

APPENDIX A

Correspondence



U.S. Department
of Transportation
**Federal Aviation
Administration**

Orlando Airports District Office
5950 Hazeltine National Dr., Suite 400
Orlando, FL 32822-5024

Phone: 407-812-6331

August 17, 2010

Mr. Noah Lagos, A.A.E.
Airport Director
St. Petersburg-Clearwater International Airport
14700 Terminal Blvd., Ste. 221
Clearwater, Florida 33762

Dear Mr. Lagos,

RE: St. Petersburg-Clearwater International Airport (PIE)
St. Petersburg, Florida
Airport Buffer Area

This letter responds to your July 20, 2010 correspondence and Value Analysis Report regarding the proposed 46.5 acre Airport "Buffer Area" at the St. Petersburg-Clearwater International Airport. Based on the Report, the Federal Aviation Administration (FAA) recognizes the following benefits of this proposal:

- The proposed "Buffer Area" is located on the eastern-most portion of airport property, adjacent to Moog Place. The "Buffer Area" is not contiguous to other airport properties (Moog Place bisects the airfield from this parcel.)
- Pinellas County is not requesting a perpetual conservation easement for this property.
- Due to the presence of wetlands and archeological areas, the subject property has little development potential, and/or would generate significant public opposition if developed.
- If designated as a "Buffer Area," the existing development rights of this parcel will be transferred to other airport properties, such as the Airco Golf Course property and/or parcels adjacent to Roosevelt Boulevard, which are properties ripe for development.
- The transferred development rights will create a \$6,106,759 increase in airport land value which would not exist on the existing "Buffer Area" site. Designating this property as a "Buffer Area" and transferring the development rights is the highest and best use of this property.

Therefore, the FAA concurs with your request to designate this area as a "Buffer Area." Please update your Airport Layout Plan (ALP) to depict this change and submit 12 copies of the ALP to this office for approval.

If you have any questions, please feel free to contact me at (407) 812-6331, ext. 122.

Sincerely,



Rebecca R. Henry
Planning Specialist



U.S. Department
of Transportation
**Federal Aviation
Administration**

Orlando Airports District Office
8427 SouthPark Circle, Ste 524
Orlando, FL 32819
Phone: (407) 487-7720
Fax: (407) 487-7135

April 18, 2018
Mr. Thomas R. Jewsbury
Airport Director
14700 Terminal Blvd, Suite 221
Clearwater, FL 33762

RE: St. Petersburg-Clearwater International Airport, Clearwater, FL
AIP 3-12-0075-043-2017
Approval of Airport Forecast for Airport Master Plan

This letter responds to your submittal of "Chapter 3: Forecast of Aviation Activity" for St. Petersburg-Clearwater International Airport dated April 2018. The based aircraft, operations forecast and passenger enplanements shown in Table 3-43, of the report are approved to be used in your on-going master planning efforts.

If you have any questions, please feel free to contact me at 407-484-7234.

Sincerely,

A handwritten signature in blue ink, appearing to read "Jenny Iglesias-Hamann".

Jenny Iglesias-Hamann
Program Manager/Community Planner

APPENDIX B

Public Outreach

GENERAL AVIATION USER SURVEY



The St. Pete-Clearwater International Airport (PIE) Management and the Pinellas County Board of County Commissioners are continuously working to improve the airport for its tenants, the traveling public, and surrounding community. An important part of this effort is the creation of a new 20-year Airport Master Plan. We encourage your participation in the Master Plan process to learn about your experiences at PIE, ideas for the facilities, suggested improvements, desired services, and long-term vision for the airport. Please take a few minutes to complete and return this survey. Thank you!!

| | |
|---------------|--|
| Name | |
| Address | |
| Phone Number | |
| Email Address | |
| Date | |

1. How long have you been a tenant or user of general aviation facilities at PIE? _____
2. Do you rent hangar space or an apron tie-down? _____ If you rent hangar space, what type hangar do you rent?

3. Do you participate in any airport aviation-related organizations or committees? If Yes, which ones? _____

4. In general, tell us about your experience as a tenant / airport user at PIE. _____

5. What airside improvements would improve your experience at PIE? (i.e. hangars, taxiway improvements, etc.) _____

6. What NAVAIDs / instrument approaches would improve your utilization of PIE? Are there any obstructions that hinder your use of the airport? _____

7. What landside improvements would improve your experience at PIE? (i.e., parking, security improvements, etc.) _____

8. What type of additional aircraft storage hangar facilities at PIE would best suit your needs? (Select one or more).

- | | |
|---|---|
| <input type="checkbox"/> Regular T-Hangar | <input type="checkbox"/> Large T-Hangar |
| <input type="checkbox"/> Clearspan Hangar (approx. 60' x 60') | <input type="checkbox"/> Clearspan Hangar (approx. 100' x 100') |
| <input type="checkbox"/> Corporate Hangar (150' x 150') | <input type="checkbox"/> Other _____ |

9. Understanding that many general aviation services are provided by private commercial service providers (FBOs), what general aviation services do you feel need improvement at PIE?

- | | |
|---|--|
| <input type="checkbox"/> Fixed Base Operator Services | <input type="checkbox"/> Apron Tie-Downs |
| <input type="checkbox"/> Fuel Sales and Service | <input type="checkbox"/> Apron Parking |
| <input type="checkbox"/> Aircraft Maintenance Services | <input type="checkbox"/> Vehicle Access and Parking |
| <input type="checkbox"/> Avionics Repair Services | <input type="checkbox"/> Access to Wireless Networks |
| <input type="checkbox"/> Flight Planning / Weather | <input type="checkbox"/> Signage |
| <input type="checkbox"/> Aircraft Rental | <input type="checkbox"/> Food / Refreshments |
| <input type="checkbox"/> Counter Sales | <input type="checkbox"/> Concessions |
| <input type="checkbox"/> Flight Instruction | <input type="checkbox"/> Security / Access Control |
| <input type="checkbox"/> Ground Transportation Services | <input type="checkbox"/> Other _____ |

Specifically, what would you like to see improved? _____

10. Looking to the future, what is your vision for PIE and what should be accomplished at the airport over the next 20-year period?

11. Additional Comments: _____

Your information is greatly appreciated!

Please return survey to:

Douglas DiCarlo

E-Mail: info@piemasterplan.com

Mail: ESA
4200 West Cypress Street, Suite 450
Tampa, FL 33607

FBO AND SERVICE PROVIDER SURVEY



The St. Pete-Clearwater International Airport (PIE) Management and the Pinellas County Board of County Commissioners are continuously working to improve the airport for its tenants, the traveling public, and surrounding community. An important part of this effort is the creation of a new 20-year Airport Master Plan. We encourage your participation in the Master Plan process to learn about your experiences at PIE, ideas for the facilities, suggested improvements, desired services, and long-term vision for the airport. Please take a few minutes to complete and return this survey. Thank you!!

| | |
|---------------|--|
| Name | |
| Address | |
| Phone Number | |
| Email Address | |
| Date | |

1. How long have you been a tenant at PIE? _____
2. Do you participate in any aviation-related organizations or airport committees? If Yes, which ones? _____

3. In general, tell us about your experience as a tenant and commercial aviation service provider at PIE. _____

4. What airside improvements would help improve your services at PIE and your customer's experience? (i.e., apron improvements)

5. What type NAVAIDs/instrument approaches would improve your services at PIE? Do obstructions that hinder your use of the airport? _____

6. What landside improvements would improve your experience at PIE and your customer's experience? (i.e., parking, security improvements, etc.) _____

7. What type of additional facilities and improvements at PIE would best suit your needs and those of your customers? (Select all that apply).

- | | |
|--|--|
| <input type="checkbox"/> Regular T-Hangars | <input type="checkbox"/> Large T-Hangars |
| <input type="checkbox"/> Clearspan Hangars (approx. 60' x 60') | <input type="checkbox"/> Clearspan Hangars (approx. 100' x 100') |
| <input type="checkbox"/> Corporate Hangars (150' x 150') | <input type="checkbox"/> Other _____ |
| <input type="checkbox"/> Building Maintenance/Repairs | <input type="checkbox"/> Apron Tie-Downs |
| <input type="checkbox"/> Fuel Storage Facilities | <input type="checkbox"/> Apron Parking |
| <input type="checkbox"/> Roadways | <input type="checkbox"/> Signage |
| <input type="checkbox"/> Flight Planning/Weather | <input type="checkbox"/> Gate Access Control |
| <input type="checkbox"/> IT Infrastructure | <input type="checkbox"/> Security and Lighting |
| <input type="checkbox"/> Common Area Landscaping | <input type="checkbox"/> Solid Waste Services and Recycling |
| <input type="checkbox"/> Site Drainage | <input type="checkbox"/> Utilities _____ |
| <input type="checkbox"/> Ground Transportation Services | <input type="checkbox"/> Other _____ |

Specifically, what would you like to see improved? _____

8. Looking to the future, what is your vision for PIE and what should be accomplished at the airport over the next 20-year period?

9. Additional Comments: _____

Your information is greatly appreciated!

Please return survey to:

Douglas DiCarlo

E-Mail: info@piemasterplan.com

Mail: ESA
4200 West Cypress Street, Suite 450
Tampa, FL 33607

PIE Airport Master Plan Communications Strategy

Public Meetings

- PIE Open House kick-off meeting at Hilton Carillon St. Pete – 11/30/17 5 pm-8 pm
- Public Workshop 2 – Forecast
- Public Workshop 3 – Alternatives analysis/Present concepts/Pros & cons
- BCC Presentation/ Adoption

Communications for Public

- Media Release of Kick-off meeting and additional public meetings distributed to
 - Full email distribution list (media, airport employees, tenants, aviation industry, TDC, County BCC/Admin/Communications, Chambers of Commerce, Hoteliers, etc.)
 - sent 10/30/17 to full list
 - Outreach to Chambers of Commerce Presidents
 - Sent individual Chamber emails to Chris Steinocher (SP), Robin Sollie (TB Beaches), Joni James (DP), Carol Hague (Clw), Darlene Kole (CLW Beaches); Kathleen Good sent to Tom Morissette (Central Pinellas), Michael (PP Chamber)
 - Email to Mayors of all municipalities (2nd time) – 11/21/17
 - Sent additional email to BCC, Barbara Hernandez, Mark Woodard, Michael Zas, Jake Stowers, David Downing, Mike Meidel
 - PCED distributing to 8000 on social media
 - SPDP distributed to membership
 - Website news subscribers – sent 11/21/17
 - Mark to send to Noise Abatement Task Force
 - post on social media – FB, Twitter – 11/21/17
 - post on PIE website – 10/30/17
 - Fly2PIE News Fall edition feature highlights from the director - 11/2/17
 - Info presented and distributed at Regional PIO meeting December 14th; follow-up email sent from County Communications to full PIO directory
- Meeting notice and info posted on Pinellas County Website – Public Meetings Section 10/30/17
- Website – create Airport Master Plan Update page – ESA 10/30/17

Communications Strategies for Employees/Tenants (Operations Division)

- All Tenant All Hands meeting – kick-off overview
- Tenant Manager Meetings (ongoing)

Tampa Bay Times – Interview with Rick Danielson 11/16 (Doug, Tom, Michele) – for publication 11/26
TBBJ – Fran McMorris – published article 11/30/17

-Ad Proof-

This is the proof of your ad scheduled to run on the dates indicated below. Please proof read carefully if changes are needed, please contact us prior to deadline at or email at jharrison@tampabay.com.

St. Pete-Clearwater International (PIE) Airport Master Plan Public Kick-off Meeting

PIE and the Pinellas County Board of County Commissioners are beginning preparation of a comprehensive Airport Master Plan. The last Airport Master Plan Update for PIE was completed in January 2004. There have been a number of changes at the airport, as well as in the aviation industry, prompting the need for an updated Master Plan.

The primary goal is to create a 20-year airport development program to maintain a safe, efficient, economical, and environmentally acceptable airport facility for the Tampa Bay community. To achieve this goal, it is essential to receive input from key stakeholders, including the interested public and surrounding community, and users and tenants of the airport's facilities. PIE is required to provide periodic updates of their planning documents for receiving development grants from the Federal Aviation Administration (FAA) and Florida Department of Transportation (FDOT).

