peak Hour

Intersection *******						*****	****	*****	*****	****	· · · · ·		
Cycle (sec): Loss Time (s Optimal Cycl	ec): e:	00 10 41			Critic Averaç Level	cal Vo ge Del Of Se	l./Cap ay (se rvice	p.(X): ec/veh)	:	0.608 : XXXXX B ********			
Approach: Movement:	North Be	ound - R	Sot L ·	uth Bo	ound - R	E Tı	ast Bo	ound - R	West Bound L - T - R				
Control: Rights: Min. Green: Y+R: Lanes:	Protect Include 0 0 0 4.0 4.0 1 0 2	ted ude 0 4.0 0 1	0 4.0 1	rotect Inch 0 4.0	ted ude 0 4.0	Sp 0 4.0	lit Ph Inclu 0 4.0	nase	Sp 0 4.0	lit Ph Inclu 0 4.0 0 1!	nase ude 4. 0 0		
Volume Module Base Vol: Growth Adj: Initial Bse: Added Vol: PasserByVol: Initial Fut: User Adj: PHF Adj: PHF Volume: Reduct Vol: Reduced Vol: PCE Adj: MLF Adj: FinalVolume:	129 1278 1.00 1.00 129 1278 0 0	165 1.00 165 20 0 185 1.00 1.00 185 1.00 1.00 1.00	13 1.00 13 1 0 14 1.00 1.00 14 0 14 1.00 1.00	1261 1.00 1261 0 0 1261 1.00 1.261 0 1261 1.00 1.00 1.261	231 1.00 231 0 0 231 1.00 231 0 231 1.00 231	1.00 0 0 0 0 1.00 1.00 0 0 0 1.00	0 1.00 0 0 0 0 1.00 1.00 0 0 1.00 1.00	0 1.00 0 0 0 1.00 1.00 0 0 1.00	55 1.00 55 2 0 57 1.00 1.00 57 0 57		1.0		
Lanes: Final Sat.:	1700 1700 1.00 1.00 1.00 2.00 1700 3400	1700 1.00 1.00 1700		1.00 2.00 3400	1700 1.00 1.00 1700	1700 1.00 0.00	1.00	1700 1.00 0.00 0	1.00	1700 1.00 0.36 621	170 1.0 0.0		
Capacity Anal Vol/Sat: Crit Moves:		.e:	,			1	0.00	0.00	0.06	0.06	0.0		

Pala Drive Industrial TA (JN:14700) E+P

				A	M Pea	k Hour								
	Level Of Service Computation Report													
ICU 1	(Loss	as C	vole Le	enath	9.1 Mp	thod (F	Sutura	Wollin	ma Alta	ernati	ve)			
*****	****	****	* * * * * *	****	****	*****	****	****	* * * * * *	****	***	****		
Intersection	#4 K	nott *****	& Garde	en Gro	ve *****	++++++	. + + + + +	44444				ale da de ato de ato de		
Cycle (sec):		1	00			Critic	al Vo	1./Ca	о. (X):		0.895			
Loss Time (s		10			Averaç	re Del	ay (s	ec/veh)	:	0.895 : xxxxxx D				
Optimal Cycl *******	e: *****	****	97		****	Level	Of Se	rvice	:	5 Y 2 K 1		D		
Approach:	No	rth B	ound	So	uth B	ound	E.	ast B	ound	W.	est R	ound		
Approach: Movement:	L	- T	- R	L	- T	- R	L	- T	- R	L	- T	- R		
Control:		rotea	 ted			 					 1/_ m			
Rights:	£ .	Ovl	coa	4.	Incl	ude	sþ	Ovl	.iase	sp.	ııı Pi Incli	nase ude		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0		
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0		
Y+R: Lanes:	l — — — .	J 2	U I	1 '	0 1	1 0	1 .	1 1	0 1	1 :	1 1	0 1		
Volume Module				1										
Base Vol:	43	504	633	390	812	122	397	583	142	462	451	672		
Growth Adj:			1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00		
Initial Bse:			633	390		122	397		142	462		672		
Added Vol: PasserByVol:			0	1		0	1	-		0	0	15		
Initial Fut:			0 633	0 391	0 812	0 122	398	0	0					
User Adj:			1.00		1.00	1.00		583	142		451	687 1.00		
PHF Adj:			1.00		1.00	1.00		1.00	1.00		1.00	1.00		
	43		633	391	812	122	398		142	462	451	687		
Reduct Vol:	0	0	0	0	0	0	0		0	0		0		
Reduced Vol:			633	391	812	122	398	583	142	462	451	687		
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		
FinalVolume: OvlAdiVol:	4 3	508	633 0	391	812	122	398	583	142	462	451	687		
							I		99	1		1		
Saturation Fl						,	ī		1	ī				
Sat/Lane:	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700		
Adjustment:			1.00	1.00			1.00	1.00	1.00	1.00	1.00	1.00		
Lanes:			1.00			0.26		1.78	1.00	1.52		1.00		
Final Sat.:			1700	1700	2956	444	2069	3031	1700	2581	2519	1700		
Capacity Anal				1	~ *** *** ***									
Vol/Sat:				0.23	0.27	0.27	0.19	0.19	0.08	0.18	0 18	0.40		
OvlAdjV/S: Crit Moves:			0.00			tos '			0.06	0.10	U • 11 U	0.10		
Crit Moves:			* * * *	* * * *				***				****		
*********	****	****	****	*****	****	****	****	****	****	****	* * * * * *	*****		

