# SAN FELASCO VENTURES PROJECT ( $\pm \mathbf{2 5 1 . 4 2}$ ACRES) 

## ALACHUA COUNTY, FLORIDA

## ECOLOGICAL SURVEY REPORT

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### 1.0 INTRODUCTION

Flatwoods Consulting Group Inc. (Flatwoods) was retained by CHW Professional Consultants (Client) to conduct a jurisdictional wetland delineation for the approximate 251.42-acre San Felasco Ventures Project on May 19 and 21, 2021. The site is located east of County Road 241 and north and south of Progress Boulevard in Alachua, Florida. (Location Map). The site consists of Parcel ID No. 03970-000000 and 03929-000-000, according to the Alachua County Property Appraiser and is in Sections 23 and 26, Township 8 South, and Range 18 East (Quad Map).

### 2.0 METHODOLOGY

The following sections describe the methods used by Flatwoods to determine the wetland limits and the potential presence of listed wildlife and plants within the study site.

### 2.1 Preliminary Review

Information on the potential presence of listed species was collected through literature and data review. Flatwoods reviewed information from the U.S. Fish and Wildlife Service (FWS), the Florida Fish and Wildlife Conservation Commission (FWC), the Florida Natural Areas Inventory (FNAI), the Suwannee River Water Management District (SRWMD), and the Florida Department of Environmental Protection (FDEP) Geographic Information System (GIS) databases regarding the occurrence of listed species and protected habitats.

To further identify which federally and state listed plant and animal species have the potential to occur within the study site, upland and wetland vegetative communities were assessed to determine their plant species composition, approximate boundaries, and general condition and quality. To establish the approximate locations and boundaries of existing upland and wetland communities within the study site, available site-specific data were collected and reviewed using the following resources and methods (see References for complete source information):

- Infrared and true color aerial imagery of the project area
- U.S. Department of Agriculture (USDA)/Natural Resource Conservation Service (NRCS) Soil Survey of Alachua County, Florida
- Florida U.S. Geological Survey (USGS) Topographic Quadrangle maps
- FWS Critical Habitat Portal
- FNAI Biodiversity Matrix
- Florida Department of Transportation (FDOT) Florida Land Use, Cover, and Forms Classification System (FLUCCS)
- SRWMD land use mapping


### 2.2 Survey Methods

### 2.2.1 Wetland Delineation

Wetlands and surface waters are delineated in accordance with The Florida Wetlands Delineation Manual (Chapter 62-340, F.A.C.) and the U.S. Army Corps of Engineers (USACE) 1987 Wetlands Delineation Manual, 2010 Supplement, suitable for submittal to the SRWMD, the USACE, and Alachua County. These delineation methods are based on the identification of specific hydrologic characteristics, including the presence of hydric soils and hydric soil conditions (periodic, continuous, or saturated), a dominance of hydrophytic vegetation, and other indicators of hydrologic conditions (e.g., evidence of frequent inundation, moss collars, and the presence of muck soils). If any wetlands or surface waters were found, the landward extent of each jurisdictional wetland was flagged in the field. Each flag location was recorded using a sub-meter Global Positioning System (GPS). Wetlands and surface waters found occurring within the site, are shown on the Ecological Survey map.

### 2.2.2 Standard Listed Species Survey

Flatwoods conducted a listed species survey within the study site in accordance with the FWC Florida Wildlife Conservation Guide. The purpose of the listed species survey was to identify presence and relative abundance of species considered Endangered, Threatened, or of Special Concern by the FWS under 50 CFR 11-12 and the FWC under Chapter 68A-27 F.A.C. During these surveys, all habitats within the site are canvassed for listed species. Any observations of listed species, as well as physical features that may indicate the presence of these species, such as tracks, scat, nests, burrows, and nest cavities in trees were shown on the Ecological Survey Map, if present.

### 2.2.3 Listed Plant Survey

Flatwoods conducted a survey in all suitable habitats within the site for plant species listed by the FWS as Threatened or Endangered. If found, any observations of listed plant species will be recorded using a sub-meter GPS and shown on the Ecological Survey Map, if present.

### 3.0 RESULTS

### 3.1 Soil Descriptions

Based on the USDA/NRCS Soil Survey for Alachua County (1982), nine soil types were mapped: Arredondo Fine Sand, 0 to 5 Percent Slopes (3); Fort Meade Fine Sand, 0 to 5 Percent Slopes (5); Millhopper Sand, 0 to 5 Percent Slopes (8); Kendrick Sand, 2 to 5 Percent Slopes (30); Gainesville Sand, 0 to 5 Percent Slopes (35); Arredondo Fine Sand, 5 to 8 Percent Slopes (69); Millhopper Sand, 5 to 8 Percent Slopes (71); Lochloosa Fine Sand, 5 to 8 Percent Slopes (72); and Kendrick Sand, 5 to 8 Percent Slopes (73) (Soil Map). According to the Hydric Soils of Florida Handbook, no hydric soils occur onsite.

### 3.2 Existing Upland Communities

Existing land use within the site was determined using a combination of the FLUCCS descriptions, SRWMD land use mapping, and field reconnaissance (Land Use Map). The FLUCCS represents current habitat conditions on the property. Representative photographs of the site are depicted in the Photo Document.

## Land Use Communities

Row Crops (FLUCCS 214)
This habitat consisted of well-defined rows for growing peanuts, cabbage, and melons.

## Fallow Crop Land (FLUCCS 261)

This habitat is previously harvested agricultural land that is no longer in crop production. Vegetation within this land use included ruderal species such as dogfennel (Eupatorium capillifolium), fireweed (Erechtites hieraciifolius), hairy indigo (Indigofera hirsuta), and broomsedge bluestem (Andropogon virginicus).

Upland Hardwood Forest (FLUCCS 420)
The canopy within this habitat consisted of live oak (Quercus virginiana), chinaberry (Melia azedarach), Carolina laurelcherry (Prunus caroliniana), and hackberry (Celtis occidentalis). Other vegetative species within this habitat included American beauty-berry (Callicarpa americana), greenbrier (Smilax spp.), Virginia creeper (Parthenocissus quinquefolia), and poison ivy (Toxicodendron radicans).

### 3.3 Existing Wetland Communities

Seven surface waters were delineated on the San Felasco Ventures property during the field review. No wetlands were found on the property. The text below provides a brief description the surface waters.

Reservoirs less than 10 Acres (FLUCCS 534)
This land use category designates man-made surface waters that are less than 10 acres. The surface waters found on site were constructed to serve as stormwater management features. Conveyances are stabilized with rip rap, areas that serve as ponds contain a sand bottom. These systems are maintained by mowing. Vegetative species included bahiagrass (Paspalum notatum), falsefennel (Eupatorium leptophyllum), and saltbush (Baccharis halimifolia).

### 3.4 Listed Species Survey Results

No listed wildlife or plant species were observed. In addition to the field review, Flatwoods conducted a desktop review of possible nearby wildlife species. Flatwoods reviewed the FWC Eagle Nest Locator (2016-2017 Survey), the 1999 FWC Wading Bird Colony Database, and the FWS Wood Stork (Mycteria americana) Consultation Area. No known bald eagle (Haliaeetus leucocephalus) nests or wading bird colonies occur within one mile of the site. The project is not located within any wood stork Core Foraging Areas (CFAs) (FNAI/FWC Map).

Based on the project's available habitats and location, other listed species (animals and plants) have the potential to occur. Table 1 describes the potentially occurring species' habitat preferences, preferred survey window (breeding season or flowering time), their likelihood of occurrence, whether they were observed on the site, and their FWS and FWC listing status. The species that have a moderate or high probability of occurrence on the site are described in the sections below.

### 3.4.1 Florida Pine Snake

The Florida pine snake (Pituophis melanoleucus mugitus) is listed as Threatened by the FWC and not listed by the FWS. The Florida pine snake is a large, stocky, tan or rusty colored snake with an indistinct pattern of large blotches on a lighter background. They have a muscular body, with keeled scales with a relatively small head, somewhat pointed snout, and four prefrontal scales. These snakes may hiss loudly and vibrate their tail when encountered. They are found in sandhill and former sandhill, including old fields and pastures, but also sand pine scrub and scrubby flatwoods with open canopies and dry sandy soils. They often coexist with pocket gophers and gopher tortoises. Flatwoods did not observe the Florida pine snake during the survey.

### 3.4.2 Gopher Tortoise

The gopher tortoise is listed as Threatened by the FWC and is a candidate for listing by the FWS. Gopher tortoises are terrestrial turtles averaging 9 to 11 inches in length. They are typically found in sandhill, pine flatwoods, scrub, dry prairie, coastal dunes, and other well-drained, open habitats. Gopher tortoises dig half-moon-shaped burrows that average 15 feet long and 7 feet deep. No gopher tortoise burrows were observed during the ecological survey. Please note, a 100 percent gopher tortoise was not conducted at the time of this survey. Flatwoods will conduct a gopher tortoise survey at a future date. Completion of this survey will determine if gopher tortoises are present onsite and if an FWC Gopher Tortoise Relocation Permit will be required for site development.

### 3.4.3 Little Blue Heron

This medium-sized, slate-blue wading bird is listed as Threatened by the FWC and not listed by the FWS. The little blue heron (Egretta caerulea) prefers both fresh and saltwater habitats, such as fresh and saltwater mudflats and marshes, coastal beaches, mangrove swamps, cypress swamps, hardwood swamps, wet prairies, cypress wetlands,
bay swamps, and ditches. No communal roosts or rookeries were observed on the site. According to the 1999 FWC wading bird colony database, one wading bird colony is located within a mile of the project (FNAI/FWC Map). No FWC approvals should be required for the project.

### 3.4.4 Southeastern American Kestrel

The southeastern American kestrel (Falco sparverius paulus) is listed as Threatened by the FWC. It is a resident subspecies of the American kestrel (Falco sparverius) and kestrels observed in Florida during the breeding season (April-August) are assumed to be resident southeastern American kestrels. They are found in upland habitats, including sandhills, flatwoods, pastures, sand pine scrubs, and prairies. As cavity nesters and sit and wait predators, they require suitable cavity trees and perches in their territories as well as open ground cover to see and capture their prey. Typical prey items include insects, lizards, small rodents, and small birds. No kestrels were observed foraging during the site review.

### 3.4.5 Tricolored Heron

This medium-sized, two-toned wading bird is listed as Threatened by the FWC and not listed by the FWS. The tricolored heron (Egretta tricolor) prefers both fresh and saltwater habitats, such as fresh and saltwater mudflats and marshes, coastal beaches, mangrove swamps, cypress swamps, hardwood swamps, wet prairies, cypress wetlands, bay swamps, ditches, inland waterways, and urban and agricultural environments. No communal roosts or rookeries were observed on the site. According to the 1999 FWC wading bird colony database, one wading bird colony is located within a mile of the project (FNAI/FWC Map). No FWC approvals should be required for the project.

Table 1 Protected Plants and Animals Potentially Occurring on the San Felasco Ventures Project in Alachua County, Florida

| Species | Habitat of Occurrence | Preferred Survey Window ${ }^{1}$ | Likelihood of Occurrence | Status ${ }^{\text {2 }}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | FWS ${ }^{3}$ | FWC ${ }^{4}$ |
| BIRDS |  |  |  |  |  |
| Antigone canadensis pratensis <br> Florida sandhill crane | Open wetland habitats surrounded by shrubs or trees. Commonly found foraging in irrigated croplands, pastures, grasslands, or wetlands. | S - Year round B - January-June | Low: Little habitat present | --- | T |
| Aphelocoma coerulescens Florida scrub-jay | Inhabits fire dominated, low-growing, oak scrub habitat found on well-drained sandy soils. May persist in areas with sparser oaks or scrub areas that are overgrown. | S - March-October B - March-July | Low: Lack of suitable habitat | T | T |
| Egretta caerulea Little blue heron | Shallow freshwater, brackish water, and saltwater habitats. | S - Year round <br> B - March-July | Moderate: Some suitable habitat present | --- | T |
| Egretta tricolor Tricolored heron | Forages in a variety of permanently and seasonally flooded wetlands, ditches, edges of ponds, and lakes. Inland nesting colonies typically found in Carolina willow dominated wetlands. | S - Year round <br> B - March-July | Moderate: Some suitable habitat present | --- | T |
| Falco sparverius paulus Southeastern American kestrel | Found in open pine habitats, woodland edges, dry prairies, and pastures. | S - April-August <br> B - April-August | Moderate: Some habitat present | --- | T |
| Haliaeetus leucocephalus Bald eagle | Areas close to the coast, bays, rivers, lakes, or other bodies of water. Typically nests in live mature pines and cypress trees. | S - Year round <br> B - October-May | Low: Little habitat present | --- | --- |
| Mycteria americana Wood stork | Forages in shallow water in freshwater marshes, swamps, lagoons, ponds, tidal creeks, flooded pastures, and ditches. Nests in colonies in cypress swamps. | S - Year round <br> B - March-August | Low: Little habitat present | T | T |

Ecological Survey Report

| Species | Habitat of Occurrence | Preferred Survey Window ${ }^{1}$ | Likelihood of Occurrence | Status ${ }^{2}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | FWS $^{3}$ | FWC ${ }^{4}$ |
| Picoides borealis Red-cockaded woodpecker | Open pine woodlands with mature to over-mature pine trees and a diversity of grass, forbs, and shrub species. | S - Year round <br> B - April-July | Low: Lack of suitable habitat | E | E |
| REPTILES |  |  |  |  |  |
| Drymarchon corais couperi Eastern indigo snake | Broad range of habitats from scrub and sandhill to wet prairies, forested wetlands, and mangrove swamps. Often seeks refuge in gopher tortoise burrows in sandy uplands, but also forages in mesic and hydric habitats. | S - Year round <br> B - November-April | Low: Little habitat present | T | T |
| Gopherus polyphemus Gopher tortoise | Found in dry upland habitats, including sandhills, scrub, xeric oak hammock, and dry prairie flatwoods; also, commonly uses disturbed habitats such as pastures, old fields, abandoned citrus groves, and road shoulders. | S - Year round B - March-October | Moderate: Some habitat present | --- | T |
| Pituophis melanoleucus mugitus Florida pine snake | Found in sandhill and former sandhill, including old fields and pastures, but also sand pine scrub and scrubby flatwoods with open canopies and dry sandy soils. Often coexists with pocket gophers and gopher tortoises. | S - Year round B - April-February | Moderate: Some habitat present | --- | T |

1-S - Survey Window, B - Breeding Season
$2-E=$ Endangered, $T=$ Threatened, $T(S / A)=$ Similarity of Appearance to a Threatened Taxon
3 - U.S. Fish and Wildlife Service
4 - Florida Fish and Wildlife Conservation Commission
Table Source: Florida Wildlife Conservation Guide, Florida's Breeding Bird Atlas, FWS Listed Species by County, and Florida Natural Areas Inventory

### 4.0 PROTECTED HABITATS AND WATERS

The site was evaluated for the potential occurrence of Critical Habitat as defined by the Endangered Species Act of 1973, as amended. The FWS regulates the adverse modification of the biological or physical constituent elements essential to the conservation of the listed species within the Critical Habitat. There are no lands designated as Critical Habitat within or adjacent to the site. The site was also evaluated for the potential occurrence of Protected Waters and Protected Lands. No Protected Waters or Protected Lands occur onsite. The San Felasco Hammock Preserve State Park is immediately adjacent to the eastern boundary of the site (Protected Lands Map, Protected Waters Map).

### 5.0 FEMA FLOODPLAIN

Federal Emergency Management Agency (FEMA) identifies flood hazards and assesses flood risks. Based on the attached Floodplain Map, the northeast portion of the site occurs within Flood Zone A. Zone A is defined as areas subject to inundation by the 1-percent-annual-chance flood event generally determined using approximate methodologies.

### 6.0 PERMITTING DISCUSSION

## State Permitting

Four existing surface waters were observed on the site, constructed in accordance with Environmental Resource Permit (ERP) Individual Permit No. 001-205889-3, issued by the SRWMD on April 5, 2019. An ERP permit from the SRWMD will be required for the operation, maintenance, and any alteration of the existing systems, or the creation of any new surface waters.

No listed species were observed during the surveys. Flatwoods plans to conduct a $100 \%$ gopher tortoise survey at a future date. This survey will be conducted to determine whether gopher tortoise burrows are present onsite and if future construction will impact gopher tortoises. Upon completion of this survey, additional permitting requirements, if applicable, will be provided.

According to Section 3.6 of the SRWMD ERP Applicant's Handbook Volume II, there must be no net decrease in storage volume within the floodplain. Compensating storage may be used to offset impacts if impacts within the floodplain were to occur.

## Local Government Permitting

Section 406.04 of Alachua County's Land Development Regulations requires a Resource Assessment as supporting documentation for various applications. This report is sufficient to support the application for Alachua County.

According to Article VII of Chapter 406 of Alachua County's Land Development Regulations, a floodplain development permit may be required if development occurs wholly or partially within the flood prone area (Floodplain Map).

According to Article II of Chapter 406 of Alachua County's Land Development Regulations, a permit is required to remove any champion trees, heritage trees, woody native tree species eight inches or more in diameter at breast height ( DBH ), specimen trees, and small specimen trees listed under Section 406.16. For protected trees permitted for removal, trees shall be either relocated, replaced, or a fee may be paid to Alachua County in lieu of replacement planting.

According to Section 6.2 of the City of Alachua's Code of Ordinances, a tree removal permit must be obtained before removing any champion or heritage tree. A tree survey was not conducted as part of this Ecological Survey but will likely be required for site development.

### 7.0 REFERENCES

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U.S. Fish and Wildlife Survey (FWS). National Wetland Inventory (NWI). Online resources available from http://www.fws.gov/wetlands/Data/Mapper.html.
U.S. Fish and Wildlife Survey Critical Habitat Designations. Online resources available from http://criticalhabitat.fws.gov/.













Photo Station 1, view north


Photo Station 1, view east


Photo Station 1, view south


Photo Station 1, view west


Photo Station 2, view north


Photo Station 2, view east


Photo Station 2, view south


Photo Station 2, view west


Photo Station 3, view north


Photo Station 3, view east


Photo Station 3, view south


Photo Station 3, view west


Photo Station 4, view north


Photo Station 4, view east


Photo Station 4, view south


Photo Station 4, view west


Photo Station 5, view north


Photo Station 5, view east


Photo Station 5, view south


Photo Station 5, view west


Photo Station 6, view north


Photo Station 6, view east


Photo Station 6, view south


Photo Station 6, view west


Surface Water 1


[^0]

Surface Water 3


Surface Water 4


Surface Water 5


[^1]

Surface Water 7

# NW 140 ${ }^{\text {th }}$ St at the <br> Proposed San Felasco Parkway Extension 

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Printed copies of this document are not considered signed and sealed and the signature mus be verified on any electronic copies.

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## Executive Summary

CHW has reviewed the intersection of NW 140 th Street (CR 241) and NW 128 ${ }^{\text {th }}$ Place, with the proposed San Felasco Parkway connection during the opening year 2020, year 2030, and design year 2040.

NW $140^{\text {th }}$ Street at NW $128^{\text {th }}$ Place is an existing T-intersection. NW $140^{\text {th }}$ Street is a two-lane county road with a posted speed of 45 mph , connecting SR 26 with CR 235. NW $128^{\text {th }}$ Place is local road serving a small subdivision.

The following conclusions were derived from this analysis:

- The two-way stop control is expected to operate acceptably well after year 2030.
- A roundabout is not a recommended control type for this intersection, based on the analysis results indicating volumes exceeding capacity during the AM and PM peak hours.
- A traffic signal is expected to be warranted at some point beyond year 2030 if the UF Foundation site develops to the extent provided in this analysis.

Based on the results of this study, CHW provides the following recommendations:

- A two-way stop-controlled intersection with the following lane configuration should be provided with the proposed San Felasco Parkway connection to NW $140^{\text {th }}$ Street:
- A southbound left-turn lane, with a queue length of 50 FT
- A northbound right-turn lane with no queue length
- A westbound left-turn lane, with a queue length of 200 FT
- A westbound thru/right turn lane
- A signal warrant analysis should be performed at the time either of the scenarios below occur. A traffic signal should be constructed if the analysis demonstrates that a traffic signal is warranted.
- For any development or roadway plan impacting traffic volumes along San Felasco Parkway, that occurs beyond year 2030; or
- For any development within the UF Foundation site that exceeds $75 \%$ of full build-out, equivalent to 1,360,000 SF Gross Leasable Area (GLA), before year 2030.


## Traffic Forecast

The forecasted traffic volumes that was analyzed in the subject intersection will come from the following three sources:

- Trips generated by the proposed UF Foundation site. This site is expected to consist primarily of research and development land use (ITE land use code 760).
- The existing trips at the intersection of NW $140^{\text {th }}$ Street and NW 128 ${ }^{\text {th }}$ Place
- The rerouted trips along the roadway network that will use San Felasco Parkway instead of alternative routes


## Trip Generation

The Institute of Transportation Engineer's (ITE) Trip Generation Manual, 10th Edition was used to estimate the trip generation for the UF Foundation site, as provided in Table 1. Pass-by trips and internal capture were not applied to the trip generation volumes. The UF Foundation site along the proposed San Felasco Parkway extension is 277.5 acres. A floor area ratio (FAR) of $15 \%$ was applied to the 277.5 acres of property to estimate the gross floor area of $1,813,446$ SF. This estimated gross floor area was used to determine the trip generation provided in Table 1.

The studies used to derive the trip generation for "the peak hour of adjacent street traffic" from the ITE manual, use smaller scale sites ranging in sizes up to a maximum of about 260,000 SF GLA. The studies used to derive the trip generation for "the peak hour of generator" use larger scale sites, ranging in sizes up to about 800,000 SF GLA. Therefore, the AM and PM "peak hour of generator" was used to calculate the AM and PM peak hour trip generation, as the study sites are closer in size to the UF Foundation site.

| UF Foundation Trip Generation |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Land Use | ITE LU <br> Code | Variable Type | Variable | Daily ${ }^{1}$ |  |  | AM Peak ${ }^{2}$ |  |  | PM Peak ${ }^{2}$ |  |  |
|  |  |  |  | Total | In | Out | Total | In | Out | Total | In | Out |
| Research and Development | 760 | 1000 GFA | 1,813.446 | 1,8756 | 9,378 | 9,378 | 1,330 | 1,104 | 226 | 1,899 | 304 | 1,595 |

Land use: R\&D at a 0.15 FAR, resulting in a GFA of 1,813,446 square feet
${ }^{1}$ Used fitted curve equation of trips vs. 1000 square feet GFA, according to ITE Trip Generation Manual
${ }^{2}$ Used Peak Hour of Generator fitted curve equations for AM and PM peak, according to ITE Trip Generation Manual
Table 1: Trip Generation

The Signal Warrants program, packaged in the HCS7 software, allows traffic volume input from 7:00 AM to 7:00 PM, to determine whether signal warrants are met, in accordance with the Manual on Uniform Traffic Control Devices (MUTCD). To estimate these hourly project trips, the ITE Journal, January 2015 Edition ${ }^{1}$ was used, see citation in the footnote below. This document provides daily office use trip percentages for each hour of the day. Table 2 provides the estimated trip generation volumes throughout the day. The daily project trip distribution calculations are provided in Appendix A. The traffic forecast estimates full build-out of the UF Foundation site by the design year 2040. The projects are assumed to increase linearly from opening year 2020, with 0 project trips, to full build-out during design year 2040.

| Daily Project Volumes - Trip Generation |  |  |
| :---: | ---: | ---: |
| Time | Average Weekday |  |
|  | Hourly Entering <br> Traffic | Hourly Exiting <br> Traffic |
| 6-7 AM | 477 | 66 |
| 7-8 AM | 1544 | 178 |
| 8-9 AM | 1104 | 226 |
| $9-10$ AM | 850 | 300 |
| $10-11$ AM | 518 | 366 |
| $11-12$ AM | 529 | 806 |
| $12-1 ~ P M$ | 902 | 984 |
| 1-2 PM | 1036 | 619 |
| $2-3$ PM | 611 | 591 |
| 3-4 PM | 446 | 900 |
| $4-5$ PM | 352 | 1444 |
| 5-6 PM | 304 | 1595 |
| 6-7 PM | 145 | 516 |
| $7-8$ PM | 93 | 234 |
| 8-9 PM | 73 | 150 |
| $9-10 ~ P M ~$ | 62 | 103 |
| 10 PM -6 AM | 332 | 300 |
| Non-Peak Total | 7969 | 7557 |
| Peak Total | 9378 | 9378 |
|  |  |  |

Table 2: Daily Distributed Trip Generation
${ }^{1}$ Zimmerman, Aaron T. (2015, January) Hourly Variations in Trip Generation for Office and Residential Land Use, Institute of Transportation URL:http://digitaleditions.sheridan.com/publication/? $\mathrm{i}=240553 \&$ article_id=1896126\&view=arti cleBrowser\&ver=html5\#\{"issue_id":"240553","page":16\}

## Project Trip Distribution

The project trip distribution is based on the ADT of the major roadways in the area. As illustrated in Figure 1, approximately $59 \%$ of the project trips will be destined to or originate from NW $140^{\text {th }}$ Street to/from the north, while $8 \%$ of the project trips will be destined to or originate from NW $140^{\text {th }}$ Street to/from the south. The remaining $33 \%$ of the project trips will be destined to or originate from US 441 to/from the east, and will not travel through the subject intersection.


## Data Collection

Data collection was performed on Wednesday October $3^{\text {rd }}, 2018$. Turning movement counts were collected from the following intersections:

- NW $140^{\text {th }}$ Street and NW $128^{\text {th }}$ Place (12-hour count)
- NW $140^{\text {th }}$ Street and CR 235 (2-hour AM peak and 2-hour PM peak count)
- US 441 and NW 140 ${ }^{\text {th }}$ Street (2-hour AM peak and 2-hour PM peak count)
- US 441 and Progress Blvd (2-hour AM peak and 2-hour PM peak count)

Additionally, a 2-hour AM peak and 2-hour PM peak turning movement count was performed at the intersection of NW $140^{\text {th }}$ Street and Rachael Boulevard on October $16^{\text {th }}$, 2018. The results from this data collection are provided in Appendix B. The collected data was then used to provide the base from which background and build-out conditions would be analyzed.

## Diverted Trips

San Felasco Parkway will provide an alternative route for vehicles to connect from NW $140^{\text {th }}$ Street (south) to US 441 (east) and vice versa, in the City of Alachua. Currently vehicles are using either Rachael Boulevard or connecting directly between US 441 and NW $140^{\text {th }}$ Street to follow this trip pattern.

Based on the turning movement counts it is estimated that about half of the vehicles making a westbound left from Rachael Boulevard to NW $140^{\text {th }}$ Street will continue to NW $140^{\text {th }}$ Street while the other half will drive to CR 235 . This forecast conservatively assumes that all of these trips destined to NW $140^{\text {th }}$ Street will now be served by the proposed San Felasco Parkway extension. It is estimated that a quarter of the vehicles making a westbound left from US 441 to NW $140^{\text {th }}$ Street will continue to NW $140^{\text {th }}$ Street while the remaining vehicles are expected to have other destinations. Therefore, a quarter of the westbound lefts at the intersection of US 441 and NW $140^{\text {th }}$ Street will use the proposed San Felasco Parkway extension. Similarly, it is estimated that half of the northbound rights at the intersection of NW $140^{\text {th }}$ Street at Rachael Boulevard and a quarter of the northbound rights at the intersection of NW $140^{\text {th }}$ Street at US 441 will be rerouted to the proposed San Felasco Parkway extension. This rerouting of vehicle trips is illustrated in Figure 2.

## Background Trips

The turning movements at the intersection of NW $140^{\text {th }}$ Street and NW $128^{\text {th }}$ Place, with the added rerouted trips, were adjusted based on the seasonal adjustment factor of 1.02 provided by FDOT Traffic Online. These volumes were then adjusted by the growth rate of $1.0 \%$ to derive the background volumes for each of the study years. The growth
rate of $1.0 \%$ along NW $140^{\text {th }}$ Street was derived from Alachua County's Long Range Transportation Plan which used historical counts provided by Alachua County. The peak season adjustment factor and the growth rate documentation are provided in Appendix C.

The spreadsheets prepared to derive the background and build-out conditions for the opening year 2020, year 2030, and design year 2040 are provided in Appendix D. The AM and PM peak hour build-out volumes for each of these scenarios are provided in Figures 3 through 5.





## Analysis

The following analyses were performed to provide the most suitable control type and configuration for the intersection of the proposed San Felasco Parkway Extension with NW 140 ${ }^{\text {th }}$ Street:

- Traffic Signal Warrant Analysis (Opening Year 2020, year 2030, Design year 2040)
- Two-way Stop Control Operational Analysis (Opening Year 2020, year 2030, Design year 2040)
- Traffic Signal Control Operational Analysis (year 2030, Design year 2040)
- Roundabout Control Operational Analysis (Design Year 2040)

The traffic signal warrant analysis used the 7:00 AM to 7:00 PM forecasted traffic volumes. Under the existing T-intersection condition five years of crash history were reviewed which revealed only one crash at this intersection, therefore, Warrant 7 was not met during any of the scenarios. The Signal Warrants program, packaged with the HCS7 software, was used to perform the traffic signal warrant analysis. See Appendix E for the signal warrant documentation.

The two-way stop control was modeled with the following lane additions:

- southbound left-turn lane
- northbound right-turn lane
- westbound left-turn lane
- westbound thru/right lane

HCS7 was used to analyze the two-way stop-controlled conditions.
The traffic signal control was modeled with the lane additions described above, as well as a northbound left-turn lane. The traffic signal was not synchronized with other traffic signals. The left-turn treatment used was permitted/protected for the southbound leftturn and permitted only at all other approaches. The left turn treatment was applied based on the recommendations of the FHWA Signal Timing Manual. The cycle length and phase splits were optimized. Synchro 9 was used to analyze the traffic signalcontrolled condition.

The roundabout was modeled as a single lane roundabout with a single approach in each direction. HCS7 was used to analyze the roundabout controlled condition.

Results from all operational analyses are provided in Table 3. Operational analysis reports from HCS7 and Synchro 9 are provided in Appendix F.



Yellow highlight $=$ deficiency
Table 3: Intersection Operational Analysis Summary

## Opening Year 2020

The traffic signal warrant analysis resulted with no warrants being met during the opening year 2020. The two-way stop analysis resulted with no deficiencies for the AM and PM peak hours.

## Year 2030

The traffic signal warrant analysis resulted with the following warrants being met during the year 2030 condition:

- Warrant 1: Eight-Hour Vehicular Volume
- Warrant 2: Four-Hour Vehicular Volume
- Warrant 3: Peak Hour

The two-way stop operates with a LOS of F for the eastbound approach and westbound left movements for the AM and PM peak hours. However, all v/c ratios are well below 1.0 , demonstrating that backups are not expected. It is typical for main street left-turning movements and side street movements to operate with a LOS of $F$ as the right-of-way is provided to the higher volume main street through movements.

The traffic signal operates with no deficiencies during year 2030. All movements operate well, providing a total intersection LOS of B during the AM and PM peak hours.

With the conservative estimates used in the traffic forecast it is expected that a two-way stop-controlled intersection will operate acceptably well after year 2030. Though three of the signal warrants are met, the two-way stop control continues to operate with no major deficiencies and no delay for the higher-volume NW 140 ${ }^{\text {th }}$ Street through movements.

## Design Year 2040

The traffic signal warrant analysis resulted with the following warrants being met during the 2040 condition:

- Warrant 1: Eight-Hour Vehicular Volume
- Warrant 2: Four-Hour Vehicular Volume
- Warrant 3: Peak Hour

The two-way stop AM peak analysis resulted with a LOS of F for the eastbound approach and westbound left movements. The volume exceeds capacity for the westbound left, indicating that backups will occur for this movement. Additionally, the two-way stop PM peak analysis indicates that the westbound left and westbound through/right movements operate with a LOS of $F$ and $v / c$ ratios exceeding 1.0, indicating that backups are expected for these movements. If drivers from these failing movements are required to wait an extended length of time for a gap in traffic, the
drivers will be inclined to accept shorter gaps which could create safety issues at the intersection. The results for the eastbound left/thru/right movement and intersection total are not provided from HCS7 for the PM condition. Disregarding the eastbound approach, the total intersection delay during the PM peak hour is calculated as 161.4 seconds.

The traffic signal modeled during design year 2040 resulted with no deficient movements during the AM peak hour and PM peak hour analysis. The traffic signal operates with a total intersection delay that is lower than the roundabout during both the AM and PM peak hours. The traffic signal operates with a total intersection delay that is much lower, approximately one quarter, than the stop-controlled intersection delay, during the AM and PM peak hours.

A roundabout was modeled during the design year 2040. The roundabout analysis resulted with a LOS of $F$ and a v/c exceeding 1.0 for the southbound approach during the AM and a LOS of $F$ with a v/c exceeding 1.0 for the westbound approach during the PM. Comparing the total intersection operations, the roundabout operates with an average delay of 61.7 s during the AM peak and operates with a LOS of $F$ and an average delay of 110 s during the PM peak. This intersection delay is approximately 2.6 times that of the traffic signal.

## Intersection Configuration

The following lane additions are recommended for the two-way stop-controlled intersection of NW 140 ${ }^{\text {th }}$ Street and NW 128 ${ }^{\text {th }}$ Place to accommodate the traffic added by the proposed San Felasco Parkway extension and future development along this roadway:

- A southbound left-turn lane with a queue length of 50 FT
- A northbound right-turn lane with no queue length
- A westbound left-turn lane with a queue length of 200 FT
- A westbound thru/right turn lane

By the design year 2040, the site is expected to warrant a traffic signal, should the UF Foundation site develop to the extent projected in this analysis. If the intersection is signalized in the future, the northbound left-turn lane would be needed as a northbound through vehicle could view a green light and rear-end a northbound left turning driver stopped to make a northbound left-turn at the intersection. Additionally, the southbound left-turn lane may need to be extended to accommodate the project trips.

## Conclusion and Recommendations

Based on our analysis, and the understanding that the project trip traffic forecasted is conservatively high, with 18,756 daily trips estimated at full build-out, the following conclusions are made:

- The two-way stop control is expected to operate acceptably well after year 2030.
- A roundabout is not a recommended control type for this intersection.
- A traffic signal is expected to be warranted at some point beyond year 2030 given that the UF Foundation site develops to the extent provided in this analysis.

Similarly, CHW provides the following recommendations:

- A two-way stop-controlled intersection with the following lane configuration should be provided with the proposed San Felasco Parkway connection to NW $140^{\text {th }}$ Street:
- A southbound left-turn lane, with a queue length of 50 FT
- A northbound right-turn lane with no queue length
- A westbound left-turn lane
- A westbound thru/right turn lane with a queue length of 200 FT
- A signal warrant analysis should be performed at the time either of the scenarios below occur. A traffic signal should be constructed if the analysis demonstrates that a traffic signal is warranted.
- For any development or roadway plan impacting traffic volumes along San Felasco Parkway, that occurs beyond year 2030; or
- For any development within the UF Foundation site that exceeds $75 \%$ of full build-out, equivalent to 1,360,000 SF Gross Leasable Area (GLA), before year 2030.