PIE is hosting a public informational meeting on November 30, 2017 to kick-off the Airport Master Plan study and the public is encouraged to attend. This meeting will be conducted in an open house format and the public is welcome to attend anytime between 5:00 p.m. and 8:00 p.m. The meeting will be held at the Hilton St. Petersburg Carillon Park (950 Lake Carillon Dr., St. Petersburg, FL 33716) with directional signage on site for attendees. Please come out and learn more about PIE, the Airport Master Plan process, and to provide input to the overall Master Plan study.
(547797)

10/29, 11/5/2017

| | |
|---|--|
| <p><i>Date:</i> 10/27/17</p> <p><i>Account #:</i> 56252 <i>Company:</i> ST PETE CLEARWATER INTERNATIONAL AIRPORT</p> <p><i>Contact:</i> LAURIE GRIFFITH</p> <p><i>Address:</i> 14700 TERMINAL BLVD SUITE 221 CLEARWATER, FL 33762</p> <p><i>Telephone:</i> (727) 453-7806 <i>Fax:</i> (727) 453-7846 <i>Email:</i> lgriffith@fly2pie.com</p> | <p><i>Publications:</i> Tampa Bay Times TampaBay.com</p> <p><i>Zones or Sections:</i> Baylink All Pinellas</p> <p><i>Classification:</i> Legal</p> |
| <p><i>Ad ID:</i> 547797</p> <p><i>Start:</i> 10/29/17 <i>Stop:</i> 11/05/17</p> <p><i>Total Cost:</i> \$640.00 <i>Billed Lines:</i> 58.0 <i>Total Depth:</i> 2.58 <i># of Inserts:</i></p> <p><i>Phone #</i> <i>Email:</i> jharrison@tampabay.com</p> | |

fly2pie.com

@iflypie

facebook.com/Fly2PIE

MEDIA RELEASE

October 30, 2017

St. Pete-Clearwater International Airport (PIE) Airport Master Plan Public Kick-off Meeting

PIE is hosting a public information open house meeting to kick-off its Airport Master Plan study. The meeting is Thursday, November 30th at the Hilton St. Pete Carillon Park (950 Lake Carillon Drive) and the public is welcome and encouraged to attend anytime from 5 pm – 8 pm.

PIE and the Pinellas County Board of County Commissioners are beginning preparation of a comprehensive Airport Master Plan. The last Airport Master Plan Update was completed in January 2004. There have been a number of changes at the airport, as well as in the aviation industry, prompting the need for an updated Master Plan. A website dedicated to the PIE Master Plan development will be launched November 1st, visit piemasterplan.com

The primary goal is to create a 20-year airport development program to maintain a safe, efficient, economical, and environmentally acceptable airport facility for the Tampa Bay community. To achieve this goal, it is essential to receive input from key stakeholders, including the interested public, surrounding community, and users and tenants of the airport's facilities. PIE is required to provide periodic updates of their planning documents for receiving development grants from the Federal Aviation Administration (FAA) and Florida Department of Transportation (FDOT).

This meeting will be conducted in an open house format and conducted by airport representatives and ESA, the consultant contracted to complete the Master Plan. Please come out and learn more about PIE, the Airport Master Plan process, and to provide input to the overall Master Plan study.

Contact: Michele Routh, Airport Public Relations Director mrouth@fly2pie.com 727-453-7879

Douglas DiCarlo

From: Yarley, Scott A <syarley@fly2pie.com>
Sent: Monday, October 30, 2017 12:44 PM
To: Jewsbury, Thomas R.; Routh, Michele G; Douglas DiCarlo
Subject: FW: updated masterplan media release
Attachments: AirportMasterPlanPublicKick-offMeeting2017.docx

I'm good with this media release. I have talked with Doug and have asked him to go live with the website on Wednesday, November 1. I thought it would be best to go live on the same day we have the official kick-off.



Scott Yarley, P.E.

Airport Engineer
St. Pete-Clearwater International Airport
14700 Terminal Blvd.
Suite 221
Clearwater, FL 33762

Office: (727) 453-7830
Fax: (727) 453-7846
syarley@fly2pie.com

From: Routh, Michele G
Sent: Monday, October 30, 2017 11:07 AM
To: Jewsbury, Thomas R. <jewsbury@fly2pie.com>; Yarley, Scott A <syarley@fly2pie.com>
Subject: updated masterplan media release

Added the website – please let me know when I can send.

Michele Routh, Public Relations Director
mrouth@fly2pie.com 727-453-7879





| | | | | |
|-------------------------|---------------------------------|--------------------------------------|---------------------------|-----------------------|
| WELCOME | PIE MASTER PLAN | PUBLIC PARTICIPATION | DOCUMENTS | LINKS |
|-------------------------|---------------------------------|--------------------------------------|---------------------------|-----------------------|

Welcome to the St. Pete-Clearwater International Airport Master Plan website!

The St. Pete-Clearwater International Airport (PIE) Management and Pinellas County Board of County Commissioners have begun the process to prepare a new comprehensive Airport Master Plan and Airport Layout Plan drawing set. The last update of the Airport Master Plan for PIE was completed in January 2004. Since that time there have been a number of changes at the airport, as well as in the aviation industry.

On this website, you will be able to:

- Learn about the Master Plan process.
- Find out about opportunities for Public Participation.
- Read Master Plan related documents as they become available.
- Provide feedback and comments.

This website will be updated on a regular basis as new information becomes available.



Airport Master Plan Public Outreach



**St. Pete-Clearwater International Airport
Airport Master Plan
Public Kick-off Meeting**

November 30, 2017

Page 1 of 6

| Name | Representing | Phone Number | E-Mail Address |
|-------------------|--------------------|-----------------------------|-----------------------------------|
| Ty Winthrop | Pepper Contracting | 727-637-0555 | TyW@peppercontracting.com |
| Neil E. McMullen | Fwd Pin CAC chair | 813-532-5245 | nemullen220@gmail.com |
| William Quillen | Self N3794F | 813-335-2849 | aviatorwsg@gmail.com |
| Steve Bivens | Cavotec | 727-401-1106 | steve.bivens@cavotec.com |
| Patrick Morris | Cavotec | 407 -714-7135619 | patrick.morris@cavotec.com |
| Ricardo DiPaso | AUS BUDGET | 229 299 4581 | RdiPaso@me.com |
| KARNARDO GARCIA H | Legacy Conc... .. | 813-783-2327 | KyARNE.Hels@legacyconcessions.com |
| DEL BRENN | self | 727-452-5524 | delbrenn@gmail.com |
| LOE | Pinellas CAC | | RLALLEN255@GMAIL.COM |
| Nicholas Sellas | self | 727-938-1959 | nsellas5@gmail.com |
| Catherine Sellas | self | 727-738-1959 | csellas520@gmail.com |
| Richard Perez | City of Largo | 727-586-7350 | rperez@largo.com |
| Mallory McClellan | St. Pete EDC | 727 767 0209 | mmcclellan@stpete.edc.com |
| KEVIN GORDON | Self | 727 430 4781 | KGORDON@Franbiz.com |

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**St. Pete-Clearwater International Airport
Airport Master Plan
Public Kick-off Meeting**

November 30, 2017

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| Name | Representing | Phone Number | E-Mail Address |
|-----------------------|------------------------|--------------|-------------------------------|
| AL BARTOLOTTA | FORWARD PINELLAS | 464-8256 | abartolotta@pinellascounty |
| MIKE MEIDEL | PINELLAS COUNTY | 464-8114 | mmeidel@pinellascounty.org |
| MIKE JACKSON | U.S. COAST GUARD | 305-278-6719 | michael.w.jackson@uscg.mil |
| KEVIN PETERSON | HENSEL PHELPS | 407-701-3860 | kpeterson@henselphelps.com |
| Louis Garcia | Zackary Group | 813-361-7625 | lg@zackarygroup.com |
| Steve Ochsner | Feather Sound | 888-7315 | SSOCHSNER@MSN.COM |
| Suzanne Ochsner | Feather Sound | 573-1411 | " " " |
| JASON LANDAKI | | 813-245-7968 | JASON.LANDAKI@YAHOO.COM |
| Vincent Crocic | Feather Sound | 727-871-6695 | VC11743@AOL |
| KEVIN YOUNGBERG | RESIDENT FEATHER SOUND | | |
| Gary Konow | Feather Sound | 727-572-0053 | gkonow@tampabay.rv.com |
| Heather + David Dixon | Feather Sound | 727-572-0047 | David.A.Dixon@tampabay.rv.com |
| Ann & Biff Baker | Feather Sound | 727-573-5265 | rbaker2@tampabay.rv.com |

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**St. Pete-Clearwater International Airport
Airport Master Plan
Public Kick-off Meeting**

November 30, 2017

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| Name | Representing | Phone Number | E-Mail Address |
|-----------------|-------------------------------|--------------|-----------------------------|
| SIM STROH | AOPA ASN | 813 679 9494 | SIMSTROH@YAHOO.COM |
| JD LENTINE | USLG ASLW | 727-259-3347 | john-david.lentine@uscg.mil |
| TERESA BRYDON | City of Largo | 727-580-7342 | TBRYDON@LARGO.COM |
| LOUIS CLAUDIO | Safety Harbor | ON FILE | ON FILE |
| Steven Hennig | Tampa | 813 792 9939 | sjohhenn@aol.com |
| JOHN PADAVICH | CITY OF Safety Harbor | 813-917-3364 | jpadavich@aol.com |
| Caitlin Farley | via aeronautical | 727-424-6747 | caitlin@viaaeronautical.com |
| Richard Lesniak | COSP - Albert Whitted airport | 727-893-7657 | richard.lesniak@stpete.org |
| Rob Copenhagen | Clearwater | 727 215 3154 | Rob@robopenhaver.com |
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St. Pete-Clearwater International Airport
Airport Master Plan
Public Kick-off Meeting

November 30, 2017

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| Name | Representing | Phone Number | E-Mail Address |
|-----------------|----------------|--------------|----------------|
| THOMAS JESSBURY | PIE | | |
| MICHELE ROUTH | PIE | | |
| SCOTT VARLEY | PIE | | |
| MARK SPRAGUE | PIE | | |
| YVETTE AZHLE | PIE | | |
| ERIN JOHNSON | PIE | | |
| JEFF CLAUS | PIE | | |
| KATHLEEN GOOD | PIE | | |
| MILE IGUINA | PIE | | |
| | PIE | | |
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St. Pete-Clearwater International Airport
Airport Master Plan
Public Kick-off Meeting

November 30, 2017

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| Name | Representing | Phone Number | E-Mail Address |
|------------------|--------------|--------------|----------------|
| DOUG DICARLO | ESA | | |
| MIKE ARNOLD | " | | |
| JOE HALISKY | " | | |
| PETER GREEN | " | | |
| AUTUMN WARD | " | | |
| KERRICK STEGMUER | CRS | | |
| BEN SIWINSKI | VHB | | |
| PETER | VHB | | |
| BOB ORI | PTI | | |
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fly2pie.com @iflypie facebook.com/Fly2PIE

MEDIA RELEASE

April 23, 2018

St. Pete-Clearwater International (PIE) Airport Master Plan Public Workshop #1

PIE and the Pinellas County Board of County Commissioners are preparing a comprehensive Airport Master Plan. The last Airport Master Plan Update for PIE was completed in January 2004. There have been a number of changes at the airport, as well as in the aviation industry, prompting the need for a new Master Plan.

The primary goal is to create a 20-year airport development program to maintain a safe, efficient, economical, and environmentally acceptable airport facility for the Tampa Bay community. To achieve this goal, it is essential to receive input from key stakeholders, including the interested public and surrounding community, and users and tenants of the airport's facilities. PIE is required to provide periodic updates of their planning documents for receiving development grants from the Federal Aviation Administration (FAA) and Florida Department of Transportation (FDOT).

PIE is hosting the first public informational workshop on May 30, 2018 to provide information on the first working paper of the Airport Master Plan study. This includes study background information, the existing airport conditions, forecasts of aviation activity, and an assessment of the passenger terminal building condition. **As with the previous Kick-off Meeting, this workshop will be conducted in an open house format and the public is welcome to attend anytime between 5:00 p.m. and 7:00 p.m. The meeting will be held at the Hilton St. Petersburg Carillon Park (950 Lake Carillon Dr., St. Petersburg, FL 33716)** with directional signage on site for attendees. Please come out and learn more about PIE, the Airport Master Plan process, and to provide input to the overall Master Plan study.