	······································					·						
Intersection												
Int Delay, s/veh	1											Hedo Rate
										State of the State	tangaga <u>r</u> agan persiks	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	Ŋ	朴孙		ሻ	የ ቅ	400 800 00 <u>00</u> 00	######################################	4	Kenedara cer	este parece e vo	4	signago en como e como
Traffic Vol, veh/h	22	502	22	21	492	- 17	5	0	10	16	0	17
Future Vol, veh/h	22	502	22	21	492	17	5	0	10	16	0	17
Conflicting Peds, #/hr	0	0	0	_ 0	_ 0	0	0	0	- 0	0	- 0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	70	-	None	•	-	None	-	<u>.</u>	None
Storage Length	90 11	- 0		70	- *************	- 1450/5187618/00	- Moderantserre	-	<u>-</u>	- Edokina Pilotekia	- 5565465524	
Veh in Median Storage,	,# -	0	-	- E	0			2		-	2	-
Grade, % Peak Hour Factor	- 00	0 68	- 60	- ^n	0	-	-	0	- Ekskaa	-	0	-
Heavy Vehicles, %	68	2009/01/2009 (01)	68	68	68	68	68	68	68	68	68	68
Mymt Flow	0 32	0 738	0 32	0 31	0 704	0 25	0 7	0	0	0	0	0
INTALLICA	. کاد	ା ଓଡ	32	্ ১।	724	25		0	15	24	0	25
	1ajor1		<u> </u>	/lajor2		١	/linor1		a a sa	/linor2		
Conflicting Flow All	749	0	0	770	0	0	1242	1629	385	1232	1633	375
Stage 1	<u>-</u>	-	-	-	-	-	818	818	-	799	799	-
Stage 2		*	_				424	811		433	834	-
Critical Hdwy	4.1	-1	Ē	4,1		-	7.5	6.5	6,9	7.5	6.5	6.9
Critical Hdwy Stg 1	-	_	-	-	-	-	6.5	5.5	•	6.5	5.5	······································
Critical Hdwy Stg 2			5		-	7	6.5	5.5	-	6.5	5.5	•
Follow-up Hdwy	2.2	***************	_	2.2		-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	869	-	-	854			133	103	619	136	102	628
Stage 1	editorio de la constanta	esperatus terranera		-	**		340	393	-	350	401	-
Stage 2	-			- 1			584	396	-	577	386	
Platoon blocked, %	que <u>tori</u> te, wes		e gagagggan aga o		-	und respective some	Change for the second		5.141 array marks		Second Assessment Asses	
Mov Cap-1 Maneuver	869			854		5	121	96	619	126	95	628
Mov Cap-2 Maneuver	-	# 25.639.gg/8480513	e Sesecución aces	-	9758935454554	-	280	260	sarvenengene	287	259	un estagal as sever mer
Stage 1	-	-		-			327	378	-	337	387	•
Stage 2		estantemen		- 1000000000	- (2015/05/70/97/1	- Colorod Decor	540	382	- artemetros telesco	543	372	e Systematoria
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.4			0.4			13.6			15.3		
HCM LOS	restració Sefeté		ansenativida	canidatis	r (450.05 150.05)	92 (MAT 1861A) †	В.	marte Wiki:		, o.o		
MisorlasoAleis N		nie	CENION		F A		1615					
Minor Lane/Major Mymt	N	BLn1	EBL	EBT	EBR	WBL	WBT	WBR S				
Capacity (veh/h)		441	869	•	<u>.</u>	854	•	•	398			
HCM Lane V/C Ratio		0.05				0.036			0.122	25225E286722	Singar Egisporenco	Daggas salowoo.
HCM Control Delay (s)		13.6	9.3		•	9.4			15.3			
HCM Lane LOS		В	A	- satisas estats	-	A	tionerossee		C		na a gwyddiaeth a gwyr a g	sisonmannes
HCM 95th %tile Q(veh)		0.2	0.1	-	-	0.1	-	-	0.4			