## Appendix A: Project Trip Distribution

From ITE Journal - January 2015

Table I: Office Uses Combined

| Time | Average Weekday |  | Average Saturday |  | Average Sunday |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percent of 24-Hour Entering Traffic | Percent of 24-Hour Exiting Traffic | Percent of 24-Hour Entering Traffic | Percent of 24-Hour Exiting Traffic | Percent of 24-Hour Entering Traffic | Percent of 24-Hour Exiting Traffic |
| 6-7 a.m. | 4.6 | 0.7 | 4.1 | 1.4 | 1.8 | 2.4 |
| 7-8 a.m. | 14.9 | 1.9 | 5.4 | 2.5 | 3.8 | 1.2 |
| 8-9 a.m. | 20.7 | 3.0 | 9.1 | 1.5 | 6.0 | 2.9 |
| 9-10 a.m. | 8.2 | 3.2 | 7.2 | 3.9 | 6.6 | 3.8 |
| 10-11 a.m. | 5.0 | 3.9 | 6.8 | 4.6 | 9.7 | 7.5 |
| 11-12 p.m. | 5.1 | 8.6 | 7.1 | 11.3 | 8.9 | 9.6 |
| 12-1 p.m. | 8.7 | 10.5 | 8.1 | 14.0 | 6.9 | 9.1 |
| 1-2 p.m. | 10.0 | 6.6 | 7.3 | 8.3 | 8.6 | 12.0 |
| 2-3 p.m. | 5.9 | 6.3 | 7.6 | 7.7 | 6.6 | 8.2 |
| 3-4 p.m. | 4.3 | 9.5 | 6.0 | 9.6 | 4.6 | 6.3 |
| 4-5 p.m. | 3.4 | 15.4 | 3.1 | 7.9 | 5.5 | 7.5 |
| 5-6 p.m. | 2.5 | 16.5 | 3.2 | 6.9 | 3.1 | 6.7 |
| 6-7 p.m. | 1.4 | 5.5 | 2.5 | 3.2 | 3.5 | 4.1 |
| 7-8 p.m. | 0.9 | 25 | 2.0 | 2.2 | 2.7 | 2.9 |
| 8-9 p.m. | 0.7 | 1.6 | 2.4 | 2.1 | 3.3 | 4.3 |
| 9-10 p.m. | 0.6 | 1.1 | 1.4 | 1.4 | 3.1 | 3.1 |
| 10 p.m.-6 a.m. | 3.2 | 3.2 | 16.9 | 11.4 | 15.3 | 8.4 |

Table 2: Residential Uses Combined - Excluding Senior-Oriented Facilities

| Time | Average Weekday |  | Average Saturday |  | Average Sunday |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percent of 24-Hour Entering Traffic | Percent of 24-Hour Exiting Traffic | Percent of 24-Hour Entering Traffic | Percent of 24-Hour Exiting Traffic | Percent of 24-Hour Entering Traffic | Percent of 24-Hour Exiting Traffic |
| 6-7 a.m. | 1.6 | 5.7 | 1.1 | 2.1 | 0.9 | 1.9 |
| 7-8 a.m. | 2.5 | 9.0 | 1.8 | 3.6 | 1.6 | 3.3 |
| 8-9 a.m. | 3.7 | 9.1 | 2.8 | 5.6 | 2.6 | 4.7 |
| 9-10 a.m. | 3.7 | 6.5 | 4.4 | 7.3 | 3.5 | 6.8 |
| 10-11 a.m. | 4.1 | 5.5 | 5.6 | 7.7 | 6.3 | 7.5 |
| 11-12 p.m. | 4.5 | 5.7 | 6.9 | 7.5 | 6.4 | 9.5 |
| 12-1 p.m. | 5.3 | 5.3 | 6.6 | 7.8 | 6.9 | 7.6 |
| 1-2 p.m. | 5.4 | 5.7 | 7.1 | 6.9 | 7.2 | 7.4 |
| 2-3 p.m. | 6.5 | 5.9 | 7.1 | 6.7 | 7.2 | 6.6 |
| 3-4 p.m. | 8.1 | 6.3 | 7.4 | 6.1 | 7.3 | 6.6 |
| 4-5 p.m. | 9.8 | 6.3 | 8.5 | 5.9 | 8.0 | 6.7 |
| 5-6 p.m. | 10.8 | 65 | 86 | 6.3 | 7.3 | 6.9 |
| 6-7 p.m. | 8.5 | 6.1 | 6.4 | 6.0 | 5.8 | 5.1 |
| 7-8 p.m. | 5.9 | 4.9 | 5.2 | 4.9 | 5.5 | 4.1 |
| 8-9 p.m. | 5.1 | 3.4 | 4.2 | 3.6 | 4.6 | 3.3 |
| 9-10 p.m. | 4.2 | 2.3 | 3.8 | 2.6 | 4.3 | 2.7 |
| 10 p.m.-6 a.m. | 10.3 | 5.6 | 12.4 | 9.3 | 14.6 | 9.4 |



| Daily Project Volumes - Trip Generation- Original |  |  |
| :---: | :---: | :---: |
|  | Average Weekday |  |
| Time | \# Trips 24-Hour <br> Entering Traffic | \# Trips 24-Hour Exiting Traffic |
| 6-7 AM | 477 | 66 |
| 7-8 AM | 1544 | 178 |
| 8-9 AM | 1104 | 226 |
| 9-10 AM | 850 | 300 |
| 10-11 AM | 518 | 366 |
| 11-12 AM | 529 | 806 |
| 12-1 PM | 902 | 984 |
| 1-2 PM | 1036 | 619 |
| 2-3 PM | 611 | 591 |
| 3-4 PM | 446 | 900 |
| 4-5 PM | 352 | 1444 |
| 5-6 PM | 304 | 1595 |
| 6-7 PM | 145 | 516 |
| 7-8 PM | 93 | 234 |
| 8-9 PM | 73 | 150 |
| 9-10 PM | 62 | 103 |
| 10 PM - 6 AM | 332 | 300 |
| Non-Peak Total | 7969 | 7557 |
| Peak Total | 9378 | 9378 |

GOAL - To determine the entering and exiting project trips during the non-peak hours.
Step 1 - Determine the percentage of non-peak entering (76.9\%) and exiting traffic (80.6\%).
Step 2 - Determine the relative percentages of all non-peak hours. This is determined by dividing the original Office Use Daily percentages by the percentages of non-peak traffic.
Example: During 6:00 AM to 7:00 PM the relative percentage of entering project trips is $4.6 \% / 76.9 \%=6.0 \%$
Step 3 - Determine the non-peak total daily trips by subtracting the AM and PM peak hour totals from the daily project trips resulting in 7969 entering trips and 7557 exiting trips.

Step 4 - Determine the non-peak hour project trips by multiplying the relative percentages by the non-peak total daily trips. Example: During 6:00 AM to 7:00 PM the entering project trips $=5.98 \% \times 7969=477$

## Appendix B: Turning Movement Counts

## NW 140th St. and NW 128th PI.

File Name: 2-NW 140th St and NW 128th Place
Site Code :
Start Date : 10/3/2018
Page No : 1
Groups Printed- Car

|  | NW 140th St Southbound |  |  |  | NW 140th St Northbound |  |  |  | NW 128th PI Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Peds | App. Total | Thru | Left | Peds | App. Total | Right | Left | Peds | App. Total | Int. Total |
| 07:00 AM | 0 | 94 | 0 | 94 | 50 | 0 | 0 | 50 | 2 | 2 | 0 | 4 | 148 |
| 07:15 AM | 0 | 96 | 0 | 96 | 66 | 0 | 0 | 66 | 0 | 0 | 0 | 0 | 162 |
| 07:30 AM | 0 | 104 | 0 | 104 | 72 | 0 | 0 | 72 | 2 | 1 | 0 | 3 | 179 |
| 07:45 AM | 1 | 115 | 0 | 116 | 62 | 0 | 0 | 62 | 0 | 4 | 0 | 4 | 182 |
| Total | 1 | 409 | 0 | 410 | 250 | 0 | 0 | 250 | 4 | 7 | 0 | 11 | 671 |
| 08:00 AM | 0 | 105 | 0 | 105 | 78 | 1 | 0 | 79 | 1 | 4 | 0 | 5 | 189 |
| 08:15 AM | 1 | 111 | 0 | 112 | 69 | 1 | 0 | 70 | 0 | 1 | 0 | 1 | 183 |
| 08:30 AM | 0 | 121 | 0 | 121 | 58 | 0 | 0 | 58 | 1 | 0 | 0 | 1 | 180 |
| 08:45 AM | 0 | 135 | 0 | 135 | 49 | 0 | 0 | 49 | 0 | 1 | 0 | 1 | 185 |
| Total | 1 | 472 | 0 | 473 | 254 | 2 | 0 | 256 | 2 | 6 | 0 | 8 | 737 |


| 09:00 AM | 0 | 96 | 0 | 96 | 36 | 0 | 0 | 36 | 0 | 0 | 0 | 0 | 132 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 09:15 AM | 1 | 119 | 0 | 120 | 33 | 0 | 0 | 33 | 3 | 0 | 0 | 3 | 156 |
| 09:30 AM | 0 | 86 | 0 | 86 | 33 | 0 | 0 | 33 | 1 | 1 | 0 | 2 | 121 |
| 09:45 AM | 0 | 64 | 0 | 64 | 46 | 0 | 0 | 46 | 2 | 0 | 0 | 2 | 112 |
| Total | 1 | 365 | 0 | 366 | 148 | 0 | 0 | 148 | 6 | 1 | 0 | 7 | 521 |
| 10:00 AM | 0 | 65 | 0 | 65 | 40 | 0 | 0 | 40 | 0 | 0 | 0 | 0 | 105 |
| 10:15 AM | 0 | 42 | 0 | 42 | 29 | 0 | 0 | 29 | 0 | 0 | 0 | 0 | 71 |
| 10:30 AM | 0 | 45 | 0 | 45 | 38 | 1 | 0 | 39 | 2 | 0 | 0 | 2 | 86 |
| 10:45 AM | 0 | 40 | 0 | 40 | 38 | 0 | 0 | 38 | 0 | 0 | 0 | 0 | 78 |
| Total | 0 | 192 | 0 | 192 | 145 | 1 | 0 | 146 | 2 | 0 | 0 | 2 | 340 |
| 11:00 AM | 1 | 32 | 0 | 33 | 27 | 0 | 0 | 27 | 0 | 0 | 0 | 0 | 60 |
| 11:15 AM | 0 | 39 | 0 | 39 | 37 | 0 | 0 | 37 | 0 | 1 | 0 | 1 | 77 |
| 11:30 AM | 0 | 30 | 0 | 30 | 41 | 0 | 0 | 41 | 0 | 0 | 0 | 0 | 71 |
| 11:45 AM | 0 | 45 | 0 | 45 | 37 | 0 | 0 | 37 | 0 | 0 | 0 | 0 | 82 |
| Total | 1 | 146 | 0 | 147 | 142 | 0 | 0 | 142 | 0 | 1 | 0 | 1 | 290 |
| 12:00 PM | 0 | 30 | 0 | 30 | 51 | 0 | 0 | 51 | 0 | 1 | 0 | 1 | 82 |
| 12:15 PM | 1 | 37 | 0 | 38 | 35 | 1 | 0 | 36 | 0 | 1 | 0 | 1 | 75 |
| 12:30 PM | 1 | 47 | 0 | 48 | 46 | 0 | 0 | 46 | 0 | 1 | 0 | 1 | 95 |
| 12:45 PM | 0 | 46 | 0 | 46 | 27 | 0 | 0 | 27 | 0 | 0 | 0 | 0 | 73 |
| Total | 2 | 160 | 0 | 162 | 159 | 1 | 0 | 160 | 0 | 3 | 0 | 3 | 325 |
| 01:00 PM | 1 | 39 | 0 | 40 | 38 | 1 | 0 | 39 | 0 | 0 | 0 | 0 | 79 |
| 01:15 PM | , | 32 | 0 | 33 | 44 | 0 | 0 | 44 | 0 | 0 | 0 | 0 | 77 |
| 01:30 PM | 0 | 28 | 0 | 28 | 48 | 0 | 0 | 48 | 0 | 0 | 0 | 0 | 76 |
| 01:45 PM | 1 | 30 | 0 | 31 | 36 | 1 | 0 | 37 | 0 | 0 | 0 | 0 | 68 |
| Total | 3 | 129 | 0 | 132 | 166 | 2 | 0 | 168 | 0 | 0 | 0 | 0 | 300 |
| 02:00 PM | 0 | 43 | 0 | 43 | 25 | 0 | 0 | 25 | 0 | 1 | 0 | 1 | 69 |
| 02:15 PM | 0 | 41 | 0 | 41 | 30 | 0 | 0 | 30 | 0 | 0 | 0 | 0 | 71 |
| 02:30 PM | 1 | 28 | 0 | 29 | 30 | 0 | 0 | 30 | 0 | 0 | 0 | 0 | 59 |
| 02:45 PM | 0 | 44 | 0 | 44 | 38 | 1 | 0 | 39 | 0 | 0 | 0 | 0 | 83 |
| Total | 1 | 156 | 0 | 157 | 123 | 1 | 0 | 124 | 0 | 1 | 0 | 1 | 282 |
| 03:00 PM | 0 | 41 | 0 | 41 | 48 | 1 | 0 | 49 | 1 | 0 | 0 | 1 | 91 |
| 03:15 PM | 2 | 29 | 0 | 31 | 40 | 0 | 0 | 40 | 1 | 1 | 0 | 2 | 73 |
| 03:30 PM | 2 | 64 | 0 | 66 | 42 | 0 | 0 | 42 | 0 | 1 | 0 | 1 | 109 |
| 03:45 PM | 1 | 49 | 0 | 50 | 58 | 0 | 0 | 58 | 0 | 0 | 0 | 0 | 108 |
| Total | 5 | 183 | 0 | 188 | 188 | 1 | 0 | 189 | 2 | 2 | 0 | 4 | 381 |
| 04:00 PM | 1 | 50 | 0 | 51 | 49 | 3 | 0 | 52 | 0 | 0 | 0 | 0 | 103 |
| 04:15 PM | 5 | 59 | 0 | 64 | 45 | 2 | 0 | 47 | 1 | 0 | 0 | 1 | 112 |
| 04:30 PM | 2 | 47 | 0 | 49 | 66 | 3 | 0 | 69 | 0 | 0 | 0 | 0 | 118 |
| 04:45 PM | 0 | 57 | 0 | 57 | 69 | 0 | 0 | 69 | 1 | 1 | 0 | 2 | 128 |
| Total | 8 | 213 | 0 | 221 | 229 | 8 | 0 | 237 | 2 | 1 | 0 | 3 | 461 |
| 05:00 PM | 3 | 78 | 0 | 81 | 64 | 2 | 0 | 66 | 1 | 1 | 0 | 2 | 149 |
| 05:15 PM | 2 | 79 | 0 | 81 | 62 | 0 | 0 | 62 | 0 | 3 | 0 | 3 | 146 |
| 05:30 PM | 3 | 78 | 0 | 81 | 55 | 1 | 0 | 56 | 0 | 0 | 0 | 0 | 137 |
| 05:45 PM | 1 | 56 | 0 | 57 | 49 | 0 | 0 | 49 | 1 | 2 | 0 | 3 | 109 |
| Total | 9 | 291 | 0 | 300 | 230 | 3 | 0 | 233 | 2 | 6 | 0 | 8 | 541 |
| 06:00 PM | 1 | 52 | 0 | 53 | 55 | 1 | 0 | 56 | 0 | 0 | 0 | 0 | 109 |
| 06:15 PM | 1 | 54 | 0 | 55 | 40 | 0 | 0 | 40 | 0 | 0 | 0 | 0 | 95 |
| 06:30 PM | 0 | 47 | 0 | 47 | 36 | 0 | 0 | 36 | 0 | 1 | 0 | 1 | 84 |
| 06:45 PM | 2 | 51 | 0 | 53 | 35 | 0 | 0 | 35 | 0 | 2 | 0 | 2 | 90 |
| Total | 4 | 204 | 0 | 208 | 166 | 1 | 0 | 167 | 0 | 3 | 0 | 3 | 378 |


| Grand Total | 36 | 2920 | 0 | 2956 | 2200 | 20 | 0 | 2220 | 20 | 31 | 0 | 51 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Apprch \% | 1.2 | 98.8 | 0 |  | 99.1 | 0.9 | 0 |  | 39.2 | 60.8 | 0 |  |
| Total \% | 0.7 | 55.9 | 0 | 56.6 | 42.1 | 0.4 | 0 | 42.5 | 0.4 | 0.6 | 0 | 1 |

# Peggy Malone \& Associates <br> (888) 247-8602 

File Name: 2-NW 140th St and NW 128th Place
Site Code :
Start Date : 10/3/2018
Page No :2

|  | NW 140th St Southbound |  |  | NW 140th St Northbound |  |  | NW 128th PI Eastbound |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | App. Total | Thru | Left | App. Total | Right | Left | App. Total | Int. Total |
| Peak Hour Analysis From 07:00 AM to 11:45 AM - Peak 1 of 1 |  |  |  |  |  |  |  |  |  |  |
| Peak Hour for Entire Intersection | as 08:00 |  |  |  |  |  |  |  |  |  |
| 08:00 AM | 0 | 105 | 105 | 78 | 1 | 79 | 1 | 4 | 5 | 189 |
| 08:15 AM | 1 | 111 | 112 | 69 | 1 | 70 | 0 | 1 | 1 | 183 |
| 08:30 AM | 0 | 121 | 121 | 58 | 0 | 58 | 1 | 0 | 1 | 180 |
| 08:45 AM | 0 | 135 | 135 | 49 | 0 | 49 | 0 | 1 | 1 | 185 |
| Total Volume | 1 | 472 | 473 | 254 | 2 | 256 | 2 | 6 | 8 | 737 |
| \% App. Total | 0.2 | 99.8 |  | 99.2 | 0.8 |  | 25 | 75 |  |  |
| PHF | . 250 | . 874 | . 876 | . 814 | . 500 | . 810 | . 500 | . 375 | . 400 | . 975 |


| Peak Hour Analysis From 12:00 PM to 06:45 PM - Peak 1 of 1 Peak Hour for Entire Intersection Begins at 04:45 PM |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 04:45 PM | 0 | 57 | 57 | 69 | 0 | 69 | 1 | 1 | 2 | 128 |
| 05:00 PM | 3 | 78 | 81 | 64 | 2 | 66 | 1 | 1 | 2 | 149 |
| 05:15 PM | 2 | 79 | 81 | 62 | 0 | 62 | 0 | 3 | 3 | 146 |
| 05:30 PM | 3 | 78 | 81 | 55 | 1 | 56 | 0 | 0 | 0 | 137 |
| Total Volume | 8 | 292 | 300 | 250 | 3 | 253 | 2 | 5 | 7 | 560 |
| \% App. Total | 2.7 | 97.3 |  | 98.8 | 1.2 |  | 28.6 | 71.4 |  |  |
| PHF | . 667 | . 924 | . 926 | . 906 | . 375 | . 917 | . 500 | . 417 | . 583 | . 940 |

## File Name : 2-NW 140th St and NW 128th Place Site Code : <br> Start Date : 10/3/2018 <br> Page No : 1

|  | NW 140th St Southbound |  |  |  | NW 140th St <br> Northbound |  |  |  | NW 128th PI Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Peds | App. Total | Thru | Left | Peds | App. Total | Right | Left | Peds | App. Total | Int. Total |
| 07:00 AM | 0 | 5 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 07:15 AM | 0 | 6 | 0 | 6 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 7 |
| 07:30 AM | 0 | 8 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 07:45 AM | 0 | 6 | 0 | 6 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 12 |
| Total | 0 | 25 | 0 | 25 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 32 |
| 08:00 AM | 0 | 5 | 0 | 5 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 7 |
| 08:15 AM | 0 | 8 | 0 | 8 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 10 |
| 08:30 AM | 0 | 18 | 0 | 18 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 19 |
| 08:45 AM | 0 | 10 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| Total | 0 | 41 | 0 | 41 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 46 |
| 09:00 AM | 0 | 3 | 0 | 3 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 4 |
| 09:15 AM | 0 | 9 | 0 | 9 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 13 |
| 09:30 AM | 0 | 8 | 0 | 8 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 9 |
| 09:45 AM | 0 | 5 | 0 | 5 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 8 |
| Total | 0 | 25 | 0 | 25 | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 34 |
| 10:00 AM | 0 | 10 | 0 | 10 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 12 |
| 10:15 AM | 0 | 3 | 0 | 3 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 5 |
| 10:30 AM | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 |
| 10:45 AM | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 3 |
| Total | 0 | 14 | 0 | 14 | 6 | 1 | 0 | 7 | 0 | 1 | 0 | 1 | 22 |
| 11:00 AM | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 |
| 11:15 AM | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| 11:30 AM | 0 | 1 | 0 | 1 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 4 |
| 11:45 AM | 0 | 4 | 0 | 4 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 5 |
| Total | 0 | 6 | 0 | 6 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 13 |
| 12:00 PM | 0 | 1 | 0 | 1 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 4 |
| 12:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:30 PM | 0 | 1 | 0 | 1 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 4 |
| 12:45 PM | 0 | 7 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| Total | 0 | 9 | 0 | 9 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 15 |
| 01:00 PM | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 |
| 01:15 PM | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| 01:30 PM | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 3 |
| 01:45 PM | 0 | 2 | 0 | 2 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 4 |
| Total | 0 | 4 | 0 | 4 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 11 |
| 02:00 PM | 1 | 1 | 0 | 2 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 5 |
| 02:15 PM | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 2 | 1 | 0 | 0 | 1 | 4 |
| 02:30 PM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 02:45 PM | 0 | 2 | 0 | 2 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 4 |
| Total | 1 | 5 | 0 | 6 | 7 | 0 | 0 | 7 | 1 | 0 | 0 | 1 | 14 |
| 03:00 PM | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| 03:15 PM | 0 | 2 | 0 | 2 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 4 |
| 03:30 PM | 0 | 2 | 0 | 2 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 4 |
| 03:45 PM | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 3 |
| Total | 0 | 6 | 0 | 6 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 13 |
| 04:00 PM | 0 | 3 | 0 | 3 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 5 |
| 04:15 PM | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 04:30 PM | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| 04:45 PM | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| Total | 0 | 5 | 0 | 5 | 4 | 0 | 0 | 4 | 1 | 0 | 0 | 1 | 10 |
| 05:00 PM | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 3 |
| 05:15 PM | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| 05:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 1 | 0 | 1 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 5 |
| 06:00 PM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 06:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 06:30 PM | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 3 |
| 06:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 2 | 0 | 2 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 4 |
| Grand Total | 1 | 143 | 0 | 144 | 71 | 1 | 0 | 72 | 2 | 1 | 0 | 3 | 219 |
| Apprch \% | 0.7 | 99.3 | 0 |  | 98.6 | 1.4 | 0 |  | 66.7 | 33.3 | 0 |  |  |
| Total \% | 0.5 | 65.3 | 0 | 65.8 | 32.4 | 0.5 | 0 | 32.9 | 0.9 | 0.5 | 0 | 1.4 |  |

# Peggy Malone \& Associates <br> (888) 247-8602 

File Name: 2-NW 140th St and NW 128th Place
Site Code :
Start Date : 10/3/2018
Page No :2

|  | NW 140th St Southbound |  |  | NW 140th St Northbound |  |  | NW 128th PI Eastbound |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | App. Total | Thru | Left | App. Total | Right | Left | App. Total | Int. Total |
| Peak Hour Analysis From 07:00 AM to 11:45 AM - Peak 1 of 1 |  |  |  |  |  |  |  |  |  |  |
| Peak Hour for Entire Intersection | at 07:45 |  |  |  |  |  |  |  |  |  |
| 07:45 AM | 0 | 6 | 6 | 6 | 0 | 6 | 0 | 0 | 0 | 12 |
| 08:00 AM | 0 | 5 | 5 | 2 | 0 | 2 | 0 | 0 | 0 | 7 |
| 08:15 AM | 0 | 8 | 8 | 2 | 0 | 2 | 0 | 0 | 0 | 10 |
| 08:30 AM | 0 | 18 | 18 | 1 | 0 | 1 | 0 | 0 | 0 | 19 |
| Total Volume | 0 | 37 | 37 | 11 | 0 | 11 | 0 | 0 | 0 | 48 |
| \% App. Total | 0 | 100 |  | 100 | 0 |  | 0 | 0 |  |  |
| PHF | . 000 | . 514 | . 514 | . 458 | . 000 | . 458 | . 000 | . 000 | . 000 | 632 |

Peak Hour Analysis From 12:00 PM to 06:45 PM - Peak 1 of 1

| Hour for Entire Interse |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 01:30 PM | 0 | 1 | 1 | 2 | 0 | 2 | 0 | 0 | 0 | 3 |
| 01:45 PM | 0 | 2 | 2 | 2 | 0 | 2 | 0 | 0 | 0 | 4 |
| 02:00 PM | 1 | 1 | 2 | 3 | 0 | 3 | 0 | 0 | 0 | 5 |
| 02:15 PM | 0 | 1 | 1 | 2 | 0 | 2 | 1 | 0 | 1 | 4 |
| Total Volume | 1 | 5 | 6 | 9 | 0 | 9 | 1 | 0 | 1 | 16 |
| \% App. Total | 16.7 | 83.3 |  | 100 | 0 |  | 100 | 0 |  |  |
| PHF | . 250 | . 625 | . 750 | . 750 | . 000 | . 750 | . 250 | . 000 | . 250 | . 800 |

# File Name : 2-NW 140th St and NW 128th Place Site Code : <br> Start Date : 10/3/2018 <br> Page No : 1 

Groups Printed- Combined

|  | NW 140th St Southbound |  |  |  | NW 140th St Northbound |  |  |  | NW 128th PI Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Peds | App. Total | Thru | Left | Peds | App. Total | Right | Left | Peds | App. Total | Int. Total |
| 07:00 AM | 0 | 99 | 0 | 99 | 50 | 0 | 0 | 50 | 2 | 2 | 0 | 4 | 153 |
| 07:15 AM | 0 | 102 | 0 | 102 | 67 | 0 | 0 | 67 | 0 | 0 | 0 | 0 | 169 |
| 07:30 AM | 0 | 112 | 0 | 112 | 72 | 0 | 0 | 72 | 2 | 1 | 0 | 3 | 187 |
| 07:45 AM | 1 | 121 | 0 | 122 | 68 | 0 | 0 | 68 | 0 | 4 | 0 | 4 | 194 |
| Total | 1 | 434 | 0 | 435 | 257 | 0 | 0 | 257 | 4 | 7 | 0 | 11 | 703 |
| 08:00 AM | 0 | 110 | 0 | 110 | 80 | 1 | 0 | 81 | 1 | 4 | 0 | 5 | 196 |
| 08:15 AM | 1 | 119 | 0 | 120 | 71 | 1 | 0 | 72 | 0 | 1 | 0 | 1 | 193 |
| 08:30 AM | 0 | 139 | 0 | 139 | 59 | 0 | 0 | 59 | 1 | 0 | 0 | 1 | 199 |
| 08:45 AM | 0 | 145 | 0 | 145 | 49 | 0 | 0 | 49 | 0 | 1 | 0 | 1 | 195 |
| Total | 1 | 513 | 0 | 514 | 259 | 2 | 0 | 261 | 2 | 6 | 0 | 8 | 783 |
| 09:00 AM | 0 | 99 | 0 | 99 | 37 | 0 | 0 | 37 | 0 | 0 | 0 | 0 | 136 |
| 09:15 AM | 1 | 128 | 0 | 129 | 37 | 0 | 0 | 37 | 3 | 0 | 0 | 3 | 169 |
| 09:30 AM | 0 | 94 | 0 | 94 | 34 | 0 | 0 | 34 | 1 | 1 | 0 | 2 | 130 |
| 09:45 AM | 0 | 69 | 0 | 69 | 49 | 0 | 0 | 49 | 2 | 0 | 0 | 2 | 120 |
| Total | 1 | 390 | 0 | 391 | 157 | 0 | 0 | 157 | 6 | 1 | 0 | 7 | 555 |
| 10:00 AM | 0 | 75 | 0 | 75 | 42 | 0 | 0 | 42 | 0 | 0 | 0 | 0 | 117 |
| 10:15 AM | 0 | 45 | 0 | 45 | 29 | 1 | 0 | 30 | 0 | 1 | 0 | 1 | 76 |
| 10:30 AM | 0 | 45 | 0 | 45 | 40 | 1 | 0 | 41 | 2 | 0 | 0 | 2 | 88 |
| 10:45 AM | 0 | 41 | 0 | 41 | 40 | 0 | 0 | 40 | 0 | 0 | 0 | 0 | 81 |
| Total | 0 | 206 | 0 | 206 | 151 | 2 | 0 | 153 | 2 | 1 | 0 | 3 | 362 |
| 11:00 AM | 1 | 32 | 0 | 33 | 29 | 0 | 0 | 29 | 0 | 0 | 0 | 0 | 62 |
| 11:15 AM | 0 | 40 | 0 | 40 | 38 | 0 | 0 | 38 | 0 | 1 | 0 | 1 | 79 |
| 11:30 AM | 0 | 31 | 0 | 31 | 44 | 0 | 0 | 44 | 0 | 0 | 0 | 0 | 75 |
| 11:45 AM | 0 | 49 | 0 | 49 | 38 | 0 | 0 | 38 | 0 | 0 | 0 | 0 | 87 |
| Total | 1 | 152 | 0 | 153 | 149 | 0 | 0 | 149 | 0 | 1 | 0 | 1 | 303 |
| 12:00 PM | 0 | 31 | 0 | 31 | 54 | 0 | 0 | 54 | 0 | 1 | 0 | 1 | 86 |
| 12:15 PM | 1 | 37 | 0 | 38 | 35 | 1 | 0 | 36 | 0 | 1 | 0 | 1 | 75 |
| 12:30 PM | 1 | 48 | 0 | 49 | 49 | 0 | 0 | 49 | 0 | 1 | 0 | 1 | 99 |
| 12:45 PM | 0 | 53 | 0 | 53 | 27 | 0 | 0 | 27 | 0 | 0 | 0 | 0 | 80 |
| Total | 2 | 169 | 0 | 171 | 165 | 1 | 0 | 166 | 0 | 3 | 0 | 3 | 340 |
| 01:00 PM | 1 | 39 | 0 | 40 | 40 | 1 | 0 | 41 | 0 | 0 | 0 | 0 | 81 |
| 01:15 PM | 1 | 33 | 0 | 34 | 45 | 0 | 0 | 45 | 0 | 0 | 0 | 0 | 79 |
| 01:30 PM | 0 | 29 | 0 | 29 | 50 | 0 | 0 | 50 | 0 | 0 | 0 | 0 | 79 |
| 01:45 PM | 1 | 32 | 0 | 33 | 38 | 1 | 0 | 39 | 0 | 0 | 0 | 0 | 72 |
| Total | 3 | 133 | 0 | 136 | 173 | 2 | 0 | 175 | 0 | 0 | 0 | 0 | 311 |
| 02:00 PM | 1 | 44 | 0 | 45 | 28 | 0 | 0 | 28 | 0 | 1 | 0 | 1 | 74 |
| 02:15 PM | 0 | 42 | 0 | 42 | 32 | 0 | 0 | 32 | 1 | 0 | 0 | 1 | 75 |
| 02:30 PM | 1 | 29 | 0 | 30 | 30 | 0 | 0 | 30 | 0 | 0 | 0 | 0 | 60 |
| 02:45 PM | 0 | 46 | 0 | 46 | 40 | 1 | 0 | 41 | 0 | 0 | 0 | 0 | 87 |
| Total | 2 | 161 | 0 | 163 | 130 | 1 | 0 | 131 | 1 | 1 | 0 | 2 | 296 |
| 03:00 PM | 0 | 42 | 0 | 42 | 49 | 1 | 0 | 50 | 1 | 0 | 0 | 1 | 93 |
| 03:15 PM | 2 | 31 | 0 | 33 | 42 | 0 | 0 | 42 | 1 | 1 | 0 | 2 | 77 |
| 03:30 PM | 2 | 66 | 0 | 68 | 44 | 0 | 0 | 44 | 0 | 1 | 0 | 1 | 113 |
| 03:45 PM | 1 | 50 | 0 | 51 | 60 | 0 | 0 | 60 | 0 | 0 | 0 | 0 | 111 |
| Total | 5 | 189 | 0 | 194 | 195 | 1 | 0 | 196 | 2 | 2 | 0 | 4 | 394 |
| 04:00 PM | 1 | 53 | 0 | 54 | 50 | 3 | 0 | 53 | 1 | 0 | 0 | 1 | 108 |
| 04:15 PM | 5 | 59 | 0 | 64 | 46 | 2 | 0 | 48 | 1 | 0 | 0 | 1 | 113 |
| 04:30 PM | 2 | 48 | 0 | 50 | 67 | 3 | 0 | 70 | 0 | 0 | 0 | 0 | 120 |
| 04:45 PM | 0 | 58 | 0 | 58 | 70 | 0 | 0 | 70 | 1 | 1 | 0 | 2 | 130 |
| Total | 8 | 218 | 0 | 226 | 233 | 8 | 0 | 241 | 3 | 1 | 0 | 4 | 471 |
| 05:00 PM | 3 | 78 | 0 | 81 | 67 | 2 | 0 | 69 | 1 | 1 | 0 | 2 | 152 |
| 05:15 PM | 2 | 80 | 0 | 82 | 63 | 0 | 0 | 63 | 0 | 3 | 0 | 3 | 148 |
| 05:30 PM | 3 | 78 | 0 | 81 | 55 | 1 | 0 | 56 | 0 | 0 | 0 | 0 | 137 |
| 05:45 PM | 1 | 56 | 0 | 57 | 49 | 0 | 0 | 49 | 1 | 2 | 0 | 3 | 109 |
| Total | 9 | 292 | 0 | 301 | 234 | 3 | 0 | 237 | 2 | 6 | 0 | 8 | 546 |
| 06:00 PM | 1 | 53 | 0 | 54 | 55 | 1 | 0 | 56 | 0 | 0 | 0 | 0 | 110 |
| 06:15 PM | 1 | 54 | 0 | 55 | 40 | 0 | 0 | 40 | 0 | 0 | 0 | 0 | 95 |
| 06:30 PM | 0 | 48 | 0 | 48 | 38 | 0 | 0 | 38 | 0 | 1 | 0 | 1 | 87 |
| 06:45 PM | 2 | 51 | 0 | 53 | 35 | 0 | 0 | 35 | 0 | 2 | 0 | 2 | 90 |
| Total | 4 | 206 | 0 | 210 | 168 | 1 | 0 | 169 | 0 | 3 | 0 | 3 | 382 |
| Grand Total | 37 | 3063 | 0 | 3100 | 2271 | 21 | 0 | 2292 | 22 | 32 | 0 | 54 | 5446 |
| Apprch \% | 1.2 | 98.8 | 0 |  | 99.1 | 0.9 | 0 |  | 40.7 | 59.3 | 0 |  |  |
| Total \% | 0.7 | 56.2 | 0 | 56.9 | 41.7 | 0.4 | 0 | 42.1 | 0.4 | 0.6 | 0 | 1 |  |

# Peggy Malone \& Associates <br> (888) 247-8602 

File Name: 2-NW 140th St and NW 128th Place Site Code :
Start Date : 10/3/2018
Page No :2

|  | NW 140th St Southbound |  |  | NW 140th St Northbound |  |  | NW 128th PI Eastbound |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | App. Total | Thru | Left | App. Total | Right | Left | App. Total | Int. Total |
| Peak Hour Analysis From 07:00 AM to 11:45 AM - Peak 1 of 1 Peak Hour for Entire Intersection Begins at 08:00 AM |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| 08:00 AM | 0 | 110 | 110 | 80 | 1 | 81 | 1 | 4 | 5 | 196 |
| 08:15 AM | 1 | 119 | 120 | 71 | , | 72 | 0 | 1 | 1 | 193 |
| 08:30 AM | 0 | 139 | 139 | 59 | 0 | 59 | 1 | 0 | 1 | 199 |
| 08:45 AM | 0 | 145 | 145 | 49 | 0 | 49 | 0 | 1 | 1 | 195 |
| Total Volume | 1 | 513 | 514 | 259 | 2 | 261 | 2 | 6 | 8 | 783 |
| \% App. Total | 0.2 | 99.8 |  | 99.2 | 0.8 |  | 25 | 75 |  |  |
| PHF | . 250 | . 884 | . 886 | . 809 | . 500 | . 806 | . 500 | . 375 | . 400 | . 984 |


| Peak Hour for Entire Intersection Begins at 04:45 PM |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 04:45 PM | 0 | 58 | 58 | 70 | 0 | 70 | 1 | 1 | 2 | 130 |
| 05:00 PM | 3 | 78 | 81 | 67 | 2 | 69 | 1 | 1 | 2 | 152 |
| 05:15 PM | 2 | 80 | 82 | 63 | 0 | 63 | 0 | 3 | 3 | 148 |
| 05:30 PM | 3 | 78 | 81 | 55 | 1 | 56 | 0 | 0 | 0 | 137 |
| Total Volume | 8 | 294 | 302 | 255 | 3 | 258 | 2 | 5 | 7 | 567 |
| \% App. Total | 2.6 | 97.4 |  | 98.8 | 1.2 |  | 28.6 | 71.4 |  |  |
| PHF | . 667 | . 919 | . 921 | . 911 | . 375 | . 921 | . 500 | . 417 | . 583 | . 933 |

NW 140th Street and CR-235

# Peggy Malone \& Associates <br> (888) 247-8602 

File Name : 3-CR 235 and NW 140th St AM
Site Code :
Start Date : 10/3/2018
Page No :1

## Groups Printed- Car

|  | CR 235 <br> Southbound |  |  |  | NW 140th St Westbound |  |  |  | CR 235 Northbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Thru | Left | Peds | App. Total | Right | Left | Peds | App. Total | Right | Thru | Peds | App. Total | Int. Total |
| 06:45 AM | 35 | 112 | 0 | 147 | 37 | 3 | 0 | 40 | 2 | 57 | 0 | 59 | 246 |
| Total | 35 | 112 | 0 | 147 | 37 | 3 | 0 | 40 | 2 | 57 | 0 | 59 | 246 |
| 07:00 AM | 35 | 132 | 0 | 167 | 64 | 0 | 0 | 64 | 8 | 61 | 0 | 69 | 300 |
| 07:15 AM | 30 | 133 | 0 | 163 | 82 | 0 | 0 | 82 | 17 | 81 | 0 | 98 | 343 |
| 07:30 AM | 25 | 129 | 0 | 154 | 117 | 2 | 0 | 119 | 15 | 97 | 0 | 112 | 385 |
| 07:45 AM | 48 | 151 | 0 | 199 | 119 | 6 | 0 | 125 | 5 | 91 | 0 | 96 | 420 |
| Total | 138 | 545 | 0 | 683 | 382 | 8 | 0 | 390 | 45 | 330 | 0 | 375 | 1448 |
| 08:00 AM | 56 | 97 | 0 | 153 | 100 | 2 | 0 | 102 | 8 | 74 | 0 | 82 | 337 |
| 08:15 AM | 56 | 102 | 0 | 158 | 77 | 1 | 0 | 78 | 6 | 72 | 0 | 78 | 314 |
| 08:30 AM | 44 | 102 | 0 | 146 | 67 | 2 | 0 | 69 | 16 | 65 | 0 | 81 | 296 |
| Grand Total | 329 | 958 | 0 | 1287 | 663 | 16 | 0 | 679 | 77 | 598 | 0 | 675 | 2641 |
| Apprch \% | 25.6 | 74.4 | 0 |  | 97.6 | 2.4 | 0 |  | 11.4 | 88.6 | 0 |  |  |
| Total \% | 12.5 | 36.3 | 0 | 48.7 | 25.1 | 0.6 | 0 | 25.7 | 2.9 | 22.6 | 0 | 25.6 |  |


|  | CR 235 Southbound |  |  | NW 140th St Westbound |  |  | CR 235 <br> Northbound |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Thru | Left | App. Total | Right | Left | App. Total | Right | Thru | App. Total | Int. Total |
| Peak Hour Analysis From 06:45 AM to 08:30 AM - Peak 1 of 1 |  |  |  |  |  |  |  |  |  |  |
| Peak Hour for Entire Intersectio | 07:15 |  |  |  |  |  |  |  |  |  |
| 07:15 AM | 30 | 133 | 163 | 82 | 0 | 82 | 17 | 81 | 98 | 343 |
| 07:30 AM | 25 | 129 | 154 | 117 | 2 | 119 | 15 | 97 | 112 | 385 |
| 07:45 AM | 48 | 151 | 199 | 119 | 6 | 125 | 5 | 91 | 96 | 420 |
| 08:00 AM | 56 | 97 | 153 | 100 | 2 | 102 | 8 | 74 | 82 | 337 |
| Total Volume | 159 | 510 | 669 | 418 | 10 | 428 | 45 | 343 | 388 | 1485 |
| \% App. Total | 23.8 | 76.2 |  | 97.7 | 2.3 |  | 11.6 | 88.4 |  |  |
| PHF | . 710 | . 844 | . 840 | . 878 | . 417 | . 856 | . 662 | . 884 | . 866 | . 884 |