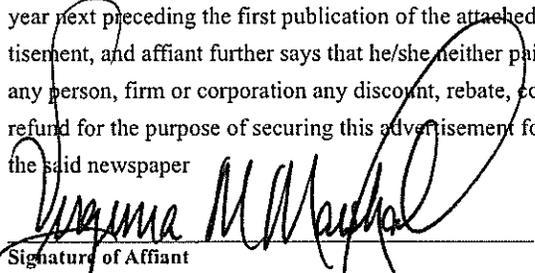
Airport Contact: Michele Routh, Airport Public Relations Director
mrouth@fly2pie.com 727-453-7879

Tampa Bay Times
Published Daily

STATE OF FLORIDA } ss
COUNTY OF Hernando & Citrus Counties, Hillsborough County,
Pasco County, Pinellas County

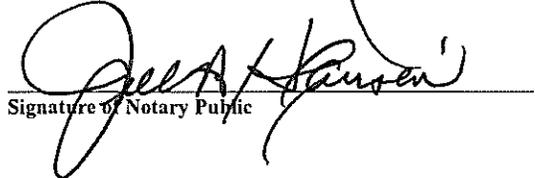
Before the undersigned authority personally appeared Virginia Marshall who on oath says that he/she is Legal Clerk of the Tampa Bay Times a daily newspaper printed in St. Petersburg, in Pinellas County, Florida; that the attached copy of advertisement, being a Legal Notice in the matter RE: PIE Master Plan was published in Tampa Bay Times: 4/29/18, 5/6/18. in said newspaper in the issues of Baylink All Pinellas, Baylink Hernando Citrus, Baylink Hillsborough, Baylink Pasco

Affiant further says the said Tampa Bay Times is a newspaper published in Hernando & Citrus Counties, Hillsborough County, Pasco County, Pinellas County, Florida and that the said newspaper has heretofore been continuously published in said Hernando & Citrus Counties, Hillsborough County, Pasco County, Pinellas County, Florida, each day and has been entered as a second class mail matter at the post office in said Hernando & Citrus Counties, Hillsborough County, Pasco County, Pinellas County, Florida for a period of one year next preceding the first publication of the attached copy of advertisement, and affiant further says that he/she neither paid nor promised any person, firm or corporation any discount, rebate, commission or refund for the purpose of securing this advertisement for publication in the said newspaper



Signature of Affiant

Sworn to and subscribed before me this 05/06/2018.



Signature of Notary Public

Personally known _____ or produced identification
Type of identification produced _____



St. Pete-Clearwater International (PIE) Airport Master Plan Public Workshop #1

PIE and the Pinellas County Board of County Commissioners are preparing a comprehensive Airport Master Plan. The last Airport Master Plan Update for PIE was completed in January 2004. There have been a number of changes at the airport, as well as in the aviation industry, prompting the need for a new Master Plan.

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**St. Pete-Clearwater International Airport
Airport Master Plan
Public Workshop**

May 30, 2018 5:00pm - 7:00pm

Page 1 of 5

| Name | Representing | Phone Number | E-Mail Address |
|------------------|------------------------------|--|--|
| KEN SPILLET | KCCS | (813) 477-7890 | KENNETH.SPILLET@KINGOFCAMPO.COM |
| Matthew Weber | EHI | 813 261 8069 | Matthew.Weber@EHI.COM |
| Kyle Doyle | Enterprise Holdings | 703-434-2461 | Kyle.J.Doyle@EHI.COM |
| Mary Fulton | | 727-572-4510 | mfulton2003@yahoo.com |
| Ray Frey | Floor & Decor | 727-278-4333 | raymond.frey@flooranddecor.com |
| Sharon Beatty | MAINLANDS RESIDENT | 847-650-8357 | SBEA626@gmail.com |
| Donald Neumann | | | DSNKODA@Gmail.com |
| Sheryl Prasker | Ø | 724-422-3513 | |
| Moises Faroy | CCTV CORE | 727-573-2333 | mfaroy@cctvcore.com |
| M. Olson | | 516 448 2075 | olson256@yahoo.com |
| EVAN AXELSON | FOX 13 | 813- 813 ⁸⁷⁰ -9720 | NEWS@fox13news.com |
| JOE BLOUM | HARVARD JOURNAL ARCHITECTURE | | J.BLOUM@HARVARDJOURNAL.COM |
| Daniel Cassiter | RPS | 423-713-3059 | dcassiter@republicparking.com |
| Steve Engelhardt | Airport Business Center | 727 410 7090 | STEVE@HALLMARK Development. Net. |

St. Pete-Clearwater International Airport Airport Master Plan Public Workshop

May 30, 2018 5:00pm - 7:00pm

| Name | Representing | Phone Number | E-Mail Address |
|--------------------------|--------------------------|------------------------------|--------------------------------------|
| RICHARD CATTELL | JABIL INC | 727-539-7072 | RICH_CATTELL@JABIL.COM |
| CRAIG BROWN | SAFETY HARBOR | 727-656-8468 | CRGBROWN23@GMAIL.COM |
| Jim STROH | SAFETY HARBOR | 813 679-7474 | |
| DON CASEY | DELORA GROVES | 727-726-5279 | donahede casey@gmail.com |
| Michael Stopczynski | Enterprise Holdings | 813 261-8060 | michael.stopczynski@ehi.com |
| DOUGLAS & KATHY BLACKMAN | MAINLANDS TAMARAC | 727-545-5950 | RED.Knight1@hotmail.com |
| Don Steele | Enterprise Holdings | 734 788-5283 | Daniel.R.Steele@ehi.com |
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| LINDA MOORE | | 703-405-7433 | moorecitra@gmail.com |
| Bob LASTER | PSTA | 727 540 1874 813.675-1964 | blasher@PSTA.net |
| Charlie Stauphill | Manhattan Construction | | cstauphill@manhattanconstruction.com |
| Kevin Youngberg | Homeowner FEATHERSONS | | |
| PAUL PIRO | | | |
| PAUL PIRO | KIMLEY-HORN | | |

St. Pete-Clearwater International Airport Airport Master Plan Public Workshop

May 30, 2018 5:00pm - 7:00pm

| Name | Representing | Phone Number | E-Mail Address |
|---------------------------|---|-------------------------|----------------------------------|
| Jonathan Engelhardt | Airport Business Center | 727-385-3502 | jonathan@hallmarkdevelopment.net |
| MIKE SCHLESKER | FEATHER SOUND | 727-278-4619 | mschlesker@gmail.com |
| Jared Moreng | Kimley-Horn | 813-635-5504 | jared.moreng@kimley-horn.com |
| Christina Scoble | Self | 813 957 8901 | christina.scoble@gmail.com |
| Steven Rosenthal | Self | 727-641-3033 | Steven.Rosenthal9@gmail.com |
| Ben Friedman | Pinellas County ^{economic} development | 727-464-7424 | bfriedman@pinellascounty.org |
| M. Lynn Pope | SELF | 813/765-5620 | — |
| MIKE MEIDEL | PINELLAS COUNTY | 727 464 8114 | mmeidel@pinellascounty.org |
| Colton Atkinson | Coast Guard | 678-686-9206 | colton.e.atkinson@uscg.mil |
| STEVE OCHSNER | F. Sans | 872 1411 (727) | ssochsner@msu.com |
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St. Pete-Clearwater International Airport
Airport Master Plan
Public Workshop

May 30, 2018 5:00pm - 7:00pm

Page 4 of 5

| Name | Representing | Phone Number | E-Mail Address |
|-------------------|--------------------------------------|--------------|------------------------|
| Sandy Blood | Safety Harbor / Harbor Hill Drive | 727-483-1068 | seblood@hotmail.com |
| Cleo Cozine | BIC | 727-204-7293 | cleocozi@yahoo.com |
| GARY KUNOW | FEATHER SOUNDS | 727-421-8837 | gkunow@tampabay.tv.com |
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| | | | |
| SCOTT Tundo | CLS | | |
| KERRICK SEEGMEIER | CLS | | |
| JAKE STURER | CLS | | |



**St. Pete-Clearwater International Airport
Airport Master Plan
Public Workshop**

May 30, 2018 5:00pm - 7:00pm

| Name | Representing | Phone Number | E-Mail Address |
|------------------|--------------|--------------|----------------|
| DOUG DEARLO | ESA | | |
| MIKE ARNOLD | ESA | | |
| AUTUMN WADE | ESA | | |
| JOE HAUSKY | ESA | | |
| PETER GREEN | ESA | | |
| TOM JEWISBURY | PIE | | |
| SCOTT YARLEY | PIE | | |
| MARK SPRAGUE | PIE | | |
| MICHELE ROUTH | PIE | | |
| ERIN JOHNSON | PIE | | |
| YVETTE AZHLE | PIE | | |
| JEFF CLAUS | PIE | | |
| | | | |
| STEVE GOETZINGER | ESA | | |

-Ad Proof-

This is the proof of your ad scheduled to run on the dates indicated below. Please proof read carefully if changes are needed, please contact us prior to deadline at (727) 893-8358 or email at vmarshall@tampabay.com.

St. Pete-Clearwater International (PIE) Airport Master Plan Public Workshop #2

PIE and the Pinellas County Board of County Commissioners are preparing a comprehensive Airport Master Plan. The last Airport Master Plan Update for PIE was completed in January 2004. There have been a number of changes at the airport, as well as in the aviation industry, prompting the need for a new Master Plan.

The primary goal is to create a 20-year airport development program to maintain a safe, efficient, economical, and environmentally acceptable airport facility for the Tampa Bay community. To achieve this goal, it is essential to receive input from key stakeholders, including the interested public and surrounding community, and users and tenants of the airport's facilities. PIE is required to provide periodic updates of their planning documents for receiving development grants from the Federal Aviation Administration (FAA) and Florida Department of Transportation (FDOT).

PIE is hosting a public informational workshop on November 5, 2018 to provide information on the most recent sections of the Airport Master Plan study, including the assessment of airport facilities and potential alternatives for improvements. This meeting will be conducted in an open house format and the public is welcome to attend anytime between 5:00 p.m. and 7:00 p.m. The meeting will be held at the Hilton St. Petersburg Carillon Park (950 Lake Carillon Dr., St. Petersburg, FL 33716) with directional signage on site for attendees. Please come out and learn more about PIE, the Airport Master Plan process, and to provide input to the overall Master Plan study. (688129) 09/30, 10/14/2018

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| <p><i>Date:</i> 09/20/18</p> <p><i>Account #:</i> 56252 <i>Company:</i> ST PETE CLEARWATER INTERNATIONAL AIRPORT</p> <p><i>Contact:</i></p> <p><i>Address:</i> 14700 TERMINAL BLVD SUITE 221 CLEARWATER, FL 33762</p> <p><i>Telephone:</i> (727) 453-7806 <i>Fax:</i> (727) 453-7846 <i>Email:</i> lgriffith@fly2pie.com</p> | <p><i>Publications:</i> Tampa Bay Times TampaBay.com</p> <p><i>Zones or Sections:</i> Baylink All Pinellas</p> <p><i>Classification:</i> Legal</p> |
| <p><i>Ad ID:</i> 688129</p> <p><i>Start:</i> 09/30/18 <i>Stop:</i> 10/14/18</p> <p><i>Total Cost:</i> \$618.00 <i>Billed Lines:</i> 56.0 <i>Total Depth:</i> 2.403 <i># of Inserts:</i></p> <p><i>Phone #:</i> (727) 893-8358 <i>Email:</i> vmarshall@tampabay.com</p> | |

fly2pie.com @iflypie facebook.com/Fly2PIE

MEDIA RELEASE

September 22, 2018

St. Pete-Clearwater International Airport (PIE) Airport Master Plan Public Workshop #2 Presents Facility Assessment and Alternatives for Improvement – November 5th 5:00-7:00 PM at Hilton Carillon

PIE and the Pinellas County Board of County Commissioners are preparing a comprehensive Airport Master Plan. The last Airport Master Plan Update for PIE was completed in January 2004. There have been a number of changes at the airport, as well as in the aviation industry, prompting the need for a new Master Plan.

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Please visit, www.piemasterplan.com for more information and to provide input for the Airport Master Plan.

Airport Contact: Michele Routh, Airport Public Relations Director
mrouth@fly2pie.com 727-453-7879



We Want Your Help.

Your Ideas.



Your Thoughts.

It's Your Airport.



Airport Master Plan Public Workshop
Hilton Carillon • November 5th • 5pm - 7pm
950 Lake Carillon Dr., St. Petersburg



APPENDIX C

Terminal Building Conditions Assessment

Submitted by:



C&S Companies, Inc.
4830 W Kennedy Blvd, Suite 600
Tampa, FL 33609



St. Pete-Clearwater International Airport **Terminal Building Conditions Assessment**

March 1, 2018

Submitted to:



Introduction/ Overview

For the last five years, St. Pete-Clearwater International Airport (PIE or The Airport) has experienced unprecedented growth, averaging double-digits each year. Because of the significant growth, the Airport surpassed 2 million annual passengers (MAP) for the first time in its history. The primary reason for this growth is Allegiant Air, which now serves nearly 60 destinations from PIE. PIE is one of Allegiant's strongest hubs in Florida, and there is a commitment from the airline to expand service.