	······································		***************************************		***************************************	
Intersection						
Int Delay, s/veh	1.6					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	LUL	4	vvo i } →	NON		ODK
Traffic Vol, veh/h	- 41	€	86	3	* \/* 2	17
Future Vol, veh/h	41	153	86	ა 3	2	17
Conflicting Peds, #/hr	-0	- 0	0.	0	- 0	. 0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	- 1100	(cc)stc) in territories	- 1100	None	Olop -	None
Storage Length		-	_	-	0	-
Veh in Median Storage	,# -	0	0	<u>.</u>	0	-
Grade, %	1:11.000000	0	Ő	(1935-1954) -	0	1694125.76 -
Peak Hour Factor	85	85	85	85	85	85
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	48	180	101	4	2	20
	**************************************	andi xx	42 44 44		3.7388 .5 3	
A4	100000000000000000000000000000000000000	· ·				
	Major1		//ajor2		Ainor2	
Conflicting Flow All	105	0	_ Skopskibbrer	0	379	103
Stage 1	•		-	-	103	-
Stage 2	Section of the sect		Marikina		276	-
Critical Hdwy	4.1				6.4	6.2
Critical Hdwy Stg 1	- Mangalora		- Wataki kata	- Hermanian	5.4	
Critical Hdwy Stg 2	0.0		•		5.4	
Follow-up Hdwy	2.2	·	- 1001938-2595	- 20 yasa 200	3.5	3.3
Pot Cap-1 Maneuver	1499				627	957
Stage 1	• SATOSRAFGERAS	-	- Convenience	- 724606060	926	•
Stage 2					775	-
Platoon blocked, %	3 400	- 8388788888	- 75549787557	- 9448-9748-1		ogypana ogypana
Mov Cap-1 Maneuver	1499			-	604	957
Mov Cap-2 Maneuver	·	- 533,520,552			604	<u>.</u> Ugaeptutore≪
Stage 1				-	893	7
Stage 2	·	-	Sirin	-	775	
Approach	EB		WB		SB	
HCM Control Delay, s	1.6		0		9.1	
HCM LOS	musika salgadi Piri		-co-800265619		Α	valuation di
		Eni	Fre		MDD C	
Minor Lane/Major Mvmt		EBL	EBT	WBT	WBR S	
Capacity (veh/h)		1499	-	-	-	902
HCM Lane V/C Ratio) 2005/2000	0.032	-			0.025
HCM Control Delay (s)		7.5	0	•	•	9.1
HCM Lane LOS		A	Α	- 11700-1880-	<u>-</u> 57855678379	A
HCM 95th %tile Q(veh)		0.1	-	-	_	0.1