# Peggy Malone \& Associates <br> (888) 247-8602 

File Name : 3-CR 235 and NW 140th St AM
Site Code :
Start Date : 10/3/2018
Page No : 1
Groups Printed- Truck

|  | CR 235 Southbound |  |  |  | NW 140th St Westbound |  |  |  | CR 235 Northbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Thru | Left | Peds | App. Total | Right | Left | Peds | App. Total | Right | Thru | Peds | App. Total | Int. Total |
| 06:45 AM | 8 | 21 | 0 | 29 | 2 | 0 | 0 | 2 | 0 | 5 | 0 | 5 | 36 |
| Total | 8 | 21 | 0 | 29 | 2 | 0 | 0 | 2 | 0 | 5 | 0 | 5 | 36 |
| 07:00 AM | 7 | 5 | 0 | 12 | 1 | 0 | 0 | 1 | 0 | 5 | 0 | 5 | 18 |
| 07:15 AM | 14 | 10 | 0 | 24 | 7 | 0 | 0 | 7 | 0 | 13 | 0 | 13 | 44 |
| 07:30 AM | 9 | 12 | 0 | 21 | 3 | 0 | 0 | 3 | 2 | 10 | 0 | 12 | 36 |
| 07:45 AM | 32 | 4 | 0 | 36 | 8 | 0 | 0 | 8 | 1 | 10 | 0 | 11 | 55 |
| Total | 62 | 31 | 0 | 93 | 19 | 0 | 0 | 19 | 3 | 38 | 0 | 41 | 153 |
| 08:00 AM | 23 | 3 | 0 | 26 | 4 | 0 | 0 | 4 | 2 | 11 | 0 | 13 | 43 |
| 08:15 AM | 25 | 7 | 0 | 32 | 3 | 0 | 0 | 3 | 0 | 17 | 0 | 17 | 52 |
| 08:30 AM | 11 | 14 | 0 | 25 | 1 | 0 | 0 | 1 | 2 | 11 | 0 | 13 | 39 |
| Grand Total | 129 | 76 | 0 | 205 | 29 | 0 | 0 | 29 | 7 | 82 | 0 | 89 | 323 |
| Apprch \% | 62.9 | 37.1 | 0 |  | 100 | 0 | 0 |  | 7.9 | 92.1 | 0 |  |  |
| Total \% | 39.9 | 23.5 | 0 | 63.5 | 9 | 0 | 0 | 9 | 2.2 | 25.4 | 0 | 27.6 |  |


|  | CR 235 Southbound |  |  | NW 140th St Westbound |  |  | CR 235 <br> Northbound |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Thru | Left | App. Total | Right | Left | App. Total | Right | Thru | App. Total | Int. Total |
| Peak Hour Analysis From 06:45 AM to 08:30 AM - Peak 1 of 1 |  |  |  |  |  |  |  |  |  |  |
| Peak Hour for Entire Intersectio | tt 07:4. |  |  |  |  |  |  |  |  |  |
| 07:45 AM | 32 | 4 | 36 | 8 | 0 | 8 | 1 | 10 | 11 | 55 |
| 08:00 AM | 23 | 3 | 26 | 4 | 0 | 4 | 2 | 11 | 13 | 43 |
| 08:15 AM | 25 | 7 | 32 | 3 | 0 | 3 | 0 | 17 | 17 | 52 |
| 08:30 AM | 11 | 14 | 25 | 1 | 0 | 1 | 2 | 11 | 13 | 39 |
| Total Volume | 91 | 28 | 119 | 16 | 0 | 16 | 5 | 49 | 54 | 189 |
| \% App. Total | 76.5 | 23.5 |  | 100 | 0 |  | 9.3 | 90.7 |  |  |
| PHF | . 711 | . 500 | . 826 | . 500 | . 000 | . 500 | . 625 | . 721 | . 794 | . 859 |

# Peggy Malone \& Associates <br> (888) 247-8602 

File Name : 3-CR 235 and NW 140th St AM
Site Code :
Start Date : 10/3/2018
Page No : 1
Groups Printed- Combined

|  | $\text { CR } 235$ <br> Southbound |  |  |  | NW 140th St Westbound |  |  |  | CR 235 <br> Northbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Thru | Left | Peds | App. Total | Right | Left | Peds | App. Total | Right | Thru | Peds | App. Total | Int. Total |
| 06:45 AM | 43 | 133 | 0 | 176 | 39 | 3 | 0 | 42 | 2 | 62 | 0 | 64 | 282 |
| Total | 43 | 133 | 0 | 176 | 39 | 3 | 0 | 42 | 2 | 62 | 0 | 64 | 282 |
| 07:00 AM | 42 | 137 | 0 | 179 | 65 | 0 | 0 | 65 | 8 | 66 | 0 | 74 | 318 |
| 07:15 AM | 44 | 143 | 0 | 187 | 89 | 0 | 0 | 89 | 17 | 94 | 0 | 111 | 387 |
| 07:30 AM | 34 | 141 | 0 | 175 | 120 | 2 | 0 | 122 | 17 | 107 | 0 | 124 | 421 |
| 07:45 AM | 80 | 155 | 0 | 235 | 127 | 6 | 0 | 133 | 6 | 101 | 0 | 107 | 475 |
| Total | 200 | 576 | 0 | 776 | 401 | 8 | 0 | 409 | 48 | 368 | 0 | 416 | 1601 |
| 08:00 AM | 79 | 100 | 0 | 179 | 104 | 2 | 0 | 106 | 10 | 85 | 0 | 95 | 380 |
| 08:15 AM | 81 | 109 | 0 | 190 | 80 | 1 | 0 | 81 | 6 | 89 | 0 | 95 | 366 |
| 08:30 AM | 55 | 116 | 0 | 171 | 68 | 2 | 0 | 70 | 18 | 76 | 0 | 94 | 335 |
| Grand Total | 458 | 1034 | 0 | 1492 | 692 | 16 | 0 | 708 | 84 | 680 | 0 | 764 | 2964 |
| Apprch \% | 30.7 | 69.3 | 0 |  | 97.7 | 2.3 | 0 |  | 11 | 89 | 0 |  |  |
| Total \% | 15.5 | 34.9 | 0 | 50.3 | 23.3 | 0.5 | 0 | 23.9 | 2.8 | 22.9 | 0 | 25.8 |  |


|  | CR 235 Southbound |  |  | NW 140th St Westbound |  |  | CR 235 Northbound |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Thru | Left | App. Total | Right | Left | App. Total | Right | Thru | App. Total | Int. Total |
| Peak Hour Analysis From 06:45 AM to 08:30 AM - Peak 1 of 1 |  |  |  |  |  |  |  |  |  |  |
| Peak Hour for Entire Intersection Begins at 07:15 AM |  |  |  |  |  |  |  |  |  |  |
| 07:15 AM | 44 | 143 | 187 | 89 | 0 | 89 | 17 | 94 | 111 | 387 |
| 07:30 AM | 34 | 141 | 175 | 120 | 2 | 122 | 17 | 107 | 124 | 421 |
| 07:45 AM | 80 | 155 | 235 | 127 | 6 | 133 | 6 | 101 | 107 | 475 |
| 08.00 AM | 79 | 100 | 179 | 104 | 2 | 106 | 10 | 85 | 95 | 380 |
| Total Volume | 237 | 539 | 776 | 440 | 10 | 450 | 50 | 387 | 437 | 1663 |
| \% App. Total | 30.5 | 69.5 |  | 97.8 | 2.2 |  | 11.4 | 88.6 |  |  |
| PHF | . 741 | . 869 | . 826 | . 866 | . 417 | . 846 | . 735 | . 904 | . 881 | . 875 |

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File Name : 3-CR 235 and NW 140th St PM
Site Code :
Start Date : 10/3/2018
Page No : 1
Groups Printed- Car

|  | $\text { CR } 235$ <br> Southbound |  |  |  | NW 140th St Westbound |  |  |  | CR 235 Northbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Thru | Left | Peds | App. Total | Right | Left | Peds | App. Total | Right | Thru | Peds | App. Total | Int. Total |
| 04:30 PM | 65 | 63 | 0 | 128 | 66 | 3 | 0 | 69 | 7 | 46 | 0 | 53 | 250 |
| 04:45 PM | 64 | 72 | 0 | 136 | 75 | 4 | 4 | 83 | 1 | 51 | 0 | 52 | 271 |
| Total | 129 | 135 | 0 | 264 | 141 | 7 | 4 | 152 | 8 | 97 | 0 | 105 | 521 |
| 05:00 PM | 98 | 95 | 0 | 193 | 78 | 2 | 4 | 84 | 8 | 75 | 0 | 83 | 360 |
| 05:15 PM | 81 | 108 | 0 | 189 | 82 | 3 | 3 | 88 | 3 | 58 | 0 | 61 | 338 |
| 05:30 PM | 97 | 80 | 0 | 177 | 72 | 2 | 1 | 75 | 2 | 47 | 0 | 49 | 301 |
| 05:45 PM | 89 | 59 | 0 | 148 | 52 | 2 | 1 | 55 | 4 | 36 | 3 | 43 | 246 |
| Total | 365 | 342 | 0 | 707 | 284 | 9 | 9 | 302 | 17 | 216 | 3 | 236 | 1245 |
| 06:00 PM | 69 | 56 | 0 | 125 | 47 | 1 | 0 | 48 | 3 | 39 | 0 | 42 | 215 |
| 06:15 PM | 46 | 59 | 0 | 105 | 50 | 3 | 0 | 53 | 1 | 31 | 1 | 33 | 191 |
| Grand Total | 609 | 592 | 0 | 1201 | 522 | 20 | 13 | 555 | 29 | 383 | 4 | 416 | 2172 |
| Apprch \% | 50.7 | 49.3 | 0 |  | 94.1 | 3.6 | 2.3 |  | 7 | 92.1 | 1 |  |  |
| Total \% | 28 | 27.3 | 0 | 55.3 | 24 | 0.9 | 0.6 | 25.6 | 1.3 | 17.6 | 0.2 | 19.2 |  |


|  | CR 235 Southbound |  |  | NW 140th St Westbound |  |  | CR 235 <br> Northbound |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Thru | Left | App. Total | Right | Left | App. Total | Right | Thru | App. Total | Int. Total |
| Peak Hour Analysis From 04:30 PM to 06:15 PM - Peak 1 of 1 |  |  |  |  |  |  |  |  |  |  |
| Peak Hour for Entire Intersectio | $\mathrm{t} 04: 45$ |  |  |  |  |  |  |  |  |  |
| 04:45 PM | 64 | 72 | 136 | 75 | 4 | 79 | 1 | 51 | 52 | 267 |
| 05:00 PM | 98 | 95 | 193 | 78 | 2 | 80 | 8 | 75 | 83 | 356 |
| 05:15 PM | 81 | 108 | 189 | 82 | 3 | 85 | 3 | 58 | 61 | 335 |
| 05:30 PM | 97 | 80 | 177 | 72 | 2 | 74 | 2 | 47 | 49 | 300 |
| Total Volume | 340 | 355 | 695 | 307 | 11 | 318 | 14 | 231 | 245 | 1258 |
| \% App. Total | 48.9 | 51.1 |  | 96.5 | 3.5 |  | 5.7 | 94.3 |  |  |
| PHF | . 867 | . 822 | . 900 | . 936 | . 688 | . 935 | . 438 | . 770 | . 738 | . 883 |

# Peggy Malone \& Associates <br> (888) 247-8602 

File Name : 3-CR 235 and NW 140th St PM
Site Code :
Start Date : 10/3/2018
Page No :1

|  | CR 235 Southbound |  |  |  | NW 140th St Westbound |  |  |  | CR 235 Northbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Thru | Left | Peds | App. Total | Right | Left | Peds | App. Total | Right | Thru | Peds | App. Total | Int. Total |
| 04:30 PM | 6 | 0 | 0 | 6 | 1 | 0 | 0 | 1 | 0 | 3 | 0 | 3 | 10 |
| 04:45 PM | 1 | 1 | 0 | 2 | 1 | 0 | 0 | 1 | 0 | 4 | 0 | 4 | 7 |
| Total | 7 | 1 | 0 | 8 | 2 | 0 | 0 | 2 | 0 | 7 | 0 | 7 | 17 |
| 05:00 PM | 4 | 0 | 0 | 4 | 2 | 0 | 0 | 2 | 0 | 5 | 0 | 5 | 11 |
| 05:15 PM | 6 | 4 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 7 | 17 |
| 05:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 8 | 8 |
| 05:45 PM | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 7 |
| Total | 15 | 4 | 0 | 19 | 2 | 0 | 0 | 2 | 0 | 22 | 0 | 22 | 43 |
| 06:00 PM | 5 | 1 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 4 | 10 |
| 06:15 PM | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 5 |
| Grand Total | 30 | 6 | 0 | 36 | 4 | 0 | 0 | 4 | 0 | 35 | 0 | 35 | 75 |
| Apprch \% | 83.3 | 16.7 | 0 |  | 100 | 0 | 0 |  | 0 | 100 | 0 |  |  |
| Total \% | 40 | 8 | 0 | 48 | 5.3 | 0 | 0 | 5.3 | 0 | 46.7 | 0 | 46.7 |  |


|  | CR 235 Southbound |  |  | NW 140th St Westbound |  |  | CR 235 <br> Northbound |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Thru | Left | App. Total | Right | Left | App. Total | Right | Thru | App. Total | Int. Total |
| Peak Hour Analysis From 04:30 PM to 06:15 PM - Peak 1 of 1 |  |  |  |  |  |  |  |  |  |  |
| Peak Hour for Entire Intersection Begins at 04:30 PM |  |  |  |  |  |  |  |  |  |  |
| 04:30 PM | 6 | 0 | 6 | 1 | 0 | 1 | 0 | 3 | 3 | 10 |
| 04:45 PM | 1 | 1 | 2 | 1 | 0 | 1 | 0 | 4 | 4 | 7 |
| 05:00 PM | 4 | 0 | 4 | 2 | 0 | 2 | 0 | 5 | 5 | 11 |
| 05:15 PM | 6 | 4 | 10 | 0 | 0 | 0 | 0 | 7 | 7 | 17 |
| Total Volume | 17 | 5 | 22 | 4 | 0 | 4 | 0 | 19 | 19 | 45 |
| \% App. Total | 77.3 | 22.7 |  | 100 | 0 |  | 0 | 100 |  |  |
| PHF | . 708 | . 313 | . 550 | . 500 | . 000 | . 500 | . 000 | . 679 | . 679 | . 662 |

# Peggy Malone \& Associates <br> (888) 247-8602 

File Name : 3-CR 235 and NW 140th St PM
Site Code :
Start Date : 10/3/2018
Page No : 1
Groups Printed- Combined

|  | CR 235 Southbound |  |  |  | NW 140th St Westbound |  |  |  | CR 235 Northbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Thru | Left | Peds | App. Total | Right | Left | Peds | App. Total | Right | Thru | Peds | App. Total | Int. Total |
| 04:30 PM | 71 | 63 | 0 | 134 | 67 | 3 | 0 | 70 | 7 | 49 | 0 | 56 | 260 |
| 04:45 PM | 65 | 73 | 0 | 138 | 76 | 4 | 4 | 84 | 1 | 55 | 0 | 56 | 278 |
| Total | 136 | 136 | 0 | 272 | 143 | 7 | 4 | 154 | 8 | 104 | 0 | 112 | 538 |
| 05:00 PM | 102 | 95 | 0 | 197 | 80 | 2 | 4 | 86 | 8 | 80 | 0 | 88 | 371 |
| 05:15 PM | 87 | 112 | 0 | 199 | 82 | 3 | 3 | 88 | 3 | 65 | 0 | 68 | 355 |
| 05:30 PM | 97 | 80 | 0 | 177 | 72 | 2 | 1 | 75 | 2 | 55 | 0 | 57 | 309 |
| 05:45 PM | 94 | 59 | 0 | 153 | 52 | 2 | 1 | 55 | 4 | 38 | 3 | 45 | 253 |
| Total | 380 | 346 | 0 | 726 | 286 | 9 | 9 | 304 | 17 | 238 | 3 | 258 | 1288 |
| 06:00 PM | 74 | 57 | 0 | 131 | 47 | 1 | 0 | 48 | 3 | 43 | 0 | 46 | 225 |
| 06:15 PM | 49 | 59 | 0 | 108 | 50 | 3 | 0 | 53 | 1 | 33 | 1 | 35 | 196 |
| Grand Total | 639 | 598 | 0 | 1237 | 526 | 20 | 13 | 559 | 29 | 418 | 4 | 451 | 2247 |
| Apprch \% | 51.7 | 48.3 | 0 |  | 94.1 | 3.6 | 2.3 |  | 6.4 | 92.7 | 0.9 |  |  |
| Total \% | 28.4 | 26.6 | 0 | 55.1 | 23.4 | 0.9 | 0.6 | 24.9 | 1.3 | 18.6 | 0.2 | 20.1 |  |


|  | CR 235 <br> Southbound |  |  | NW 140th St Westbound |  |  | CR 235 Northbound |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Thru | Left | App. Total | Right | Left | App. Total | Right | Thru | App. Total | Int. Total |
| Peak Hour Analysis From 04:30 PM to 06:15 PM - Peak 1 of 1 |  |  |  |  |  |  |  |  |  |  |
| Peak Hour for Entire Intersection Begins at 04:45 PM |  |  |  |  |  |  |  |  |  |  |
| 04:45 PM | 65 | 73 | 138 | 76 | 4 | 80 | 1 | 55 | 56 | 274 |
| 05:00 PM | 102 | 95 | 197 | 80 | 2 | 82 | 8 | 80 | 88 | 367 |
| 05:15 PM | 87 | 112 | 199 | 82 | 3 | 85 | 3 | 65 | 68 | 352 |
| 05:30 PM | 97 | 80 | 177 | 72 | 2 | 74 | 2 | 55 | 57 | 308 |
| Total Volume | 351 | 360 | 711 | 310 | 11 | 321 | 14 | 255 | 269 | 1301 |
| \% App. Total | 49.4 | 50.6 |  | 96.6 | 3.4 |  | 5.2 | 94.8 |  |  |
| PHF | . 860 | . 804 | . 893 | . 945 | . 688 | . 944 | 438 | . 797 | . 764 | . 886 |

## US 441 at NW 140th Street

# Peggy Malone \& Associates <br> (888) 247-8602 

File Name : 5-NW 140th St and US 441 AM
Site Code :
Start Date : 10/3/2018
Page No : 1
Groups Printed- Car

|  | NW 140th St Southbound |  |  |  |  | NW US 441 Westbound |  |  |  |  | NW 140th St Northbound |  |  |  |  | NW US 441 Eastbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| 06:45 AM | 1 | 27 | 29 | 0 | 57 | 3 | 62 | 5 | 0 | 70 | 15 | 17 | 10 | 1 | 43 | 36 | 279 | 6 | 0 | 321 | 491 |
| Total | 1 | 27 | 29 | 0 | 57 | 3 | 62 | 5 | 0 | 70 | 15 | 17 | 10 | 1 | 43 | 36 | 279 | 6 | 0 | 321 | 491 |


| 07:00 AM | 3 | 30 | 30 | 0 | 63 | 12 | 67 | 37 | 0 | 116 | 19 | 19 | 20 | 0 | 58 | 34 | 226 | 12 | 0 | 272 | 509 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 07:15 AM | 0 | 34 | 40 | 0 | 74 | 14 | 90 | 35 | 0 | 139 | 15 | 17 | 11 | 0 | 43 | 22 | 220 | 12 | 0 | 254 | 510 |
| 07:30 AM | 1 | 25 | 15 | 0 | 41 | 13 | 102 | 14 | 0 | 129 | 12 | 31 | 12 | 0 | 55 | 15 | 173 | 10 | 0 | 198 | 423 |
| 07:45 AM | 7 | 26 | 37 | 1 | 71 | 2 | 98 | 27 | 0 | 127 | 17 | 16 | 15 | 0 | 48 | 14 | 225 | 10 | 0 | 249 | 495 |
| Total | 11 | 115 | 122 | 1 | 249 | 41 | 357 | 113 | 0 | 511 | 63 | 83 | 58 | 0 | 204 | 85 | 844 | 44 | 0 | 973 | 1937 |
| 08:00 AM | 2 | 27 | 16 | 0 | 45 | 7 | 97 | 25 | 0 | 129 | 13 | 11 | 15 | 0 | 39 | 25 | 272 | 8 | 0 | 305 | 518 |
| 08:15 AM | 3 | 25 | 21 | 1 | 50 | 5 | 87 | 19 | 0 | 111 | 25 | 15 | 6 | 1 | 47 | 30 | 245 | 13 | 0 | 288 | 496 |
| 08:30 AM | 5 | 22 | 18 | 1 | 46 | 8 | 85 | 22 | 0 | 115 | 17 | 19 | 12 | 0 | 48 | 27 | 229 | 5 | 0 | 261 | 470 |
| Grand Total | 22 | 216 | 206 | 3 | 447 | 64 | 688 | 184 | 0 | 936 | 133 | 145 | 101 | 2 | 381 | 203 | 1869 | 76 | 0 | 2148 | 3912 |
| Apprch \% | 4.9 | 48.3 | 46.1 | 0.7 |  | 6.8 | 73.5 | 19.7 | 0 |  | 34.9 | 38.1 | 26.5 | 0.5 |  | 9.5 | 87 | 3.5 | 0 |  |  |
| Total \% | 0.6 | 5.5 | 5.3 | 0.1 | 11.4 | 1.6 | 17.6 | 4.7 | 0 | 23.9 | 3.4 | 3.7 | 2.6 | 0.1 | 9.7 | 5.2 | 47.8 | 1.9 | 0 | 54.9 |  |


|  | NW 140th St Southbound |  |  |  | NW US 441 <br> Westbound |  |  |  | NW 140th St Northbound |  |  |  | NW US 441 Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Int. Total |
| Peak Hour Analysis From 06:45 AM to 08:30 AM - Peak 1 of 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Peak Hour for Entire Intersection Begins at 07:45 AM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 07:45 AM | 7 | 26 | 37 | 70 | 2 | 98 | 27 | 127 | 17 | 16 | 15 | 48 | 14 | 225 | 10 | 249 | 494 |
| 08:00 AM | 2 | 27 | 16 | 45 | 7 | 97 | 25 | 129 | 13 | 11 | 15 | 39 | 25 | 272 | 8 | 305 | 518 |
| 08:15 AM | 3 | 25 | 21 | 49 | 5 | 87 | 19 | 111 | 25 | 15 | 6 | 46 | 30 | 245 | 13 | 288 | 494 |
| 08:30 AM | 5 | 22 | 18 | 45 | 8 | 85 | 22 | 115 | 17 | 19 | 12 | 48 | 27 | 229 | 5 | 261 | 469 |
| Total Volume | 17 | 100 | 92 | 209 | 22 | 367 | 93 | 482 | 72 | 61 | 48 | 181 | 96 | 971 | 36 | 1103 | 1975 |
| \% App. Total | 8.1 | 47.8 | 44 |  | 4.6 | 76.1 | 19.3 |  | 39.8 | 33.7 | 26.5 |  | 8.7 | 88 | 3.3 |  |  |
| PHF | . 607 | . 926 | . 622 | . 746 | . 688 | . 936 | . 861 | . 934 | . 720 | . 803 | . 800 | . 943 | . 800 | . 892 | . 692 | . 904 | . 953 |

# Peggy Malone \& Associates <br> (888) 247-8602 

File Name : 5-NW 140th St and US 441 AM
Site Code :
Start Date : 10/3/2018
Page No : 1
Groups Printed- Truck

|  | NW 140th St Southbound |  |  |  |  | NW US 441 Westbound |  |  |  |  | NW 140th St Northbound |  |  |  |  | NW US 441 Eastbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| 06:45 AM | 0 | 17 | 2 | 0 | 19 | 1 | 5 | 0 | 0 | 6 | 2 | 8 | 2 | 0 | 12 | 10 | 22 | 1 | 0 | 33 | 70 |
| Total | 0 | 17 | 2 | 0 | 19 | 1 | 5 | 0 | 0 | 6 | 2 | 8 | 2 | 0 | 12 | 10 | 22 | 1 | 0 | 33 | 70 |


| 07:00 AM | 7 | 9 | 1 | 0 | 17 | 0 | 3 | 1 | 0 | 4 | 0 | 2 | 1 | 0 | 3 | 3 | 32 | 0 | 0 | 35 | 59 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 07:15 AM | 3 | 9 | 1 | 0 | 13 | 0 | 6 | 3 | 0 | 9 | 2 | 13 | 1 | 0 | 16 | 12 | 16 | 2 | 0 | 30 | 68 |
| 07:30 AM | 2 | 7 | 2 | 0 | 11 | 0 | 8 | 8 | 0 | 16 | 0 | 10 | 0 | 0 | 10 | 11 | 3 | 0 | 0 | 14 | 51 |
| 07:45 AM | 4 | 11 | 3 | 0 | 18 | 0 | 8 | 6 | 0 | 14 | 1 | 9 | 1 | 0 | 11 | 6 | 28 | 0 | 0 | 34 | 77 |
| Total | 16 | 36 | 7 | 0 | 59 | 0 | 25 | 18 | 0 | 43 | 3 | 34 | 3 | 0 | 40 | 32 | 79 | 2 | 0 | 113 | 255 |
| 08:00 AM | 2 | 8 | 1 | 0 | 11 | 2 | 5 | 4 | 0 | 11 | 2 | 8 | 3 | 0 | 13 | 4 | 40 | 1 | 0 | 45 | 80 |
| 08:15 AM | 2 | 11 | 1 | 0 | 14 | 1 | 12 | 9 | 0 | 22 | 4 | 6 | 1 | 0 | 11 | 10 | 34 | 1 | 0 | 45 | 92 |
| 08:30 AM | 3 | 6 | 2 | 0 | 11 | 0 | 6 | 5 | 0 | 11 | 3 | 4 | 2 | 0 | 9 | 15 | 35 | 0 | 0 | 50 | 81 |
| Grand Total | 23 | 78 | 13 | 0 | 114 | 4 | 53 | 36 | 0 | 93 | 14 | 60 | 11 | 0 | 85 | 71 | 210 | 5 | 0 | 286 | 578 |
| Apprch \% | 20.2 | 68.4 | 11.4 | 0 |  | 4.3 | 57 | 38.7 | 0 |  | 16.5 | 70.6 | 12.9 | 0 |  | 24.8 | 73.4 | 1.7 | 0 |  |  |
| Total \% | 4 | 13.5 | 2.2 | 0 | 19.7 | 0.7 | 9.2 | 6.2 | 0 | 16.1 | 2.4 | 10.4 | 1.9 | 0 | 14.7 | 12.3 | 36.3 | 0.9 | 0 | 49.5 |  |


|  | NW 140th St Southbound |  |  |  | NW US 441 <br> Westbound |  |  |  | NW 140th St Northbound |  |  |  | NW US 441 Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Int. Total |
| Peak Hour Analysis From 06:45 AM to 08:30 AM - Peak 1 of 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Peak Hour for Entire Intersection Begins at 07:45 AM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 07:45 AM | 4 | 11 | 3 | 18 | 0 | 8 | 6 | 14 | 1 | 9 | 1 | 11 | 6 | 28 | 0 | 34 | 77 |
| 08:00 AM | 2 | 8 | 1 | 11 | 2 | 5 | 4 | 11 | 2 | 8 | 3 | 13 | 4 | 40 | 1 | 45 | 80 |
| 08:15 AM | 2 | 11 | 1 | 14 | 1 | 12 | 9 | 22 | 4 | 6 | 1 | 11 | 10 | 34 | 1 | 45 | 92 |
| 08:30 AM | 3 | 6 | 2 | 11 | 0 | 6 | 5 | 11 | 3 | 4 | 2 | 9 | 15 | 35 | 0 | 50 | 81 |
| Total Volume | 11 | 36 | 7 | 54 | 3 | 31 | 24 | 58 | 10 | 27 | 7 | 44 | 35 | 137 | 2 | 174 | 330 |
| \% App. Total | 20.4 | 66.7 | 13 |  | 5.2 | 53.4 | 41.4 |  | 22.7 | 61.4 | 15.9 |  | 20.1 | 78.7 | 1.1 |  |  |
| PHF | . 688 | . 818 | . 583 | . 750 | . 375 | . 646 | . 667 | . 659 | . 625 | . 750 | . 583 | . 846 | . 583 | . 856 | 500 | . 870 | . 897 |

# Peggy Malone \& Associates <br> (888) 247-8602 

File Name : 5-NW 140th St and US 441 AM
Site Code :
Start Date : 10/3/2018
Page No : 1
Groups Printed- Combined

|  | NW 140th St Southbound |  |  |  |  | NW US 441 Westbound |  |  |  |  | NW 140th St Northbound |  |  |  |  | NW US 441 Eastbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| 06:45 AM | 1 | 44 | 31 | 0 | 76 | 4 | 67 | 5 | 0 | 76 | 17 | 25 | 12 | 1 | 55 | 46 | 301 | 7 | 0 | 354 | 561 |
| Total | 1 | 44 | 31 | 0 | 76 | 4 | 67 | 5 | 0 | 76 | 17 | 25 | 12 | 1 | 55 | 46 | 301 | 7 | 0 | 354 | 561 |


| 07:00 AM | 10 | 39 | 31 | 0 | 80 | 12 | 70 | 38 | 0 | 120 | 19 | 21 | 21 | 0 | 61 | 37 | 258 | 12 | 0 | 307 | 568 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 07:15 AM | 3 | 43 | 41 | 0 | 87 | 14 | 96 | 38 | 0 | 148 | 17 | 30 | 12 | 0 | 59 | 34 | 236 | 14 | 0 | 284 | 578 |
| 07:30 AM | 3 | 32 | 17 | 0 | 52 | 13 | 110 | 22 | 0 | 145 | 12 | 41 | 12 | 0 | 65 | 26 | 176 | 10 | 0 | 212 | 474 |
| 07:45 AM | 11 | 37 | 40 | 1 | 89 | 2 | 106 | 33 | 0 | 141 | 18 | 25 | 16 | 0 | 59 | 20 | 253 | 10 | 0 | 283 | 572 |
| Total | 27 | 151 | 129 | 1 | 308 | 41 | 382 | 131 | 0 | 554 | 66 | 117 | 61 | 0 | 244 | 117 | 923 | 46 | 0 | 1086 | 2192 |
| 08:00 AM | 4 | 35 | 17 | 0 | 56 | 9 | 102 | 29 | 0 | 140 | 15 | 19 | 18 | 0 | 52 | 29 | 312 | 9 | 0 | 350 | 598 |
| 08:15 AM | 5 | 36 | 22 | 1 | 64 | 6 | 99 | 28 | 0 | 133 | 29 | 21 | 7 | 1 | 58 | 40 | 279 | 14 | 0 | 333 | 588 |
| 08:30 AM | 8 | 28 | 20 | 1 | 57 | 8 | 91 | 27 | 0 | 126 | 20 | 23 | 14 | 0 | 57 | 42 | 264 | 5 | 0 | 311 | 551 |
| Grand Total | 45 | 294 | 219 | 3 | 561 | 68 | 741 | 220 | 0 | 1029 | 147 | 205 | 112 | 2 | 466 | 274 | 2079 | 81 | 0 | 2434 | 4490 |
| Apprch \% | 8 | 52.4 | 39 | 0.5 |  | 6.6 | 72 | 21.4 | 0 |  | 31.5 | 44 | 24 | 0.4 |  | 11.3 | 85.4 | 3.3 | 0 |  |  |
| Total \% | 1 | 6.5 | 4.9 | 0.1 | 12.5 | 1.5 | 16.5 | 4.9 | 0 | 22.9 | 3.3 | 4.6 | 2.5 | 0 | 10.4 | 6.1 | 46.3 | 1.8 | 0 | 54.2 |  |


|  | NW 140th St Southbound |  |  |  | NW US 441 <br> Westbound |  |  |  | NW 140th St Northbound |  |  |  | NW US 441 Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Int. Total |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Peak Hour for Entire Intersection Begins at 07:45 AM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 07:45 AM | 11 | 37 | 40 | 88 | 2 | 106 | 33 | 141 | 18 | 25 | 16 | 59 | 20 | 253 | 10 | 283 | 571 |
| 08:00 AM | 4 | 35 | 17 | 56 | 9 | 102 | 29 | 140 | 15 | 19 | 18 | 52 | 29 | 312 | 9 | 350 | 598 |
| 08:15 AM | 5 | 36 | 22 | 63 | 6 | 99 | 28 | 133 | 29 | 21 | 7 | 57 | 40 | 279 | 14 | 333 | 586 |
| 08:30 AM | 8 | 28 | 20 | 56 | 8 | 91 | 27 | 126 | 20 | 23 | 14 | 57 | 42 | 264 | 5 | 311 | 550 |
| Total Volume | 28 | 136 | 99 | 263 | 25 | 398 | 117 | 540 | 82 | 88 | 55 | 225 | 131 | 1108 | 38 | 1277 | 2305 |
| \% App. Total | 10.6 | 51.7 | 37.6 |  | 4.6 | 73.7 | 21.7 |  | 36.4 | 39.1 | 24.4 |  | 10.3 | 86.8 | 3 |  |  |
| PHF | . 636 | . 919 | . 619 | . 747 | . 694 | . 939 | . 886 | . 957 | . 707 | . 880 | . 764 | . 953 | . 780 | . 888 | 679 | . 912 | . 964 |

# Peggy Malone \& Associates <br> (888) 247-8602 

File Name : 5-NW 140th St and US 441 PM
Site Code :
Start Date : 10/3/2018
Page No : 1
Groups Printed- Car

|  | NW 140th St Southbound |  |  |  |  | NW US 441 <br> Westbound |  |  |  |  | NW 140th St Northbound |  |  |  |  | NW US 441 Eastbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| 04:30 PM | 16 | 24 | 12 | 1 | 53 | 26 | 218 | 41 | 0 | 285 | 17 | 35 | 36 | 0 | 88 | 32 | 116 | 17 | 1 | 166 | 592 |
| 04:45 PM | 14 | 29 | 10 | 1 | 54 | 25 | 219 | 31 | 0 | 275 | 12 | 36 | 31 | 0 | 79 | 23 | 100 | 24 | 0 | 147 | 555 |
| Total | 30 | 53 | 22 | 2 | 107 | 51 | 437 | 72 | 0 | 560 | 29 | 71 | 67 | 0 | 167 | 55 | 216 | 41 | 1 | 313 | 1147 |
| 05:00 PM | 16 | 30 | 19 | 0 | 65 | 21 | 236 | 61 | 0 | 318 | 29 | 33 | 38 | 0 | 100 | 42 | 144 | 22 | 0 | 208 | 691 |
| 05:15 PM | 14 | 34 | 17 | 0 | 65 | 23 | 270 | 46 | 0 | 339 | 19 | 31 | 33 | 0 | 83 | 40 | 133 | 32 | 0 | 205 | 692 |
| 05:30 PM | 15 | 32 | 27 | 0 | 74 | 25 | 250 | 39 | 0 | 314 | 16 | 40 | 29 | 0 | 85 | 32 | 121 | 32 | 0 | 185 | 658 |
| 05:45 PM | 18 | 25 | 14 | 0 | 57 | 26 | 268 | 33 | 0 | 327 | 14 | 31 | 30 | 0 | 75 | 42 | 89 | 33 | 0 | 164 | 623 |
| Total | 63 | 121 | 77 | 0 | 261 | 95 | 1024 | 179 | 0 | 1298 | 78 | 135 | 130 | 0 | 343 | 156 | 487 | 119 | 0 | 762 | 2664 |
| 06:00 PM | 12 | 25 | 14 | 0 | 51 | 26 | 253 | 27 | 0 | 306 | 17 | 20 | 28 | 0 | 65 | 26 | 113 | 21 | 0 | 160 | 582 |
| 06:15 PM | 15 | 27 | 14 | 0 | 56 | 13 | 195 | 22 | 0 | 230 | 12 | 20 | 31 | 0 | 63 | 31 | 98 | 24 | 0 | 153 | 502 |
| Grand Total | 120 | 226 | 127 | 2 | 475 | 185 | 1909 | 300 | 0 | 2394 | 136 | 246 | 256 | 0 | 638 | 268 | 914 | 205 | 1 | 1388 | 4895 |
| Apprch \% | 25.3 | 47.6 | 26.7 | 0.4 |  | 7.7 | 79.7 | 12.5 | 0 |  | 21.3 | 38.6 | 40.1 | 0 |  | 19.3 | 65.9 | 14.8 | 0.1 |  |  |
| Total \% | 2.5 | 4.6 | 2.6 | 0 | 9.7 | 3.8 | 39 | 6.1 | 0 | 48.9 | 2.8 | 5 | 5.2 | 0 | 13 | 5.5 | 18.7 | 4.2 | 0 | 28.4 |  |


|  | NW 140th St Southbound |  |  |  | NW US 441 Westbound |  |  |  | NW 140th St Northbound |  |  |  | NW US 441 Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Int. Total |
| Peak Hour Analysis From 04:30 PM to 06:15 PM - Peak 1 of 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Peak Hour for Entire Intersection Begins at 05:00 PM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 05:00 PM | 16 | 30 | 19 | 65 | 21 | 236 | 61 | 318 | 29 | 33 | 38 | 100 | 42 | 144 | 22 | 208 | 691 |
| 05:15 PM | 14 | 34 | 17 | 65 | 23 | 270 | 46 | 339 | 19 | 31 | 33 | 83 | 40 | 133 | 32 | 205 | 692 |
| 05:30 PM | 15 | 32 | 27 | 74 | 25 | 250 | 39 | 314 | 16 | 40 | 29 | 85 | 32 | 121 | 32 | 185 | 658 |
| 05:45 PM | 18 | 25 | 14 | 57 | 26 | 268 | 33 | 327 | 14 | 31 | 30 | 75 | 42 | 89 | 33 | 164 | 623 |
| Total Volume | 63 | 121 | 77 | 261 | 95 | 1024 | 179 | 1298 | 78 | 135 | 130 | 343 | 156 | 487 | 119 | 762 | 2664 |
| \% App. Total | 24.1 | 46.4 | 29.5 |  | 7.3 | 78.9 | 13.8 |  | 22.7 | 39.4 | 37.9 |  | 20.5 | 63.9 | 15.6 |  |  |
| PHF | . 875 | . 890 | . 713 | . 882 | . 913 | . 948 | . 734 | . 957 | . 672 | . 844 | . 855 | . 858 | . 929 | . 845 | . 902 | . 916 | . 962 |