While passenger numbers are at record levels, terminal facilities have struggled to keep up with the pace of growth. Until Allegiant's presence, the airport had limited air service and the terminal facilities were adequate. However, the terminal facilities are now operating well beyond their capacity and not up to the level of service standards that is expected at most US airports. The Airport has tried to keep up with growth by adding small additions to the terminal building, one at a time, and adding or improving apron areas to accommodate Allegiant's aircraft. Recently completed or ongoing projects to improve the terminal facility include security checkpoint expansion, holdrooms expansion, baggage makeup reconfiguration, and apron area improvements. These are all incremental improvements that improve the facility. However, the result of this is an ad hoc approach to terminal development instead of a comprehensive terminal strategy.

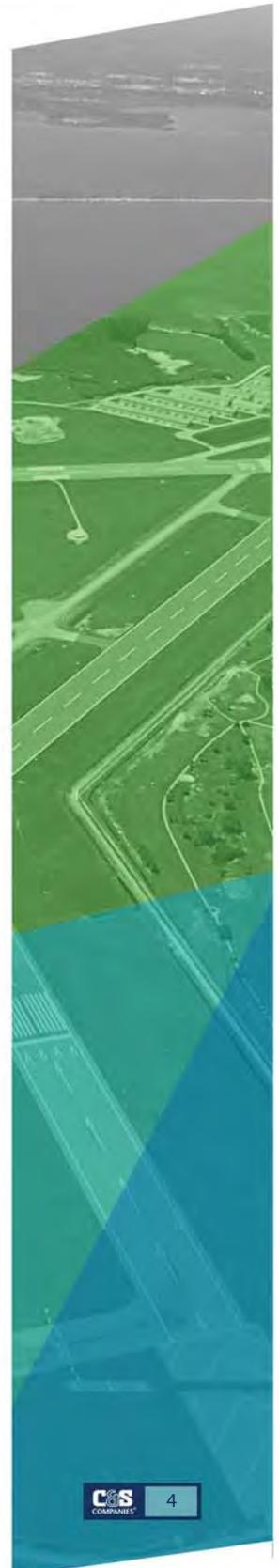
Currently, the Airport is developing a "from-scratch" airport master plan that will review all airport facilities, including the terminal building, and develop a comprehensive development strategy that meets passenger demand and can be implemented in an incremental, fiscally responsible manner. The terminal is a major element of the master plan. Proposed terminal alternatives will remain at a high-level, but this document will serve as a basis of understanding for some of the terminal challenges and opportunities.

Purpose of this Document



The purpose of this document is to present a high-level building conditions assessment. Existing airport records, drawings, and reports on key backbone site utilities, architectural elements, structural elements, and mechanical, electrical, and plumbing (MEP) systems were reviewed. An overview of facility condition related to architectural, structural, MEP, and site utilities facilities and equipment is provided. This information will be utilized as a baseline for developing Master Plan alternatives, including projecting future needs for proposed development. Additional capacity assessments for specific areas of development will be identified during the Master Plan alternatives phase. These focused assessments will be defined by the Airport and the Consultant team based on the most promising terminal development alternatives.

Building Architecture Assessment



Introduction/ Overview

The terminal building is comprised of multiple building projects throughout its lifespan, whether renovations, demolitions, or additions. The construction of the front façade, which serves as the main circulation spine and entry to the terminal, provides a unifying aesthetic from the street to the piece by piece construction. In addition, there is a current project underway performing a rehabilitation and adding on to the structure on the north side of the building. This portion of the building under construction is assumed to meet all the current codes and has been excluded from this portion of the assessment with exception of the roof condition.

The following is a summation of what was found during visual inspection of the building, the plans that were available, and discussions with Airport staff.



Building Code Compliance

The terminal building has seen continuous renovations and additions over the last 5 years and no major Code related issues were noted during the visual inspection and walk-through. The terminal building also appears to be accessible and in compliance with the American with Disabilities Act (ADA) throughout.

In the Electrical and Mechanical rooms adjacent to the Gate 2-6 exit there was evidence of incomplete thru-penetration fire proofing following new piping and conduit penetrations that should be properly sealed for a complete assembly. It is unclear whether or not this is a typical condition throughout the building or only in this location. The other relevant items were operational, maintenance, or layout related and not specifically a violation of the Building Code. These items are noted in the next section.



Operation, Maintenance, and Building Layout

The following operation, maintenance, and building layout issues were noted and discussed with Airport staff during the site walk-through and subsequent meetings.

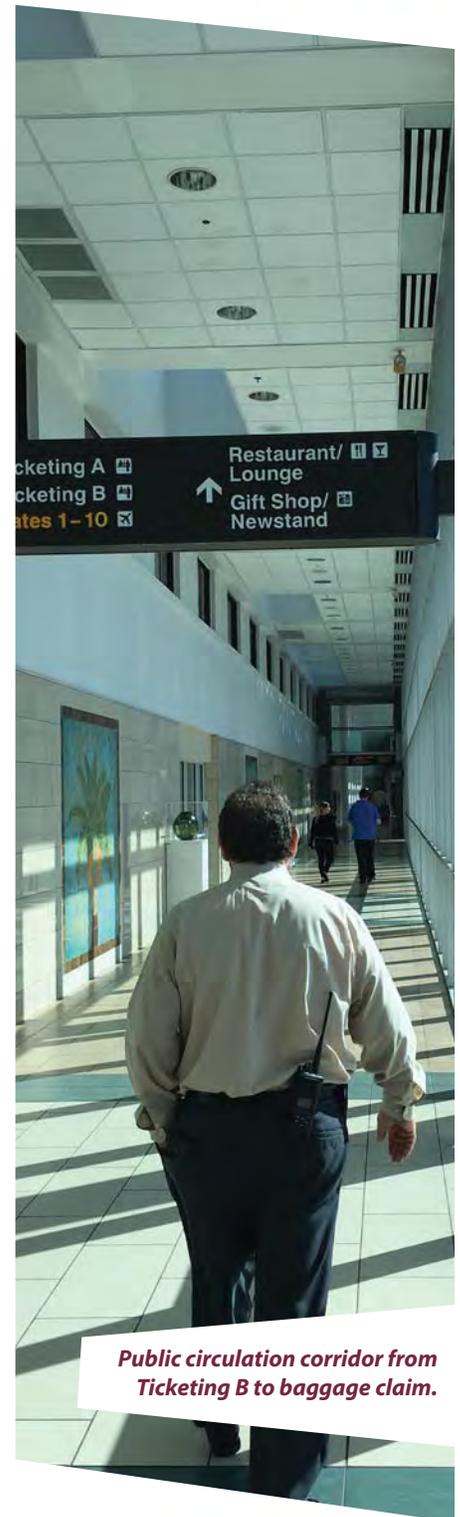
Building Entry Corridor

Airport staff noted energy efficiency concerns and water infiltration issues at the main corridor, running the length of the front of the building.

The corridor serves as the Energy Code required vestibule between conditioned space of the terminal and the exterior. The corridor is separated from the main terminal space by sliding aluminum doors. The overall corridor depth, frequency of use, and lack of interlock of the two sets of doors does not block air leakage between the building areas allowing conditioned air to escape quicker than it can be replenished. When passengers use the corridor for egress to the baggage claim, walking in front of the exterior, automatic doors triggers them to open, further negatively impact-ing the building's heating and cooling capability and efficiency. Additionally, the height of the curtain wall and overall volume of space seem to have caused conditioning problems in the corridor itself and lead to continual condensation issues. Sealant failures at the roof parapet, causing some in-filtration of water and ponding issues, were noted on the roof areas above. The corridor serves the purpose of a more modern front façade, unilateral connector of the interior, and vestibule, but it makes wayfinding confusing and is mostly redundant circulation space. This creates an inefficient build-ing layout. The exterior canopies, while tied to the building aesthetic, are not efficient in stopping a driving rain due to their design and separation from the building face. This allows additional water to enter through the door openings.

Gates 4 and 5 Ramps

Airport staff expressed maintenance and safety concerns with the dual ramp access to the Gate 4 and 5 Passenger Boarding Bridges (PBBs). These are high, narrow spaces that make routine maintenance difficult, such as changing a lightbulb or other repair work due to the ramped floor.



Public circulation corridor from Ticketing B to baggage claim.

Water

Evidence of continual water intrusion issues were noted at the second level flooring of the concessions space. This may be a combination of tenant or typical usage or an inefficient drainage system for the current equipment layouts.

Entry lobby

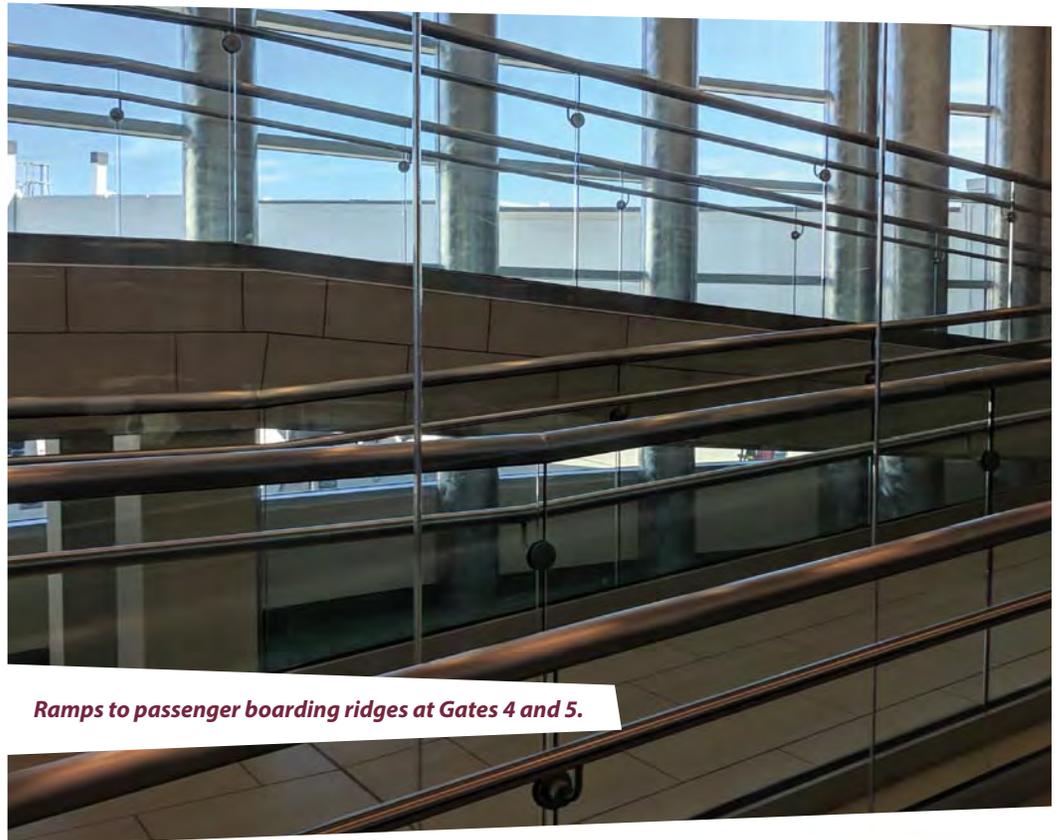
At the entry lobby outside the TSA screening for Gates 2 through 6, continual maintenance issues exist above the ceiling in relation to roof drainage systems. The repairs have been completed in a piecemeal manner that have not addressed the full concerns in this area. Repairs have been made difficult by the presence of multiple existing ceiling levels above the current Acoustic Ceiling Tile (ACT) ceiling system. These ceiling areas could be removed to allow proper maintenance access as well as raise the ceiling height in the interior corridor, which is proportionally low for the space. Additionally, it is recommended that all of the abandoned infrastructure be removed too. Trying to assess leaks in pipes that end up being a dead end is not an efficient use of maintenance staff.

Restrooms

The main restroom areas have been upgraded recently, are ADA compliant, and appear to meet the overall building capacity needs. However, from a functional layout perspective, they are disproportionately sized between the pre-secure lobby and the post-security holdroom uses. Capacity for the holdroom toilets is undersized for the occupant load and the pre-security restrooms have significant excess. Reconfiguration of this area could alleviate usage issues and improve the travel experience.