Pala Drive Industrial TA (JN:14700) E+P PM Peak Ho

				P	M Pea	k Hour								
ICU 1	(Loss	as C	Level (-nath	Al Mo	thod /	Future	570 1 111	mo Alta	ernati	ve)	*****		
Intersection	#1 K	nott	& Lamps	son										
Cycle (sec): Loss Time (s Optimal Cycl	ec): e:	1	00 10 39		Critical Vol./Cap.(X): 0.585 Average Delay (sec/veh): MXXXXX Level Of Service:									
	No L	rth B	ound - R	So L	uth B	ound - R	E T.	ast Bo	ound - R	W.	West Bound			
Control: Rights: Min. Green:	, D	rotec [.] Incl	ted	P	rotec Incl	ted	Pr	ot+Pe: Incl	rmit	Pr	ot+Pe: Inclu	rmit		
Y+R: Lanes:	1		4.0 1 0	4.0	4.0 0 2	4.0	4.0	4.0	4.0	4.0	4.0	4.0		
Volume Modul Base Vol: Growth Adj: Initial Bse: Added Vol: PasserByVol: Initial Fut: User Adj: PHF Adj: PHF Volume: Reduct Vol: Reduced Vol: PCE Adj: MLF Adj: FinalVolume:	e: 101 1.00 101 0 101 1.00 1.00	1240 1.00 1240 1 0 1241 1.00 1.00 1241 1.00 1.00 1.00	75 1.00 75 0 0 75 1.00 1.00 75 1.00 1.00	85 1.00 85 0 85 1.00 1.00 85 0 85 1.00	957 1.00 957 0 0 957 1.00 1.00 957 1.00 1.00 957	89 1.00 89 0 89 1.00 1.00 89 1.00 1.00	62 1.00 62 0 62 1.00 1.00 62 0 62 1.00 1.00	189 1.00 189 0 0 189 1.00 1.00 189 1.00 1.00	59 1.00 59 0 59 1.00 1.00 59 0 59 1.00 1.00	170 1.00 170 0 170 1.00 1.00 1.00 1.00 1	198 1.00 198 1 0 199 1.00 1.00 199 0 199 1.00	67 1.00 67 2 0 69 1.00 1.00 69 0 69 1.00 1.00		
Saturation Fl Sat/Lane: Adjustment: Lanes: Final Sat.:	1700 1700 1.00 1.00 1700	1700 1.00 1.00 2.83 4809	1700 1.00 0.17 291	1700 1.00 1.00 1700	1700 1.00 2.74 4666	1700 1.00 0.26 434	1700 1.00 1.00 1700	1700 1.00 1.52 2591	1700 1.00 0.48 809	1700 1.00 1.00 1700	1.00 1.49 2525	1700 1.00 0.51 875		
Capacity Anal Vol/Sat: Crit Moves:	lysis 0.06	Modul 0.26	.e: 0.26	0.05	0.21	0.21	0.04	0.07	0.07	0.10	0.08	0.08		
	****		*****		****	*****	****		****		****	*****		

Pala Drive Industrial TA (JN:14700) E+P

PM Peak Hour Level Of Service Computation Report ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative) Intersection #2 Knott & Stanford Cycle (sec): 100 Critical Vol./Cap.(X): Loss Time (sec): 10 Average Delay (sec/veh):
Optimal Cycle: 31 Level Of Service: Approach: North Bound South Bound East Bound West Bound Movement: L - T - R L - T - R L - T - R
 Control:
 Permitted
 Permitted
 Permitted
 Permitted

 Rights:
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 Include
 Include
 Include

 Min. Green:
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 0 Volume Module: Base Vol: 79 1369 0 0 1139 46 28 0 82 Initial Bse: 79 1369 0 0 1139 46 28 0 82 4 0 3 PHF Volume: 79 1370 0 0 1139 46 28 0 82 4 0 3
Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0 0
Reduced Vol: 79 1370 0 0 1139 46 28 0 82 4 0 3 FinalVolume: 79 1370 0 0 1139 46 28 0 82 4 0 3 -----|----|------||-------||-------| Saturation Flow Module: Lanes: 1.00 3.00 0.00 1.00 2.88 0.12 0.25 0.00 0.75 0.57 0.00 0.43 Final Sat.: 1700 5100 0 1700 4902 198 433 0 1267 971 0 729 ----| Capacity Analysis Module: Vol/Sat: 0.05 0.27 0.00 0.00 0.23 0.23 0.02 0.00 0.06 0.00 0.00