# Peggy Malone \& Associates <br> (888) 247-8602 

File Name : 5-NW 140th St and US 441 PM
Site Code :
Start Date : 10/3/2018
Page No :1
Groups Printed- Truck

|  | NW 140th St Southbound |  |  |  |  | NW US 441 Westbound |  |  |  |  | NW 140th St Northbound |  |  |  |  | NW US 441 Eastbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| 04:30 PM | 0 | 5 | 0 | 0 | 5 | 1 | 5 | 1 | 0 | 7 | 0 | 4 | 0 | 0 | 4 | 0 | 3 | 1 | 0 | 4 | 20 |
| 04:45 PM | 2 | 1 | 1 | 0 | 4 | 0 | 4 | 2 | 0 | 6 | 1 | 3 | 0 | 0 | 4 | 0 | 5 | 0 | 0 | 5 | 19 |
| Total | 2 | 6 | 1 | 0 | 9 | 1 | 9 | 3 | 0 | 13 | 1 | 7 | 0 | 0 | 8 | 0 | 8 | 1 | 0 | 9 | 39 |


| 05:00 PM | 0 | 2 | 0 | 0 | 2 | 2 | 4 | 1 | 0 | 7 | 3 | 3 | 2 | 0 | 8 | 2 | 13 | 1 | 0 | 16 | 33 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 05:15 PM | 0 | 5 | 0 | 0 | 5 | 0 | 6 | 1 | 0 | 7 | 3 | 3 | 0 | 0 | 6 | 2 | 2 | 0 | 0 | 4 | 22 |
| 05:30 PM | 1 | 3 | 0 | 0 | 4 | 1 | 4 | 1 | 0 | 6 | 2 | 1 | 1 | 0 | 4 | 0 | 3 | 1 | 0 | 4 | 18 |
| 05:45 PM | 1 | 5 | 1 | 0 | 7 | 0 | 3 | 0 | 0 | 3 | 1 | 2 | 0 | 0 | 3 | 0 | 2 | 2 | 0 | 4 | 17 |
| Total | 2 | 15 | 1 | 0 | 18 | 3 | 17 | 3 | 0 | 23 | 9 | 9 | 3 | 0 | 21 | 4 | 20 | 4 | 0 | 28 | 90 |


| 06:00 PM | 0 | 3 | 0 | 0 | 3 | 0 | 5 | 2 | 0 | 7 | 1 | 3 | 0 | 0 | 4 | 1 | 0 | 1 | 0 | 2 | 16 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 06:15 PM | 0 | 2 | 0 | 0 | 2 | 0 | 4 | 0 | 0 | 4 | 0 | 2 | 0 | 0 | 2 | 0 | 3 | 0 | 0 | 3 | 11 |
| Grand Total | 4 | 26 | 2 | 0 | 32 | 4 | 35 | 8 | 0 | 47 | 11 | 21 | 3 | 0 | 35 | 5 | 31 | 6 | 0 | 42 | 156 |
| Apprch \% | 12.5 | 81.2 | 6.2 | 0 |  | 8.5 | 74.5 | 17 | 0 |  | 31.4 | 60 | 8.6 | 0 |  | 11.9 | 73.8 | 14.3 | 0 |  |  |
| Total \% | 2.6 | 16.7 | 1.3 | 0 | 20.5 | 2.6 | 22.4 | 5.1 | 0 | 30.1 | 7.1 | 13.5 | 1.9 | 0 | 22.4 | 3.2 | 19.9 | 3.8 | 0 | 26.9 |  |


|  | NW 140th St Southbound |  |  |  | NW US 441 <br> Westbound |  |  |  | NW 140th St Northbound |  |  |  | NW US 441 Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Int. Total |
| Peak Hour Analysis From 04:30 PM to 06:15 PM - Peak 1 of 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Peak Hour for Entire Intersection Begins at 04:30 PM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 04:30 PM | 0 | 5 | 0 | 5 | 1 | 5 | 1 | 7 | 0 | 4 | 0 | 4 | 0 | 3 | 1 | 4 | 20 |
| 04:45 PM | 2 | 1 | 1 | 4 | 0 | 4 | 2 | 6 | 1 | 3 | 0 | 4 | 0 | 5 | 0 | 5 | 19 |
| 05:00 PM | 0 | 2 | 0 | 2 | 2 | 4 | 1 | 7 | 3 | 3 | 2 | 8 | 2 | 13 | 1 | 16 | 33 |
| 05:15 PM | 0 | 5 | 0 | 5 | 0 | 6 | 1 | 7 | 3 | 3 | 0 | 6 | 2 | 2 | 0 | 4 | 22 |
| Total Volume | 2 | 13 | 1 | 16 | 3 | 19 | 5 | 27 | 7 | 13 | 2 | 22 | 4 | 23 | 2 | 29 | 94 |
| \% App. Total | 12.5 | 81.2 | 6.2 |  | 11.1 | 70.4 | 18.5 |  | 31.8 | 59.1 | 9.1 |  | 13.8 | 79.3 | 6.9 |  |  |
| PHF | . 250 | . 650 | . 250 | . 800 | . 375 | . 792 | . 625 | . 964 | . 583 | . 813 | . 250 | . 688 | . 500 | . 442 | . 500 | . 453 | . 712 |

# Peggy Malone \& Associates <br> (888) 247-8602 

File Name : 5-NW 140th St and US 441 PM
Site Code :
Start Date : 10/3/2018
Page No : 1
Groups Printed- Combined

|  | NW 140th St Southbound |  |  |  |  | NW US 441 <br> Westbound |  |  |  |  | NW 140th St Northbound |  |  |  |  | NW US 441 Eastbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| 04:30 PM | 16 | 29 | 12 | 1 | 58 | 27 | 223 | 42 | 0 | 292 | 17 | 39 | 36 | 0 | 92 | 32 | 119 | 18 | 1 | 170 | 612 |
| 04:45 PM | 16 | 30 | 11 | 1 | 58 | 25 | 223 | 33 | 0 | 281 | 13 | 39 | 31 | 0 | 83 | 23 | 105 | 24 | 0 | 152 | 574 |
| Total | 32 | 59 | 23 | 2 | 116 | 52 | 446 | 75 | 0 | 573 | 30 | 78 | 67 | 0 | 175 | 55 | 224 | 42 | 1 | 322 | 1186 |
| 05:00 PM | 16 | 32 | 19 | 0 | 67 | 23 | 240 | 62 | 0 | 325 | 32 | 36 | 40 | 0 | 108 | 44 | 157 | 23 | 0 | 224 | 724 |
| 05:15 PM | 14 | 39 | 17 | 0 | 70 | 23 | 276 | 47 | 0 | 346 | 22 | 34 | 33 | 0 | 89 | 42 | 135 | 32 | 0 | 209 | 714 |
| 05:30 PM | 16 | 35 | 27 | 0 | 78 | 26 | 254 | 40 | 0 | 320 | 18 | 41 | 30 | 0 | 89 | 32 | 124 | 33 | 0 | 189 | 676 |
| 05:45 PM | 19 | 30 | 15 | 0 | 64 | 26 | 271 | 33 | 0 | 330 | 15 | 33 | 30 | 0 | 78 | 42 | 91 | 35 | 0 | 168 | 640 |
| Total | 65 | 136 | 78 | 0 | 279 | 98 | 1041 | 182 | 0 | 1321 | 87 | 144 | 133 | 0 | 364 | 160 | 507 | 123 | 0 | 790 | 2754 |
| 06:00 PM | 12 | 28 | 14 | 0 | 54 | 26 | 258 | 29 | 0 | 313 | 18 | 23 | 28 | 0 | 69 | 27 | 113 | 22 | 0 | 162 | 598 |
| 06:15 PM | 15 | 29 | 14 | 0 | 58 | 13 | 199 | 22 | 0 | 234 | 12 | 22 | 31 | 0 | 65 | 31 | 101 | 24 | 0 | 156 | 513 |
| Grand Total | 124 | 252 | 129 | 2 | 507 | 189 | 1944 | 308 | 0 | 2441 | 147 | 267 | 259 | 0 | 673 | 273 | 945 | 211 | 1 | 1430 | 5051 |
| Apprch \% | 24.5 | 49.7 | 25.4 | 0.4 |  | 7.7 | 79.6 | 12.6 | 0 |  | 21.8 | 39.7 | 38.5 | 0 |  | 19.1 | 66.1 | 14.8 | 0.1 |  |  |
| Total \% | 2.5 | 5 | 2.6 | 0 | 10 | 3.7 | 38.5 | 6.1 | 0 | 48.3 | 2.9 | 5.3 | 5.1 | 0 | 13.3 | 5.4 | 18.7 | 4.2 | 0 | 28.3 |  |


|  | NW 140th St Southbound |  |  |  | NW US 441 <br> Westbound |  |  |  | NW 140th St Northbound |  |  |  | NW US 441 Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Int. Total |
| Peak Hour Analysis From 04:30 PM to 06:15 PM - Peak 1 of 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Peak Hour for Entire Intersection Begins at 05:00 PM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 05:00 PM | 16 | 32 | 19 | 67 | 23 | 240 | 62 | 325 | 32 | 36 | 40 | 108 | 44 | 157 | 23 | 224 | 724 |
| 05:15 PM | 14 | 39 | 17 | 70 | 23 | 276 | 47 | 346 | 22 | 34 | 33 | 89 | 42 | 135 | 32 | 209 | 714 |
| 05:30 PM | 16 | 35 | 27 | 78 | 26 | 254 | 40 | 320 | 18 | 41 | 30 | 89 | 32 | 124 | 33 | 189 | 676 |
| 05:45 PM | 19 | 30 | 15 | 64 | 26 | 271 | 33 | 330 | 15 | 33 | 30 | 78 | 42 | 91 | 35 | 168 | 640 |
| Total Volume | 65 | 136 | 78 | 279 | 98 | 1041 | 182 | 1321 | 87 | 144 | 133 | 364 | 160 | 507 | 123 | 790 | 2754 |
| \% App. Total | 23.3 | 48.7 | 28 |  | 7.4 | 78.8 | 13.8 |  | 23.9 | 39.6 | 36.5 |  | 20.3 | 64.2 | 15.6 |  |  |
| PHF | . 855 | . 872 | . 722 | . 894 | . 942 | . 943 | . 734 | . 954 | . 680 | . 878 | . 831 | . 843 | . 909 | . 807 | . 879 | . 882 | . 951 |

## US 441 and Progress Blvd

# Peggy Malone \& Associates <br> (888) 247-8602 

File Name: 1-Progress Blvd and US 441 AM
Site Code :
Start Date : 10/3/2018
Page No : 1
Groups Printed- Car

|  | NW 119th Ter Southbound |  |  |  |  | NW US 441 Westbound |  |  |  |  | Progress Blvd Northbound |  |  |  |  | NW US 441 Eastbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| 06:45 AM | 2 | 0 | 0 | 0 | 2 | 0 | 69 | 2 | 0 | 71 | 8 | 0 | 1 | 0 | 9 | 4 | 335 | 0 | 0 | 339 | 421 |
| Total | 2 | 0 | 0 | 0 | 2 | 0 | 69 | 2 | 0 | 71 | 8 | 0 | 1 | 0 | 9 | 4 | 335 | 0 | 0 | 339 | 421 |


| 07:00 AM | 2 | 0 | 0 | 0 | 2 | 0 | 94 | 1 | 0 | 95 | 7 | 0 | 0 | 0 | 7 | 9 | 277 | 2 | 0 | 288 | 392 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 07:15 AM | 0 | 0 | 1 | 0 | 1 | 2 | 110 | 12 | 0 | 124 | 6 | 0 | 1 | 0 | 7 | 6 | 286 | 2 | 0 | 294 | 426 |
| 07:30 AM | 1 | 1 | 3 | 0 | 5 | 3 | 129 | 9 | 0 | 141 | 5 | 0 | 1 | 0 | 6 | 11 | 227 | 1 | 0 | 239 | 391 |
| 07:45 AM | 1 | 0 | 0 | 0 | 1 | 4 | 109 | 18 | 0 | 131 | 7 | 0 | 1 | 0 | 8 | 22 | 254 | 2 | 0 | 278 | 418 |
| Total | 4 | 1 | 4 | 0 | 9 | 9 | 442 | 40 | 0 | 491 | 25 | 0 | 3 | 0 | 28 | 48 | 1044 | 7 | 0 | 1099 | 1627 |
| 08:00 AM | 4 | 0 | 3 | 0 | 7 | 5 | 87 | 22 | 0 | 114 | 7 | 1 | 4 | 0 | 12 | 31 | 262 | 8 | 0 | 301 | 434 |
| 08:15 AM | 2 | 0 | 1 | 0 | 3 | 1 | 98 | 26 | 0 | 125 | 10 | 1 | 1 | 0 | 12 | 29 | 278 | 6 | 0 | 313 | 453 |
| 08:30 AM | 3 | 0 | 1 | 0 | 4 | 7 | 106 | 25 | 0 | 138 | 9 | 0 | 1 | 0 | 10 | 31 | 245 | 7 | 0 | 283 | 435 |
| Grand Total | 15 | 1 | 9 | 0 | 25 | 22 | 802 | 115 | 0 | 939 | 59 | 2 | 10 | 0 | 71 | 143 | 2164 | 28 | 0 | 2335 | 3370 |
| Apprch \% | 60 | 4 | 36 | 0 |  | 2.3 | 85.4 | 12.2 | 0 |  | 83.1 | 2.8 | 14.1 | 0 |  | 6.1 | 92.7 | 1.2 | 0 |  |  |
| Total \% | 0.4 | 0 | 0.3 | 0 | 0.7 | 0.7 | 23.8 | 3.4 | 0 | 27.9 | 1.8 | 0.1 | 0.3 | 0 | 2.1 | 4.2 | 64.2 | 0.8 | 0 | 69.3 |  |


|  | NW 119th Ter Southbound |  |  |  | NW US 441 <br> Westbound |  |  |  | Progress Blvd Northbound |  |  |  | NW US 441 Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Int. Total |
| Peak Hour Analysis From 06:45 AM to 08:30 AM - Peak 1 of 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Peak Hour for Entire Intersection Begins at 07:45 AM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 07:45 AM | 1 | 0 | 0 | 1 | 4 | 109 | 18 | 131 | 7 | 0 | 1 | 8 | 22 | 254 | 2 | 278 | 418 |
| 08:00 AM | 4 | 0 | 3 | 7 | 5 | 87 | 22 | 114 | 7 | 1 | 4 | 12 | 31 | 262 | 8 | 301 | 434 |
| 08:15 AM | 2 | 0 | 1 | 3 | 1 | 98 | 26 | 125 | 10 | 1 | 1 | 12 | 29 | 278 | 6 | 313 | 453 |
| 08:30 AM | 3 | 0 | 1 | 4 | 7 | 106 | 25 | 138 | 9 | 0 | 1 | 10 | 31 | 245 | 7 | 283 | 435 |
| Total Volume | 10 | 0 | 5 | 15 | 17 | 400 | 91 | 508 | 33 | 2 | 7 | 42 | 113 | 1039 | 23 | 1175 | 1740 |
| \% App. Total | 66.7 | 0 | 33.3 |  | 3.3 | 78.7 | 17.9 |  | 78.6 | 4.8 | 16.7 |  | 9.6 | 88.4 | 2 |  |  |
| PHF | . 625 | . 000 | . 417 | . 536 | . 607 | . 917 | . 875 | . 920 | . 825 | . 500 | . 438 | . 875 | . 911 | . 934 | . 719 | . 938 | . 960 |

# Peggy Malone \& Associates <br> (888) 247-8602 

File Name: 1-Progress Blvd and US 441 AM
Site Code :
Start Date : 10/3/2018
Page No : 1
Groups Printed- Truck

|  | NW 119th Ter Southbound |  |  |  |  | NW US 441 Westbound |  |  |  |  | Progress Blvd Northbound |  |  |  |  | NW US 441 Eastbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| 06:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 0 | 0 | 20 | 25 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 0 | 0 | 20 | 25 |


| 07:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 36 | 0 | 0 | 36 | 45 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 07:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 0 | 0 | 18 | 31 |
| 07:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 7 | 1 | 0 | 0 | 0 | 1 | 0 | 9 | 0 | 0 | 9 | 17 |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 1 | 18 | 0 | 0 | 19 | 28 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 38 | 0 | 0 | 38 | 1 | 0 | 0 | 0 | 1 | 1 | 81 | 0 | 0 | 82 | 121 |
| 08:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 0 | 12 | 1 | 1 | 1 | 0 | 3 | 0 | 48 | 0 | 0 | 48 | 63 |
| 08:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 0 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 1 | 31 | 0 | 0 | 32 | 50 |
| 08:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 1 | 0 | 1 | 0 | 44 | 0 | 0 | 44 | 54 |
| Grand Total | 0 | 0 | 0 | 0 | 0 | 0 | 82 | 0 | 0 | 82 | 2 | 1 | 2 | 0 | 5 | 2 | 224 | 0 | 0 | 226 | 313 |
| Apprch \% | 0 | 0 | 0 | 0 |  | 0 | 100 | 0 | 0 |  | 40 | 20 | 40 | 0 |  | 0.9 | 99.1 | 0 | 0 |  |  |
| Total \% | 0 | 0 | 0 | 0 | 0 | 0 | 26.2 | 0 | 0 | 26.2 | 0.6 | 0.3 | 0.6 | 0 | 1.6 | 0.6 | 71.6 | 0 | 0 | 72.2 |  |


|  | NW 119th Ter Southbound |  |  |  | NW US 441 Westbound |  |  |  | Progress Blvd Northbound |  |  |  | NW US 441 Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Int. Total |
| Peak Hour Analysis From 06:45 AM to 08:30 AM - Peak 1 of 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Peak Hour for Entir | ersecti | Begins | 7:45 A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 07:45 AM | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 9 | 0 | 0 | 0 | 0 | 1 | 18 | 0 | 19 | 28 |
| 08:00 AM | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 12 | 1 | 1 | 1 | 3 | 0 | 48 | 0 | 48 | 63 |
| 08:15 AM | 0 | 0 | 0 | 0 | 0 | 18 | 0 | 18 | 0 | 0 | 0 | 0 | 1 | 31 | 0 | 32 | 50 |
| 08:30 AM | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 9 | 0 | 0 | 1 | 1 | 0 | 44 | 0 | 44 | 54 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 48 | 0 | 48 | 1 | 1 | 2 | 4 | 2 | 141 | 0 | 143 | 195 |
| \% App. Total | 0 | 0 | 0 |  | 0 | 100 | 0 |  | 25 | 25 | 50 |  | 1.4 | 98.6 | 0 |  |  |
| PHF | . 000 | . 000 | . 000 | . 000 | . 000 | . 667 | . 000 | . 667 | . 250 | . 250 | . 500 | . 333 | . 500 | . 734 | . 000 | . 745 | . 774 |

# Peggy Malone \& Associates <br> (888) 247-8602 

File Name: 1-Progress Blvd and US 441 AM
Site Code :
Start Date : 10/3/2018
Page No : 1
Groups Printed- Combined

|  | NW 119th Ter Southbound |  |  |  |  | NW US 441 Westbound |  |  |  |  | Progress Blvd Northbound |  |  |  |  | NW US 441 Eastbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| 06:45 AM | 2 | 0 | 0 | 0 | 2 | 0 | 74 | 2 | 0 | 76 | 8 | 0 | 1 | 0 | 9 | 4 | 355 | 0 | 0 | 359 | 446 |
| Total | 2 | 0 | 0 | 0 | 2 | 0 | 74 | 2 | 0 | 76 | 8 | 0 | 1 | 0 | 9 | 4 | 355 | 0 | 0 | 359 | 446 |


| 07:00 AM | 2 | 0 | 0 | 0 | 2 | 0 | 103 | 1 | 0 | 104 | 7 | 0 | 0 | 0 | 7 | 9 | 313 | 2 | 0 | 324 | 437 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 07:15 AM | 0 | 0 | 1 | 0 | 1 | 2 | 123 | 12 | 0 | 137 | 6 | 0 | 1 | 0 | 7 | 6 | 304 | 2 | 0 | 312 | 457 |
| 07:30 AM | 1 | 1 | 3 | 0 | 5 | 3 | 136 | 9 | 0 | 148 | 6 | 0 | 1 | 0 | 7 | 11 | 236 | 1 | 0 | 248 | 408 |
| 07:45 AM | 1 | 0 | 0 | 0 | 1 | 4 | 118 | 18 | 0 | 140 | 7 | 0 | 1 | 0 | 8 | 23 | 272 | 2 | 0 | 297 | 446 |
| Total | 4 | 1 | 4 | 0 | 9 | 9 | 480 | 40 | 0 | 529 | 26 | 0 | 3 | 0 | 29 | 49 | 1125 | 7 | 0 | 1181 | 1748 |
| 08:00 AM | 4 | 0 | 3 | 0 | 7 | 5 | 99 | 22 | 0 | 126 | 8 | 2 | 5 | 0 | 15 | 31 | 310 | 8 | 0 | 349 | 497 |
| 08:15 AM | 2 | 0 | 1 | 0 | 3 | 1 | 116 | 26 | 0 | 143 | 10 | 1 | 1 | 0 | 12 | 30 | 309 | 6 | 0 | 345 | 503 |
| 08:30 AM | 3 | 0 | 1 | 0 | 4 | 7 | 115 | 25 | 0 | 147 | 9 | 0 | 2 | 0 | 11 | 31 | 289 | 7 | 0 | 327 | 489 |
| Grand Total | 15 | 1 | 9 | 0 | 25 | 22 | 884 | 115 | 0 | 1021 | 61 | 3 | 12 | 0 | 76 | 145 | 2388 | 28 | 0 | 2561 | 3683 |
| Apprch \% | 60 | 4 | 36 | 0 |  | 2.2 | 86.6 | 11.3 | 0 |  | 80.3 | 3.9 | 15.8 | 0 |  | 5.7 | 93.2 | 1.1 | 0 |  |  |
| Total \% | 0.4 | 0 | 0.2 | 0 | 0.7 | 0.6 | 24 | 3.1 | 0 | 27.7 | 1.7 | 0.1 | 0.3 | 0 | 2.1 | 3.9 | 64.8 | 0.8 | 0 | 69.5 |  |


|  | NW 119th Ter Southbound |  |  |  | NW US 441 <br> Westbound |  |  |  | Progress Blvd Northbound |  |  |  | NW US 441 Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Int. Total |
| Peak Hour Analysis From 06:45 AM to 08:30 AM - Peak 1 of 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Peak Hour for Entire Intersection Begins at 07:45 AM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 07:45 AM | 1 | 0 | 0 | 1 | 4 | 118 | 18 | 140 | 7 | 0 | 1 | 8 | 23 | 272 | 2 | 297 | 446 |
| 08:00 AM | 4 | 0 | 3 | 7 | 5 | 99 | 22 | 126 | 8 | 2 | 5 | 15 | 31 | 310 | 8 | 349 | 497 |
| 08:15 AM | 2 | 0 | 1 | 3 | 1 | 116 | 26 | 143 | 10 | 1 | 1 | 12 | 30 | 309 | 6 | 345 | 503 |
| 08:30 AM | 3 | 0 | 1 | 4 | 7 | 115 | 25 | 147 | 9 | 0 | 2 | 11 | 31 | 289 | 7 | 327 | 489 |
| Total Volume | 10 | 0 | 5 | 15 | 17 | 448 | 91 | 556 | 34 | 3 | 9 | 46 | 115 | 1180 | 23 | 1318 | 1935 |
| \% App. Total | 66.7 | 0 | 33.3 |  | 3.1 | 80.6 | 16.4 |  | 73.9 | 6.5 | 19.6 |  | 8.7 | 89.5 | 1.7 |  |  |
| PHF | . 625 | . 000 | . 417 | . 536 | . 607 | . 949 | . 875 | . 946 | . 850 | . 375 | . 450 | . 767 | . 927 | . 952 | . 719 | . 944 | . 962 |

# Peggy Malone \& Associates <br> (888) 247-8602 

File Name : 1-Progress Blvd and US 441 PM
Site Code :
Start Date : 10/3/2018
Page No : 1
Groups Printed- Car

|  | NW 119th Ter Southbound |  |  |  |  | NW US 441 <br> Westbound |  |  |  |  | Progress Blvd Northbound |  |  |  |  | NW US 441 Eastbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| 04:30 PM | 9 | 0 | 10 | 0 | 19 | 0 | 266 | 2 | 0 | 268 | 17 | 0 | 23 | 0 | 40 | 3 | 104 | 5 | 0 | 112 | 439 |
| 04:45 PM | 7 | 1 | 6 | 0 | 14 | 0 | 235 | 2 | 0 | 237 | 16 | 1 | 17 | 0 | 34 | 3 | 102 | 2 | 0 | 107 | 392 |
| Total | 16 | 1 | 16 | 0 | 33 | 0 | 501 | 4 | 0 | 505 | 33 | 1 | 40 | 0 | 74 | 6 | 206 | 7 | 0 | 219 | 831 |
| 05:00 PM | 8 | 0 | 4 | 0 | 12 | 0 | 314 | 2 | 0 | 316 | 36 | 0 | 30 | 1 | 67 | 3 | 149 | 2 | 0 | 154 | 549 |
| 05:15 PM | 3 | 1 | 7 | 0 | 11 | 0 | 282 | 2 | 0 | 284 | 20 | 0 | 17 | 0 | 37 | 9 | 153 | 3 | 0 | 165 | 497 |
| 05:30 PM | 11 | 0 | 0 | 0 | 11 | 2 | 311 | 5 | 0 | 318 | 24 | 0 | 26 | 0 | 50 | 2 | 127 | 3 | 0 | 132 | 511 |
| 05:45 PM | 3 | 0 | 2 | 0 | 5 | 2 | 251 | 1 | 0 | 254 | 16 | 1 | 22 | 0 | 39 | 2 | 113 | 2 | 0 | 117 | 415 |
| Total | 25 | 1 | 13 | 0 | 39 | 4 | 1158 | 10 | 0 | 1172 | 96 | 1 | 95 | 1 | 193 | 16 | 542 | 10 | 0 | 568 | 1972 |


| 06:00 PM | 3 | 0 | 1 | 0 | 4 | 0 | 259 | 0 | 0 | 259 | 15 | 0 | 35 | 0 | 50 | 1 | 117 | 2 | 0 | 120 | 433 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 06:15 PM | 2 | 0 | 2 | 0 | 4 | 0 | 197 | 1 | 0 | 198 | 10 | 0 | 13 | 0 | 23 | 2 | 100 | 3 | 0 | 105 | 330 |
| Grand Total | 46 | 2 | 32 | 0 | 80 | 4 | 2115 | 15 | 0 | 2134 | 154 | 2 | 183 | 1 | 340 | 25 | 965 | 22 | 0 | 1012 | 3566 |
| Apprch \% | 57.5 | 2.5 | 40 | 0 |  | 0.2 | 99.1 | 0.7 | 0 |  | 45.3 | 0.6 | 53.8 | 0.3 |  | 2.5 | 95.4 | 2.2 | 0 |  |  |
| Total \% | 1.3 | 0.1 | 0.9 | 0 | 2.2 | 0.1 | 59.3 | 0.4 | 0 | 59.8 | 4.3 | 0.1 | 5.1 | 0 | 9.5 | 0.7 | 27.1 | 0.6 | 0 | 28.4 |  |


|  | NW 119th Ter Southbound |  |  |  | NW US 441 <br> Westbound |  |  |  | Progress Blvd Northbound |  |  |  | NW US 441 Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Int. Total |
| Peak Hour Analysis From 04:30 PM to 06:15 PM - Peak 1 of 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Peak Hour for Entire Intersection Begins at 05:00 PM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 05:00 PM | 8 | 0 | 4 | 12 | 0 | 314 | 2 | 316 | 36 | 0 | 30 | 66 | 3 | 149 | 2 | 154 | 548 |
| 05:15 PM | 3 | 1 | 7 | 11 | 0 | 282 | 2 | 284 | 20 | 0 | 17 | 37 | 9 | 153 | 3 | 165 | 497 |
| 05:30 PM | 11 | 0 | 0 | 11 | 2 | 311 | 5 | 318 | 24 | 0 | 26 | 50 | 2 | 127 | 3 | 132 | 511 |
| 05:45 PM | 3 | 0 | 2 | 5 | 2 | 251 | 1 | 254 | 16 | 1 | 22 | 39 | 2 | 113 | 2 | 117 | 415 |
| Total Volume | 25 | 1 | 13 | 39 | 4 | 1158 | 10 | 1172 | 96 | 1 | 95 | 192 | 16 | 542 | 10 | 568 | 1971 |
| \% App. Total | 64.1 | 2.6 | 33.3 |  | 0.3 | 98.8 | 0.9 |  | 50 | 0.5 | 49.5 |  | 2.8 | 95.4 | 1.8 |  |  |
| PHF | . 568 | . 250 | . 464 | . 813 | . 500 | . 922 | 500 | . 921 | . 667 | . 250 | . 792 | . 727 | . 444 | . 886 | . 833 | . 861 | . 899 |

# Peggy Malone \& Associates <br> (888) 247-8602 

File Name : 1-Progress Blvd and US 441 PM
Site Code :
Start Date : 10/3/2018
Page No :1
Groups Printed- Truck

|  | NW 119th Ter Southbound |  |  |  |  | NW US 441 <br> Westbound |  |  |  |  | Progress Blvd Northbound |  |  |  |  | NW US 441 Eastbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| 04:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 10 |
| 04:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 | 13 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 7 | 23 |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 0 | 0 | 13 | 19 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 1 | 0 | 9 | 0 | 0 | 9 | 13 |
| 05:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 5 | 1 | 0 | 0 | 0 | 1 | 0 | 3 | 0 | 0 | 3 | 9 |
| 05:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 9 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 0 | 0 | 19 | 2 | 0 | 0 | 0 | 2 | 0 | 29 | 0 | 0 | 29 | 50 |


| 06:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 06:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 4 |
| Grand Total | 0 | 0 | 0 | 0 | 0 | 0 | 41 | 0 | 0 | 41 | 2 | 0 | 0 | 0 | 2 | 0 | 37 | 0 | 0 | 37 | 80 |
| Apprch \% | 0 | 0 | 0 | 0 |  | 0 | 100 | 0 | 0 |  | 100 | 0 | 0 | 0 |  | 0 | 100 | 0 | 0 |  |  |
| Total \% | 0 | 0 | 0 | 0 | 0 | 0 | 51.2 | 0 | 0 | 51.2 | 2.5 | 0 | 0 | 0 | 2.5 | 0 | 46.2 | 0 | 0 | 46.2 |  |


|  | NW 119th Ter Southbound |  |  |  | NW US 441 <br> Westbound |  |  |  | Progress Blvd Northbound |  |  |  | NW US 441 Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Int. Total |
| Peak Hour Analysis From 04:30 PM to 06:15 PM - Peak 1 of 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Peak Hour for Entire Intersection Begins at 04:30 PM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 04:30 PM | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 10 |
| 04:45 PM | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 6 | 13 |
| 05:00 PM | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 13 | 0 | 13 | 19 |
| 05:15 PM | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 1 | 0 | 0 | 1 | 0 | 9 | 0 | 9 | 13 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 25 | 0 | 25 | 1 | 0 | 0 | 1 | 0 | 29 | 0 | 29 | 55 |
| \% App. Total | 0 | 0 | 0 |  | 0 | 100 | 0 |  | 100 | 0 | 0 |  | 0 | 100 | 0 |  |  |
| PHF | . 000 | . 000 | . 000 | . 000 | . 000 | . 694 | . 000 | . 694 | . 250 | . 000 | . 000 | . 250 | . 000 | . 558 | . 000 | . 558 | . 724 |

# Peggy Malone \& Associates <br> (888) 247-8602 

File Name : 1-Progress Blvd and US 441 PM
Site Code :
Start Date : 10/3/2018
Page No : 1
Groups Printed- Combined

|  | NW 119th Ter Southbound |  |  |  |  | NW US 441 <br> Westbound |  |  |  |  | Progress Blvd Northbound |  |  |  |  | NW US 441 Eastbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| 04:30 PM | 9 | 0 | 10 | 0 | 19 | 0 | 275 | 2 | 0 | 277 | 17 | 0 | 23 | 0 | 40 | 3 | 105 | 5 | 0 | 113 | 449 |
| 04:45 PM | 7 | 1 | 6 | 0 | 14 | 0 | 242 | 2 | 0 | 244 | 16 | 1 | 17 | 0 | 34 | 3 | 108 | 2 | 0 | 113 | 405 |
| Total | 16 | 1 | 16 | 0 | 33 | 0 | 517 | 4 | 0 | 521 | 33 | 1 | 40 | 0 | 74 | 6 | 213 | 7 | 0 | 226 | 854 |
| 05:00 PM | 8 | 0 | 4 | 0 | 12 | 0 | 320 | 2 | 0 | 322 | 36 | 0 | 30 | 1 | 67 | 3 | 162 | 2 | 0 | 167 | 568 |
| 05:15 PM | 3 | 1 | 7 | 0 | 11 | 0 | 285 | 2 | 0 | 287 | 21 | 0 | 17 | 0 | 38 | 9 | 162 | 3 | 0 | 174 | 510 |
| 05:30 PM | 11 | 0 | 0 | 0 | 11 | 2 | 316 | 5 | 0 | 323 | 25 | 0 | 26 | 0 | 51 | 2 | 130 | 3 | 0 | 135 | 520 |
| 05:45 PM | 3 | 0 | 2 | 0 | 5 | 2 | 256 | 1 | 0 | 259 | 16 | 1 | 22 | 0 | 39 | 2 | 117 | 2 | 0 | 121 | 424 |
| Total | 25 | 1 | 13 | 0 | 39 | 4 | 1177 | 10 | 0 | 1191 | 98 | 1 | 95 | 1 | 195 | 16 | 571 | 10 | 0 | 597 | 2022 |


| 06:00 PM | 3 | 0 | 1 | 0 | 4 | 0 | 262 | 0 | 0 | 262 | 15 | 0 | 35 | 0 | 50 | 1 | 117 | 2 | 0 | 120 | 436 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 06:15 PM | 2 | 0 | 2 | 0 | 4 | 0 | 200 | 1 | 0 | 201 | 10 | 0 | 13 | 0 | 23 | 2 | 101 | 3 | 0 | 106 | 334 |
| Grand Total | 46 | 2 | 32 | 0 | 80 | 4 | 2156 | 15 | 0 | 2175 | 156 | 2 | 183 | 1 | 342 | 25 | 1002 | 22 | 0 | 1049 | 3646 |
| Apprch \% | 57.5 | 2.5 | 40 | 0 |  | 0.2 | 99.1 | 0.7 | 0 |  | 45.6 | 0.6 | 53.5 | 0.3 |  | 2.4 | 95.5 | 2.1 | 0 |  |  |
| Total \% | 1.3 | 0.1 | 0.9 | 0 | 2.2 | 0.1 | 59.1 | 0.4 | 0 | 59.7 | 4.3 | 0.1 | 5 | 0 | 9.4 | 0.7 | 27.5 | 0.6 | 0 | 28.8 |  |


|  | NW 119th Ter Southbound |  |  |  | NW US 441 <br> Westbound |  |  |  | Progress Blvd Northbound |  |  |  | NW US 441 Eastbound |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Int. Total |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Peak Hour for Entire Intersection Begins at 05:00 PM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 05:00 PM | 8 | 0 | 4 | 12 | 0 | 320 | 2 | 322 | 36 | 0 | 30 | 66 | 3 | 162 | 2 | 167 | 567 |
| 05:15 PM | 3 | 1 | 7 | 11 | 0 | 285 | 2 | 287 | 21 | 0 | 17 | 38 | 9 | 162 | 3 | 174 | 510 |
| 05:30 PM | 11 | 0 | 0 | 11 | 2 | 316 | 5 | 323 | 25 | 0 | 26 | 51 | 2 | 130 | 3 | 135 | 520 |
| 05:45 PM | 3 | 0 | 2 | 5 | 2 | 256 | 1 | 259 | 16 | 1 | 22 | 39 | 2 | 117 | 2 | 121 | 424 |
| Total Volume | 25 | 1 | 13 | 39 | 4 | 1177 | 10 | 1191 | 98 | 1 | 95 | 194 | 16 | 571 | 10 | 597 | 2021 |
| \% App. Total | 64.1 | 2.6 | 33.3 |  | 0.3 | 98.8 | 0.8 |  | 50.5 | 0.5 | 49 |  | 2.7 | 95.6 | 1.7 |  |  |
| PHF | . 568 | . 250 | . 464 | . 813 | . 500 | . 920 | . 500 | . 922 | . 681 | . 250 | . 792 | . 735 | . 444 | . 881 | 833 | . 858 | . 891 |