Airport offices

The Airport office area on the second level is typical of an old military layout with a double loaded corridor. Currently, the area is near capacity, with only two open offices. The materials are consistent throughout and are in good condition, but the layout is inefficient and confusing for public access. A modern building design would likely make more efficient use of the same square footage.



Ramps to passenger boarding ridges at Gates 4 and 5.

Interior Elements and Equipment

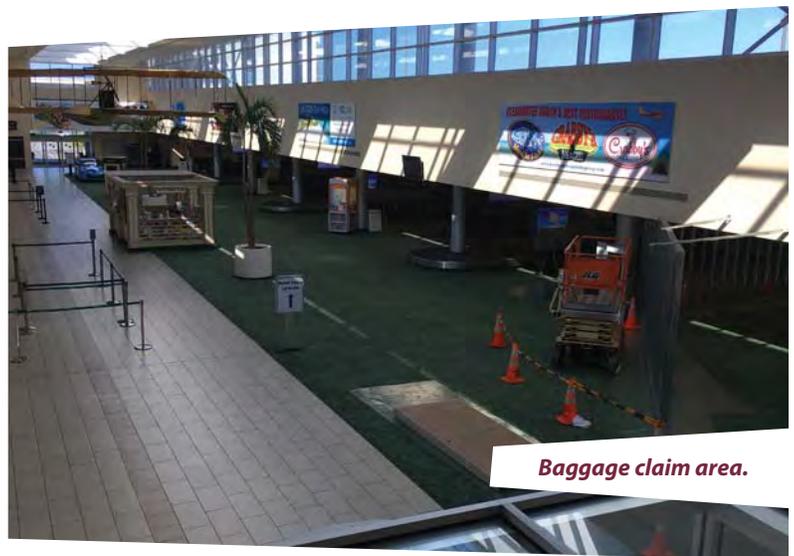
The following interior elements and equipment were noted and discussed with Airport staff during the site walk-through and subsequent meetings.

Interior finishes

Overall the facility is in very good condition and finishes are well-kept and modernized, with few exceptions. Wall coverings vary between paint, vinyl and tile. Ceilings are ACT or suspended gypsum, and flooring varies between carpet, tile and terrazzo. There is a make-shift ceiling access panel between Ticketing B and the Customs entry that is inconsistent with the remaining level of finish. Some water damage was apparent in the Baggage Claim restrooms as well. It is understood that both of these areas will be renovated in an upcoming project.

Interior doors

Interior doors are a mix of wood and hollow metal, and visually appear in good shape. The Gate 2-6 exit corridor mechanical room door hinges were missing multiple screws which impede operation and could result in a safety concern. There are a few examples like this around the airport, but generally not a widespread concern.



Baggage claim area.

Baggage systems

The baggage handling systems are reliable and the only issues that have arisen are with TSA staffing related issues. Baggage system capacity issues are noted to exist in Ticketing A but it is understood this is being addressed in a current construction project. Baggage claim belts are reliable, but all 7-9 years old, which may be getting towards the end of their useful life. Baggage belts are not standardized, in terms of controllers, making maintenance cumbersome.

Passenger Boarding Bridges

There are only two PBBs, located at Gates 4 and 5. The two PBBs are Thyssen-Krupp models from 2009 and are operating properly.

Building Envelope

The following Building Envelope issues were noted and discussed with Airport staff during the site walk-through, and subsequent meetings.

Facade

The exterior façade is comprised mainly of concrete masonry units (CMU), exterior insulation and finish system (EIFS), or glazed aluminum curtain wall. All items are generally in good condition with some localized areas of damage.

Doors

Exterior doors are either hollow metal or glazed aluminum and are in good condition. Metal overhead doors are in fair condition due to frequency of use and show some signs of damage. These could require replacement in the near future.

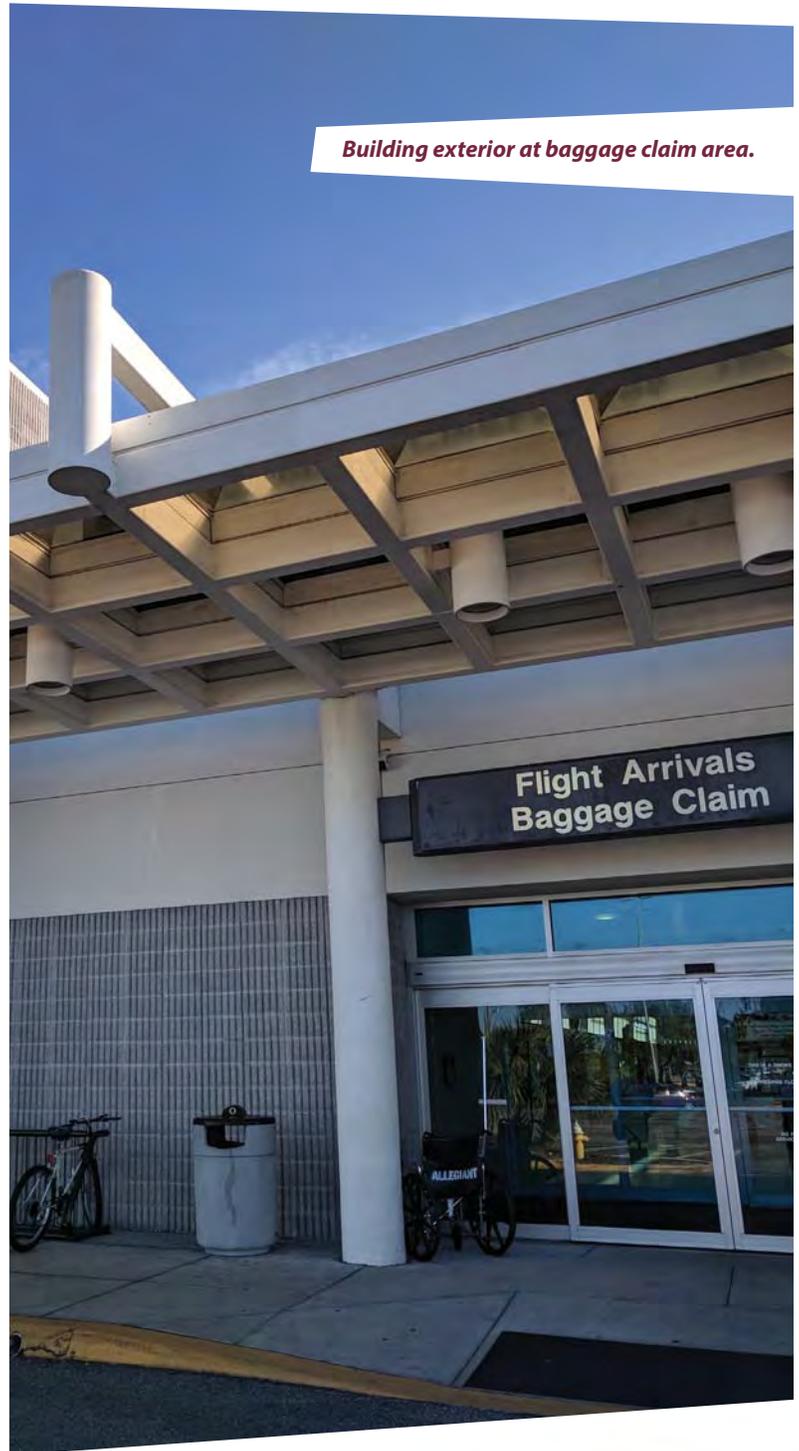
Roof

The roof consists of multiple roof levels and areas. Walkway pads exist throughout for maintenance traffic. The membrane is generally white in color and varies from poor to good condition depending upon building area, though no irreparable areas of visual water damage on the interior were noticed.

The roof above Ticketing A is in very good condition with only minor ponding noted, and some minor membrane non-adhesion at the parapet, but not considered a significant issue.

The roof area above CBP is in good condition with minor ponding noted.

Building exterior at baggage claim area.



The roof above the Gate 2-6 hold room is in poor condition visually. A concentrated area of ponding and subsequent loose membrane were noted at the second floor access door landing. Significant areas of patching at removed equipment was noted on the high roof area above concessions.

On the roof areas above the second floor spaces there are significant ponding areas and poor drainage patterns, especially over the main corridor which could be contributing to water issues noted there. This area also shows a substantial amount of fasteners that have become loose from the deck and insulation that are starting to push on the membrane, and in some instances have punctured the membrane.



Insulation fastener pushing through membrane.

The second floor walls extending above the first floor roof level are clad in EIFS. Some areas show cracking and ensuing repairs. While the repairs have been completed

and no new damage is noted, this could be indicative of moisture infiltration and should be monitored closely.



Cracked wall paneling and roof ponding.



Loose membrane and incomplete seam.

The new hold room addition is incomplete and missing edge flashing. This area also has visual craftsmanship concerns with areas of loose insulation, loose membrane, and seam poor quality. This area will likely need to be completely reroofed.

The Baggage Claim roofing is in good condition, but has one area that needs repairs from recent wind damage. Areas above rental car counters where skylights were infilled do show signs of water damage and roofing needs to be repaired. This is the only roof area that has lightning protection in place.

Opportunities/ Challenges Summary

The main issue from an architectural design perspective that is noted regarding the existing building is the piecemeal approach to renovations and additions. This has resulted in a disjointed building layout and inefficient circulation pattern. The biggest opportunity from a renovation perspective would be to review the building holistically and simplify the building in terms of massing and flow. The massing piece will allow various plan changes and roof levels to be normalized reducing the areas where energy efficiency and weather-tightness are most compromised. Simplifying the building layout will clarify the traffic patterns and help de-stress and improve the overall traveler experience.

An entirely new facility would allow this holistic approach to occur without the existing constraints and also afford the opportunity for centralized passenger screening and back-of-house baggage handling operations. This will further simplify the building usage and result in reduced operational costs that exist with two separate ticketing halls and check-points.

Phasing of renovations to the existing building will be a challenge, specifically in terms of not impacting day-to-day operations and causing flight delays. Careful consideration will need to be paid to phasing plans, maintaining Code required egress, and safety of passengers.

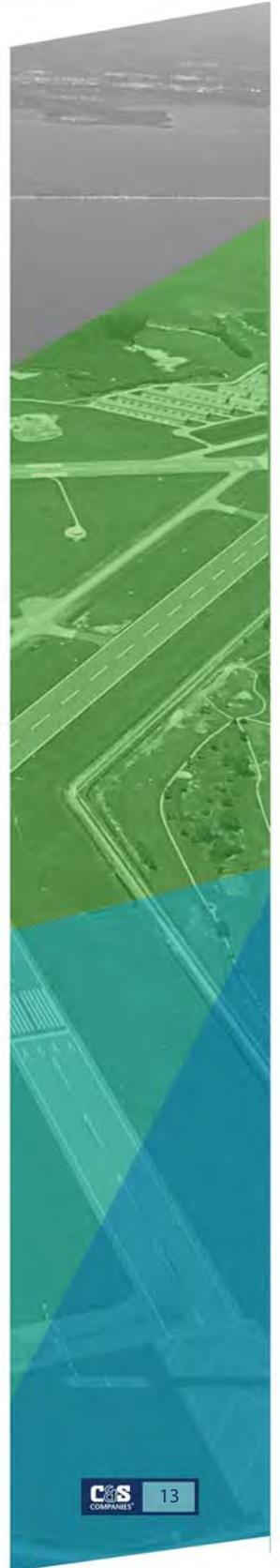
Overall, this building has many opportunities for renovation and expansion. The structure is simple enough in many areas that improvements could be economical and beneficial as long as the above challenges have been taken into consideration.



Rental car counters.



Structural Systems



Introduction/ Overview

At a quick glance from the exterior, the terminal building appears to be one cohesive structure. However, it is, in fact, an assembly of many types of construction that have been added in piecemeal fashion numerous times through the life of the building. The earliest drawings found on site were from the mid 1940's, spanning through 2017. There have been multiple iterations of construction, demolition, and rehabilitation to all parts of the structure. In addition, there is a current project underway performing a rehabilitation and adding on to the structure on the north side of the building. This portion of the building under construction is assumed to meet all the current codes and has been excluded from this portion of the assessment.

Based on visual inspection, the building appears to be in good structural condition. There were no major issues found, nor did the staff of the airport bring up any current conditions that warranted concern.