+ + + +

Crit Moves: ****

E+P PM Tue Jun 7, 2022 10:09:45 Page 4-1 Pala Drive Industrial TA (JN:14700) E+P

PM Peak Hour

			PM Pea	k Hour				
ICU 1	(Loss as C	vcle Le	enath %1 Me	thod (ation Report	ne Alte	rnative)	444444
Intersection	#3 Knott	& Acac:	ia/SR-22 WE	Ramp				
Cycle (sec): Loss Time (s Optimal Cycl	1 ec): e:	00 10 43		Critic Averaç Level	cal Vol./Cap ge Delay (se Of Service:	0. : xxx	630 kxx B	
Approach: Movement:	North B	ound - R	South B L - T	ound - R	East Bo L - T	ound - R	West Bo	ound - R
Control: Rights: Min. Green: Y+R: Lanes:	Protection Incl. 0 0 4.0 4.0 1 0 2	ted ude 0 4.0 0 1	Protec Incl 0 0 4.0 4.0 1 0 2	ted ude 0 4.0	Split P? Inclu 0 0 4.0 4.0	nase ude 0 4.0	Split Pi Inch 0 0 4.0 4.0 0 0 1!	nase ude 0 4.0
Volume Modul Base Vol: Growth Adj: Initial Bse: Added Vol: PasserByVol: Initial Fut: User Adj: PHF Adj: PHF Volume: Reduct Vol: Reduct Vol: Reduced Vol: PCE Adj: MLF Adj: FinalVolume:	e: 160 1435 1.00 1.00 160 1435 0 0 0 0 160 1435 1.00 1.00 1.00 1.00 160 1435 0 0 160 1435 1.00 1.00 160 1435 1.00 1.00 1.00 1.00 1.00 1.00	72 1.00 72 4 0 76 1.00 76 1.00 76 1.00 76	5 1082 1.00 1.00 5 1082 0 0 0 5 1082 1.00 1.00 1.00 1.00 5 1082 1.00 1.00 1.00 1.00 5 1082	242 1.00 242 0 0 242 1.00 242 1.00 242 1.00 242 1.00 242	0 0 1.00 1.00 0 0 0 0 0 1.00 1.00 1.00	0 1.00 0 0 0 0 1.00 1.00 0 0 0 1.00	89 61 1.00 1.00 89 61 11 8 0 0 100 69 1.00 1.00 1.00 69 0 0 1.00 69 1.00 1.00 1.00 69 1.00 1.00 1.00 69	9 1.00 9 1 0 10 1.00 1.00 1.00 1.00 1.00
Saturation Fi Sat/Lane: Adjustment: Lanes: Final Sat.:	tow Module: 1700 1700 1.00 1.00 1.00 2.00 1700 3400	1700 1.00 1.00 1700	1700 1700 1.00 1.00 1.00 2.00 1700 3400	1700 1.00 1.00 1700	1700 1700 1.00 1.00 0.00 0.00 0 0	1700 1.00 0.00	1700 1700 1.00 1.00 0.56 0.38 950 655	1700 1.00 0.06
Capacity Anal	ysis Modul 0.09 0.42	.e: 0.04	0.00 0.32	0.14	0.00 0.00	0.00	0.11 0.11	0.11

Pala Drive Industrial TA (JN:14700) E+P

				p		+P k Hour								
	Level Of Service Computation Report													
ICU 1	(Loss	as C	ycle Le	ength	3) Me	thod (E	uture	Volur	ne Alte	ernati	ve)			
*******						****	*****	****	+***	*****	****	*****		
Intersection						+++++	+++++			للت حال الله الله الله ال	and the decidence			
Cycle (sec):														
Loss Time (se	ec): e:	1:	10 80 ******	· 女女女女士	Critical Vol./Cap.(X): 1. Average Delay (sec/veh): xxx Level Of Service:									
Approach:	No	rth Bo	ound	So	uth Bo	ound	E	ast Bo	ound	West Bound L - T - R				
movement.	LI		- K	1		- K	L	– T	- K	Ь	'I'	- R		
Control: Rights:				P		ted	Sp			 Split Phase Include				
Min. Green:	0	0	0			0			0		0	0		
Y+R:	4.0		4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0		
			0 1	1	0 1	1 0	1	1 1	0 1	1	1 1	0 1		