## Rachael Blvd at NW 140th Street

## Turn Count Summary

## Location: FL-235 at Rachael Blvd, Alachua FL <br> GPS Coordinates: Lat=29.786539, Lon=-82.494180 <br> Date: 2018-10-16 <br> Day of week: Tuesday <br> Weather: <br> Analyst: Fabio Sasahara

## Total vehicle traffic

| Interval starts | SouthBound |  |  | Westbound |  |  | Northbound |  |  | Eastbound |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |  |
| 06:45 | 12 | 51 | 0 | 6 | 6 | 4 | 1 | 51 | 47 | 0 | 0 | 0 | 178 |
| 07:00 | 14 | 91 | 0 | 9 | 2 | 4 | 3 | 77 | 44 | 0 | 3 | 1 | 248 |
| 07:15 | 13 | 119 | 0 | 17 | 2 | 3 | 4 | 102 | 72 | 0 | 1 | 4 | 337 |
| 07:30 | 13 | 119 | 1 | 9 | 1 | 1 | 2 | 115 | 91 | 0 | 1 | 3 | 356 |
| 07:45 | 27 | 100 | 0 | 9 | 2 | 3 | 7 | 126 | 86 | 0 | 3 | 3 | 366 |
| 08:00 | 20 | 95 | 1 | 11 | 1 | 5 | 6 | 86 | 75 | 0 | 4 | 3 | 307 |
| 08:15 | 17 | 70 | 2 | 12 | 2 | 3 | 1 | 68 | 66 | 0 | 4 | 2 | 247 |
| 08:30 | 5 | 86 | 0 | 10 | 2 | 4 | 3 | 84 | 30 | 0 | 0 | 1 | 225 |
| 08:45 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| $\begin{aligned} & -8: 00 \mathrm{AM} \\ & \text { Car traffi } \end{aligned}$ |  | 429 | 1 | 44 | 7 | 11 | 16 | 420 | 293 | 0 | 8 | 11 |  |


| Interval starts | SouthBound |  |  | Westbound |  |  | Northbound |  |  | Eastbound |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |  |
| 06:45 | 12 | 46 | 0 | 6 | 6 | 3 | 0 | 36 | 46 | 0 | 0 | 0 | 155 |
| 07:00 | 14 | 81 | 0 | 9 | 2 | 4 | 2 | 66 | 43 | 0 | 3 | 1 | 225 |
| 07:15 | 13 | 104 | 0 | 16 | 2 | 3 | 4 | 90 | 71 | 0 | 1 | 4 | 308 |
| 07:30 | 13 | 99 | 1 | 9 | 1 | 1 | 2 | 109 | 82 | 0 | 1 | 3 | 321 |
| 07:45 | 27 | 72 | 0 | 9 | 2 | 2 | 7 | 110 | 80 | 0 | 3 | 3 | 315 |
| 08:00 | 20 | 76 | 1 | 9 | 1 | 5 | 5 | 72 | 70 | 0 | 4 | 3 | 266 |
| 08:15 | 17 | 55 | 2 | 8 | 2 | 3 | 1 | 60 | 64 | 0 | 3 | 2 | 217 |
| 08:30 | 5 | 67 | 0 | 8 | 2 | 3 | 3 | 67 | 27 | 0 | 0 | 1 | 183 |
| 08:45 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |

## Truck traffic

| Interval starts | SouthBound |  |  | Westbound |  |  | Northbound |  |  | Eastbound |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |  |
| 06:45 | 0 | 5 | 0 | 0 | 0 | 1 | 1 | 15 | 0 | 0 | 0 | 0 | 22 |
| 07:00 | 0 | 10 | 0 | 0 | 0 | 0 | 1 | 11 | 1 | 0 | 0 | 0 | 23 |
| 07:15 | 0 | 14 | 0 | 1 | 0 | 0 | 0 | 12 | 1 | 0 | 0 | 0 | 28 |
| 07:30 | 0 | 19 | 0 | 0 | 0 | 0 | 0 | 6 | 7 | 0 | 0 | 0 | 32 |
| 07:45 | 0 | 28 | 0 | 0 | 0 | 1 | 0 | 16 | 6 | 0 | 0 | 0 | 51 |
| 08:00 | 0 | 19 | 0 | 1 | 0 | 0 | 1 | 14 | 5 | 0 | 0 | 0 | 40 |
| 08:15 | 0 | 15 | 0 | 4 | 0 | 0 | 0 | 7 | 2 | 0 | 0 | 0 | 28 |
| 08:30 | 0 | 19 | 0 | 2 | 0 | 1 | 0 | 17 | 2 | 0 | 0 | 0 | 41 |
| 08:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |

Bicycle traffic

| Interval starts | SouthBound |  |  | Westbound |  |  | Northbound |  |  | Eastbound |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |  |
| 06:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 07:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:15 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 07:30 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 3 |
| 07:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:00 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 08:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 2 |
| 08:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 08:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Pedestrian volumes

| Interval starts | NE |  |  | NW |  |  | SW |  |  | SE |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Left | Right | Total | Left | Right | Total | Left | Right | Total | Left | Right | Total |  |
| 06:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:15 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 07:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| 08:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:30 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |
| 08:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

## Intersection Peak Hour

07:15-08:15

|  |  | uthBound |  |  | stbound |  |  | rthbou |  |  | stboun |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |  |
| Vehicle Total | 73 | 433 | 2 | 46 | 6 | 12 | 19 | 429 | 324 | 0 | 9 | 13 | 1366 |
| Factor | 0.68 | 0.91 | 0.50 | 0.68 | 0.75 | 0.60 | 0.68 | 0.85 | 0.89 | 0.00 | 0.56 | 0.81 | 0.93 |
| Approach Factor | 0.95 |  |  | 0.73 |  |  | 0.88 |  |  | 0.79 |  |  |  |

## Peak Hour Vehicle Summary

| Vehicle | SouthBound |  |  | Westbound |  |  | Northbound |  |  | Eastbound |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |  |
| Car | 73 | 351 | 2 | 43 | 6 | 11 | 18 | 381 | 303 | 0 | 9 | 13 | 1210 |
| Truck | 0 | 80 | 0 | 2 | 0 | 1 | 1 | 48 | 19 | 0 | 0 | 0 | 151 |
| Bicycle | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 5 |

## Peak Hour Pedestrians

|  | NE |  |  | NW |  |  | SW |  |  | SE |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Left | Right | Total | Left | Right | Total | Left | Right | Total | Left | Right | Total |  |
|  | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 |

## Intersection Peak Hour

Location: $\quad$ FL-235 at Rachael Blvd, Alachua FL
GPS Coordinates: Lat=29.786539, Lon=-82.494180
Date: 2018-10-16
Day of week: Tuesday
Weather:
Analyst: Fabio Sasahara


## Intersection Peak Hour

07:15-08:15

|  |  | uthBoun |  |  | stbound |  |  | thbou |  |  | stbound |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |  |
| Vehicle Total | 73 | 433 | 2 | 46 | 6 | 12 | 19 | 429 | 324 | 0 | 9 | 13 | 1366 |
| Factor | 0.68 | 0.91 | 0.50 | 0.68 | 0.75 | 0.60 | 0.68 | 0.85 | 0.89 | 0.00 | 0.56 | 0.81 | 0.93 |
| Approach Factor | 0.95 |  |  | 0.73 |  |  | 0.88 |  |  | 0.79 |  |  |  |

## Turn Count Summary

| Location: | NW 140th ST at Rachael Blvd, Alachua, FI |
| :--- | :--- |
| GPS Coordinates: | Lat=29.786775, Lon $=-82.494098$ |
| Date: | 2018-10-16 |
| Day of week: | Tuesday |
| Weather: | Sunny |
| Analyst: | Tejas Thyagaraja |
| Total vehicle traffic |  |


| Interval starts | SouthBound |  |  | Westbound |  |  | Northbound |  |  | Eastbound |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |  |
| 16:45 | 7 | 96 | 0 | 34 | 6 | 14 | 4 | 93 | 16 | 0 | 3 | 2 | 275 |
| 17:00 | 5 | 112 | 1 | 44 | 6 | 8 | 2 | 112 | 19 | 0 | 1 | 6 | 316 |
| 17:15 | 3 | 93 | 2 | 33 | 14 | 17 | 1 | 96 | 25 | 1 | 2 | 2 | 289 |
| 17:30 | 3 | 89 | 0 | 36 | 18 | 11 | 4 | 91 | 20 | 0 | 7 | 3 | 282 |
| 17:45 | 5 | 101 | 2 | 36 | 7 | 11 | 2 | 100 | 18 | 0 | 4 | 2 | 288 |
| 18:00 | 4 | 94 | 1 | 31 | 11 | 13 | 0 | 67 | 11 | 1 | 2 | 0 | 235 |
| 18:15 | 5 | 72 | 0 | 24 | 7 | 6 | 0 | 59 | 15 | 0 | 3 | 3 | 194 |
| 18:30 | 6 | 64 | 0 | 19 | 11 | 8 | 1 | 63 | 8 | 0 | 2 | 3 | 185 |
| 6:00 PM | $16$ | $395$ | 5 | 149 | 45 | 47 | 9 | 399 | 82 | 1 | 14 | 13 |  |


| Interval starts | SouthBound |  |  | Westbound |  |  | Northbound |  |  | Eastbound |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |  |
| 16:45 | 7 | 85 | 0 | 31 | 6 | 14 | 4 | 84 | 16 | 0 | 3 | 2 | 252 |
| 17:00 | 5 | 110 | 1 | 44 | 6 | 8 | 2 | 105 | 19 | 0 | 1 | 6 | 307 |
| 17:15 | 3 | 92 | 2 | 33 | 14 | 17 | 1 | 93 | 25 | 1 | 2 | 2 | 285 |
| 17:30 | 3 | 85 | 0 | 36 | 18 | 11 | 4 | 87 | 18 | 0 | 7 | 3 | 272 |
| 17:45 | 5 | 98 | 2 | 36 | 7 | 11 | 2 | 96 | 18 | 0 | 4 | 2 | 281 |
| 18:00 | 4 | 91 | 1 | 31 | 11 | 13 | 0 | 65 | 11 | 1 | 2 | 0 | 230 |
| 18:15 | 5 | 69 | 0 | 24 | 7 | 6 | 0 | 57 | 15 | 0 | 3 | 3 | 189 |
| 18:30 | 6 | 61 | 0 | 19 | 11 | 8 | 1 | 63 | 8 | 0 | 2 | 3 | 182 |

Truck traffic

| Interval starts | SouthBound |  |  | Westbound |  |  | Northbound |  |  | Eastbound |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |  |
| 16:45 | 0 | 11 | 0 | 3 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 23 |
| 17:00 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 9 |
| 17:15 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 4 |
| 17:30 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | 0 | 0 | 0 | 10 |
| 17:45 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 7 |
| 18:00 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 5 |
| 18:15 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 5 |
| 18:30 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |

## Bicycle traffic

| Interval starts | SouthBound |  |  | Westbound |  |  | Northbound |  |  | Eastbound |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |  |
| 16:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Pedestrian volumes

| Interval starts | NE |  |  | NW |  |  | SW |  |  | SE |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Left | Right | Total | Left | Right | Total | Left | Right | Total | Left | Right | Total |  |
| 16:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:30 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 17:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

## Intersection Peak Hour

17:00-18:00

|  |  | thBo |  |  | stboun |  |  | rthbou |  |  | stboun |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |  |
| Vehicle Total | 16 | 395 | 5 | 149 | 45 | 47 | 9 | 399 | 82 | 1 | 14 | 13 | 1175 |
| Factor | 0.80 | 0.88 | 0.62 | 0.85 | 0.62 | 0.69 | 0.56 | 0.89 | 0.82 | 0.25 | 0.50 | 0.54 | 0.93 |
| Approach Factor | 0.88 |  |  | 0.93 |  |  | 0.92 |  |  | 0.70 |  |  |  |

## Peak Hour Vehicle Summary

| Vehicle | SouthBound |  |  | Westbound |  |  | Northbound |  |  | Eastbound |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |  |
| Car | 16 | 385 | 5 | 149 | 45 | 47 | 9 | 381 | 80 | 1 | 14 | 13 | 1145 |
| Truck | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 18 | 2 | 0 | 0 | 0 | 30 |
| Bicycle | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

## Peak Hour Pedestrians

|  | NE |  |  | NW |  |  | SW |  |  | SE |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Left | Right | Total | Left | Right | Total | Left | Right | Total | Left | Right | Total |  |
|  | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |

## Intersection Peak Hour

Location: NW 140th ST at Rachael Blvd, Alachua, FI
GPS Coordinates: Lat=29.786775, Lon=-82.494098
Date: 2018-10-16
Day of week: Tuesday
Weather: Sunny
Analyst: Tejas Thyagaraja


## Intersection Peak Hour

17:00-18:00

|  |  | uthBoun |  |  | stbound |  |  | thbou |  |  | stbound |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right | Left | Thru | Right |  |
| Vehicle Total | 16 | 395 | 5 | 149 | 45 | 47 | 9 | 399 | 82 | 1 | 14 | 13 | 1175 |
| Factor | 0.80 | 0.88 | 0.62 | 0.85 | 0.62 | 0.69 | 0.56 | 0.89 | 0.82 | 0.25 | 0.50 | 0.54 | 0.93 |
| Approach Factor | 0.88 |  |  | 0.93 |  |  | 0.92 |  |  | 0.70 |  |  |  |

Appendix C: Background Data

```
2017 PEAK SEASON FACTOR CATEGORY REPORT - REPORT TYPE: ALL
``` CATEGORY: 2600 ALACHUA COUNTYWIDE


\section*{ALACHUA CITY LTRP GROWTH RATES}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline ID & Map ID - FL LOS Report 2014 & Location & growth rate \% & K Factor & 2015 Peak Hour & 2015 AADT & 2036 Peak Hour & 2036 AADT & AADT growth factor \\
\hline 32 & & 1-75 from US 441 to CR 236 & 1.7 & 0.105 & 4463 & 42505 & 6056 & 57676 & 1.357 \\
\hline 31 & & \(1-75\) from SR 222 to US 441 & 1.6 & 0.105 & 5930 & 56476 & 7922 & 75448 & 1.336 \\
\hline 4127 & 17 & US 441 from SR 121 to CR 25A & 1.7 & 0.09 & 1890 & 21000 & 2565 & 28500 & 1.357 \\
\hline 4107 & 14 & US 441 from l-75 to NW 173rd St & 1.0 & 0.095 & 2319 & 24411 & 2805 & 29526 & 1.210 \\
\hline 14 & 13 & US 441 from NW 173rd St to E City Limit for High Springs & 1.1 & 0.095 & 1834 & 19305 & 2258 & 23768 & 1.231 \\
\hline 107 & 15 & US 441 from SR 235 tol-75 & 1.3 & 0.095 & 1882 & 19811 & \(\sum 2396\) & 25221 & 1.273 \\
\hline 106 & 16 & US 441 from CR 25A to SR 235 & 1.6 & 0.095 & 1643 & <17295 & 2195 & 23105 & 1.336 \\
\hline 108 & 136 & SR 235 from CR 2054 to US 441 (south of 441) & 1.0 & 0.095 & 950 & 10000 & 1149 & 12095 & 1.210 \\
\hline 109 & 137 & SR 241 from US 441 to NW 159th Pl (north of 441) & 1.4 & 0.095 & 588 & C6189 & \(\sum 761\) & 8011 & 1.294 \\
\hline 4109 & 138 & SR 241 from NW 159th Place to E City Limit (north of 441) & 1.3 & 0.095 & 352 & 3705 & 448 & 4716 & 1.273 \\
\hline A & N/A & NW 140th St: 4,000' North of I-75 & 1.0 & 0.095 & 417 & C4390 & \(\rangle 509\) & 5355 & 1.220 \\
\hline B & N/A & NW 143rd St: 1,000' North of NW 78th Ave & 1.6 & 0.095 & 527 & 5546 & 704 & 7409 & 1.336 \\
\hline C & N/A & NW 143rd St: 1,200' North of 94th Ave & 1.0 & 0.095 & 433 & 4560 & 524 & 5518 & 1.210 \\
\hline D & N/A & NW 143rd St: 1,700 ' South of NW Millhopper Rd & 1.6 & 0.095 & 846 & 8904 & 1130 & 11896 & 1.336 \\
\hline E & N/A & NW 143rd St: \(4,000^{\prime}\) North of NW Millhopper Rd & 1.6 & 0.095 & 827 & 8710 & 1106 & 11637 & 1.336 \\
\hline F & N/A & NW 173rd St: 750' South of US 441 & 2.7 & 0.095 & 359 & 3780 & 563 & 5923 & 1.567 \\
\hline G & N/A & NW CR 235: 470' South of NW CR235A & 2.7 & 0.095 & 491 & 5165 & 769 & 8094 & 1.567 \\
\hline H & N/A & NW CR 235: 570' North of NW CR235A & 2.7 & 0.095 & 417 & - 4390 & \(\sum 654\) & 6879 & 1.567 \\
\hline & N/A & NW CR 235: 1,000' South of NW 78th Ave & 2.7 & 0.095 & 378 & 3977 & 592 & 6232 & 1.567 \\
\hline & N/A & NW CR 235: 770' South of NW 46th Ave & 2.7 & 0.095 & 282 & 2965 & 441 & 4646 & 1.567 \\
\hline K & N/A & NW CR 235A: 2,400' North of US 441 & 2.7 & 0.095 & 136 & 1428 & 213 & 2237 & 1.567 \\
\hline L & N/A & Peggy Rd: 1,700' East of 1-75 & 1.0 & 0.095 & 84 & 879 & 102 & 1072 & 1.220 \\
\hline M & N/A & Peggy Rd: 2,750' East of CR 235A & 1.0 & 0.095 & 80 & C 840 & \(\sum 97\) & 1024 & 1.219 \\
\hline N & N/A & Peggy Rd: 400' West of NW 142 Ter & 1.0 & 0.095 & 97 & 1026 & 119 & 1252 & 1.220 \\
\hline 0 & N/A & CR 2054 (Peggy Rd): 550' East of NW CR 235A & 2.6 & 0.095 & 160 & 1686 & 247 & 2607 & 1.546 \\
\hline P/ & N/A & CR 2054 (Rachael Blvd): 2,750 ' West of US HWY 441 & 1.0 & 0.095 & 205 & 2161 & 250 & 2636 & 1.220 \\
\hline
\end{tabular}

Counts used for Roadway Segment Analysis are shown in red
Growth factors used for Intersection Analysis are shown in green
\begin{tabular}{llll} 
COUNTY: & 26 \\
STATION: & 5027 \\
DESCRIPTION: & SR 20 SE OF SR 235 \\
START DATE: & \(05 / 31 / 2017\) & \\
START TIME: & 0000 &
\end{tabular}


\footnotetext{
GENERATED BY SPS 5.0.53P
}

Direction: North/South Counter Number: 16210 Installed By: Kevin

Alachua County Public Works
5620 NW 120 LN
Gainesville, FL 32653
Station ID: 1-241-7-1 Date Start: 14-Feb-17 Date End: 16-Feb-17
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|}
\hline Start Time & \[
\begin{gathered}
\text { 14-Feb-17 } \\
\text { Tue } \\
\hline
\end{gathered}
\] & North & South & & & & & & & Total \\
\hline 12:00 AM & & 1 & 1 & & & & & & & 2 \\
\hline 12:15 & & 4 & 4 & & & & & & & 8 \\
\hline 12:30 & & 2 & 0 & & & & & & & 2 \\
\hline 12:45 & & 0 & 0 & & & & & & & 0 \\
\hline 01:00 & & 2 & 3 & & & & & & & 5 \\
\hline 01:15 & & 1 & 0 & & & & & & & 1 \\
\hline 01:30 & & 2 & 1 & & & & & & & 3 \\
\hline 01:45 & & 2 & 1 & & & & & & & 3 \\
\hline 02:00 & & 0 & 0 & & & & & & & 0 \\
\hline 02:15 & & 2 & 1 & & & & & & & 3 \\
\hline 02:30 & & 1 & 1 & & & & & & & 2 \\
\hline 02:45 & & 0 & 0 & & & & & & & 0 \\
\hline 03:00 & & 0 & 2 & & & & & & & 2 \\
\hline 03:15 & & 3 & 0 & & & & & & & 3 \\
\hline 03:30 & & 2 & 0 & & & & & & & 2 \\
\hline 03:45 & & 1 & 3 & & & & & & & 4 \\
\hline 04:00 & & 1 & 1 & & & & & & & 2 \\
\hline 04:15 & & 1 & 1 & & & & & & & 2 \\
\hline 04:30 & & 0 & 1 & & & & & & & 1 \\
\hline 04:45 & & 9 & 3 & & & & & & & 12 \\
\hline 05:00 & & 5 & 2 & & & & & & & 7 \\
\hline 05:15 & & 4 & 2 & & & & & & & 6 \\
\hline 05:30 & & 9 & 6 & & & & & & & 15 \\
\hline 05:45 & & 12 & 8 & & & & & & & 20 \\
\hline 06:00 & & 25 & 14 & & & & & & & 39 \\
\hline 06:15 & & 19 & 15 & & & & & & & 34 \\
\hline 06:30 & & 36 & 19 & & & & & & & 55 \\
\hline 06:45 & & 35 & 29 & & & & & & & 64 \\
\hline 07:00 & & 66 & 33 & & & & & & & 99 \\
\hline 07:15 & & 59 & 42 & & & & & & & 101 \\
\hline 07:30 & & 50 & 50 & & & & & & & 100 \\
\hline 07:45 & & 49 & 35 & & & & & & & 84 \\
\hline 08:00 & & 72 & 51 & & & & & & & 123 \\
\hline 08:15 & & 53 & 34 & & & & & & & 87 \\
\hline 08:30 & & 41 & 47 & & & & & & & 88 \\
\hline 08:45 & & 52 & 45 & & & & & & & 97 \\
\hline 09:00 & & 35 & 26 & & & & & & & 61 \\
\hline 09:15 & & 23 & 34 & & & & & & & 57 \\
\hline 09:30 & & 28 & 16 & & & & & & & 44 \\
\hline 09:45 & & 29 & 34 & & & & & & & 63 \\
\hline 10:00 & & 26 & 28 & & & & & & & 54 \\
\hline 10:15 & & 33 & 28 & & & & & & & 61 \\
\hline 10:30 & & 36 & 29 & & & & & & & 65 \\
\hline 10:45 & & 26 & 28 & & & & & & & 54 \\
\hline 11:00 & & 38 & 34 & & & & & & & 72 \\
\hline 11:15 & & 21 & 34 & & & & & & & 55 \\
\hline 11:30 & & 42 & 34 & & & & & & & 76 \\
\hline 11:45 & & 35 & 28 & & & & & & & 63 \\
\hline Total & & 993 & 808 & & & & & & & 1801 \\
\hline Percent & & 55.1\% & 44.9\% & & & & & & & \\
\hline Peak & - & 07:15 & 07:15 & - & - & - & - & - & - & 07:15 \\
\hline Vol. & - & 230 & 178 & - & - & - & - & - & - & 408 \\
\hline P.H.F. & & 0.799 & 0.873 & & & & & & & 0.829 \\
\hline
\end{tabular}

Direction: North/South Counter Number: 16210 Installed By: Kevin

Alachua County Public Works
5620 NW 120 LN
Gainesville, FL 32653

Station ID: 1-241-7-1 Date Start: 14-Feb-17 Date End: 16-Feb-17


Toten 4819

\section*{Appendix D: Background and Build-out Calculations}

\begin{tabular}{ccc} 
AADT NW 140th St & 4819 & \\
7-7 Total Trips NW 140th St & 4018 & \\
Percent of 7-7 trips & \(83.38 \%\) & [C \\
& & \\
AADT Rachel Blvd & 3900 & \\
(AADT X 83\%)7-7 Total Trips Racheal Blvd & 3252 &
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|}
\hline \multicolumn{3}{|l|}{Percentage Calculations - Total Rachel Blvd} & \multirow[b]{2}{*}{[D]} & & \\
\hline \multicolumn{2}{|c|}{Total Trips 7-7 Total minus 7AM \& 5PM Volume per hour} & \[
\begin{gathered}
3252 \\
2469 \\
247
\end{gathered}
\] & & & \\
\hline \multicolumn{3}{|l|}{Percentage Calculations - Turning Movements AM} & \multicolumn{3}{|l|}{\begin{tabular}{l}
Percentage Calculations - \\
Turning Movements PM
\end{tabular}} \\
\hline WB & \[
\begin{array}{ll}
\hline W B L & \\
& \text { WBT } \\
& {[\mathrm{D}]} \\
\hline
\end{array}
\] & \[
\begin{aligned}
& \hline 70.97 \% \\
& 11.29 \% \\
& 17.74 \% \\
& \hline
\end{aligned}
\] & \[
\begin{aligned}
& \text { WB } \\
& {[\mathrm{D}]}
\end{aligned}
\] & \[
\begin{aligned}
& \hline W B L \\
& W B T \\
& W B R
\end{aligned}
\] & \[
\begin{aligned}
& \hline 61.83 \% \\
& 18.67 \% \\
& \text { 19.50\% } \\
& \hline
\end{aligned}
\] \\
\hline EB & \[
\begin{array}{ll}
\hline S B L & \\
N B R & {[\mathrm{D}]} \\
E B T
\end{array}
\] & \[
\begin{gathered}
\hline 18.21 \% \\
79.62 \% \\
2.17 \%
\end{gathered}
\] & EB
\([\mathrm{D}]\) & \[
\begin{gathered}
\hline S B L \\
N B R \\
E B T
\end{gathered}
\] & \[
\begin{aligned}
& \hline 14.29 \% \\
& 73.21 \% \\
& 12.50 \%
\end{aligned}
\] \\
\hline
\end{tabular}
\begin{tabular}{c|r|r|}
\multirow{2}{*}{ Interval Starts } & \multicolumn{2}{|c|}{ Rerouted HWY Rachael Blvd Trips to San Felasco } \\
\cline { 2 - 3 } & \multicolumn{2}{|c|}{ WBL } \\
NBR \\
\hline \(7: 00: 00 \mathrm{AM}\) & 22 & 147 \\
\hline 8:00:00 AM & 13 & 84 \\
\hline \(9: 00: 00 \mathrm{AM}\) & 13 & 84 \\
\hline 10:00:00 AM & 13 & 84 \\
\hline 11:00:00 AM & 13 & 84 \\
\hline 12:00:00 PM & 13 & 84 \\
\hline 1:00:00 PM & 52 & 29 \\
\hline \(2: 00: 00 \mathrm{PM}\) & 52 & 29 \\
\hline 3:00:00 PM & 52 & 29 \\
\hline \(4: 00: 00 \mathrm{PM}\) & 52 & 29 \\
\hline \(5: 00: 00 \mathrm{PM}\) & 75 & 41 \\
\hline \(6: 00: 00 \mathrm{PM}\) & 52 & 29 \\
\hline & & \\
\hline \(4: 45\) to 5:45 PM & 74 & 40 \\
\hline
\end{tabular}

Goal: Estimate the volume of trips that will be rerouted from Rachael BLVD. to San Felasco

Step 1: Determine the total trips on Rachael BLVD. during the 7:00 AM and 5:00 PM peak hours based on the turning movement count \([\mathrm{A}]\) and determine the \(A M\) and \(P M\) directional distribution [B]

Step 2: Use the NW 140th St. 24-hour count from Appendix C to estimate the percentage o 7AM-7PM trips to the total daily trips. [C]

Step 3: Multiply the Rachael BLVD. daily trips by the percentage of 7AM - 7PM, subtract the peak hour volumes and divide by 10 to derive the average vehicles per hour throughout the day.

Step 4: Apply the directional distribution percentage and movement percentages to the total Rachael BLVD. vehicles per hour to determine the movement vehicles per hour throughout the day.

Step 5: Divide the estimated westbound left-turn and northbound right turns by 2 to determine the hourly volume of trips that will be rerouted to San Felasco.

```

7-7 Total Trips HWY $441 \quad 17644$ [C]

```
\begin{tabular}{|c|c|c|c|c|c|}
\hline \multicolumn{3}{|l|}{Percentage Calculations - Total HWY
\[
441
\]} & \multicolumn{3}{|l|}{\multirow[t]{2}{*}{}} \\
\hline \multicolumn{2}{|l|}{Total Trips
Total minus 7AM \& 5PM
Volume per hour} & \[
\begin{gathered}
\hline 17644 \\
13979 \\
1398
\end{gathered}
\] & & & \\
\hline \multicolumn{3}{|l|}{Percentage Calculations - Turning Movements AM} & \multicolumn{3}{|l|}{Percentage Calculations Turning Movements PM} \\
\hline WB & WBL WBT WBR & \[
\begin{gathered}
\hline 23.65 \% \\
68.95 \% \\
7.40 \%
\end{gathered}
\] & WB & \[
\begin{aligned}
& \hline W B L \\
& W B T \\
& W B R
\end{aligned}
\] & \[
\begin{gathered}
\hline 13.78 \% \\
78.80 \% \\
7.42 \%
\end{gathered}
\] \\
\hline EB & \[
\begin{gathered}
\hline S B L \\
N B R \\
E B T
\end{gathered}
\] & \[
\begin{gathered}
\hline 11.54 \% \\
5.90 \% \\
82.56 \%
\end{gathered}
\] & EB & \[
\begin{gathered}
\hline S B L \\
N B R \\
E B T
\end{gathered}
\] & \[
\begin{aligned}
& \hline 11.61 \% \\
& 12.95 \% \\
& 75.45 \%
\end{aligned}
\] \\
\hline
\end{tabular}
\begin{tabular}{c|r|r|}
\multirow{2}{*}{ Interval Starts } & \multicolumn{2}{|c|}{ Rerouted HWY 441 Trips to San Felasco } \\
\cline { 2 - 3 } & \multicolumn{2}{|c|}{ WBL } \\
\hline 7:00:00 AM & 33 & 17 \\
\hline \(8: 00: 00 \mathrm{AM}\) & 27 & 14 \\
\hline \(9: 00: 00 \mathrm{AM}\) & 27 & 14 \\
\hline 10:00:00 AM & 27 & 14 \\
\hline 11:00:00 AM & 27 & 14 \\
\hline 12:00:00 PM & 27 & 14 \\
\hline 1:00:00 PM & 32 & 15 \\
\hline 2:00:00 PM & 32 & 15 \\
\hline 3:00:00 PM & 32 & 15 \\
\hline \(4: 00: 00 \mathrm{PM}\) & 32 & 15 \\
\hline 5:00:00 PM & 46 & 22 \\
\hline \(6: 00: 00 \mathrm{PM}\) & 32 & 15 \\
\hline & & \\
\hline \(4: 45\) to 5:45 PM & 46 & 21 \\
\hline
\end{tabular}

\section*{Goal: Estimate the volume of trips that will be rerouted from} HWY 441 to San Felasco

Step 1: Determine the total trips on HWY 441 during the 7:00 AM and 5:00 PM peak hours based on the turning movement count \([\mathrm{A}]\) and determine the AM and PM directional distribution [B]

Step 2: Use the HWY 441 Synopsis data provided in Appendix C to derive the 7AM-7PM vehicles per hour. [C]

Step 3: Subtract the 7 AM and 5 PM vehicles per hour from the 7 AM to 7 PM total and divide by 10 to derive the average vehicles per hour throughout the day.

Step 4: Apply the directional distribution percentage and movement percentages to the total Rachael BLVD. vehicles per hour to determine the movement vehicles per hour throughout the day.

Step 5: Divide the estimated westbound left-turn and northbound right turns by 4 to determine the hourly volume of trips that will be rerouted to San Felasco.

\section*{NW 140th St at NW 128th PI (Existing)- With Rerouted Trips}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{10}{|c|}{Existing Volumes Estimation} \\
\hline \multicolumn{2}{|r|}{\multirow[t]{2}{*}{Interval Starts}} & \multicolumn{2}{|l|}{NW 140th St Southbound} & \multirow[t]{2}{*}{\begin{tabular}{l}
NW 128th PI \\
Westbound \\
Left
\end{tabular}} & \multicolumn{3}{|c|}{NW 140th St Northbound} & \multicolumn{2}{|l|}{NW 128th PI Eastbound} \\
\hline & & Thru & Right & & Left & Thru & Right & Left & Right \\
\hline & 7:00:00 AM & 434 & 1 & 55 & 0 & 257 & 163 & 7 & 4 \\
\hline & 8:00:00 AM & 513 & 1 & 40 & 2 & 259 & 98 & 6 & 2 \\
\hline A & 9:00:00 AM & 390 & 1 & 40 & 0 & 157 & 98 & 1 & 6 \\
\hline & 10:00:00 AM & 206 & 0 & 40 & 2 & 151 & 98 & 1 & 2 \\
\hline & 11:00:00 AM & 152 & 1 & 40 & 0 & 149 & 98 & 1 & 0 \\
\hline & 12:00:00 PM & 169 & 2 & 40 & 1 & 165 & 98 & 3 & 0 \\
\hline & 1:00:00 PM & 133 & 3 & 84 & 2 & 173 & 44 & 0 & 0 \\
\hline & 2:00:00 PM & 161 & 2 & 84 & 1 & 130 & 44 & 1 & 1 \\
\hline PM & 3:00:00 PM & 189 & 5 & 84 & 1 & 195 & 44 & 2 & 2 \\
\hline PM & 4:00:00 PM & 218 & 8 & 84 & 8 & 233 & 44 & 1 & 3 \\
\hline & 5:00:00 PM & 292 & 9 & 120 & 3 & 234 & 63 & 6 & 2 \\
\hline & 6:00:00 PM & 206 & 4 & 84 & 1 & 168 & 44 & 3 & 0 \\
\hline & TOTAL & 3063 & 37 & 795 & 21 & 2271 & 936 & 32 & 22 \\
\hline \multicolumn{2}{|l|}{PM Peak : 4:45-5:45PM} & 294 & 8 & 119 & 3 & 255 & 61 & 5 & 2 \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|}
\hline \multicolumn{2}{|c|}{ Peak Season } & 1.02 \\
\hline \multicolumn{2}{|c|}{ Growth Rate } & Growth Factor \\
\hline 140th St SB & 1.01 & 1.020 \\
140th St NB & 1.01 & 1.020 \\
128th PI WB & 1.01 & 1.020 \\
128th PI EB & 0 & 1.000 \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{10}{|c|}{Peak Season} \\
\hline \multicolumn{2}{|r|}{\multirow[t]{2}{*}{Interval Starts}} & \multicolumn{2}{|l|}{NW 140th St Southbound} & NW 128th PI Westbound & \multicolumn{3}{|l|}{NW 140th St Northbound} & \multicolumn{2}{|l|}{NW 128th PI Eastbound} \\
\hline & & Thru & Right & Left & Left & Thru & Right & Left & Right \\
\hline \multirow{6}{*}{AM} & 7:00:00 AM & 443 & 1 & 56 & 0 & 262 & 166 & 7 & 4 \\
\hline & 8:00:00 AM & 523 & 1 & 41 & 2 & 264 & 100 & 6 & 2 \\
\hline & 9:00:00 AM & 398 & 1 & 41 & 0 & 160 & 100 & 1 & 6 \\
\hline & 10:00:00 AM & 210 & 0 & 41 & 2 & 154 & 100 & 1 & 2 \\
\hline & 11:00:00 AM & 155 & 1 & 41 & 0 & 152 & 100 & 1 & 0 \\
\hline & 12:00:00 PM & 172 & 2 & 41 & 1 & 168 & 100 & 3 & 0 \\
\hline \multirow{6}{*}{PM} & 1:00:00 PM & 136 & 3 & 86 & 2 & 176 & 45 & 0 & 0 \\
\hline & 2:00:00 PM & 164 & 2 & 86 & 1 & 133 & 45 & 1 & 1 \\
\hline & 3:00:00 PM & 193 & 5 & 86 & 1 & 199 & 45 & 2 & 2 \\
\hline & 4:00:00 PM & 222 & 8 & 86 & 8 & 238 & 45 & 1 & 3 \\
\hline & 5:00:00 PM & 298 & 9 & 122 & 3 & 239 & 64 & 6 & 2 \\
\hline & 6:00:00 PM & 210 & 4 & 86 & 1 & 171 & 45 & 3 & 0 \\
\hline & TOTAL & 3124 & 37 & 813 & 21 & 2316 & 955 & 32 & 22 \\
\hline \multicolumn{2}{|l|}{PM Peak : 4:45-5:45PM} & 300 & 8 & 121 & 3 & 260 & 62 & 5 & 2 \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{10}{|c|}{2020 Background} \\
\hline \multicolumn{2}{|r|}{\multirow[t]{2}{*}{Interval Starts}} & \multicolumn{2}{|l|}{NW 140th St Southbound} & \multirow[t]{2}{*}{NW 128th PI Westbound Left} & \multicolumn{3}{|l|}{NW 140th St Northbound} & \multicolumn{2}{|l|}{NW 128th PI Eastbound} \\
\hline & & Thru & Right & & Left & Thru & Right & Left & Right \\
\hline & 7:00:00 AM & 452 & 1 & 57 & 0 & 267 & 169 & 7 & 4 \\
\hline & 8:00:00 AM & 534 & 1 & 42 & 2 & 269 & 102 & 6 & 2 \\
\hline AM & 9:00:00 AM & 406 & 1 & 42 & 0 & 163 & 102 & 1 & 6 \\
\hline AM & 10:00:00 AM & 214 & 0 & 42 & 2 & 157 & 102 & 1 & 2 \\
\hline & 11:00:00 AM & 158 & 1 & 42 & 0 & 155 & 102 & 1 & 0 \\
\hline & 12:00:00 PM & 175 & 2 & 42 & 1 & 171 & 102 & 3 & 0 \\
\hline & 1:00:00 PM & 139 & 3 & 88 & 2 & 180 & 46 & 0 & 0 \\
\hline & 2:00:00 PM & 167 & 2 & 88 & 1 & 136 & 46 & 1 & 1 \\
\hline PM & 3:00:00 PM & 197 & 5 & 88 & 1 & 203 & 46 & 2 & 2 \\
\hline PM & 4:00:00 PM & 226 & 8 & 88 & 8 & 243 & 46 & 1 & 3 \\
\hline & 5:00:00 PM & 304 & 9 & 124 & 3 & 244 & 65 & 6 & 2 \\
\hline & 6:00:00 PM & 214 & 4 & 88 & 1 & 174 & 46 & 3 & 0 \\
\hline & TOTAL & 3186 & 37 & 831 & 21 & 2362 & 974 & 32 & 22 \\
\hline \multicolumn{2}{|l|}{PM Peak : 4:45-5:45PM} & 306 & 8 & 123 & 3 & 265 & 63 & 5 & 2 \\
\hline
\end{tabular}
* Westbound right and and southbound left trips are expected to be minor, estimated at 10 vph .
** Westbound through and eastbound thru trips are expected to be minor, etimated at 0 vph.