The following is a summation of what was found during visual inspection of the building and the plans that were available.

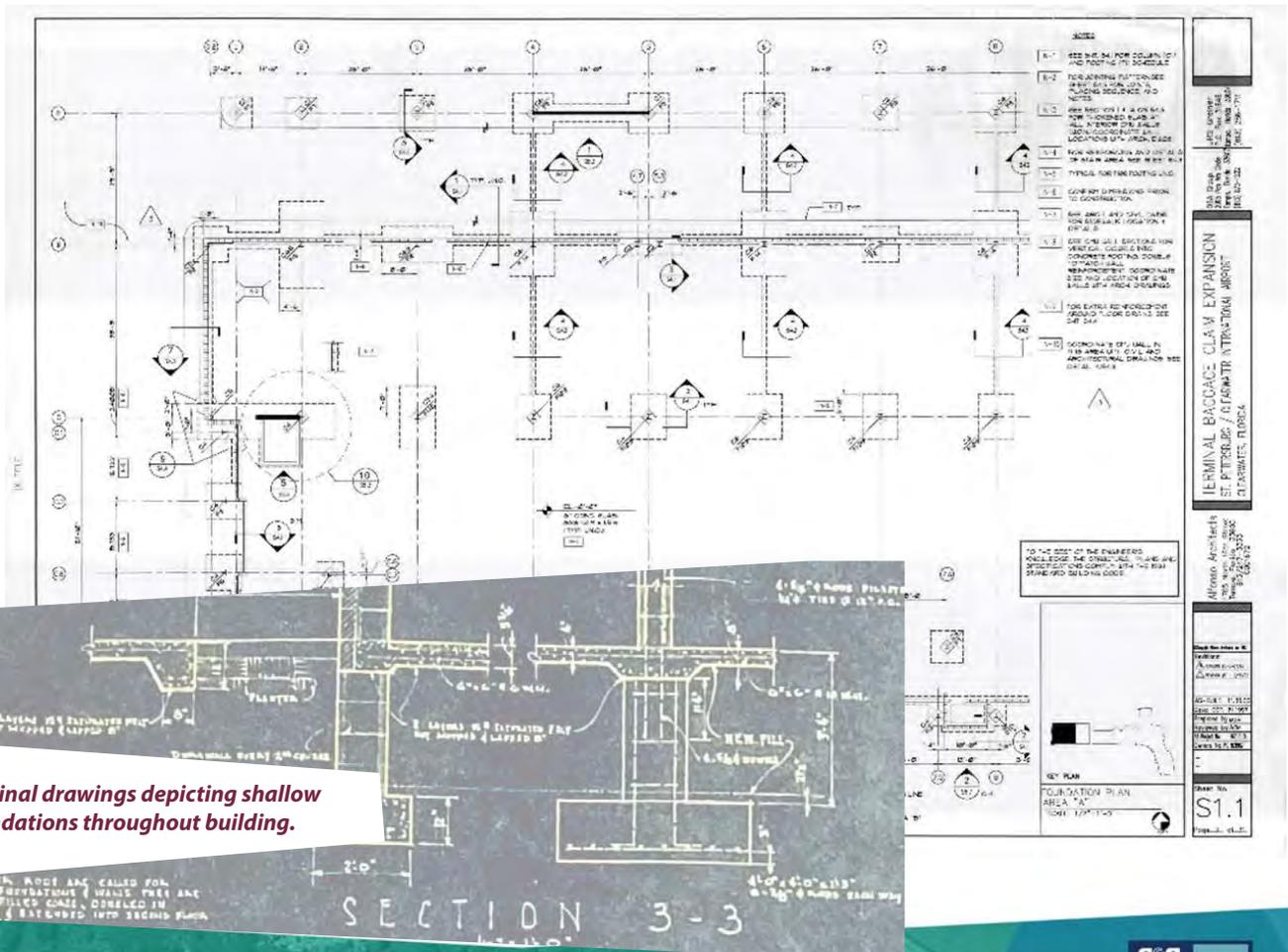


Foundations

The foundations of the building were not inspected due to the inaccessible nature of subgrade foundations. Partial demolition and digging equipment would have been required, which was outside the scope of this project. Based on the existing plans, there are various foundation types including CMU stem wall on shallow spread footers, concrete piers atop shallow foundations, concrete grade beams, and monolithic concrete foundations. All foundations appear to be shallow from the information available.

Based on visual inspection of the interior and exterior of the building, the existing foundations appear to be working as intended. There were no major cracks or spalling in the walls or slabs. Interior floor tiles appear to be in good shape, which is an indicator that if any cracks exist, they are minor in nature. There was no visible cracking in the walls, indicating that the foundations are supporting the building without any major or differential settlement. This is also a good indicator that the soils are stable and dense enough to support the intended design loads.

Overall, the foundations appear to be designed and constructed properly. Based on the way the soils and shallow foundations are performing, it is safe to theorize that any expansion or future construction on or near the facility could likely use shallow foundations in a similar fashion.

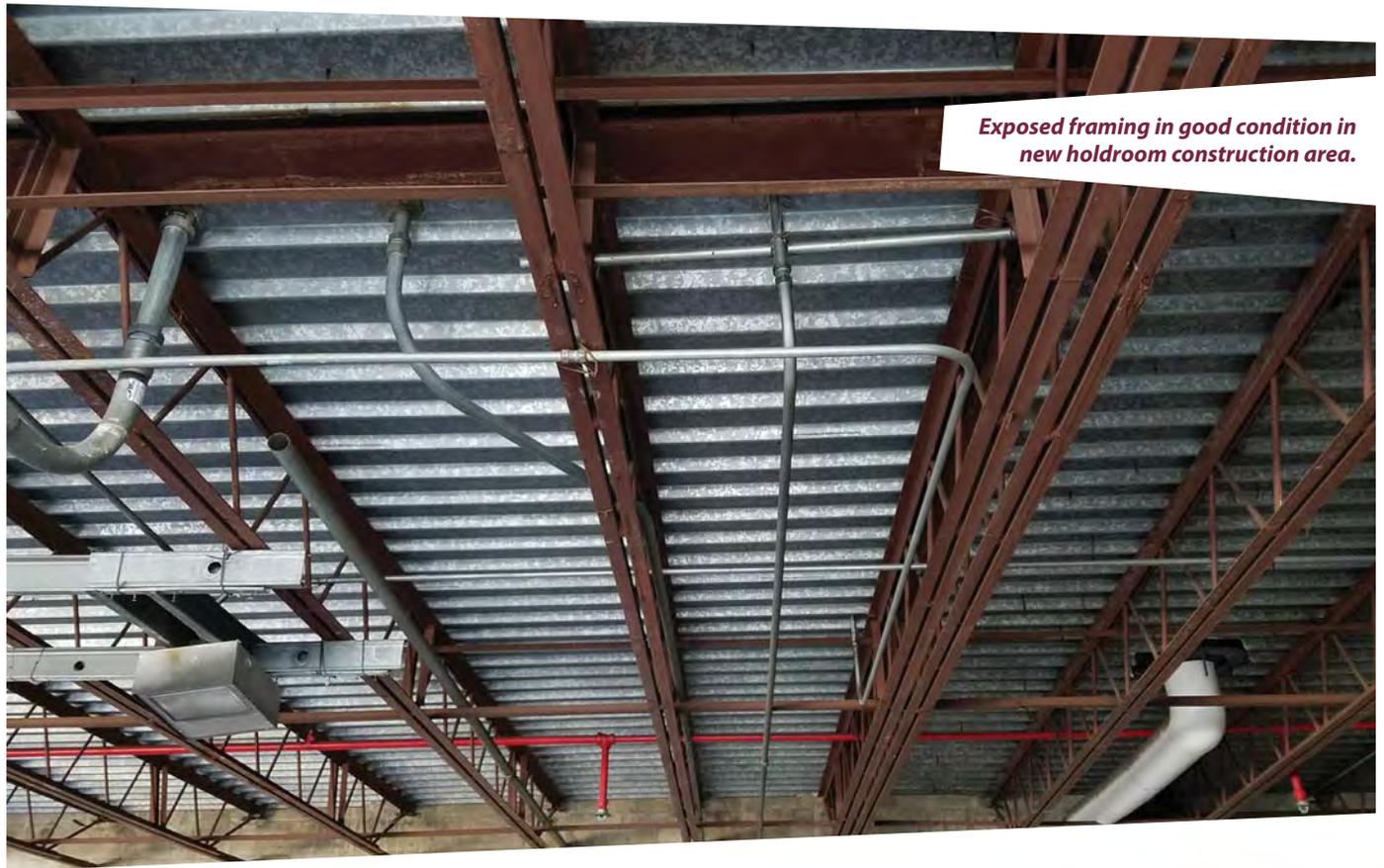
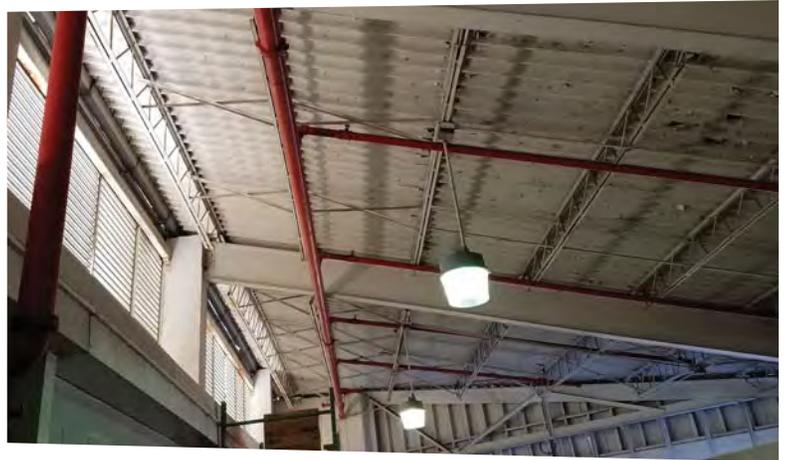


Floor and Roof Framing Overview

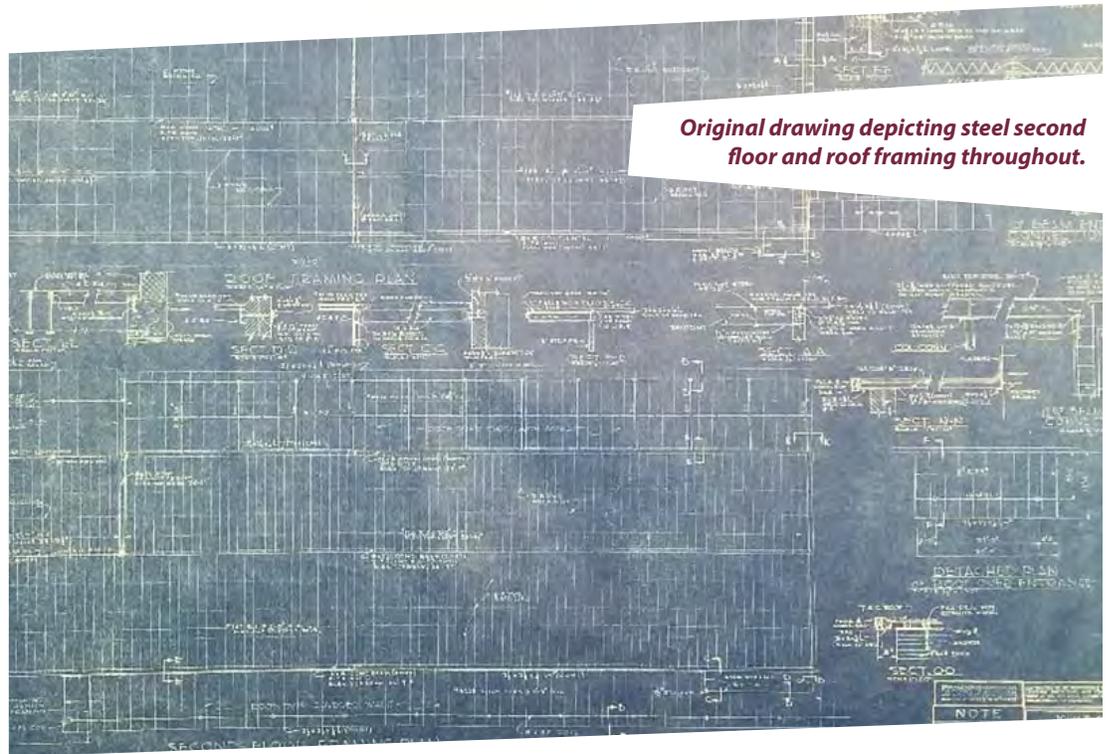
In general, the floor and roof framing consists of structural steel beams and open web joists. A number of areas were inaccessible for visual inspection and, therefore, could not be verified. Of the steel that was accessible for observation, no issues were found. Exterior steel was prime painted and appeared to be in good condition. Connections were typical bolted shear plates and all bolts appeared to be in good working condition.