Volume Module Base Vol:	e: 49	C0.0	C1 C	270	C0.77	100	0.65	500	100					
Growth Adj:			616 1.00		607	136	365		192	443		620		
Initial Bse:			616	369	607	1.00	365	1.00	1.00	443	1.00	1.00		
Added Vol:	0	1	0.10	509		130	363	000	192	443	231	620 3		
PasserByVol:	0	0	0	0		0	0	0	0	0		0		
Initial Fut:			616	375	611	137	365	608	192	443	531	623		
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:	49	683	616	375	611	137	365	608	192	443	531	623		
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0		
Reduced Vol:	49	683	616	375	611	137	365	608	192	443	531	623		
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		
2	1.00		1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00		
FinalVolume:	49	683	616	375	611	137	365	608	192	443	531	623		
OvlAdjVol:			0						143					
 Saturation Fl								~ ~ ~ ~ ~ ~						
Sat/Lane:		1700		1700	1700	1700	1700	1700	1700	1700	1700	1700		
	1.00		1700		1700	1700		1700	1700	1700		1700		
Lanes:			1.00		1.63	0.37		1.87	1.00	1.00		1.00		
	1700		1700		2777	623		3187	1700	2320		1.00 1700		
							1	2101		1	4/00	T/00		
Capacity Anal						ŧ				1		!		
Vol/Sat:				0.22	0.22	0.22	0.19	0.19	0.11	0.19	0.19	0.37		
OvlAdjV/S:			0.00						0.08					
Crit Moves:		****		***			* * * *					****		
*****	****	****	****	****	****	****	****	****	****	****	****	****		

								***************************************	·····	***************************************		
Intersection												
Int Delay, s/veh	1.5								202770300000000			
Rail-Militari vala estat estat de la maria della maria	EBL	Ent	EDD	18/DI	LUDT	MOD	rier.	. In	1000	251	~~~	
Movement		EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations Traffic Vol, veh/h	*	11 0	o	N. O.	个 多		KSESTA -	4	0.4	and An	4 >	~~
Future Vol, veh/h	11 11	442 442	8 8	8	377 377	13	17	2	24	36	2	24
Conflicting Peds, #/hr	0	442	0	8 0	311	13 0	17 0	2 0	24 0	36 0	2 0	24 0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	1100	- 1100	None	1100	1100	None	Stop	Stop -	None	Stop -	Stop -	None
Storage Length	90	975339761Z -	-	70	111511578 -	- 110110	_		inone -			INUITE
Veh in Median Storage		0			0			2		- -	2	
Grade, %	579746287945555 #	0	**************************************	26:50:50:50:50:50:50:50:50:50:50:50:50:50:	0	-	-	0	026E78555	*\$\$\$\$\$\$\$\$	0	-
Peak Hour Factor	89	89	89	89	89	89	89	89	89	89	89	89
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	12	497	9	9	424	15	19	2	27	40	2	27
			H -1								ragion de Comment (de 1965) de 1965 de	
Major/Minor N	/lajor1		1	Vajor2		A.	Ainor1		٨	Ainor2		
Conflicting Flow All	439	0	0	506	0	0	757	983	253	724	980	220
Stage 1	100				_	_	526	526	200	450	450	220
Stage 2	-	5/59/2406/70 •			1999/961 -	22721952F -	231	457	-	274	530	
Critical Hdwy	4.1		2	4.1			7.5	6.5	6.9	7.5	6.5	6.9
Critical Hdwy Stg 1	TAXAUN ANIAN	•	-	HEMALEJAS •	•	-	6.5	5.5	-	6.5	5.5	MENDARY E
Critical Hdwy Stg 2				-			6.5	5.5	-	6.5	5.5	-
Follow-up Hdwy	2.2	-	*	2.2	Augus 22 e g de g V	recolocy Generals):	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	1132			1069	2		300	251	753	317	252	790
Stage 1		-	-	-	-	-	508	532	-	564	575	-
Stage 2	- 7		•	•			757	57:1	-	714	530	
Platoon blocked, %	sou nedere re re	·	en manus en en	nangganara sara	- 900000000000000	-	Superproductive to a	ones No. Agento e e e e				
Mov Cap-1 Maneuver	1132			1069	-	-	284	246	753	300	247	790
Mov Cap-2 Maneuver		- ####################################	- 21402283503514	Priose Portre	nivoses casas	- 0.875559.805591	446	419	STATES STATES AND A	475	419	·
Stage 1	- 1			-			502	526		558	570	
Stage 2	- 57-18-74			- Tälepenen	# 2004/508#8	Ugasatan	722	566		678	524	- Unascopo
**************************************				HEAL								
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.2			0.2			11.8			12.4		
HCM LOS							В			В		er strik men "rideren sill"re
Minor Lane/Major Mymt	N	BLn1	EBL	EBT	EBR	WBL	WBT	WBR S	BLn1			
Capacity (veh/h)	7.01	575	1132			1069			559			
HCM Lane V/C Ratio			0.011	-		0.008	- -	.:::::::::::::::::::::::::::::::::::::	0.125	vasidisi	usosus (I	
HCM Control Delay (s)		11.8	8.2	_		8.4	<u>.</u>		12.4			-14
HCM Lane LOS	2000 - 100 STAND	В	Α		- 089757758 -	A	- -	-	, <u>-</u>			592 (SCHER ME)
HCM 95th %tile Q(veh)		0.3	0	-	-	0	-	-	0.4	The state of the s		
							a a see ariist see letter	ur ann acumpte before De				