NW 140th St at NW 128th PI - 2030 Background
\begin{tabular}{|l|c|c|}
\hline Peak Season & \multicolumn{2}{|r|}{1.02} \\
\hline & Growth Rate & \begin{tabular}{c} 
Growth \\
Factor
\end{tabular} \\
\hline & 1.01 & 1.127 \\
\hline 140th St SB & 1.01 & 1.127 \\
140th St NB & 1.01 & 1.127 \\
128th PI WB & 0 & 1.000 \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{10}{|c|}{Peak Season} \\
\hline \multicolumn{2}{|r|}{\multirow[t]{2}{*}{Interval Starts}} & \multicolumn{2}{|l|}{NW 140th St Southbound} & \multirow[t]{2}{*}{\begin{tabular}{l}
NW 128th PI \\
Westbound \\
Left
\end{tabular}} & \multicolumn{3}{|l|}{NW 140th St Northbound} & \multicolumn{2}{|l|}{NW 128th PI Eastbound} \\
\hline & & Thru & Right & & Left & Thru & Right & Left & Right \\
\hline & 7:00:00 AM & 443 & 1 & 56 & 0 & 262 & 166 & 7 & 4 \\
\hline & 8:00:00 AM & 523 & 1 & 41 & 2 & 264 & 100 & 6 & 2 \\
\hline AM & 9:00:00 AM & 398 & 1 & 41 & 0 & 160 & 100 & 1 & 6 \\
\hline & 10:00:00 AM & 210 & 0 & 41 & 2 & 154 & 100 & 1 & 2 \\
\hline & 11:00:00 AM & 155 & 1 & 41 & 0 & 152 & 100 & 1 & 0 \\
\hline & 12:00:00 PM & 172 & 2 & 41 & 1 & 168 & 100 & 3 & 0 \\
\hline & 1:00:00 PM & 136 & 3 & 86 & 2 & 176 & 45 & 0 & 0 \\
\hline & 2:00:00 PM & 164 & 2 & 86 & 1 & 133 & 45 & 1 & 1 \\
\hline PM & 3:00:00 PM & 193 & 5 & 86 & 1 & 199 & 45 & 2 & 2 \\
\hline PM & 4:00:00 PM & 222 & 8 & 86 & 8 & 238 & 45 & 1 & 3 \\
\hline & 5:00:00 PM & 298 & 9 & 122 & 3 & 239 & 64 & 6 & 2 \\
\hline & 6:00:00 PM & 210 & 4 & 86 & 1 & 171 & 45 & 3 & 0 \\
\hline & TOTAL & 3124 & 37 & 813 & 21 & 2316 & 955 & 32 & 22 \\
\hline \multicolumn{2}{|l|}{PM Peak : 4:45-5:45PM} & 300 & 8 & 121 & 3 & 260 & 62 & 5 & 2 \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{10}{|c|}{2030 Background} \\
\hline \multicolumn{2}{|r|}{\multirow[t]{2}{*}{Interval Starts}} & \multicolumn{2}{|l|}{NW 140th St Southbound} & \multirow[t]{2}{*}{NW 128th PI Westbound Left} & \multicolumn{3}{|l|}{NW 140th St Northbound} & \multicolumn{2}{|l|}{NW 128th PI Eastbound} \\
\hline & & Thru & Right & & Left & Thru & Right & Left & Right \\
\hline & 7:00:00 AM & 499 & 1 & 63 & 0 & 295 & 187 & 7 & 4 \\
\hline & 8:00:00 AM & 589 & 1 & 46 & 2 & 297 & 113 & 6 & 2 \\
\hline AM & 9:00:00 AM & 448 & 1 & 46 & 0 & 180 & 113 & 1 & 6 \\
\hline A & 10:00:00 AM & 237 & 0 & 46 & 2 & 174 & 113 & 1 & 2 \\
\hline & 11:00:00 AM & 175 & 1 & 46 & 0 & 171 & 113 & 1 & 0 \\
\hline & 12:00:00 PM & 194 & 2 & 46 & 1 & 189 & 113 & 3 & 0 \\
\hline & 1:00:00 PM & 153 & 3 & 97 & 2 & 198 & 51 & 0 & 0 \\
\hline & 2:00:00 PM & 185 & 2 & 97 & 1 & 150 & 51 & 1 & 1 \\
\hline PM & 3:00:00 PM & 217 & 6 & 97 & 1 & 224 & 51 & 2 & 2 \\
\hline PM & 4:00:00 PM & 250 & 9 & 97 & 9 & 268 & 51 & 1 & 3 \\
\hline & 5:00:00 PM & 336 & 10 & 137 & 3 & 269 & 72 & 6 & 2 \\
\hline & 6:00:00 PM & 237 & 5 & 97 & 1 & 193 & 51 & 3 & 0 \\
\hline & TOTAL & 3520 & 41 & 915 & 22 & 2608 & 1079 & 32 & 22 \\
\hline \multicolumn{2}{|l|}{PM Peak : 4:45-5:45PM} & 338 & 9 & 136 & 3 & 293 & 70 & 5 & 2 \\
\hline
\end{tabular}

\footnotetext{
* Westbound right and and southbound left trips are expected to be minor, estimated at 10 vph .
** Westbound through and eastbound thru trips are expected to be minor, etimated at 0 vph .
}

NW 140th St at NW 128th PI - 2030 Build-out
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{10}{|c|}{2030 Background} \\
\hline \multicolumn{2}{|c|}{\multirow[t]{2}{*}{Interval Starts}} & \multicolumn{2}{|l|}{NW 140th St Southbound} & \begin{tabular}{l}
NW 128th \\
PI \\
Westbou nd
\end{tabular} & \multicolumn{3}{|c|}{NW 140th St Northbound} & \multicolumn{2}{|l|}{JW 128th PI Eastboun} \\
\hline & & Thru & Right & Left & Left & Thru & Right & Left & Right \\
\hline \multirow{6}{*}{AM} & 7:00:00 AM & 499 & 1 & 63 & 0 & 295 & 187 & 7 & 4 \\
\hline & 8:00:00 AM & 589 & 1 & 46 & 2 & 297 & 113 & 6 & 2 \\
\hline & 9:00:00 AM & 448 & 1 & 46 & 0 & 180 & 113 & 1 & 6 \\
\hline & 10:00:00 AM & 237 & 0 & 46 & 2 & 174 & 113 & 1 & 2 \\
\hline & 11:00:00 AM & 175 & 1 & 46 & 0 & 171 & 113 & 1 & 0 \\
\hline & 12:00:00 PM & 194 & 2 & 46 & 1 & 189 & 113 & 3 & 0 \\
\hline \multirow{6}{*}{PM} & 1:00:00 PM & 153 & 3 & 97 & 2 & 198 & 51 & 0 & 0 \\
\hline & 2:00:00 PM & 185 & 2 & 97 & 1 & 150 & 51 & 1 & 1 \\
\hline & 3:00:00 PM & 217 & 6 & 97 & 1 & 224 & 51 & 2 & 2 \\
\hline & 4:00:00 PM & 250 & 9 & 97 & 9 & 268 & 51 & 1 & 3 \\
\hline & 5:00:00 PM & 336 & 10 & 137 & 3 & 269 & 72 & 6 & 2 \\
\hline & 6:00:00 PM & 237 & 5 & 97 & 1 & 193 & 51 & 3 & 0 \\
\hline & TOTAL & 3520 & 41 & 915 & 22 & 2608 & 1079 & 32 & 22 \\
\hline \multicolumn{2}{|l|}{PM Peak : 4:45-5:45PM} & 338 & 9 & 136 & 3 & 293 & 70 & 5 & 2 \\
\hline
\end{tabular}
\begin{tabular}{|c|r|r|}
\hline \multicolumn{2}{|c|}{ Daily Project Volumes - 50\% } \\
\hline \multirow{3}{*}{ Time } & & \\
\cline { 2 - 3 } & \multicolumn{2}{|c|}{\begin{tabular}{c} 
Average Weekday
\end{tabular}} \\
\hline & \begin{tabular}{c} 
\# Trips 24- \\
Hour \\
Entering \\
Traffic
\end{tabular} & \begin{tabular}{c} 
\# Trips 24-Hour \\
Exiting Traffic
\end{tabular} \\
\hline \(7-8 \mathrm{AM}\) & 772 & 89 \\
\hline \(8-9 \mathrm{AM}\) & 552 & 113 \\
\hline \(9-10 \mathrm{AM}\) & 425 & 150 \\
\hline \(10-11 \mathrm{AM}\) & 259 & 183 \\
\hline \(11-12 \mathrm{AM}\) & 264 & 403 \\
\hline \(12-1 \mathrm{PM}\) & 451 & 492 \\
\hline \(1-2 \mathrm{PM}\) & 518 & 309 \\
\hline \(2-3 \mathrm{PM}\) & 306 & 295 \\
\hline \(3-4 \mathrm{PM}\) & 223 & 450 \\
\hline \(4-5 \mathrm{PM}\) & 176 & 722 \\
\hline \(5-6 \mathrm{PM}\) & 152 & 798 \\
\hline \(6-7 \mathrm{PM}\) & 73 & 258 \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{12}{|c|}{2030 50\% Build-out} \\
\hline \multicolumn{2}{|c|}{\multirow[t]{2}{*}{Interval Starts}} & \multicolumn{3}{|l|}{NW 140th St Southbound} & \multicolumn{2}{|l|}{NW 128th PI Westbound} & \multicolumn{3}{|l|}{NW 140th St Northbound} & \multicolumn{2}{|l|}{NW 128th PI Eastbound} \\
\hline & & Left & Thru & Right & Left & Right & Left & Thru & Right & Left & Right \\
\hline \multirow{6}{*}{AM (phf: .984)} & 7:00:00 AM & 455 & 499 & 1 & 70 & 53 & 0 & 295 & 249 & 7 & 4 \\
\hline & 8:00:00 AM & 326 & 589 & 1 & 55 & 67 & 2 & 297 & 157 & 6 & 2 \\
\hline & 9:00:00 AM & 251 & 448 & 1 & 58 & 89 & 0 & 180 & 147 & 1 & 6 \\
\hline & 10:00:00 AM & 153 & 237 & 0 & 61 & 108 & 2 & 174 & 134 & 1 & 2 \\
\hline & 11:00:00 AM & 156 & 175 & 1 & 78 & 238 & 0 & 171 & 134 & 1 & 0 \\
\hline & 12:00:00 PM & 266 & 194 & 2 & 85 & 290 & 1 & 189 & 149 & 3 & 0 \\
\hline \multirow{6}{*}{PM (phf: .933)} & 1:00:00 PM & 306 & 153 & 3 & 122 & 183 & 2 & 198 & 92 & 0 & 0 \\
\hline & 2:00:00 PM & 180 & 185 & 2 & 121 & 174 & 1 & 150 & 75 & 1 & 1 \\
\hline & 3:00:00 PM & 131 & 217 & 6 & 133 & 266 & 1 & 224 & 69 & 2 & 2 \\
\hline & 4:00:00 PM & 104 & 250 & 9 & 155 & 426 & 9 & 268 & 65 & 1 & 3 \\
\hline & 5:00:00 PM & 90 & 336 & 10 & 201 & 471 & 3 & 269 & 84 & 6 & 2 \\
\hline & 6:00:00 PM & 43 & 237 & 5 & 118 & 152 & 1 & 193 & 57 & 3 & 0 \\
\hline & TOTAL & 2461 & 3520 & 41 & 1257 & 2517 & 22 & 2608 & 1412 & 32 & 2 \\
\hline \multicolumn{2}{|l|}{PM Peak : 4:45-5:45PM} & 90 & 338 & 9 & 200 & 471 & 3 & 293 & 82 & 5 & 2 \\
\hline
\end{tabular}

59\% X 1/2 Project
Entering Traffic

Background Trips + 8\% X 1/2 Projec Entering Traffic

59\% X 1/2 Project Entering Traffic

Background Trips + 8\% X 1/2 Project Entering Traffic
\begin{tabular}{l}
\begin{tabular}{|l|c|c|}
\hline Peak Season & \multicolumn{2}{|r|}{1.02} \\
\hline & Growth Rate & \begin{tabular}{c} 
Growth \\
Factor
\end{tabular} \\
\hline & 1.01 & 1.24 \\
\hline 140th St SB & 1.01 & 1.24 \\
140th St NB & 1.01 & 1.24 \\
128th PI WB & 0 & 1 \\
\hline
\end{tabular} \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{10}{|c|}{Peak Season} \\
\hline \multicolumn{2}{|r|}{\multirow[t]{2}{*}{Interval Starts}} & \multicolumn{2}{|l|}{NW 140th St Southbound} & \multirow[t]{2}{*}{\begin{tabular}{l}
NW 128th PI Westbound \\
Left
\end{tabular}} & \multicolumn{3}{|l|}{NW 140th St Northbound} & \multicolumn{2}{|l|}{NW 128th PI Eastbound} \\
\hline & & Thru & Right & & Left & Thru & Right & Left & Right \\
\hline & 7:00:00 AM & 443 & 1 & 56 & 0 & 262 & 166 & 7 & 4 \\
\hline & 8:00:00 AM & 523 & 1 & 41 & 2 & 264 & 100 & 6 & 2 \\
\hline AM & 9:00:00 AM & 398 & 1 & 41 & 0 & 160 & 100 & 1 & 6 \\
\hline AM & 10:00:00 AM & 210 & 0 & 41 & 2 & 154 & 100 & 1 & 2 \\
\hline & 11:00:00 AM & 155 & 1 & 41 & 0 & 152 & 100 & 1 & 0 \\
\hline & 12:00:00 PM & 172 & 2 & 41 & 1 & 168 & 100 & 3 & 0 \\
\hline & 1:00:00 PM & 136 & 3 & 86 & 2 & 176 & 45 & 0 & 0 \\
\hline & 2:00:00 PM & 164 & 2 & 86 & 1 & 133 & 45 & 1 & 1 \\
\hline PM & 3:00:00 PM & 193 & 5 & 86 & 1 & 199 & 45 & 2 & 2 \\
\hline PM & 4:00:00 PM & 222 & 8 & 86 & 8 & 238 & 45 & 1 & 3 \\
\hline & 5:00:00 PM & 298 & 9 & 122 & 3 & 239 & 64 & 6 & 2 \\
\hline & 6:00:00 PM & 210 & 4 & 86 & 1 & 171 & 45 & 3 & 0 \\
\hline & TOTAL & 3124 & 37 & 813 & 21 & 2316 & 955 & 32 & 22 \\
\hline \multicolumn{2}{|l|}{PM Peak : 4:45-5:45PM} & 300 & 8 & 121 & 3 & 260 & 62 & 5 & 2 \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{10}{|c|}{2040 Background} \\
\hline \multicolumn{2}{|r|}{\multirow[t]{2}{*}{Interval Starts}} & \multicolumn{2}{|l|}{NW 140th St Southbound} & NW 128th PI Westbound & \multicolumn{3}{|l|}{NW 140th St Northbound} & \multicolumn{2}{|l|}{NW 128th PI Eastbound} \\
\hline & & Thru & Right & Left & Left & Thru & Right & Left & Right \\
\hline \multirow{6}{*}{AM} & 7:00:00 AM & 551 & 1 & 70 & 0 & 326 & 207 & 7 & 4 \\
\hline & 8:00:00 AM & 651 & 1 & 51 & 2 & 329 & 124 & 6 & 2 \\
\hline & 9:00:00 AM & 495 & 1 & 51 & 0 & 199 & 124 & 1 & 6 \\
\hline & 10:00:00 AM & 261 & 0 & 51 & 2 & 192 & 124 & 1 & 2 \\
\hline & 11:00:00 AM & 193 & 1 & 51 & 0 & 189 & 124 & 1 & 0 \\
\hline & 12:00:00 PM & 214 & 2 & 51 & 1 & 209 & 124 & 3 & 0 \\
\hline \multirow{6}{*}{PM} & 1:00:00 PM & 169 & 4 & 107 & 2 & 219 & 56 & 0 & 0 \\
\hline & 2:00:00 PM & 204 & 2 & 107 & 1 & 166 & 56 & 1 & 1 \\
\hline & 3:00:00 PM & 240 & 6 & 107 & 1 & 248 & 56 & 2 & 2 \\
\hline & 4:00:00 PM & 276 & 10 & 107 & 10 & 296 & 56 & 1 & 3 \\
\hline & 5:00:00 PM & 371 & 11 & 152 & 4 & 297 & 80 & 6 & 2 \\
\hline & 6:00:00 PM & 261 & 5 & 107 & 1 & 213 & 56 & 3 & 0 \\
\hline & TOTAL & 3886 & 44 & 1012 & 24 & 2883 & 1187 & 32 & 22 \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{10}{|c|}{2040 Background} \\
\hline \multicolumn{2}{|c|}{\multirow{2}{*}{Interval Starts}} & \multicolumn{2}{|l|}{NW 140th St Southbound} & \begin{tabular}{l}
NW 128th \\
PI \\
Westbou nd
\end{tabular} & \multicolumn{3}{|l|}{NW 140th St Northbound} & \multicolumn{2}{|l|}{28th PI Eastb} \\
\hline & & Thru & Right & Left & Left & Thru & Right & Left & Right \\
\hline \multirow{6}{*}{AM} & 7:00:00 AM & 551 & 1 & 70 & 0 & 326 & 207 & 7 & 4 \\
\hline & 8:00:00 AM & 651 & 1 & 51 & 2 & 329 & 124 & 6 & 2 \\
\hline & 9:00:00 AM & 495 & 1 & 51 & 0 & 199 & 124 & 1 & 6 \\
\hline & 10:00:00 AM & 261 & 0 & 51 & 2 & 192 & 124 & 1 & 2 \\
\hline & 11:00:00 AM & 193 & 1 & 51 & 0 & 189 & 124 & 1 & 0 \\
\hline & 12:00:00 PM & 214 & 2 & 51 & 1 & 209 & 124 & 3 & 0 \\
\hline \multirow{6}{*}{PM} & 1:00:00 PM & 169 & 4 & 107 & 2 & 219 & 56 & 0 & 0 \\
\hline & 2:00:00 PM & 204 & 2 & 107 & 1 & 166 & 56 & 1 & 1 \\
\hline & 3:00:00 PM & 240 & 6 & 107 & 1 & 248 & 56 & 2 & 2 \\
\hline & 4:00:00 PM & 276 & 10 & 107 & 10 & 296 & 56 & 1 & 3 \\
\hline & 5:00:00 PM & 371 & 11 & 152 & 4 & 297 & 80 & 6 & 2 \\
\hline & 6:00:00 PM & 261 & 5 & 107 & 1 & 213 & 56 & 3 & 0 \\
\hline & TOTAL & 3886 & 44 & 1012 & 24 & 2883 & 1187 & 32 & 22 \\
\hline \multicolumn{2}{|l|}{PM Peak : 4:45-5:45PM} & 373 & 10 & 151 & 4 & 324 & 77 & 5 & 2 \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|}
\hline \multicolumn{3}{|l|}{Daily Project Volumes -Original} \\
\hline \multirow[b]{2}{*}{Time} & \multicolumn{2}{|l|}{Average Weekday} \\
\hline & \begin{tabular}{l}
\# Trips 24 \\
Hour \\
Entering \\
Traffic
\end{tabular} & \# Trips 24-Hour Exiting Traffic \\
\hline 7-8 AM & 1544 & 178 \\
\hline 8-9 AM & 1104 & 226 \\
\hline 9-10 AM & 850 & 300 \\
\hline 10-11 AM & 518 & 366 \\
\hline 11-12 AM & 529 & 806 \\
\hline 12-1 PM & 902 & 984 \\
\hline 1-2 PM & 1036 & 619 \\
\hline 2-3 PM & 611 & 591 \\
\hline 3-4 PM & 446 & 900 \\
\hline 4-5 PM & 352 & 1444 \\
\hline 5-6 PM & 304 & 1595 \\
\hline 6-7 PM & 145 & 516 \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{12}{|c|}{2040 Build-out} \\
\hline \multicolumn{2}{|c|}{\multirow[t]{2}{*}{Interval Starts}} & \multicolumn{3}{|l|}{NW 140th St Southbound} & \multicolumn{2}{|l|}{NW 128th PI Westbound} & \multicolumn{3}{|c|}{NW 140th St Northbound} & \multicolumn{2}{|r|}{NW 128th PI Eastbound} \\
\hline & & Left & Thru & Right & Left & Right & Left & Thru & Right & Left & Right \\
\hline \multirow{6}{*}{AM (phf: .984)} & 7:00:00 AM & 911 & 551 & 1 & 84 & 105 & 0 & 326 & 331 & 7 & 4 \\
\hline & 8:00:00 AM & 651 & 651 & 1 & 69 & 133 & 2 & 329 & 212 & 6 & 2 \\
\hline & 9:00:00 AM & 501 & 495 & 1 & 75 & 177 & 0 & 199 & 192 & 1 & 6 \\
\hline & 10:00:00 AM & 306 & 261 & 0 & 80 & 216 & 2 & 192 & 165 & 1 & 2 \\
\hline & 11:00:00 AM & 312 & 193 & 1 & 116 & 476 & 0 & 189 & 166 & 1 & 0 \\
\hline & 12:00:00 PM & 532 & 214 & 2 & 130 & 581 & 1 & 209 & 196 & 3 & 0 \\
\hline \multirow{6}{*}{PM (phf: .933)} & 1:00:00 PM & 611 & 169 & 4 & 157 & 365 & 2 & 219 & 139 & 0 & 0 \\
\hline & 2:00:00 PM & 361 & 204 & 2 & 154 & 349 & 1 & 166 & 105 & 1 & 1 \\
\hline & 3:00:00 PM & 263 & 240 & 6 & 179 & 531 & 1 & 248 & 92 & 2 & 2 \\
\hline & 4:00:00 PM & 208 & 276 & 10 & 223 & 852 & 10 & 296 & 84 & 1 & 3 \\
\hline & 5:00:00 PM & 179 & 371 & 11 & 280 & 941 & 4 & 297 & 104 & 6 & 2 \\
\hline & 6:00:00 PM & 86 & 261 & 5 & 148 & 304 & 1 & 213 & 68 & 3 & 0 \\
\hline & TOTAL & 4921 & 3886 & 44 & 1695 & 5030 & 24 & 2883 & 1854 & 32 & 2 \\
\hline \multicolumn{2}{|l|}{PM Peak : 4:45-5:45PM} & 179 & 373 & 10 & 279 & 941 & 4 & 324 & 101 & 5 & 2 \\
\hline \multicolumn{3}{|r|}{} & \multicolumn{3}{|l|}{Background Trips + 8\% Project Entering Traffic} &  & \multicolumn{5}{|l|}{Background Trips + 8\% Project Entering Traffic} \\
\hline
\end{tabular}

\section*{Appendix E: Traffic Signal Warrant Analysis}


\section*{Project Information}
\begin{tabular}{|l|l|l|l|}
\hline Analyst & Brian Snyder & Date & \(11 / 26 / 2018\) \\
\hline Agency & CHW Consultants & Analysis Year & 2020 \\
\hline Jurisdiction & Alachua County & Time Period Analyzed & 7AM to 7PM \\
\hline Project Description & 140th and 128th Opening Year & & \\
\hline General & \multicolumn{4}{l|}{} \\
\hline Major Street Direction & North-South & Population < 10,000 & No \\
\hline Starting Time Interval & 7 & Coordinated Signal System & No \\
\hline Median Type & Undivided & Crashes (crashes/year) & 1 \\
\hline Major Street Speed (mi/h) & 45 & Adequate Trials of Crash Exp. Alt. & No \\
\hline Nearest Signal (ft) & 7444 & & \\
\hline
\end{tabular}

\section*{Geometry and Traffic}

\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Approach & \multicolumn{3}{|c|}{Eastbound} & \multicolumn{3}{|c|}{Westbound} & \multicolumn{3}{|c|}{Northbound} & \multicolumn{3}{|c|}{Southbound} \\
\hline Movement & L & T & R & L & T & R & L & T & R & L & T & R \\
\hline Number of Lanes, N & 0 & 1 & 0 & 1 & 1 & 0 & 1 & 1 & 1 & 1 & 1 & 0 \\
\hline Lane Usage & & LTR & & L & TR & & L & T & R & L & TR & \\
\hline Vehicle Volumes Averages (veh/h) & 2 & 0 & 1 & 69 & 0 & 10 & 1 & 196 & 81 & 10 & 265 & 3 \\
\hline Pedestrian Averages (peds/h) & \multicolumn{3}{|c|}{0} & \multicolumn{3}{|c|}{0} & \multicolumn{3}{|c|}{0} & \multicolumn{3}{|c|}{0} \\
\hline Gap Averages (gaps/h) & \multicolumn{3}{|c|}{0} & \multicolumn{3}{|c|}{0} & \multicolumn{3}{|c|}{0} & \multicolumn{3}{|c|}{0} \\
\hline Delay (s/veh) & \multicolumn{3}{|c|}{2.6} & \multicolumn{3}{|c|}{3.0} & \multicolumn{3}{|c|}{0.0} & \multicolumn{3}{|c|}{0.0} \\
\hline Delay (veh-hrs) & \multicolumn{3}{|c|}{0.0} & \multicolumn{3}{|c|}{0.1} & \multicolumn{3}{|c|}{0.0} & \multicolumn{3}{|c|}{0.0} \\
\hline
\end{tabular}

\section*{School Crossing and Roadway Network}
\begin{tabular}{|l|l|l|l|}
\hline Number of Students in Highest Hour & 0 & Two or More Major Routes & No \\
\hline Number of Adequate Gaps in Period & 0 & Weekend Counts & No \\
\hline Number of Minutes in Period & 0 & 5 -year Growth Factor (\%) & 0 \\
\hline
\end{tabular}

\section*{Railroad Crossing}
\begin{tabular}{|l|l|l|l|}
\hline Grade Crossing Approach & None & Rail Traffic (trains/day) & 0 \\
\hline Highest Volume Hour with Trains & Unknown & High Occupancy Buses (\%) & 0 \\
\hline Distance to Stop Line (ft) & & Tractor-Trailer Trucks (\%) & 4 \\
\hline
\end{tabular}

\section*{HCS7 Warrants Report}

\section*{Volume Summary}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Hour & Major Volume & Minor Volume & Total Volume & Peds/h & Gaps/h & \[
\begin{gathered}
\text { 1A } \\
(70 \%)
\end{gathered}
\] & \[
\begin{gathered}
\text { 1A } \\
(56 \%)
\end{gathered}
\] & \[
\begin{gathered}
\text { 1B } \\
(70 \%)
\end{gathered}
\] & \[
\begin{gathered}
\text { 1B } \\
(56 \%)
\end{gathered}
\] & \[
\begin{gathered}
2 \\
(70 \%)
\end{gathered}
\] & \[
\begin{gathered}
3 \mathrm{~A} \\
(70 \%)
\end{gathered}
\] & \[
\begin{gathered}
3 \mathrm{~B} \\
(70 \%)
\end{gathered}
\] & \[
\begin{gathered}
4 \mathrm{~A} \\
(70 \%)
\end{gathered}
\] & \[
\begin{gathered}
4 \mathrm{~B} \\
(70 \%)
\end{gathered}
\] \\
\hline 07-08 & 899 & 67 & 977 & 0 & 0 & No & No & No & Yes & No & No & No & No & No \\
\hline 08-09 & 918 & 52 & 978 & 0 & 0 & No & No & No & No & No & No & No & No & No \\
\hline 09-10 & 682 & 52 & 741 & 0 & 0 & No & No & No & No & No & No & No & No & No \\
\hline 10-11 & 485 & 52 & 540 & 0 & 0 & No & No & No & No & No & No & No & No & No \\
\hline 11-12 & 426 & 52 & 479 & 0 & 0 & No & No & No & No & No & No & No & No & No \\
\hline 12-13 & 461 & 52 & 516 & 0 & 0 & No & No & No & No & No & No & No & No & No \\
\hline 13-14 & 380 & 98 & 478 & 0 & 0 & No & No & No & No & No & No & No & No & No \\
\hline 14-15 & 362 & 98 & 462 & 0 & 0 & No & No & No & No & No & No & No & No & No \\
\hline 15-16 & 462 & 98 & 564 & 0 & 0 & No & No & No & No & No & No & No & No & No \\
\hline 16-17 & 541 & 98 & 643 & 0 & 0 & No & No & No & Yes & No & No & No & No & No \\
\hline 17-18 & 635 & 134 & 777 & 0 & 0 & No & Yes & Yes & Yes & No & No & No & No & No \\
\hline 18-19 & 449 & 98 & 550 & 0 & 0 & No & No & No & No & No & No & No & No & No \\
\hline Total & 6700 & 951 & 7705 & 0 & 0 & 0 & 1 & 1 & 3 & 0 & 0 & 0 & 0 & 0 \\
\hline
\end{tabular}

\section*{Warrants}

\section*{Warrant 1: Eight-Hour Vehicular Volume}
A. Minimum Vehicular Volumes (Both major approaches --and-- higher minor approach) --or--
B. Interruption of Continuous Traffic (Both major approaches --and-- higher minor approach) --or--
\(56 \%\) Vehicular --and-- Interruption Volumes (Both major approaches --and-- higher minor approach)

\section*{Warrant 2: Four-Hour Vehicular Volume}

Four-Hour Vehicular Volume (Both major approaches --and-- higher minor approach)

\section*{Warrant 3: Peak Hour}
A. Peak-Hour Conditions (Minor delay -- and-- minor volume --and-- total volume) --or--
B. Peak-Hour Vehicular Volumes (Both major approaches --and-- higher minor approach)

Warrant 4: Pedestrian Volume
A. Four Hour Volumes --or--
B. One-Hour Volumes

Warrant 5: School Crossing
Gaps Same Period --and--
Student Volumes
Nearest Traffic Control Signal (optional)
Warrant 6: Coordinated Signal System
Degree of Platooning (Predominant direction or both directions)
Warrant 7: Crash Experience
A. Adequate trials of alternatives, observance and enforcement failed --and-
B. Reported crashes susceptible to correction by signal (12-month period) --and--
C. \(56 \%\) Volumes for Warrants 1A, 1B, --or-- 4 are satisfied

Warrant 8: Roadway Network
A. Weekday Volume (Peak hour total --and-- projected warrants 1, 2, or 3) --or--
B. Weekend Volume (Five hours total)

\section*{Warrant 9: Grade Crossing}
A. Grade Crossing within 140 ft --and--
B. Peak-Hour Vehicular Volumes

\section*{Project Information}
\begin{tabular}{|l|l|l|l|}
\hline Analyst & Brian Snyder & Date & 11/26/2018 \\
\hline Agency & CHW Consultants & Analysis Year & 2030 \\
\hline Jurisdiction & Alachua County & Time Period Analyzed & 7AM to 7PM \\
\hline Project Description & 140th and 128th 50\% Year 2030 & \\
\hline General & \multicolumn{4}{l|}{} \\
\hline Major Street Direction & North-South & Population < 10,000 & No \\
\hline Starting Time Interval & 7 & Coordinated Signal System & No \\
\hline Median Type & Undivided & Crashes (crashes/year) & 1 \\
\hline Major Street Speed (mi/h) & 45 & Adequate Trials of Crash Exp. Alt. & No \\
\hline Nearest Signal (ft) & 7444 & & \\
\hline
\end{tabular}

\section*{Geometry and Traffic}

\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Approach & \multicolumn{3}{|c|}{Eastbound} & \multicolumn{3}{|c|}{Westbound} & \multicolumn{3}{|c|}{Northbound} & \multicolumn{3}{|c|}{Southbound} \\
\hline Movement & L & T & R & L & T & R & L & T & R & L & T & R \\
\hline Number of Lanes, N & 0 & 1 & 0 & 1 & 1 & 0 & 1 & 1 & 1 & 1 & 1 & 0 \\
\hline Lane Usage & & LTR & & L & TR & & L & T & R & L & TR & \\
\hline Vehicle Volumes Averages (veh/h) & 2 & 0 & 1 & 104 & 0 & 209 & 1 & 217 & 117 & 205 & 293 & 3 \\
\hline Pedestrian Averages (peds/h) & \multicolumn{3}{|c|}{0} & \multicolumn{3}{|c|}{0} & \multicolumn{3}{|c|}{0} & \multicolumn{3}{|c|}{0} \\
\hline Gap Averages (gaps/h) & \multicolumn{3}{|c|}{0} & \multicolumn{3}{|c|}{0} & \multicolumn{3}{|c|}{0} & \multicolumn{3}{|c|}{0} \\
\hline Delay (s/veh) & \multicolumn{3}{|c|}{10.8} & \multicolumn{3}{|c|}{9.3} & \multicolumn{3}{|c|}{0.0} & \multicolumn{3}{|c|}{0.4} \\
\hline Delay (veh-hrs) & \multicolumn{3}{|c|}{0.0} & \multicolumn{3}{|c|}{0.7} & \multicolumn{3}{|c|}{0.0} & \multicolumn{3}{|c|}{0.1} \\
\hline
\end{tabular}

\section*{School Crossing and Roadway Network}
\begin{tabular}{|l|l|l|l|}
\hline Number of Students in Highest Hour & 0 & Two or More Major Routes & No \\
\hline Number of Adequate Gaps in Period & 0 & Weekend Counts & No \\
\hline Number of Minutes in Period & 0 & 5 -year Growth Factor (\%) & 0 \\
\hline
\end{tabular}

\section*{Railroad Crossing}


\section*{Volume Summary}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Hour & \begin{tabular}{c} 
Major \\
Volume
\end{tabular} & \begin{tabular}{c} 
Minor \\
Volume
\end{tabular} & \begin{tabular}{c} 
Total \\
Volume
\end{tabular} & Peds/h & Gaps/h & \begin{tabular}{c}
1 A \\
\((70 \%)\)
\end{tabular} & \begin{tabular}{c}
1 A \\
\((56 \%)\)
\end{tabular} & \begin{tabular}{c}
1 B \\
\((70 \%)\)
\end{tabular} & \begin{tabular}{c}
1 B \\
\((56 \%)\)
\end{tabular} & \begin{tabular}{c}
2 \\
\((70 \%)\)
\end{tabular} & \begin{tabular}{c}
3 A \\
\((70 \%)\)
\end{tabular} & \begin{tabular}{c}
3 B \\
\((70 \%)\)
\end{tabular} & \begin{tabular}{c}
4 A \\
\((70 \%)\)
\end{tabular} & \begin{tabular}{c}
4 B \\
\((70 \%)\)
\end{tabular} \\
\hline \(07-08\) & 1499 & 123 & 1633 & 0 & 0 & No & Yes & Yes & Yes & Yes & No & Yes & No & No \\
\hline \(08-09\) & 1372 & 122 & 1502 & 0 & 0 & No & Yes & Yes & Yes & Yes & No & Yes & No & No \\
\hline \(09-10\) & 1027 & 147 & 1181 & 0 & 0 & Yes & Yes & Yes & Yes & Yes & No & Yes & No & No \\
\hline \(10-11\) & 700 & 169 & 872 & 0 & 0 & Yes & Yes & Yes & Yes & Yes & No & No & No & No \\
\hline \(11-12\) & 637 & 316 & 954 & 0 & 0 & Yes & Yes & Yes & Yes & Yes & No & Yes & No & No \\
\hline \(12-13\) & 801 & 375 & 1179 & 0 & 0 & Yes & Yes & Yes & Yes & Yes & No & Yes & No & No \\
\hline \(13-14\) & 754 & 305 & 1059 & 0 & 0 & Yes & Yes & Yes & Yes & Yes & No & Yes & No & No \\
\hline \(14-15\) & 593 & 295 & 890 & 0 & 0 & Yes & Yes & No & Yes & Yes & No & No & No & No \\
\hline \(15-16\) & 648 & 399 & 1051 & 0 & 0 & Yes & Yes & Yes & Yes & Yes & No & Yes & No & No \\
\hline \(16-17\) & 705 & 581 & 1290 & 0 & 0 & Yes & Yes & Yes & Yes & Yes & No & Yes & No & No \\
\hline \(17-18\) & 792 & 672 & 1472 & 0 & 0 & Yes & Yes & Yes & Yes & Yes & Yes & Yes & No & No \\
\hline \(18-19\) & 536 & 270 & 809 & 0 & 0 & Yes & Yes & No & Yes & Yes & No & No & No & No \\
\hline Total & 10064 & 3774 & 13892 & 0 & 0 & 10 & 12 & 10 & 12 & 12 & 1 & 9 & 0 & 0 \\
\hline
\end{tabular}