The second floor consists of metal deck with concrete infill. It is unclear whether the decking is acting with composite action. The deck is acting as a diaphragm to transfer lateral loading from the exterior walls to the shear resisting system.

The roof consists of metal decking acting as a diaphragm. The connections from the deck to the structure are not clear on the existing draw-



Exposed framing in good condition in new holdroom construction area.



Original drawing depicting steel second floor and roof framing throughout.

ings. Based on the unknowns, a capacity of the roof deck may be difficult to estimate for any future renovations or expansions. It is recommended that any future additions to the building be designed isolated from the existing lateral resisting system.

No water staining or corroded areas were observed during the site walk, which was surprising considering the poor condition of the roof membrane. (See architectural for more on the roof membrane condition.) The lack of water staining could indicate that the roof deck and water proofing membrane are performing adequately. It could also indicate that the maintenance team is doing a good job of repairing any leaks and replacing the ceiling tiles in a timely manner. When asked directly if there were any issues or leaking in the roof, the maintenance team did not seem to have any areas of concern.

Overall, the floor and roof decking and framing members are in good condition. In reference to future expansion, adding to the building at the ground level is a relatively straightforward option. From a structural perspective, adding a second level to the baggage claim level or reconfiguring the 2nd floor office area into usable public space also appear feasible. The amount of design and construction cost to accomplish this is not in this assessment. Furthermore, it is unclear whether or not doing this work would actually add any benefit from a passenger flow or experience perspective. Further investigation is warranted in the alternatives phase of the Master Plan if these ideas are deemed beneficial by the Airport.

Wall Systems

The structural wall systems consist of traditional steel column and beam framing, CMU, and concrete. In the oldest portions of the building there are still some areas consisting of brick walls that have been covered up by modern block construction. Along the entrance corridor, the walls consist of a glass curtain wall system supported by steel columns and beam framing.

The lateral resisting system consists of traditional braced frames, concrete shear walls, and CMU shear walls. There is a possibility that some of the system contains moment frames but none were found in the existing drawings. The lateral systems appeared to be operating



properly based on the lack of movement/cracking in the building. Walls appeared intact with very little damage with the exception of the rooftop concrete wall panels. The wall panels on the roof were the only exception to the otherwise great condition of the building wall systems. The panels appear architectural in nature and are likely not resisting any lateral loads. The cracking in the panels is observed throughout all portions of the walls and evenly spaced, which could indicate an issue in the concrete mix design, the lack of reinforcing, issues during installation, or any other number of causes. The cracks have been repaired with some type of sealant. The date of the repairs is unknown.

Despite the numerous cracks, the panels appear to be structurally sound and do not appear to warrant cause for concern. It is recommended that the panels be monitored over the next 5 years on an annual basis for signs of deflection, spalling, or deformation of any kind.

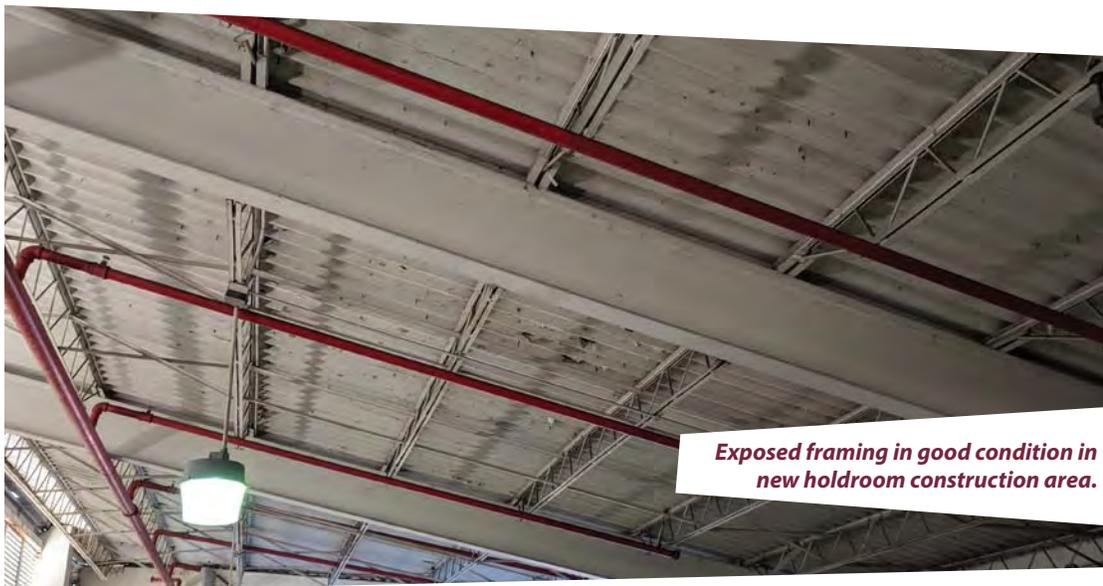
The wall systems, including the lateral resisting systems, appeared to be in good condition overall. The benefit of steel column and beam framing is the ease of modifying the infill to expand the building. There could be challenges with the areas of the building consisting of the concrete shear walls or braced frames, but for the most part, the structural system is one of the simplest to work around. Analysis of the overall lateral resisting system will be required to determine capacity if future expansion is to utilize the existing system.

Opportunities/ Challenges Summary

In addition to the opportunities and challenges listed above, there are some added issues to be considered. To start, due to the shortage of comprehensive building drawings, analyzing this building, as a whole, for a large expansion will be difficult and potentially very expensive. Consideration should be given to either creating isolated structures when adding onto the building or demolishing old structure and developing a comprehensive building structure in place of the existing. The former will prolong the piecemeal approach, but the later could potentially be expensive, albeit beneficial in the long term.

Phasing is going to be another challenging element of any significant renovation or addition. As with most airports, securing areas during construction is of vital importance and, with the many different types of construction, shoring and temporary structures will be more complicated. Special focus should be put on phasing and temporary structures during the design phase, and should not be left up to the contractor alone.

Overall, this building has many opportunities for renovation and expansion. The structure is simple enough in many areas that improvements could be economical and beneficial as long as the above challenges have been taken into consideration.

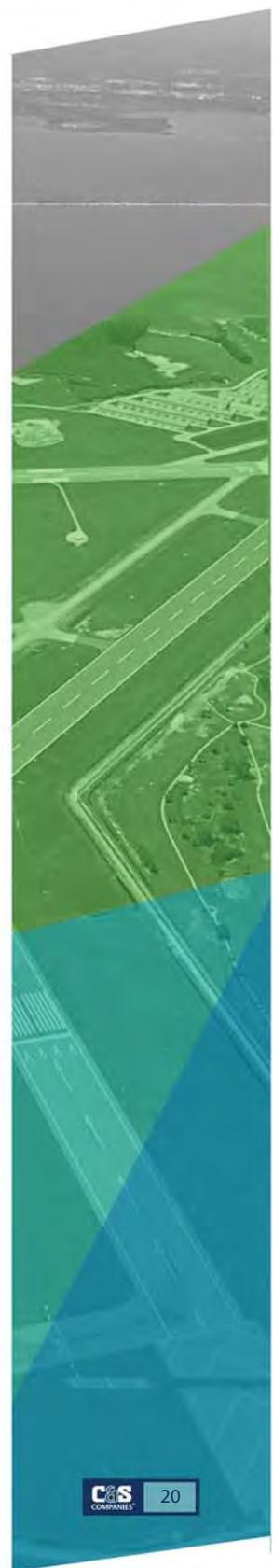


Exposed framing in good condition in new holdroom construction area.





Mechanical



Introduction/ Overview

The mechanical systems were assessed through visual inspection, review of the Terminal Renovation Plans, and discussions with maintenance staff. The majority of the mechanical systems were replaced within the last 10 years as part of the 3-phase Terminal Renovation project and appear to be in good condition. The final phase of the Terminal Renovation project adds 350-tons of cooling to the loop, while only adding 80-tons of air-handling equipment, which allows for redundancy in the facility.



HVAC systems

The airport is conditioned by a central air-cooled chilled water plant, which distributes chilled water throughout the terminal building to various single-zone Rooftop Units (RTUs) and multi-zoned, (Variable Air Volume (VAV) air handlers. When the current terminal renovations are completed, the chilled waters plant will consist of (3) air-cooled chillers, combined 900 tons, each with a dedicated primary loop pump, and (2) secondary loop pumps. The primary pumps are pad-mounted and adjacent to each chiller. They are sized to circulate water through the associated chiller to the secondary pumps located within the pump room. The secondary pumps operate on Variable-Frequency Drive Systems (VFDs) in a Lead-Lag configuration and circulate water based on maintaining a chilled water loop pressure set point.

The air-side systems consist of (24) RTUs manufactured by AADN and (20) indoor Air Handling Units (AHUs) and blower coil units. These units range from 3-tons for the smallest RTUs to 80-tons for the large indoor unit serving the new expansion for Gates 7-10. Most of the RTUs and indoor AHUs operate as single-zone VAVs.

Electric heaters within the RTUs and duct heaters for the indoor units provide for the facilities heating needs. The electric heaters operate by slowing the unit supply airflow down to 75% and then controlling the heater output by modulating through Silicon-Controlled Rectifier (SCR) control. A central gas-fired, condensing boiler plant would provide a more efficient heating approach, but only should be considered for local heat in any new expansions or for a full terminal rebuild. The high cost to retrofit the existing terminal HVAC systems to all hydronic heating would have a long period for return on investment.



Packaged rooftop HVAC units.

Chilled Water Distribution

The chilled water loop leaves the pump room through the roof as 8" mains and runs along the roof before splitting to (2) sets of 6" mains and (1) set of 4" mains, serving the east and west portions of the terminal building and the central portion, respectively. The chilled water system operates on a 12° dT, supplying at 45°F and returning at 57°F. The RTU and AHU control valves are 2-way valves with the exceptions of the final (3) units on each of the sets of mains. Those units are provided with 3-way valves to minimize stagnation of Chilled Water Unit (CHW) in the mains during low flow conditions.

The chilled water piping routes along the roof on pipe stands. The exposed piping is insulated with rigid insulation with an embossed aluminum jacket. The condition of the jacketing and insulation appeared good across the roof.



Fire Suppression System

The fire suppression system consists of several wet-system fire risers, added as the terminal expansions were constructed. The locations of the risers may make some sense from an individual perspective, but they are not ideally laid out when considering the facility as a whole. A large main along the east exterior of the facility routes above grade and then back below grade as it passes over many electrical feeds from the remote electrical building.



Fire water main routed along south wall of terminal building, above grade to avoid feeds from airfield electrical vault.

Opportunities/ Challenges Summary

Nearly all of the air-handling equipment, along with large portions of the associated ductwork, were replaced within the last 10 years. Based on feedback from the HVAC maintenance team, the cooling and heating systems are working very well. The existing cooling system type represents the least efficient chilled water system, but is much more efficient than the Direct Expansion (DX) equipment alternative to chilled water. The system efficiency could be improved by utilizing water-cooled chillers with cooling towers, in lieu of the air-cooled chillers. The drawbacks to this change would include the additional maintenance requirements of open-looped cooling towers, associated water treatment, and additional pumps. The efficiency increase could drop the kW/ton use from 1.2 to 0.7. Another cooling savings option, at the cost of system complexity, would be chilled water or ice storage. This allows the facilities team to shift some or all of the peak hours of cooling to the evening hours, when electricity costs are typically cheaper. Ice storage is recommended when there are definite regular times the cooling systems of the building will be not operating, allowing the chiller plant to shift to ice making mode. Chilled water storage is the next best option when systems must remain operational for most of a single day's 24 hours. The largest draw back to these two options are finding the real estate to house the storage systems. These major system changes would only be recommended if replacement of the entire terminal is considered.



Adding additional AHUs or RTUs at the extremities of the facility may require replacement of the mains to allow for the additional chilled water capacity (gallons per minute, gpm) required. Each branch can handle between 70-150 additional gpm, or 35-75 tons of cooling. Currently, the exposed location of these lines would make replacement relatively straightforward.