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Intersection						
Int Delay, s/veh	1.5	rausetaapiterseleksjolleksteleksteleks				u-17742E9E9E
				Maria de la composição de	ggggggan-sapa	and the second
Movement	EBL	EBT		WBR	SBL	SBR
Lane Configurations	Shoulden in our	4	Þ		W	
Traffic Vol, veh/h	10	83	148	2	- 5	31
Future Vol, veh/h	10	83	148	2	5	31
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None		None		None
Storage Length	-	-	-	*	0	-
Veh in Median Storage	·,# -	0	0	-	0	-
Grade, %		0	0		0	Ne78152147650 ■
Peak Hour Factor	75	75	75	75	75	75
Heavy Vehicles, %	0	0	0	0	0	0
Mymt Flow	13	111	197	3	7	41
ne neurote de la comercia del la comercia de la comercia del la comercia de la comercia del la comercia de la comercia del la comerc		ene veitini		ands phylogenic	5137380 62 5,53	racionalistic
					\$_\$_\$000000000000000000000000000000000	Nagetagaa ree
	Major1		/lajor2		/linor2	
Conflicting Flow All	200	0	energy energy.	0	336	199
Stage 1	•	- 2		•	199	-
Stage 2	-	-			137	-
Critical Hdwy	4.1	•	- I	•	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	*
Critical Hdwy Stg 2	•	•	-	•	5.4	-
Follow-up Hdwy	2.2	v cetora			3.5	3.3
Pot Cap-1 Maneuver	1384	d 3.75 €			663	847
Stage 1	- contrar equilibrille	ereta abstrace (A)			839	
Stage 2	-		-	-	895	
Platoon blocked, %	out the PISCO	metokanikani •	941/4/50036) •	-	eren oli rilli (2)	
Mov Cap-1 Maneuver	1384	_		-	656	847
Mov Cap-2 Maneuver	::::::::::::::::::::::::::::::::::::::		1924 (1946) -	495 WARE	656	
Stage 1	•				831	
Stage 2	::::::::::::::::::::::::::::::::::::::			99577769. -	895	(#1945 . -
Jago Z				- 	000	Markan
Approach	EB		WB		SB	
HCM Control Delay, s	8.0		0		9.7	
HCM LOS				, ,	Α	a a como menos de rel malli sul
Minor Long Major M		EDI	CDT	WOT	woo o	Discussion
Minor Lane/Major Mymt		EBL	EBT	WBT	WBR S	
Capacity (veh/h)		1384	-	•	•	814
HCM Lane V/C Ratio		0.01	e = Postantani	production converse	tiveteerivale reessess	0.059
HCM Control Delay (s)		7.6	0	-	-	9.7
HCM Lane LOS	in links in statem	Α	Α			Α
HCM 95th %tile Q(veh)		0	-	•	-	0.2

ATTACHMENT E	
EXISTING (2022) TRAFFIC SIGNAL WARRANT ANALYSIS WORKSHEETS	
URBAN CROSSROADS	

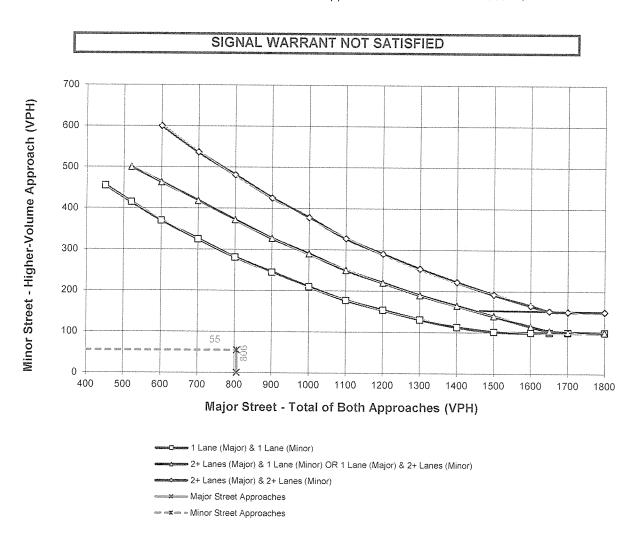
Traffic Conditions = Existing (2022) Conditions - Weekday PM Peak Hour

Major Street Name = Lampson Av.