\section*{Warrants}

\section*{Warrant 1: Eight-Hour Vehicular Volume}
A. Minimum Vehicular Volumes (Both major approaches --and-- higher minor approach) --or--
B. Interruption of Continuous Traffic (Both major approaches --and-- higher minor approach) --or--
\(56 \%\) Vehicular --and-- Interruption Volumes (Both major approaches --and-- higher minor approach)
Warrant 2: Four-Hour Vehicular Volume
Four-Hour Vehicular Volume (Both major approaches --and-- higher minor approach)
Warrant 3: Peak Hour
A. Peak-Hour Conditions (Minor delay -- and-- minor volume --and-- total volume) --or--
B. Peak-Hour Vehicular Volumes (Both major approaches --and-- higher minor approach)

Warrant 4: Pedestrian Volume
A. Four Hour Volumes --or--
B. One-Hour Volumes

Warrant 5: School Crossing
\begin{tabular}{|l|}
\hline Gaps Same Period --and-- \\
\hline Student Volumes \\
\hline Nearest Traffic Control Signal (optional) \\
\hline Warrant 6: Coordinated Signal System \\
\hline
\end{tabular}

Warrant 6: Coordinated Signal System
Degree of Platooning (Predominant direction or both directions)
Warrant 7: Crash Experience
A. Adequate trials of alternatives, observance and enforcement failed --and--
B. Reported crashes susceptible to correction by signal (12-month period) --and--
C. \(56 \%\) Volumes for Warrants 1A, 1B, --or-- 4 are satisfied

Warrant 8: Roadway Network
A. Weekday Volume (Peak hour total --and-- projected warrants 1, 2, or 3) --or--
B. Weekend Volume (Five hours total)

\section*{Warrant 9: Grade Crossing}
A. Grade Crossing within 140 ft --and--
B. Peak-Hour Vehicular Volumes

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\section*{HCS7 Warrants Report}

\section*{Project Information}
\begin{tabular}{|l|l|l|l|}
\hline Analyst & Sophia Semensky & Date & 11/9/2018 \\
\hline Agency & CHW Consultants & Analysis Year & 2040 \\
\hline Jurisdiction & Alachua County & Time Period Analyzed & 7AM to 7PM \\
\hline Project Description & 140th and 128th Build-Out & \multicolumn{1}{l|}{ Design year 2040 } \\
\hline General & \multicolumn{4}{|l|}{} \\
\hline Major Street Direction & North-South & Population < 10,000 & No \\
\hline Starting Time Interval & 7 & Coordinated Signal System & No \\
\hline Median Type & Undivided & Crashes (crashes/year) & 1 \\
\hline Major Street Speed (mi/h) & A5 & Adequate Trials of Crash Exp. Alt. & No \\
\hline Nearest Signal (ft) & 7444 & & \\
\hline Geometry and Traffic & & & \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Approach & \multicolumn{3}{|c|}{Eastbound} & \multicolumn{3}{|c|}{Westbound} & \multicolumn{3}{|c|}{Northbound} & \multicolumn{3}{|c|}{Southbound} \\
\hline Movement & L & T & R & L & T & R & L & T & R & L & T & R \\
\hline Number of Lanes, N & 0 & 1 & 0 & 1 & 1 & 0 & 1 & 1 & 1 & 1 & 1 & 0 \\
\hline Lane Usage & & LTR & & L & TR & & L & T & R & L & TR & \\
\hline Vehicle Volumes Averages (veh/h) & 2 & 0 & 1 & 141 & 0 & 419 & 2 & 240 & 154 & 410 & 323 & 3 \\
\hline Pedestrian Averages (peds/h) & \multicolumn{3}{|c|}{0} & \multicolumn{3}{|c|}{0} & \multicolumn{3}{|c|}{0} & \multicolumn{3}{|c|}{0} \\
\hline Gap Averages (gaps/h) & \multicolumn{3}{|c|}{0} & \multicolumn{3}{|c|}{0} & \multicolumn{3}{|c|}{0} & \multicolumn{3}{|c|}{0} \\
\hline Delay ( \(\mathrm{s} / \mathrm{veh}\) ) & \multicolumn{3}{|c|}{60.8} & \multicolumn{3}{|c|}{103.5} & \multicolumn{3}{|c|}{0.0} & \multicolumn{3}{|c|}{0.9} \\
\hline Delay (veh-hrs) & \multicolumn{3}{|c|}{0.1} & \multicolumn{3}{|c|}{12.0} & \multicolumn{3}{|c|}{0.0} & \multicolumn{3}{|c|}{0.3} \\
\hline
\end{tabular}

\section*{School Crossing and Roadway Network}
\begin{tabular}{|l|l|l|l|}
\hline Number of Students in Highest Hour & 0 & Two or More Major Routes & No \\
\hline Number of Adequate Gaps in Period & 0 & Weekend Counts & No \\
\hline Number of Minutes in Period & 0 & 5 -year Growth Factor (\%) & 0 \\
\hline
\end{tabular}

\section*{Railroad Crossing}
\begin{tabular}{|l|l|l|l|}
\hline Grade Crossing Approach & None & Rail Traffic (trains/day) & 0 \\
\hline Highest Volume Hour with Trains & Unknown & High Occupancy Buses (\%) & 0 \\
\hline Distance to Stop Line (ft) & & Tractor-Trailer Trucks (\%) & 4 \\
\hline
\end{tabular}

\section*{Volume Summary}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Hour & \begin{tabular}{c} 
Major \\
Volume
\end{tabular} & \begin{tabular}{c} 
Minor \\
Volume
\end{tabular} & \begin{tabular}{c} 
Total \\
Volume
\end{tabular} & Peds/h & Gaps/h & \begin{tabular}{c}
1 A \\
\((70 \%)\)
\end{tabular} & \begin{tabular}{c}
1 A \\
\((56 \%)\)
\end{tabular} & \begin{tabular}{c}
1 B \\
\((70 \%)\)
\end{tabular} & \begin{tabular}{c}
1 B \\
\((56 \%)\)
\end{tabular} & \begin{tabular}{c}
2 \\
\((70 \%)\)
\end{tabular} & \begin{tabular}{c}
3 A \\
\((70 \%)\)
\end{tabular} & \begin{tabular}{c}
3 B \\
\((70 \%)\)
\end{tabular} & \begin{tabular}{c}
4 A \\
\((70 \%)\)
\end{tabular} & \begin{tabular}{c}
4 B \\
\((70 \%)\)
\end{tabular} \\
\hline \(07-08\) & 2120 & 189 & 2320 & 0 & 0 & Yes & Yes & Yes & Yes & Yes & No & Yes & No & No \\
\hline \(08-09\) & 1846 & 202 & 2056 & 0 & 0 & Yes & Yes & Yes & Yes & Yes & Yes & Yes & No & No \\
\hline \(09-10\) & 1388 & 252 & 1647 & 0 & 0 & Yes & Yes & Yes & Yes & Yes & No & Yes & No & No \\
\hline \(10-11\) & 926 & 296 & 1225 & 0 & 0 & Yes & Yes & Yes & Yes & Yes & No & Yes & No & No \\
\hline \(11-12\) & 861 & 592 & 1454 & 0 & 0 & Yes & Yes & Yes & Yes & Yes & No & Yes & No & No \\
\hline \(12-13\) & 1154 & 711 & 1868 & 0 & 0 & Yes & Yes & Yes & Yes & Yes & No & Yes & No & No \\
\hline \(13-14\) & 1144 & 522 & 1666 & 0 & 0 & Yes & Yes & Yes & Yes & Yes & No & Yes & No & No \\
\hline \(14-15\) & 839 & 503 & 1344 & 0 & 0 & Yes & Yes & Yes & Yes & Yes & No & Yes & No & No \\
\hline \(15-16\) & 850 & 710 & 1564 & 0 & 0 & Yes & Yes & Yes & Yes & Yes & No & Yes & No & No \\
\hline \(16-17\) & 884 & 1075 & 1963 & 0 & 0 & Yes & Yes & Yes & Yes & Yes & No & Yes & No & No \\
\hline \(17-18\) & 966 & 1221 & 2195 & 0 & 0 & Yes & Yes & Yes & Yes & Yes & Yes & Yes & No & No \\
\hline \(18-19\) & 634 & 452 & 1089 & 0 & 0 & Yes & Yes & Yes & Yes & Yes & No & Yes & No & No \\
\hline Total & 13612 & 6725 & 20391 & 0 & 0 & 12 & 12 & 12 & 12 & 12 & 2 & 12 & 0 & 0 \\
\hline
\end{tabular}

\section*{Warrants}

\section*{Warrant 1: Eight-Hour Vehicular Volume}
A. Minimum Vehicular Volumes (Both major approaches --and-- higher minor approach) --or--
B. Interruption of Continuous Traffic (Both major approaches --and-- higher minor approach) --or--
\(56 \%\) Vehicular --and-- Interruption Volumes (Both major approaches --and-- higher minor approach)
Warrant 2: Four-Hour Vehicular Volume
Four-Hour Vehicular Volume (Both major approaches --and-- higher minor approach)
Warrant 3: Peak Hour
A. Peak-Hour Conditions (Minor delay -- and-- minor volume --and-- total volume) --or--
B. Peak-Hour Vehicular Volumes (Both major approaches --and-- higher minor approach)

Warrant 4: Pedestrian Volume
A. Four Hour Volumes --or--
B. One-Hour Volumes

Warrant 5: School Crossing
\begin{tabular}{|l|}
\hline Gaps Same Period --and-- \\
\hline Student Volumes \\
\hline Nearest Traffic Control Signal (optional) \\
\hline Warrant 6. Coordinated Signal System \\
\hline
\end{tabular}

Warrant 6: Coordinated Signal System
Degree of Platooning (Predominant direction or both directions)
Warrant 7: Crash Experience
A. Adequate trials of alternatives, observance and enforcement failed --and--
B. Reported crashes susceptible to correction by signal (12-month period) --and--
C. \(56 \%\) Volumes for Warrants 1A, 1B, --or-- 4 are satisfied

Warrant 8: Roadway Network
A. Weekday Volume (Peak hour total --and-- projected warrants 1, 2, or 3) --or--
B. Weekend Volume (Five hours total)

\section*{Warrant 9: Grade Crossing}
A. Grade Crossing within 140 ft --and--
B. Peak-Hour Vehicular Volumes

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\section*{Appendix F: Operational Analysis Results}

\section*{Opening Year 2020}


\section*{HCS7 Two-Way Stop-Control Report}

\section*{General Information}
\begin{tabular}{|l|l|l|l|}
\hline Analyst & Brian Snyder & Intersection & NW 140th at NW 128th PI \\
\hline Agency/Co. & CHW Consultants & Jurisdiction & Alachua County \\
\hline Date Performed & \(11 / 26 / 2018\) & East/West Street & NW 128th PI \\
\hline Analysis Year & 2020 & North/South Street & NW 140th St \\
\hline Time Analyzed & PM Peak Hr 2020 Build-out & Peak Hour Factor & 0.93 \\
\hline Intersection Orientation & North-South & Analysis Time Period (hrs) & 0.25 \\
\hline Project Description & San Felasco Parkway & & \\
\hline Lanes & & \\
\hline
\end{tabular}

\section*{Vehicle Volumes and Adjustments}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Approach & \multicolumn{4}{|c|}{Eastbound} & \multicolumn{4}{|c|}{Westbound} & \multicolumn{4}{|c|}{Northbound} & \multicolumn{4}{|c|}{Southbound} \\
\hline Movement & U & L & T & R & U & L & T & R & U & L & T & R & U & L & T & R \\
\hline Priority & & 10 & 11 & 12 & & 7 & 8 & 9 & 1 U & 1 & 2 & 3 & 4 U & 4 & 5 & 6 \\
\hline Number of Lanes & & 0 & 1 & 0 & & 1 & 1 & 0 & 0 & 0 & 1 & 1 & 0 & 1 & 1 & 0 \\
\hline Configuration & & & LTR & & & L & & TR & & LT & & R & & L & & TR \\
\hline Volume (veh/h) & & 5 & 0 & 2 & & 123 & 0 & 10 & & 3 & 265 & 63 & & 10 & 306 & 8 \\
\hline Percent Heavy Vehicles (\%) & & 0 & 0 & 0 & & 0 & 0 & 0 & & 2 & & & & 1 & & \\
\hline Proportion Time Blocked & & & & & & & & & & & & & & & & \\
\hline Percent Grade (\%) & \multicolumn{4}{|c|}{0} & \multicolumn{4}{|c|}{0} & & & & & & & & \\
\hline Right Turn Channelized & & & & & & & & & \multicolumn{4}{|c|}{No} & & & & \\
\hline Median Type | Storage & \multicolumn{8}{|c|}{Undivided} & \multicolumn{8}{|l|}{} \\
\hline \multicolumn{17}{|l|}{Critical and Follow-up Headways} \\
\hline
\end{tabular}


\section*{Delay, Queue Length, and Level of Service}


\section*{Year 2030}

\section*{General Information}
\begin{tabular}{|l|l|l|l|}
\hline Analyst & Sophia Semensky & Intersection & NW 140th at NW 128th PI \\
\hline Agency/Co. & CHW Consultants & Jurisdiction & Alachua County \\
\hline Date Performed & \(11 / 26 / 2018\) & East/West Street & NW 128th PI \\
\hline Analysis Year & 2030 & North/South Street & NW 140th St \\
\hline Time Analyzed & AM 2030 50\% Build-out & Peak Hour Factor & 0.98 \\
\hline Intersection Orientation & North-South & Analysis Time Period (hrs) & 0.25 \\
\hline Project Description & San Felasco Parkway & & \\
\hline Lanes & & \\
\hline
\end{tabular}


\section*{Vehicle Volumes and Adjustments}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Approach & \multicolumn{4}{|c|}{Eastbound} & \multicolumn{4}{|c|}{Westbound} & \multicolumn{4}{|c|}{Northbound} & \multicolumn{4}{|c|}{Southbound} \\
\hline Movement & U & L & T & R & U & L & T & R & U & L & T & R & U & L & T & R \\
\hline Priority & & 10 & 11 & 12 & & 7 & 8 & 9 & 1 U & 1 & 2 & 3 & 4 U & 4 & 5 & 6 \\
\hline Number of Lanes & & 0 & 1 & 0 & & 1 & 1 & 0 & 0 & 0 & 1 & 1 & 0 & 1 & 1 & 0 \\
\hline Configuration & & & LTR & & & L & & TR & & LT & & R & & L & & TR \\
\hline Volume (veh/h) & & 6 & 0 & 2 & & 55 & 0 & 67 & & 2 & 297 & 157 & & 326 & 589 & 1 \\
\hline Percent Heavy Vehicles (\%) & & 0 & 0 & 0 & & 0 & 0 & 0 & & 2 & & & & 8 & & \\
\hline Proportion Time Blocked & & & & & & & & & & & & & & & & \\
\hline Percent Grade (\%) & \multicolumn{4}{|c|}{0} & \multicolumn{4}{|c|}{0} & & & & & & & & \\
\hline Right Turn Channelized & & & & & & & & & \multicolumn{4}{|c|}{No} & & & & \\
\hline Median Type | Storage & \multicolumn{8}{|c|}{Undivided} & \multicolumn{8}{|l|}{} \\
\hline
\end{tabular}

\section*{Critical and Follow-up Headways}


\section*{Delay, Queue Length, and Level of Service}


\section*{General Information}
\begin{tabular}{|l|l|l|l|}
\hline General Information & \multicolumn{1}{l|}{ Site Information } \\
\hline Analyst & Sophia Semensky & Intersection & NW 140th at NW 128th Pl \\
\hline Agency/Co. & CHW Consultants & Jurisdiction & Alachua County \\
\hline Date Performed & \(11 / 26 / 2018\) & East/West Street & NW 128th PI \\
\hline Analysis Year & 2030 & North/South Street & NW 140th St \\
\hline Time Analyzed & PM Peak 2030 50\% Buildout & Peak Hour Factor & 0.93 \\
\hline Intersection Orientation & North-South & Analysis Time Period (hrs) & 0.25 \\
\hline Project Description & San Felasco Parkway & & \\
\hline Lanes & & \\
\hline
\end{tabular}


\section*{Vehicle Volumes and Adjustments}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Approach & \multicolumn{4}{|c|}{Eastbound} & \multicolumn{4}{|c|}{Westbound} & \multicolumn{4}{|c|}{Northbound} & \multicolumn{4}{|c|}{Southbound} \\
\hline Movement & U & L & T & R & U & L & T & R & U & L & T & R & U & L & T & R \\
\hline Priority & & 10 & 11 & 12 & & 7 & 8 & 9 & 1U & 1 & 2 & 3 & 4 U & 4 & 5 & 6 \\
\hline Number of Lanes & & 0 & 1 & 0 & & 1 & 1 & 0 & 0 & 0 & 1 & 1 & 0 & 1 & 1 & 0 \\
\hline Configuration & & & LTR & & & L & & TR & & LT & & R & & L & & TR \\
\hline Volume (veh/h) & & 5 & 0 & 2 & & 200 & 0 & 471 & & 3 & 293 & 82 & & 90 & 338 & 9 \\
\hline Percent Heavy Vehicles (\%) & & 0 & 0 & 0 & & 0 & 0 & 0 & & 2 & & & & 1 & & \\
\hline Proportion Time Blocked & & & & & & & & & & & & & & & & \\
\hline Percent Grade (\%) & \multicolumn{4}{|c|}{0} & \multicolumn{4}{|c|}{0} & & & & & & & & \\
\hline Right Turn Channelized & & & & & & & & & \multicolumn{4}{|c|}{No} & & & & \\
\hline Median Type | Storage & \multicolumn{8}{|c|}{Undivided} & \multicolumn{8}{|l|}{} \\
\hline \multicolumn{17}{|l|}{Critical and Follow-up Headways} \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Base Critical Headway (sec) & 7.1 & 6.5 & 6.2 & 7.1 & 6.5 & 6.2 & 4.1 & & & & 4.1 & & \\
\hline Critical Headway (sec) & 7.10 & 6.50 & 6.20 & 7.10 & 6.50 & 6.20 & 4.12 & & & & 4.11 & & \\
\hline Base Follow-Up Headway (sec) & 3.5 & 4.0 & 3.3 & 3.5 & 4.0 & 3.3 & 2.2 & & & & 2.2 & & \\
\hline Follow-Up Headway (sec) & 3.50 & 4.00 & 3.30 & 3.50 & 4.00 & 3.30 & 2.22 & & & & 2.21 & & \\
\hline
\end{tabular}

\section*{Delay, Queue Length, and Level of Service}

\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Lane Group & EBL & EBT & EBR & WBL & WBT & WBR & NBL & NBT & NBR & SBL & SBT & SBR \\
\hline Lane Configurations & & \$ & & \({ }^{1}\) & \(\uparrow\) & & \({ }^{1}\) & 4 & 「 & \({ }^{1}\) & \(\uparrow\) & \\
\hline Traffic Volume (vph) & 6 & 0 & 2 & 55 & 0 & 67 & 2 & 297 & 157 & 326 & 589 & 1 \\
\hline Future Volume (vph) & 6 & 0 & 2 & 55 & 0 & 67 & 2 & 297 & 157 & 326 & 589 & 1 \\
\hline Ideal Flow (vphpl) & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 \\
\hline Storage Length (ft) & 0 & & 0 & 0 & & 0 & 300 & & 0 & 0 & & 0 \\
\hline Storage Lanes & 0 & & 0 & 1 & & 0 & 1 & & 1 & 1 & & 0 \\
\hline Taper Length (ft) & 25 & & & 25 & & & 25 & & & 25 & & \\
\hline Lane Util. Factor & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 \\
\hline Frt & & 0.966 & & & 0.850 & & & & 0.850 & & & \\
\hline Flt Protected & & 0.964 & & 0.950 & & & 0.950 & & & 0.950 & & \\
\hline Satd. Flow (prot) & 0 & 1769 & 0 & 1719 & 1538 & 0 & 1770 & 1863 & 1583 & 1671 & 1759 & 0 \\
\hline Flt Permitted & & 0.729 & & 0.744 & & & 0.413 & & & 0.374 & & \\
\hline Satd. Flow (perm) & 0 & 1338 & 0 & 1346 & 1538 & 0 & 769 & 1863 & 1583 & 658 & 1759 & 0 \\
\hline Right Turn on Red & & & Yes & & & Yes & & & Yes & & & Yes \\
\hline Satd. Flow (RTOR) & & 151 & & & 518 & & & & 194 & & & \\
\hline Link Speed (mph) & & 25 & & & 30 & & & 45 & & & 45 & \\
\hline Link Distance (ft) & & 801 & & & 940 & & & 813 & & & 905 & \\
\hline Travel Time (s) & & 21.8 & & & 21.4 & & & 12.3 & & & 13.7 & \\
\hline Peak Hour Factor & 0.40 & 0.40 & 0.40 & 0.85 & 0.85 & 0.85 & 0.81 & 0.81 & 0.81 & 0.89 & 0.89 & 0.89 \\
\hline Heavy Vehicles (\%) & 0\% & 0\% & 0\% & 5\% & 5\% & 5\% & 2\% & 2\% & 2\% & 8\% & 8\% & 8\% \\
\hline Adj. Flow (vph) & 15 & 0 & 5 & 65 & 0 & 79 & 2 & 367 & 194 & 366 & 662 & 1 \\
\hline \multicolumn{13}{|l|}{Shared Lane Traffic (\%)} \\
\hline Lane Group Flow (vph) & 0 & 20 & 0 & 65 & 79 & 0 & 2 & 367 & 194 & 366 & 663 & 0 \\
\hline Turn Type & Perm & NA & & Perm & NA & & Perm & NA & Perm & pm+pt & NA & \\
\hline Protected Phases & & 4 & & & 8 & & & 2 & & 1 & 6 & \\
\hline Permitted Phases & 4 & & & 8 & & & 2 & & 2 & 6 & & \\
\hline Detector Phase & 4 & 4 & & 8 & 8 & & 2 & 2 & 2 & 1 & 6 & \\
\hline \multicolumn{13}{|l|}{Switch Phase} \\
\hline Minimum Initial (s) & 5.0 & 5.0 & & 5.0 & 5.0 & & 5.0 & 5.0 & 5.0 & 5.0 & 5.0 & \\
\hline Minimum Split (s) & 22.5 & 22.5 & & 22.5 & 22.5 & & 22.5 & 22.5 & 22.5 & 16.0 & 22.5 & \\
\hline Total Split (s) & 22.5 & 22.5 & & 22.5 & 22.5 & & 26.5 & 26.5 & 26.5 & 16.0 & 42.5 & \\
\hline Total Split (\%) & 34.6\% & 34.6\% & & 34.6\% & 34.6\% & & 40.8\% & 40.8\% & 40.8\% & 24.6\% & 65.4\% & \\
\hline Maximum Green (s) & 16.5 & 16.5 & & 16.5 & 16.5 & & 20.5 & 20.5 & 20.5 & 10.0 & 36.5 & \\
\hline Yellow Time (s) & 4.0 & 4.0 & & 4.0 & 4.0 & & 4.0 & 4.0 & 4.0 & 4.0 & 4.0 & \\
\hline All-Red Time (s) & 2.0 & 2.0 & & 2.0 & 2.0 & & 2.0 & 2.0 & 2.0 & 2.0 & 2.0 & \\
\hline Lost Time Adjust (s) & & 0.0 & & 0.0 & 0.0 & & 0.0 & 0.0 & 0.0 & 0.0 & 0.0 & \\
\hline Total Lost Time (s) & & 6.0 & & 6.0 & 6.0 & & 6.0 & 6.0 & 6.0 & 6.0 & 6.0 & \\
\hline Lead/Lag & & & & & & & Lag & Lag & Lag & Lead & & \\
\hline Lead-Lag Optimize? & & & & & & & Yes & Yes & Yes & Yes & & \\
\hline Vehicle Extension (s) & 3.0 & 3.0 & & 3.0 & 3.0 & & 3.0 & 3.0 & 3.0 & 3.0 & 3.0 & \\
\hline Recall Mode & None & None & & None & None & & Max & Max & Max & None & Max & \\
\hline Act Effct Green (s) & & 8.1 & & 8.1 & 8.1 & & 21.8 & 21.8 & 21.8 & 37.0 & 38.6 & \\
\hline Actuated g/C Ratio & & 0.15 & & 0.15 & 0.15 & & 0.40 & 0.40 & 0.40 & 0.68 & 0.71 & \\
\hline v/c Ratio & & 0.06 & & 0.32 & 0.12 & & 0.01 & 0.49 & 0.26 & 0.59 & 0.53 & \\
\hline Control Delay & & 0.4 & & 26.1 & 0.4 & & 13.0 & 17.3 & 3.7 & 9.3 & 7.9 & \\
\hline Queue Delay & & 0.0 & & 0.0 & 0.0 & & 0.0 & 0.0 & 0.0 & 0.0 & 0.0 & \\
\hline Total Delay & & 0.4 & & 26.1 & 0.4 & & 13.0 & 17.3 & 3.7 & 9.3 & 7.9 & \\
\hline LOS & & A & & C & A & & B & B & A & A & A & \\
\hline Approach Delay & & 0.4 & & & 12.0 & & & 12.6 & & & 8.4 & \\
\hline
\end{tabular}

AM 2030 Buildout
4: NW 140th St \& NW 128th PI/San Felasco Parkway
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline & 4 & \(\rightarrow\) & & 7 & & & 4 & \(\dagger\) & / & * & \(\frac{1}{*}\) & 4 \\
\hline Lane Group & EBL & EBT & EBR & WBL & WBT & WBR & NBL & NBT & NBR & SBL & SBT & SBR \\
\hline Approach LOS & & A & & & B & & & B & & & A & \\
\hline Queue Length 50th (ft) & & 0 & & 20 & 0 & & 0 & 95 & 0 & 46 & 103 & \\
\hline Queue Length 95th (ft) & & 0 & & 47 & 0 & & 4 & 157 & 27 & 98 & 215 & \\
\hline Internal Link Dist (ft) & & 721 & & & 860 & & & 733 & & & 825 & \\
\hline Turn Bay Length (ft) & & & & & & & 300 & & & & & \\
\hline Base Capacity (vph) & & 516 & & 414 & 831 & & 307 & 745 & 749 & 636 & 1247 & \\
\hline Starvation Cap Reductn & & 0 & & 0 & 0 & & 0 & 0 & 0 & 0 & 0 & \\
\hline Spillback Cap Reductn & & 0 & & 0 & 0 & & 0 & 0 & 0 & 0 & 0 & \\
\hline Storage Cap Reductn & & 0 & & 0 & 0 & & 0 & 0 & 0 & 0 & 0 & \\
\hline Reduced v/c Ratio & & 0.04 & & 0.16 & 0.10 & & 0.01 & 0.49 & 0.26 & 0.58 & 0.53 & \\
\hline
\end{tabular}

\section*{Intersection Summary}

\section*{Area Type: Other}

Cycle Length: 65
Actuated Cycle Length: 54.4
Natural Cycle: 65
Control Type: Actuated-Uncoordinated
Maximum v/c Ratio: 0.59
Intersection Signal Delay: 10.0
Intersection Capacity Utilization 55.8\%
Intersection LOS: A
Analysis Period (min) 15
Splits and Phases: 4: NW 140th St \& NW 128th PI/San Felasco Parkway

\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Lane Group & EBL & EBT & EBR & WBL & WBT & WBR & NBL & NBT & NBR & SBL & SBT & SBR \\
\hline Lane Configurations & & * & & \% & \(\uparrow\) & & \({ }^{7}\) & 4 & 「 & \({ }^{7}\) & \(\dagger\) & \\
\hline Traffic Volume (vph) & 5 & 0 & 2 & 200 & 0 & 471 & 3 & 293 & 82 & 90 & 338 & 9 \\
\hline Future Volume (vph) & 5 & 0 & 2 & 200 & 0 & 471 & 3 & 293 & 82 & 90 & 338 & 9 \\
\hline Ideal Flow (vphpl) & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 \\
\hline Storage Length (ft) & 0 & & 0 & 0 & & 0 & 300 & & 0 & 0 & & 0 \\
\hline Storage Lanes & 0 & & 0 & 1 & & 0 & 1 & & 1 & 1 & & 0 \\
\hline Taper Length (ft) & 25 & & & 25 & & & 25 & & & 25 & & \\
\hline Lane Util. Factor & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 \\
\hline Frt & & 0.966 & & & 0.850 & & & & 0.850 & & 0.996 & \\
\hline Fit Protected & & 0.964 & & 0.950 & & & 0.950 & & & 0.950 & & \\
\hline Satd. Flow (prot) & 0 & 1769 & 0 & 1770 & 1583 & 0 & 1770 & 1863 & 1583 & 1787 & 1874 & 0 \\
\hline Flt Permitted & & 0.495 & & 0.750 & & & 0.538 & & & 0.438 & & \\
\hline Satd. Flow (perm) & 0 & 909 & 0 & 1397 & 1583 & 0 & 1002 & 1863 & 1583 & 824 & 1874 & 0 \\
\hline Right Turn on Red & & & Yes & & & Yes & & & Yes & & & Yes \\
\hline Satd. Flow (RTOR) & & 149 & & & 456 & & & & 149 & & 3 & \\
\hline Link Speed (mph) & & 25 & & & 35 & & & 45 & & & 45 & \\
\hline Link Distance (ft) & & 801 & & & 940 & & & 813 & & & 905 & \\
\hline Travel Time (s) & & 21.8 & & & 18.3 & & & 12.3 & & & 13.7 & \\
\hline Peak Hour Factor & 0.58 & 0.58 & 0.58 & 0.92 & 0.92 & 0.92 & 0.92 & 0.92 & 0.92 & 0.92 & 0.92 & 0.92 \\
\hline Heavy Vehicles (\%) & 0\% & 0\% & 0\% & 2\% & 2\% & 2\% & 2\% & 2\% & 2\% & 1\% & 1\% & 1\% \\
\hline Adj. Flow (vph) & 9 & 0 & 3 & 217 & 0 & 512 & 3 & 318 & 89 & 98 & 367 & 10 \\
\hline \multicolumn{13}{|l|}{Shared Lane Traffic (\%)} \\
\hline Lane Group Flow (vph) & 0 & 12 & 0 & 217 & 512 & 0 & 3 & 318 & 89 & 98 & 377 & 0 \\
\hline Turn Type & Perm & NA & & Perm & NA & & Perm & NA & Perm & pm+pt & NA & \\
\hline Protected Phases & & 4 & & & 8 & & & 2 & & 1 & 6 & \\
\hline Permitted Phases & 4 & & & 8 & & & 2 & & 2 & 6 & & \\
\hline Detector Phase & 4 & 4 & & 8 & 8 & & 2 & 2 & 2 & 1 & 6 & \\
\hline \multicolumn{13}{|l|}{Switch Phase} \\
\hline Minimum Initial (s) & 5.0 & 5.0 & & 5.0 & 5.0 & & 5.0 & 5.0 & 5.0 & 5.0 & 5.0 & \\
\hline Minimum Split (s) & 24.0 & 24.0 & & 24.0 & 24.0 & & 20.0 & 20.0 & 20.0 & 9.5 & 24.0 & \\
\hline Total Split (s) & 24.0 & 24.0 & & 24.0 & 24.0 & & 21.5 & 21.5 & 21.5 & 9.5 & 31.0 & \\
\hline Total Split (\%) & 43.6\% & 43.6\% & & 43.6\% & 43.6\% & & 39.1\% & 39.1\% & 39.1\% & 17.3\% & 56.4\% & \\
\hline Maximum Green (s) & 18.0 & 18.0 & & 18.0 & 18.0 & & 15.5 & 15.5 & 15.5 & 5.0 & 25.0 & \\
\hline Yellow Time (s) & 4.0 & 4.0 & & 4.0 & 4.0 & & 4.0 & 4.0 & 4.0 & 3.5 & 4.0 & \\
\hline All-Red Time (s) & 2.0 & 2.0 & & 2.0 & 2.0 & & 2.0 & 2.0 & 2.0 & 1.0 & 2.0 & \\
\hline Lost Time Adjust (s) & & 0.0 & & 0.0 & 0.0 & & 0.0 & 0.0 & 0.0 & 0.0 & 0.0 & \\
\hline Total Lost Time (s) & & 6.0 & & 6.0 & 6.0 & & 6.0 & 6.0 & 6.0 & 4.5 & 6.0 & \\
\hline Lead/Lag & & & & & & & Lag & Lag & Lag & Lead & & \\
\hline Lead-Lag Optimize? & & & & & & & Yes & Yes & Yes & Yes & & \\
\hline Vehicle Extension (s) & 3.0 & 3.0 & & 3.0 & 3.0 & & 3.0 & 3.0 & 3.0 & 3.0 & 3.0 & \\
\hline Recall Mode & None & None & & None & None & & Max & Max & Max & None & Max & \\
\hline Act Effct Green (s) & & 13.6 & & 13.6 & 13.6 & & 19.8 & 19.8 & 19.8 & 26.7 & 25.2 & \\
\hline Actuated g/C Ratio & & 0.27 & & 0.27 & 0.27 & & 0.39 & 0.39 & 0.39 & 0.52 & 0.50 & \\
\hline \(\mathrm{v} / \mathrm{c}\) Ratio & & 0.03 & & 0.58 & 0.68 & & 0.01 & 0.44 & 0.13 & 0.19 & 0.41 & \\
\hline Control Delay & & 0.1 & & 22.6 & 7.9 & & 14.3 & 17.1 & 1.6 & 8.3 & 10.8 & \\
\hline Queue Delay & & 0.0 & & 0.0 & 0.0 & & 0.0 & 0.0 & 0.0 & 0.0 & 0.0 & \\
\hline Total Delay & & 0.1 & & 22.6 & 7.9 & & 14.3 & 17.1 & 1.6 & 8.3 & 10.8 & \\
\hline LOS & & A & & C & A & & B & B & A & A & B & \\
\hline Approach Delay & & 0.1 & & & 12.3 & & & 13.7 & & & 10.2 & \\
\hline
\end{tabular}

PM 2030 Buildout
4: NW 140th St \& NW 128th PI/San Felasco Parkway
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline & 4 & \(\rightarrow\) & & 7 & & & 4 & 4 & 1 & * & + & \(\downarrow\) \\
\hline Lane Group & EBL & EBT & EBR & WBL & WBT & WBR & NBL & NBT & NBR & SBL & SBT & SBR \\
\hline Approach LOS & & A & & & B & & & B & & & B & \\
\hline Queue Length 50th (ft) & & 0 & & 55 & 13 & & 1 & 81 & 0 & 14 & 67 & \\
\hline Queue Length 95th (ft) & & 0 & & 109 & 76 & & 6 & 159 & 11 & 37 & 137 & \\
\hline Internal Link Dist (ft) & & 721 & & & 860 & & & 733 & & & 825 & \\
\hline Turn Bay Length (ft) & & & & & & & 300 & & & & & \\
\hline Base Capacity (vph) & & 419 & & 497 & 857 & & 389 & 725 & 707 & 527 & 928 & \\
\hline Starvation Cap Reductn & & 0 & & 0 & 0 & & 0 & 0 & 0 & 0 & 0 & \\
\hline Spillback Cap Reductn & & 0 & & 0 & 0 & & 0 & 0 & 0 & 0 & 0 & \\
\hline Storage Cap Reductn & & 0 & & 0 & 0 & & 0 & 0 & 0 & 0 & 0 & \\
\hline Reduced v/c Ratio & & 0.03 & & 0.44 & 0.60 & & 0.01 & 0.44 & 0.13 & 0.19 & 0.41 & \\
\hline
\end{tabular}

\section*{Intersection Summary}
```

Area Type: Other

```

Cycle Length: 55
Actuated Cycle Length: 50.9
Natural Cycle: 55
Control Type: Actuated-Uncoordinated
Maximum v/c Ratio: 0.68
Intersection Signal Delay: 12.0
Intersection LOS: B
Intersection Capacity Utilization 66.7\% ICU Level of Service C
Analysis Period (min) 15
Splits and Phases: 4: NW 140th St \& NW 128th P//San Felasco Parkway


Design Year 2040
\begin{tabular}{|l|l|l|l|}
\hline \multicolumn{2}{|l|}{ General Information } & \multicolumn{1}{l|}{ Site Information } \\
\hline Analyst & Sophia Semensky & Intersection & NW 140th at NW 128th PI \\
\hline Agency/Co. & CHW Consultants & Jurisdiction & Alachua County \\
\hline Date Performed & \(11 / 15 / 2018\) & East/West Street & NW 128th PI \\
\hline Analysis Year & 2040 & North/South Street & NW 140th St \\
\hline Time Analyzed & AM 2040 Build-out & Peak Hour Factor & 0.98 \\
\hline Intersection Orientation & North-South & Analysis Time Period (hrs) & 0.25 \\
\hline Project Description & San Felasco Parkway & & \\
\hline Lanes & & & \\
\hline
\end{tabular}


\section*{Vehicle Volumes and Adjustments}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Approach & \multicolumn{4}{|c|}{Eastbound} & \multicolumn{4}{|c|}{Westbound} & \multicolumn{4}{|c|}{Northbound} & \multicolumn{4}{|c|}{Southbound} \\
\hline Movement & U & L & T & R & U & L & T & R & U & L & T & R & U & L & T & R \\
\hline Priority & & 10 & 11 & 12 & & 7 & 8 & 9 & 1U & 1 & 2 & 3 & 4 U & 4 & 5 & 6 \\
\hline Number of Lanes & & 0 & 1 & 0 & & 1 & 1 & 0 & 0 & 0 & 1 & 1 & 0 & 1 & 1 & 0 \\
\hline Configuration & & & LTR & & & L & & TR & & LT & & R & & L & & TR \\
\hline Volume (veh/h) & & 6 & 0 & 2 & & 69 & 0 & 133 & & 2 & 329 & 212 & & 651 & 651 & 1 \\
\hline Percent Heavy Vehicles (\%) & & 0 & 0 & 0 & & 0 & 0 & 0 & & 2 & & & & 8 & & \\
\hline Proportion Time Blocked & & & & & & & & & & & & & & & & \\
\hline Percent Grade (\%) & \multicolumn{4}{|c|}{0} & \multicolumn{4}{|c|}{0} & & & & & & & & \\
\hline Right Turn Channelized & & & & & & & & & \multicolumn{4}{|c|}{No} & & & & \\
\hline Median Type | Storage & \multicolumn{8}{|c|}{Undivided} & \multicolumn{8}{|l|}{} \\
\hline \multicolumn{17}{|l|}{Critical and Follow-up Headways} \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Base Critical Headway (sec) & 7.1 & 6.5 & 6.2 & 7.1 & 6.5 & 6.2 & 4.1 & & & & 4.1 & & \\
\hline Critical Headway (sec) & 7.10 & 6.50 & 6.20 & 7.10 & 6.50 & 6.20 & 4.12 & & & & 4.18 & & \\
\hline Base Follow-Up Headway (sec) & 3.5 & 4.0 & 3.3 & 3.5 & 4.0 & 3.3 & 2.2 & & & & 2.2 & & \\
\hline Follow-Up Headway (sec) & 3.50 & 4.00 & 3.30 & 3.50 & 4.00 & 3.30 & 2.22 & & & & 2.27 & & \\
\hline
\end{tabular}

\section*{Delay, Queue Length, and Level of Service}

\begin{tabular}{|l|l|l|l|}
\hline \multicolumn{2}{|l|}{ General Information } & \multicolumn{1}{l|}{ Site Information } \\
\hline Analyst & Sophia Semensky & Intersection & NW 140th at NW 128th Pl \\
\hline Agency/Co. & CHW Consultants & Jurisdiction & Alachua County \\
\hline Date Performed & \(11 / 15 / 2018\) & East/West Street & NW 128th PI \\
\hline Analysis Year & 2040 & North/South Street & NW 140th St \\
\hline Time Analyzed & PM Peak Hr 2040 Build-out & Peak Hour Factor & 0.93 \\
\hline Intersection Orientation & North-South & Analysis Time Period (hrs) & 0.25 \\
\hline Project Description & San Felasco Parkway & & \\
\hline Lanes & & & \\
\hline
\end{tabular}


\section*{Vehicle Volumes and Adjustments}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Approach & \multicolumn{4}{|c|}{Eastbound} & \multicolumn{4}{|c|}{Westbound} & \multicolumn{4}{|c|}{Northbound} & \multicolumn{4}{|c|}{Southbound} \\
\hline Movement & U & L & T & R & U & L & T & R & U & L & T & R & U & L & T & R \\
\hline Priority & & 10 & 11 & 12 & & 7 & 8 & 9 & 1 U & 1 & 2 & 3 & 4 U & 4 & 5 & 6 \\
\hline Number of Lanes & & 0 & 1 & 0 & & 1 & 1 & 0 & 0 & 0 & 1 & 1 & 0 & 1 & 1 & 0 \\
\hline Configuration & & & LTR & & & L & & TR & & LT & & R & & L & & TR \\
\hline Volume (veh/h) & & 5 & 0 & 2 & & 279 & 0 & 941 & & 4 & 324 & 101 & & 179 & 373 & 10 \\
\hline Percent Heavy Vehicles (\%) & & 0 & 0 & 0 & & 0 & 0 & 0 & & 2 & & & & 1 & & \\
\hline Proportion Time Blocked & & & & & & & & & & & & & & & & \\
\hline Percent Grade (\%) & \multicolumn{4}{|c|}{0} & \multicolumn{4}{|c|}{0} & & & & & & & & \\
\hline Right Turn Channelized & & & & & & & & & \multicolumn{4}{|c|}{No} & & & & \\
\hline Median Type | Storage & \multicolumn{8}{|c|}{Undivided} & \multicolumn{8}{|l|}{} \\
\hline \multicolumn{17}{|l|}{Critical and Follow-up Headways} \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Base Critical Headway (sec) & 7.1 & 6.5 & 6.2 & 7.1 & 6.5 & 6.2 & 4.1 & & & & 4.1 & & \\
\hline Critical Headway (sec) & 7.10 & 6.50 & 6.20 & 7.10 & 6.50 & 6.20 & 4.12 & & & & 4.11 & & \\
\hline Base Follow-Up Headway (sec) & 3.5 & 4.0 & 3.3 & 3.5 & 4.0 & 3.3 & 2.2 & & & & 2.2 & & \\
\hline Follow-Up Headway (sec) & 3.50 & 4.00 & 3.30 & 3.50 & 4.00 & 3.30 & 2.22 & & & & 2.21 & & \\
\hline
\end{tabular}

\section*{Delay, Queue Length, and Level of Service}

\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline & 4 & \(\rightarrow\) & \(\dagger\) & 4 & 4 & 4 & 4 & \(\dagger\) & \% & \[
t
\] & \(\frac{1}{4}\) & 4 \\
\hline Lane Group & EBL & EBT & EBR & WBL & WBT & WBR & NBL & NBT & NBR & SBL & SBT & SBR \\
\hline Lane Configurations & & 4 & & \({ }^{1}\) & 个 & & \({ }^{1}\) & 4 & 「 & \({ }^{*}\) & F & \\
\hline Traffic Volume (vph) & 6 & 0 & 2 & 69 & 0 & 133 & 2 & 329 & 212 & 651 & 651 & 1 \\
\hline Future Volume (vph) & 6 & 0 & 2 & 69 & 0 & 133 & 2 & 329 & 212 & 651 & 651 & 1 \\
\hline Ideal Flow (vphpl) & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 \\
\hline Storage Length (ft) & 0 & & 0 & 0 & & 0 & 300 & & 0 & 0 & & 0 \\
\hline Storage Lanes & 0 & & 0 & 1 & & 0 & 1 & & 1 & 1 & & 0 \\
\hline Taper Length (ft) & 25 & & & 25 & & & 25 & & & 25 & & \\
\hline Lane Util. Factor & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 \\
\hline Frt & & 0.966 & & & 0.850 & & & & 0.850 & & & \\
\hline Fit Protected & & 0.964 & & 0.950 & & & 0.950 & & & 0.950 & & \\
\hline Satd. Flow (prot) & 0 & 1769 & 0 & 1719 & 1538 & 0 & 1770 & 1863 & 1583 & 1671 & 1759 & 0 \\
\hline Flt Permitted & & 0.524 & & 0.744 & & & 0.387 & & & 0.206 & & \\
\hline Satd. Flow (perm) & 0 & 962 & 0 & 1346 & 1538 & 0 & 721 & 1863 & 1583 & 362 & 1759 & 0 \\
\hline Right Turn on Red & & & Yes & & & Yes & & & Yes & & & Yes \\
\hline Satd. Flow (RTOR) & & 182 & & & 735 & & & & 262 & & & \\
\hline Link Speed (mph) & & 25 & & & 30 & & & 45 & & & 45 & \\
\hline Link Distance (ft) & & 801 & & & 940 & & & 813 & & & 905 & \\
\hline Travel Time (s) & & 21.8 & & & 21.4 & & & 12.3 & & & 13.7 & \\
\hline Peak Hour Factor & 0.40 & 0.40 & 0.40 & 0.85 & 0.85 & 0.85 & 0.81 & 0.81 & 0.81 & 0.89 & 0.89 & 0.89 \\
\hline Heavy Vehicles (\%) & 0\% & 0\% & 0\% & 5\% & 5\% & 5\% & 2\% & 2\% & 2\% & 8\% & 8\% & 8\% \\
\hline Adj. Flow (vph) & 15 & 0 & 5 & 81 & 0 & 156 & 2 & 406 & 262 & 731 & 731 & 1 \\
\hline \multicolumn{13}{|l|}{Shared Lane Traffic (\%)} \\
\hline Lane Group Flow (vph) & 0 & 20 & 0 & 81 & 156 & 0 & 2 & 406 & 262 & 731 & 732 & 0 \\
\hline Turn Type & Perm & NA & & Perm & NA & & Perm & NA & Perm & pm+pt & NA & \\
\hline Protected Phases & & 4 & & & 8 & & & 2 & & 19 & 6 & \\
\hline Permitted Phases & 4 & & & 8 & & & 2 & & 2 & 6 & & \\
\hline Detector Phase & 4 & 4 & & 8 & 8 & & 2 & 2 & 2 & 19 & 6 & \\
\hline \multicolumn{13}{|l|}{Switch Phase} \\
\hline Minimum Initial (s) & 5.0 & 5.0 & & 5.0 & 5.0 & & 5.0 & 5.0 & 5.0 & & 5.0 & \\
\hline Minimum Split (s) & 14.0 & 14.0 & & 14.0 & 14.0 & & 22.5 & 22.5 & 22.5 & & 22.5 & \\
\hline Total Split (s) & 14.0 & 14.0 & & 14.0 & 14.0 & & 27.0 & 27.0 & 27.0 & & 76.0 & \\
\hline Total Split (\%) & 15.6\% & 15.6\% & & 15.6\% & 15.6\% & & 30.0\% & 30.0\% & 30.0\% & & 84.4\% & \\
\hline Maximum Green (s) & 8.0 & 8.0 & & 8.0 & 8.0 & & 21.0 & 21.0 & 21.0 & & 70.0 & \\
\hline Yellow Time (s) & 4.0 & 4.0 & & 4.0 & 4.0 & & 4.0 & 4.0 & 4.0 & & 4.0 & \\
\hline All-Red Time (s) & 2.0 & 2.0 & & 2.0 & 2.0 & & 2.0 & 2.0 & 2.0 & & 2.0 & \\
\hline Lost Time Adjust (s) & & 0.0 & & 0.0 & 0.0 & & 0.0 & 0.0 & 0.0 & & 0.0 & \\
\hline Total Lost Time (s) & & 6.0 & & 6.0 & 6.0 & & 6.0 & 6.0 & 6.0 & & 6.0 & \\
\hline Lead/Lag & & & & & & & Lag & Lag & Lag & & & \\
\hline Lead-Lag Optimize? & & & & & & & Yes & Yes & Yes & & & \\
\hline Vehicle Extension (s) & 3.0 & 3.0 & & 3.0 & 3.0 & & 3.0 & 3.0 & 3.0 & & 3.0 & \\
\hline Recall Mode & None & None & & None & None & & Max & Max & Max & & Max & \\
\hline Act Effct Green (s) & & 7.7 & & 7.7 & 7.7 & & 21.0 & 21.0 & 21.0 & 70.0 & 70.0 & \\
\hline Actuated g/C Ratio & & 0.09 & & 0.09 & 0.09 & & 0.23 & 0.23 & 0.23 & 0.78 & 0.78 & \\
\hline v/c Ratio & & 0.08 & & 0.70 & 0.19 & & 0.01 & 0.93 & 0.46 & 0.89 & 0.53 & \\
\hline Control Delay & & 0.6 & & 72.1 & 0.5 & & 27.0 & 64.7 & 6.7 & 25.1 & 5.4 & \\
\hline Queue Delay & & 0.0 & & 0.0 & 0.0 & & 0.0 & 0.0 & 0.0 & 0.0 & 0.0 & \\
\hline Total Delay & & 0.6 & & 72.1 & 0.5 & & 27.0 & 64.7 & 6.7 & 25.1 & 5.4 & \\
\hline LOS & & A & & E & A & & C & E & A & C & A & \\
\hline Approach Delay & & 0.6 & & & 25.0 & & & 41.9 & & & 15.3 & \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|}
\hline Lane Group & \(\varnothing 1\) & \(\varnothing 9\) & \\
\hline Lane Configurations & & & \\
\hline Traffic Volume (vph) & & & \\
\hline Future Volume (vph) & & & \\
\hline Ideal Flow (vphpl) & & & \\
\hline Storage Length (ft) & & & \\
\hline Storage Lanes & & & \\
\hline Taper Length (ft) & & & \\
\hline Lane Util. Factor & & & \\
\hline Frt & & & \\
\hline Flt Protected & & & \\
\hline Satd. Flow (prot) & & & \\
\hline Flt Permitted & & & \\
\hline Satd. Flow (perm) & & & \\
\hline Right Turn on Red & & & \\
\hline Satd. Flow (RTOR) & & & \\
\hline Link Speed (mph) & & & \\
\hline Link Distance (ft) & & & \\
\hline Travel Time (s) & & & \\
\hline Peak Hour Factor & & & \\
\hline Heavy Vehicles (\%) & & & \\
\hline Adj. Flow (vph) & & & \\
\hline Shared Lane Traffic (\%) & & & \\
\hline Lane Group Flow (vph) & & & \\
\hline Turn Type & & & \\
\hline Protected Phases & 1 & 9 & \\
\hline Permitted Phases & & & \\
\hline Detector Phase & & & \\
\hline Switch Phase & & & \\
\hline Minimum Initial (s) & 5.0 & 5.0 & \\
\hline Minimum Split (s) & 16.0 & 9.5 & \\
\hline Total Split (s) & 31.0 & 18.0 & \\
\hline Total Split (\%) & 34\% & 20\% & \\
\hline Maximum Green (s) & 25.0 & 13.5 & \\
\hline Yellow Time (s) & 4.0 & 3.5 & \\
\hline All-Red Time (s) & 2.0 & 1.0 & \\
\hline Lost Time Adjust (s) & & & \\
\hline Total Lost Time (s) & & & \\
\hline Lead/Lag & Lead & & \\
\hline Lead-Lag Optimize? & Yes & & \\
\hline Vehicle Extension (s) & 3.0 & 3.0 & \\
\hline Recall Mode & None & None & \\
\hline Act Effct Green (s) & & & \\
\hline Actuated g/C Ratio & & & \\
\hline \(\mathrm{v} / \mathrm{c}\) Ratio & & & \\
\hline Control Delay & & & \\
\hline Queue Delay & & & \\
\hline Total Delay & & & \\
\hline LOS & & & \\
\hline Approach Delay & & & \\
\hline Baseline & & & Synchro 9 Report Page 2 \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline & 4 & \(\rightarrow\) & 7 & 7 & & & 4 & \(\dagger\) & 7 & * & \(\frac{1}{*}\) & \(\downarrow\) \\
\hline Lane Group & EBL & EBT & EBR & WBL & WBT & WBR & NBL & NBT & NBR & SBL & SBT & SBR \\
\hline Approach LOS & & A & & & C & & & D & & & B & \\
\hline Queue Length 50th (ft) & & 0 & & 46 & 0 & & 1 & 227 & 0 & 135 & 122 & \\
\hline Queue Length 95th (ft) & & 0 & & \#107 & 0 & & 6 & \#337 & 40 & \#357 & 181 & \\
\hline Internal Link Dist (ft) & & 721 & & & 860 & & & 733 & & & 825 & \\
\hline Turn Bay Length (ft) & & & & & & & 300 & & & & & \\
\hline Base Capacity (vph) & & 251 & & 119 & 806 & & 168 & 435 & 571 & 854 & 1372 & \\
\hline Starvation Cap Reductn & & 0 & & 0 & 0 & & 0 & 0 & 0 & 0 & 0 & \\
\hline Spillback Cap Reductn & & 0 & & 0 & 0 & & 0 & 0 & 0 & 0 & 0 & \\
\hline Storage Cap Reductn & & 0 & & 0 & 0 & & 0 & 0 & 0 & 0 & 0 & \\
\hline Reduced v/c Ratio & & 0.08 & & 0.68 & 0.19 & & 0.01 & 0.93 & 0.46 & 0.86 & 0.53 & \\
\hline Intersection Summary & & & & & & & & & & & & \\
\hline
\end{tabular}
\begin{tabular}{|c|c|}
\hline \multicolumn{2}{|l|}{Area Type: Other} \\
\hline \multicolumn{2}{|l|}{Cycle Length: 90} \\
\hline \multicolumn{2}{|l|}{Actuated Cycle Length: 89.7} \\
\hline \multicolumn{2}{|l|}{Natural Cycle: 90} \\
\hline \multicolumn{2}{|l|}{Control Type: Actuated-Uncoordinated} \\
\hline \multicolumn{2}{|l|}{Maximum v/c Ratio: 0.93} \\
\hline Intersection Signal Delay: 23.6 & Intersection LOS: C \\
\hline Intersection Capacity Utilization 76.6\% & ICU Level of Service D \\
\hline \multicolumn{2}{|l|}{Analysis Period (min) 15} \\
\hline \# 95th percentile volume exceeds cap & \\
\hline
\end{tabular}

\begin{tabular}{l} 
Lane Group \(\quad \varnothing 1 \quad \varnothing 9\) \\
\hline Approach LOS \\
Queue Length 50th (ft) \\
Queue Length 95th (ft) \\
Internal Link Dist (ft) \\
Turn Bay Length (ft) \\
Base Capacity (vph) \\
Starvation Cap Reductn \\
Spilloack Cap Reductn \\
Storage Cap Reductn \\
Reduced v/c Ratio \\
Intersection Summary \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline & 4 & \(\rightarrow\) & & 4 & & & \[
4
\] & & \% & \(t\) & \(\frac{1}{4}\) & 4 \\
\hline Lane Group & EBL & EBT & EBR & WBL & WBT & WBR & NBL & NBT & NBR & SBL & SBT & SBR \\
\hline Lane Configurations & & \$ & & \({ }^{7}\) & \(\hat{\beta}\) & & \({ }^{1}\) & 4 & 「 & \({ }^{7}\) & F & \\
\hline Traffic Volume (vph) & 5 & 0 & 2 & 279 & 0 & 941 & 4 & 324 & 101 & 179 & 373 & 10 \\
\hline Future Volume (vph) & 5 & 0 & 2 & 279 & 0 & 941 & 4 & 324 & 101 & 179 & 373 & 10 \\
\hline Ideal Flow (vphpl) & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 & 1900 \\
\hline Storage Length (ft) & 0 & & 0 & 0 & & 0 & 300 & & 0 & 0 & & 0 \\
\hline Storage Lanes & 0 & & 0 & 1 & & 0 & 1 & & 1 & 1 & & 0 \\
\hline Taper Length (ft) & 25 & & & 25 & & & 25 & & & 25 & & \\
\hline Lane Util. Factor & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 & 1.00 \\
\hline Frt & & 0.966 & & & 0.850 & & & & 0.850 & & 0.996 & \\
\hline Flt Protected & & 0.964 & & 0.950 & & & 0.950 & & & 0.950 & & \\
\hline Satd. Flow (prot) & 0 & 1769 & 0 & 1770 & 1583 & 0 & 1770 & 1863 & 1583 & 1787 & 1874 & 0 \\
\hline Flt Permitted & & 0.605 & & 0.750 & & & 0.476 & & & 0.181 & & \\
\hline Satd. Flow (perm) & 0 & 1110 & 0 & 1397 & 1583 & 0 & 887 & 1863 & 1583 & 340 & 1874 & 0 \\
\hline Right Turn on Red & & & Yes & & & Yes & & & Yes & & & Yes \\
\hline Satd. Flow (RTOR) & & 91 & & & 367 & & & & 110 & & 2 & \\
\hline Link Speed (mph) & & 25 & & & 35 & & & 45 & & & 45 & \\
\hline Link Distance (ft) & & 801 & & & 940 & & & 813 & & & 905 & \\
\hline Travel Time (s) & & 21.8 & & & 18.3 & & & 12.3 & & & 13.7 & \\
\hline Peak Hour Factor & 0.58 & 0.58 & 0.58 & 0.92 & 0.92 & 0.92 & 0.92 & 0.92 & 0.92 & 0.92 & 0.92 & 0.92 \\
\hline Heavy Vehicles (\%) & 0\% & 0\% & 0\% & 2\% & 2\% & 2\% & 2\% & 2\% & 2\% & 1\% & 1\% & 1\% \\
\hline Adj. Flow (vph) & 9 & 0 & 3 & 303 & 0 & 1023 & 4 & 352 & 110 & 195 & 405 & 11 \\
\hline \multicolumn{13}{|l|}{Shared Lane Traffic (\%)} \\
\hline Lane Group Flow (vph) & 0 & 12 & 0 & 303 & 1023 & 0 & 4 & 352 & 110 & 195 & 416 & 0 \\
\hline Turn Type & Perm & NA & & Perm & NA & & Perm & NA & Perm & pm+pt & NA & \\
\hline Protected Phases & & 4 & & & 8 & & & 2 & & 1 & 6 & \\
\hline Permitted Phases & 4 & & & 8 & & & 2 & & 2 & 6 & & \\
\hline Detector Phase & 4 & 4 & & 8 & 8 & & 2 & 2 & 2 & 1 & 6 & \\
\hline \multicolumn{13}{|l|}{Switch Phase} \\
\hline Minimum Initial (s) & 5.0 & 5.0 & & 5.0 & 5.0 & & 5.0 & 5.0 & 5.0 & 5.0 & 5.0 & \\
\hline Minimum Split (s) & 24.0 & 24.0 & & 24.0 & 24.0 & & 20.0 & 20.0 & 20.0 & 9.5 & 24.0 & \\
\hline Total Split (s) & 55.4 & 55.4 & & 55.4 & 55.4 & & 23.6 & 23.6 & 23.6 & 11.0 & 34.6 & \\
\hline Total Split (\%) & 61.6\% & 61.6\% & & 61.6\% & 61.6\% & & 26.2\% & 26.2\% & 26.2\% & 12.2\% & 38.4\% & \\
\hline Maximum Green (s) & 49.4 & 49.4 & & 49.4 & 49.4 & & 17.6 & 17.6 & 17.6 & 6.5 & 28.6 & \\
\hline Yellow Time (s) & 4.0 & 4.0 & & 4.0 & 4.0 & & 4.0 & 4.0 & 4.0 & 3.5 & 4.0 & \\
\hline All-Red Time (s) & 2.0 & 2.0 & & 2.0 & 2.0 & & 2.0 & 2.0 & 2.0 & 1.0 & 2.0 & \\
\hline Lost Time Adjust (s) & & 0.0 & & 0.0 & 0.0 & & 0.0 & 0.0 & 0.0 & 0.0 & 0.0 & \\
\hline Total Lost Time (s) & & 6.0 & & 6.0 & 6.0 & & 6.0 & 6.0 & 6.0 & 4.5 & 6.0 & \\
\hline Lead/Lag & & & & & & & Lag & Lag & Lag & Lead & & \\
\hline Lead-Lag Optimize? & & & & & & & Yes & Yes & Yes & Yes & & \\
\hline Vehicle Extension (s) & 3.0 & 3.0 & & 3.0 & 3.0 & & 3.0 & 3.0 & 3.0 & 3.0 & 3.0 & \\
\hline Recall Mode & None & None & & None & None & & Max & Max & Max & None & Max & \\
\hline Act Effct Green (s) & & 49.4 & & 49.4 & 49.4 & & 17.6 & 17.6 & 17.6 & 30.1 & 28.6 & \\
\hline Actuated g/C Ratio & & 0.55 & & 0.55 & 0.55 & & 0.20 & 0.20 & 0.20 & 0.33 & 0.32 & \\
\hline v/c Ratio & & 0.02 & & 0.40 & 0.99 & & 0.02 & 0.97 & 0.28 & 0.89 & 0.70 & \\
\hline Control Delay & & 0.0 & & 13.6 & 40.3 & & 29.8 & 77.6 & 8.4 & 66.0 & 34.1 & \\
\hline Queue Delay & & 0.0 & & 0.0 & 0.0 & & 0.0 & 0.0 & 0.0 & 0.0 & 0.0 & \\
\hline Total Delay & & 0.0 & & 13.6 & 40.3 & & 29.8 & 77.6 & 8.4 & 66.0 & 34.1 & \\
\hline LOS & & A & & B & D & & C & E & A & E & C & \\
\hline Approach Delay & & & & & 34.2 & & & 60.8 & & & 44.3 & \\
\hline
\end{tabular}

PM 2040 Buildout
4: NW 140th St \& NW 128th PI/San Felasco Parkway
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline & 4 & \(\rightarrow\) & 7 & 7 & \(\Perp\) & & 4 & \(\dagger\) & 7 & * & \(\frac{1}{\square}\) & \(\downarrow\) \\
\hline Lane Group & EBL & EBT & EBR & WBL & WBT & WBR & NBL & NBT & NBR & SBL & SBT & SBR \\
\hline Approach LOS & & & & & C & & & E & & & D & \\
\hline Queue Length 50th (tt) & & 0 & & 93 & 403 & & 2 & 200 & 0 & 82 & 205 & \\
\hline Queue Length 95th (tt) & & 0 & & 152 & \#742 & & 11 & \#370 & 42 & \#179 & 310 & \\
\hline Internal Link Dist (ft) & & 721 & & & 860 & & & 733 & & & 825 & \\
\hline Turn Bay Length ( ft ) & & & & & & & 300 & & & & & \\
\hline Base Capacity (vph) & & 650 & & 766 & 1034 & & 173 & 364 & 398 & 218 & 596 & \\
\hline Starvation Cap Reductn & & 0 & & 0 & 0 & & 0 & 0 & 0 & 0 & 0 & \\
\hline Spillback Cap Reductn & & 0 & & 0 & 0 & & 0 & 0 & 0 & 0 & 0 & \\
\hline Storage Cap Reductn & & 0 & & 0 & 0 & & 0 & 0 & 0 & 0 & 0 & \\
\hline Reduced v/c Ratio & & 0.02 & & 0.40 & 0.99 & & 0.02 & 0.97 & 0.28 & 0.89 & 0.70 & \\
\hline Intersection Summary & & & & & & & & & & & & \\
\hline
\end{tabular}

\section*{Area Type: Other}

Cycle Length: 90
Actuated Cycle Length: 90
Natural Cycle: 90
Control Type: Actuated-Uncoordinated
Maximum v/c Ratio: 0.99
Intersection Signal Delay: 41.7
Intersection Capacity Utilization 99.0\%
Analysis Period (min) 15
\# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.
Splits and Phases: 4: NW 140th St \& NW 128th PI/San Felasco Parkway

\begin{tabular}{|l|l}
\hline General Information & Site Information
\end{tabular}
\begin{tabular}{|l|l|}
\hline Analyst & Sophia Semensky \\
\hline Agency or Co. & CHW Consultants \\
\hline Date Performed & \(11 / 16 / 2018\) \\
\hline Analysis Year & 2040 \\
\hline Time Analyzed & AM 2040 Build-Out \\
\hline Project Description & San Felasco Parkway \\
\hline
\end{tabular}

\section*{Volume Adjustments and Site Characteristics}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Approach & \multicolumn{4}{|c|}{EB} & \multicolumn{4}{|c|}{WB} & \multicolumn{4}{|c|}{NB} & \multicolumn{4}{|c|}{SB} \\
\hline Movement & U & L & T & R & U & L & T & R & U & L & T & R & U & L & T & R \\
\hline Number of Lanes ( N ) & 0 & 0 & 1 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 1 & 0 \\
\hline Lane Assignment & & & & & & & & & & & & & & & & \\
\hline Volume (V), veh/h & 0 & 6 & 0 & 2 & 0 & 69 & 0 & 133 & 0 & 2 & 329 & 212 & 0 & 651 & 651 & 1 \\
\hline Percent Heavy Vehicles, \% & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 2 & 2 & 2 & 2 & 8 & 8 & 8 & 8 \\
\hline Flow Rate (VPCE), pc/h & 0 & 6 & 0 & 2 & 0 & 70 & 0 & 136 & 0 & 2 & 342 & 221 & 0 & 717 & 717 & 1 \\
\hline Right-Turn Bypass & \multicolumn{4}{|c|}{None} & \multicolumn{4}{|c|}{None} & \multicolumn{4}{|c|}{None} & \multicolumn{4}{|c|}{None} \\
\hline Conflicting Lanes & \multicolumn{4}{|c|}{1} & \multicolumn{4}{|c|}{1} & \multicolumn{4}{|c|}{1} & \multicolumn{4}{|c|}{1} \\
\hline Pedestrians Crossing, p/h & \multicolumn{4}{|c|}{0} & \multicolumn{4}{|c|}{0} & \multicolumn{4}{|c|}{0} & \multicolumn{4}{|c|}{0} \\
\hline
\end{tabular}

Critical and Follow-Up Headway Adjustment
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Approach & \multicolumn{3}{|c|}{EB} & \multicolumn{3}{|c|}{WB} & \multicolumn{3}{|c|}{NB} & \multicolumn{3}{|c|}{SB} \\
\hline Lane & Left & Right & Bypass & Left & Right & Bypass & Left & Right & Bypass & Left & Right & Bypass \\
\hline Critical Headway (s) & & 4.9763 & & & 4.9763 & & & 4.9763 & & & 4.9763 & \\
\hline Follow-Up Headway (s) & & 2.6087 & & & 2.6087 & & & 2.6087 & & & 2.6087 & \\
\hline
\end{tabular}

Flow Computations, Capacity and v/c Ratios
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Approach & \multicolumn{3}{|c|}{EB} & \multicolumn{3}{|c|}{WB} & \multicolumn{3}{|c|}{NB} & \multicolumn{3}{|c|}{SB} \\
\hline Lane & Left & Right & Bypass & Left & Right & Bypass & Left & Right & Bypass & Left & Right & Bypass \\
\hline Entry Flow ( \(\mathrm{ve}_{\mathrm{e}}\), \(\mathrm{pc} / \mathrm{h}\) & & 8.00 & & & 206.00 & & & 565.00 & & & 1435.00 & \\
\hline Entry Volume veh/h & & 8.00 & & & 206.00 & & & 553.92 & & & 1328.70 & \\
\hline Circulating Flow ( \(\mathrm{c}_{\mathrm{c}}\), \(\mathrm{pc} / \mathrm{h}\) & \multicolumn{3}{|c|}{1504} & \multicolumn{3}{|c|}{350} & \multicolumn{3}{|c|}{723} & \multicolumn{3}{|c|}{72} \\
\hline Exiting Flow (Vex), pc/h & \multicolumn{3}{|c|}{938} & \multicolumn{3}{|c|}{3} & \multicolumn{3}{|c|}{484} & \multicolumn{3}{|c|}{789} \\
\hline Capacity (cpce), pc/h & & 297.61 & & & 965.69 & & & 660.10 & & & 1282.28 & \\
\hline Capacity (c), veh/h & & 297.61 & & & 965.69 & & & 647.15 & & & 1187.30 & \\
\hline v/c Ratio (x) & & 0.03 & & & 0.21 & & & 0.86 & & & 1.12 & \\
\hline
\end{tabular}

\section*{Delay and Level of Service}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Approach & \multicolumn{3}{|c|}{EB} & \multicolumn{3}{|c|}{WB} & \multicolumn{3}{|c|}{NB} & \multicolumn{3}{|c|}{SB} \\
\hline Lane & Left & Right & Bypass & Left & Right & Bypass & Left & Right & Bypass & Left & Right & Bypass \\
\hline Lane Control Delay (d), s/veh & & 12.6 & & & 5.8 & & & 33.9 & & & 82.2 & \\
\hline Lane LOS & & B & & & A & & & D & & & F & \\
\hline 95\% Queue, veh & & 0.1 & & & 0.8 & & & 9.7 & & & 32.8 & \\
\hline Approach Delay, s/veh & & 12.6 & & & 5.8 & & & 33.9 & & & 82.2 & \\
\hline Approach LOS & & B & & & A & & & D & & & F & \\
\hline Intersection Delay, s/veh | LOS & \multicolumn{6}{|c|}{61.7} & \multicolumn{6}{|c|}{F} \\
\hline
\end{tabular}

General Information \(\quad\) Site Information
\begin{tabular}{|l|l|}
\hline Analyst & Sophia Semensky \\
\hline Agency or Co. & CHW Consultants \\
\hline Date Performed & \(11 / 16 / 2018\) \\
\hline Analysis Year & 2040 \\
\hline Time Analyzed & PM 2040 Build-Out \\
\hline Project Description & San Felasco Parkway \\
\hline
\end{tabular}

\section*{Volume Adjustments and Site Characteristics}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Approach & \multicolumn{4}{|c|}{EB} & \multicolumn{4}{|c|}{WB} & \multicolumn{4}{|c|}{NB} & \multicolumn{4}{|c|}{SB} \\
\hline Movement & U & L & T & R & U & L & T & R & U & L & T & R & U & L & T & R \\
\hline Number of Lanes ( N ) & 0 & 0 & 1 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 1 & 0 \\
\hline Lane Assignment & & & & & & & & & & & & & & & & \\
\hline Volume (V), veh/h & 0 & 5 & 0 & 2 & 0 & 279 & 0 & 941 & 0 & 4 & 324 & 101 & 0 & 179 & 373 & 10 \\
\hline Percent Heavy Vehicles, \% & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 2 & 2 & 2 & 2 & 1 & 1 & 1 & 1 \\
\hline Flow Rate (VPCE), pc/h & 0 & 5 & 0 & 2 & 0 & 300 & 0 & 1012 & 0 & 4 & 355 & 111 & 0 & 194 & 405 & 11 \\
\hline Right-Turn Bypass & \multicolumn{4}{|c|}{None} & \multicolumn{4}{|c|}{None} & \multicolumn{4}{|c|}{None} & \multicolumn{4}{|c|}{None} \\
\hline Conflicting Lanes & \multicolumn{4}{|c|}{1} & \multicolumn{4}{|c|}{1} & \multicolumn{4}{|c|}{1} & \multicolumn{4}{|c|}{1} \\
\hline Pedestrians Crossing, p/h & \multicolumn{4}{|c|}{0} & \multicolumn{4}{|c|}{0} & \multicolumn{4}{|c|}{0} & \multicolumn{4}{|c|}{0} \\
\hline
\end{tabular}

Critical and Follow-Up Headway Adjustment
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Approach & \multicolumn{3}{|c|}{EB} & \multicolumn{3}{|c|}{WB} & \multicolumn{3}{|c|}{NB} & \multicolumn{3}{|c|}{SB} \\
\hline Lane & Left & Right & Bypass & Left & Right & Bypass & Left & Right & Bypass & Left & Right & Bypass \\
\hline Critical Headway (s) & & 4.9763 & & & 4.9763 & & & 4.9763 & & & 4.9763 & \\
\hline Follow-Up Headway (s) & & 2.6087 & & & 2.6087 & & & 2.6087 & & & 2.6087 & \\
\hline
\end{tabular}

Flow Computations, Capacity and v/c Ratios
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Approach & \multicolumn{3}{|c|}{EB} & \multicolumn{3}{|c|}{WB} & \multicolumn{3}{|c|}{NB} & \multicolumn{3}{|c|}{SB} \\
\hline Lane & Left & Right & Bypass & Left & Right & Bypass & Left & Right & Bypass & Left & Right & Bypass \\
\hline Entry Flow ( \(\mathrm{ve}_{\mathrm{e}}\), \(\mathrm{pc} / \mathrm{h}\) & & 7.00 & & & 1312.00 & & & 470.00 & & & 610.00 & \\
\hline Entry Volume veh/h & & 7.00 & & & 1312.00 & & & 460.78 & & & 603.96 & \\
\hline Circulating Flow ( \(\mathrm{c}_{\mathrm{c}}\), \(\mathrm{pc} / \mathrm{h}\) & \multicolumn{3}{|c|}{899} & \multicolumn{3}{|c|}{364} & \multicolumn{3}{|c|}{199} & \multicolumn{3}{|c|}{304} \\
\hline Exiting Flow (Vex), pc/h & \multicolumn{3}{|c|}{305} & \multicolumn{3}{|c|}{15} & \multicolumn{3}{|c|}{1372} & \multicolumn{3}{|c|}{707} \\
\hline Capacity (cpce), pc/h & & 551.63 & & & 952.00 & & & 1126.49 & & & 1012.08 & \\
\hline Capacity (c), veh/h & & 551.63 & & & 952.00 & & & 1104.40 & & & 1002.06 & \\
\hline v/c Ratio (x) & & 0.01 & & & 1.38 & & & 0.42 & & & 0.60 & \\
\hline
\end{tabular}

\section*{Delay and Level of Service}
```


[^0]:    Surface Water 2

[^1]:    Surface Water 6