Total of Both Approaches (VPH) = 806 Number of Approach Lanes on Major Street = 2

Minor Street Name = Industry St.

High Volume Approach (VPH) = 55 Number of Approach Lanes On Minor Street = 1





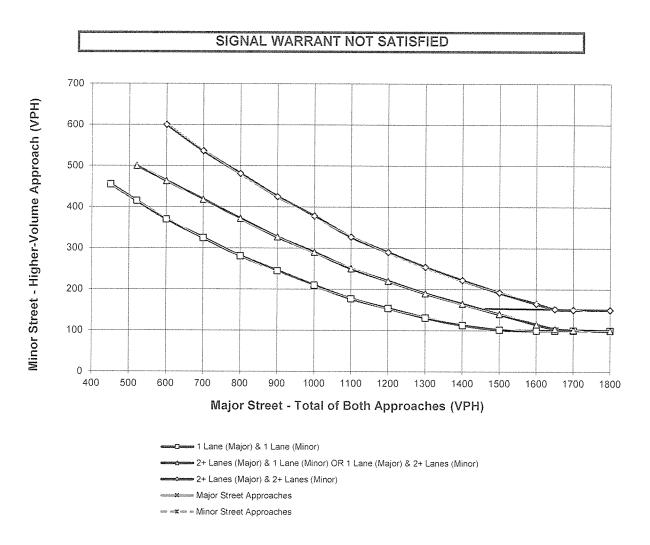
Traffic Conditions = Existing (2022) Conditions - Weekday PM Peak Hour

Major Street Name = Acacia Av.

Total of Both Approaches (VPH) = 222 Number of Approach Lanes on Major Street = 1

Minor Street Name = Pala Dr.

High Volume Approach (VPH) = 14
Number of Approach Lanes On Minor Street = 1





ATTACHMENT F E+P TRAFFIC SIGNAL WARRANT ANALYSIS WORKSHEETS URBAN CROSSROADS

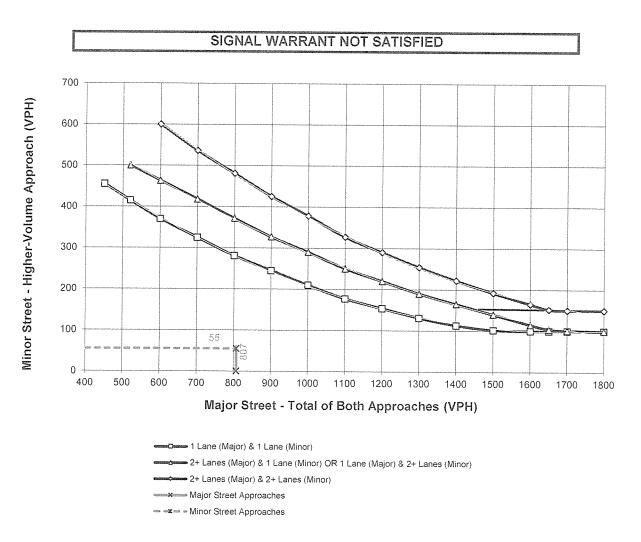
Traffic Conditions = E+P Conditions - Weekday PM Peak Hour

Major Street Name = Lampson Av. Total of Both Approaches (VPH) = 807

Number of Approach Lanes on Major Street = 2

Minor Street Name = Industry St.

High Volume Approach (VPH) = 55 Number of Approach Lanes On Minor Street = 1





Traffic Conditions = Existing (2022) Conditions - Weekday PM Peak Hour

Major Street Name = Acacia Av.

Total of Both Approaches (VPH) = 226

Number of Approach Lanes on Major Street = 1

Minor Street Name = Pala Dr.

High Volume Approach (VPH) = 34 Number of Approach Lanes On Minor Street = 1