Fire suppression systems rarely have additional capacity unless planned into the design. Any expansions to the facility will most likely require another fire riser connected to the site fire water loop.

Plumbing Systems



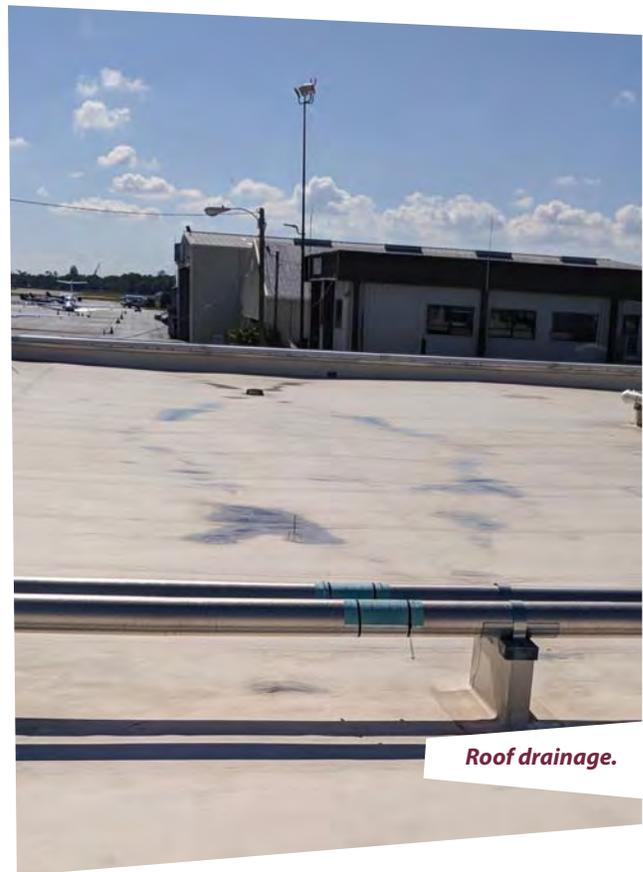
Introduction/ Overview

The plumbing systems were evaluated through visual inspection (of the systems visible), review of the Terminal Renovation Plans, and discussions with maintenance staff. Many of the restroom facilities were renovated during Phase III of the Terminal Renovation project and appear to be functioning satisfactorily.

Hot Water Systems

The majority of the terminal restroom groups are not provided with centralized hot water to the restrooms. Instantaneous water heaters are provided at the mop sinks associated with the restroom groups. Other hot water systems appear to be tenant specific, for example a food service location. No functional issues were noted or reported by the maintenance team.

Point-of-use style water heaters are 100% efficient. Central hot water plants utilizing condensing gas-fire boilers will typically only be 90-95% efficient, but may be more economical provided the cost difference between electricity and natural gas. Since most of the hot water demand for the facility only represents mop sinks, the savings in energy costs would not cover the switch-over to a central plant.



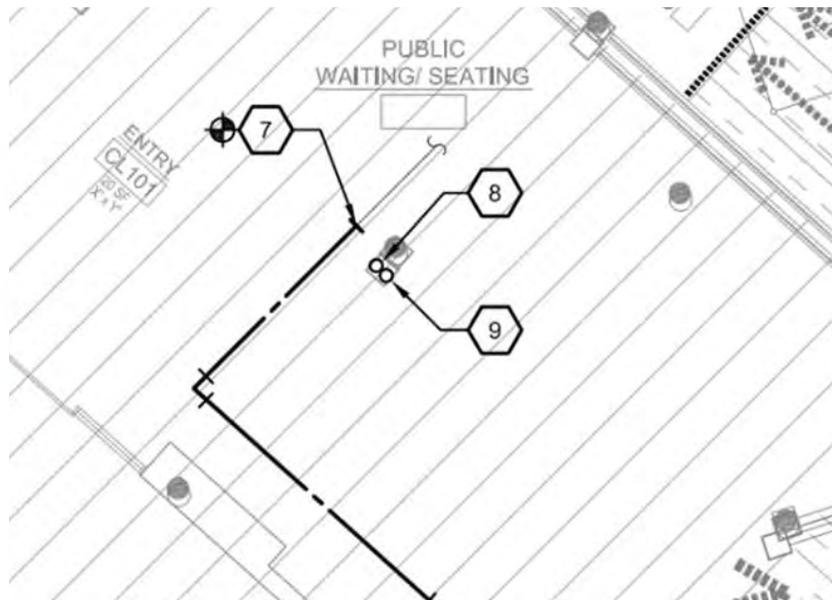
Roof drainage.



Sanitary Waste

Each of the restroom groups has a sanitary line that routes from the restroom group to the site sanitary system outside of the facility, typically toward the landside of the facility. These lines are constructed of cast iron and are original to the portion of the facility with which they were installed. The lines should be regularly scoped to ensure the condition of the lines remain intact. The only reported functional issues with the sanitary system were in regards to the Sam Adams Grille, specifically the floor drains and the sanitary line that conveys down from the second to the first floor. This line is located within a column wrap in the public seating area adjacent to the Transportation Security Administration (TSA) screening. Phase III plans indicate that the piping within the chase and below ground should be lined, since replacement would be very costly.

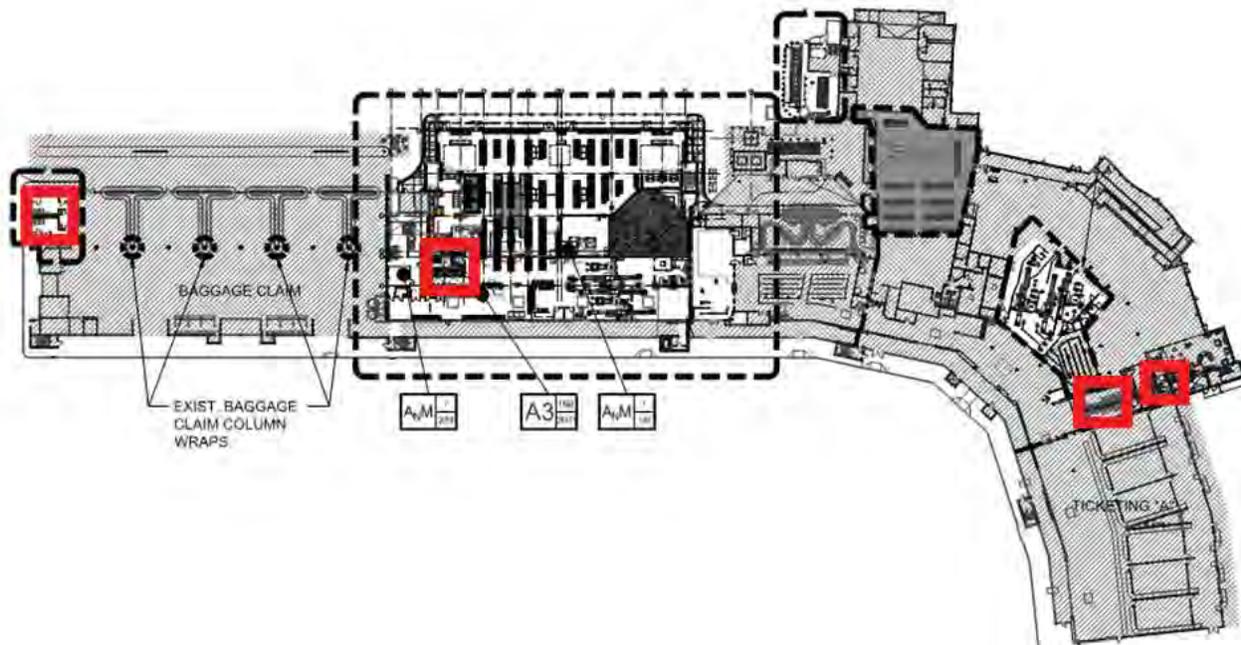
Any additional systems should be constructed of PVC, however there are two conditions where another material would need to be used. PVC cannot be used where routed within return plenums. Also, any piping serving restaurant waste, which most often includes soft drink drainage, should utilize PVDF or fuseseal piping. While substantially more expensive, this piping is rated for acid waste and resists the caustic soda waste. PVDF's value is only seen over the long term when PVC or cast iron would have failed.



Sanitary lines down from second floor restaurant.

Restroom Configurations

The terminal has (4) Mens & Womens 1st floor gang restrooms. (2) of the sets of restrooms are accessible to the non-secure area of the airport, adjacent baggage claim and ticketing and (2) are assessable to the secure side of the terminal, Gates 7-10 addition and Gates 2-6. From an overall capacity standpoint, there may be a sufficient number of units, however they are disproportionally placed pre and post-security, as noted in the architectural review. Future expansion and renovation projects should consider adding more capacity to the post-security side.



Restroom group locations.

Grease Traps

Existing grease traps are provided for the Sam Adams Grille and the condition of these traps are unknown. The Shell Key Café, when built-out will have (2) 1000# grease traps located to east of the Gates 7-10 addition. Grease systems located on second floors, like the Sam Adams Grille, that are separated by a distance from the associated grease trap tend to have issues with waterborne grease cooling and hardening while flowing through air-conditioned spaces. That scenario causes increased wear on the grease piping and higher potential for leaks. Heat tracing can be wrapped around the pipe to slow the cooling of the grease within the piping.

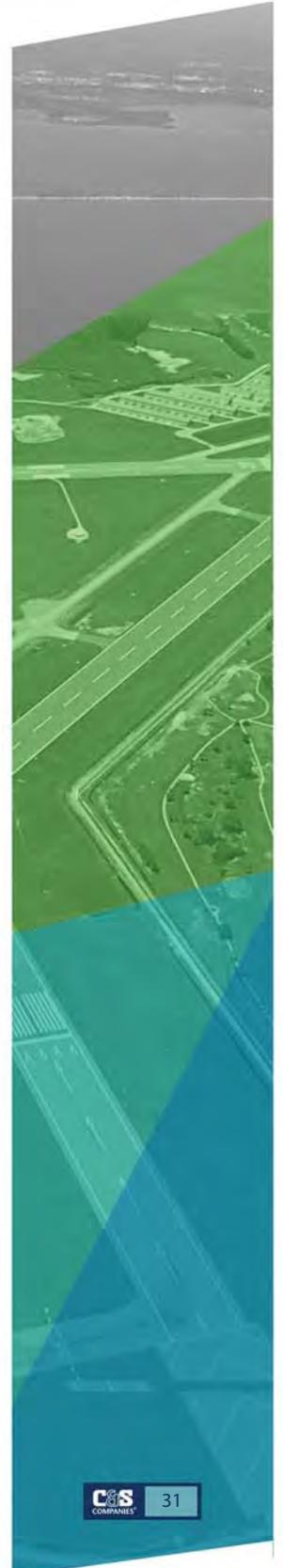
Opportunities/ Challenges Summary

Any expansions will most likely require new sanitary lines tied into the site sanitary system. The current restrooms do not have hot water at the restrooms. Our interpretation of the code is that they are required where washing occurs and that would include handwashing. This requirement is enforced differently from Authority Having Jurisdiction (AHJ) to AHJ, but should there be an increased load in hot water, alternative options for producing hot water should be investigated. One option is solar water heating. This option would be better implemented if the terminal building had a central domestic hot water plant. The roof does have a lot of equipment and piping, however there does appear to be areas for placing hot water solar panels. Another option would be a central boiler system, which would allow for less heating equipment throughout the facility, but would require more piping throughout. A third option would be local water heaters at each restroom facility. There are more systems to maintain, but this would allow for redundancy in the sense that not all restrooms would lose hot water should a heater fail. These three options should be weighed-in on by the facilities team as the total energy usage would be similar (with the exception of the solar panels), but vary mostly in the effort of maintenance.

Rainwater capture is another option that should be considered with the entire roof surface provided at the terminal. This option would not be easily adapted to the terminal as currently laid out, but could be implemented should full renovations be made, or a new-build terminal be pursued. The captured water can be used for landscaping purposes with little effort and treatment. The water can also be used for flushing toilets, though the water must be dyed to indicate that it is not potable water. These uses would probably cover a large portion of the terminal water usage. Challenges associated with rainwater capture are finding square footage to locate the storage tank and treatment system and proximity to roof drains.



Electrical Systems



Introduction/ Overview

The airport electrical system has evolved over the years with expanded use of multiple utility tie-in points to support the expanding terminal phases. To prevent the main electrical service from needing to be upgraded with additional capacity, projects were phased so that a new electrical utility could be brought in without needing to shut down the existing areas of the airport being served by the existing utility.

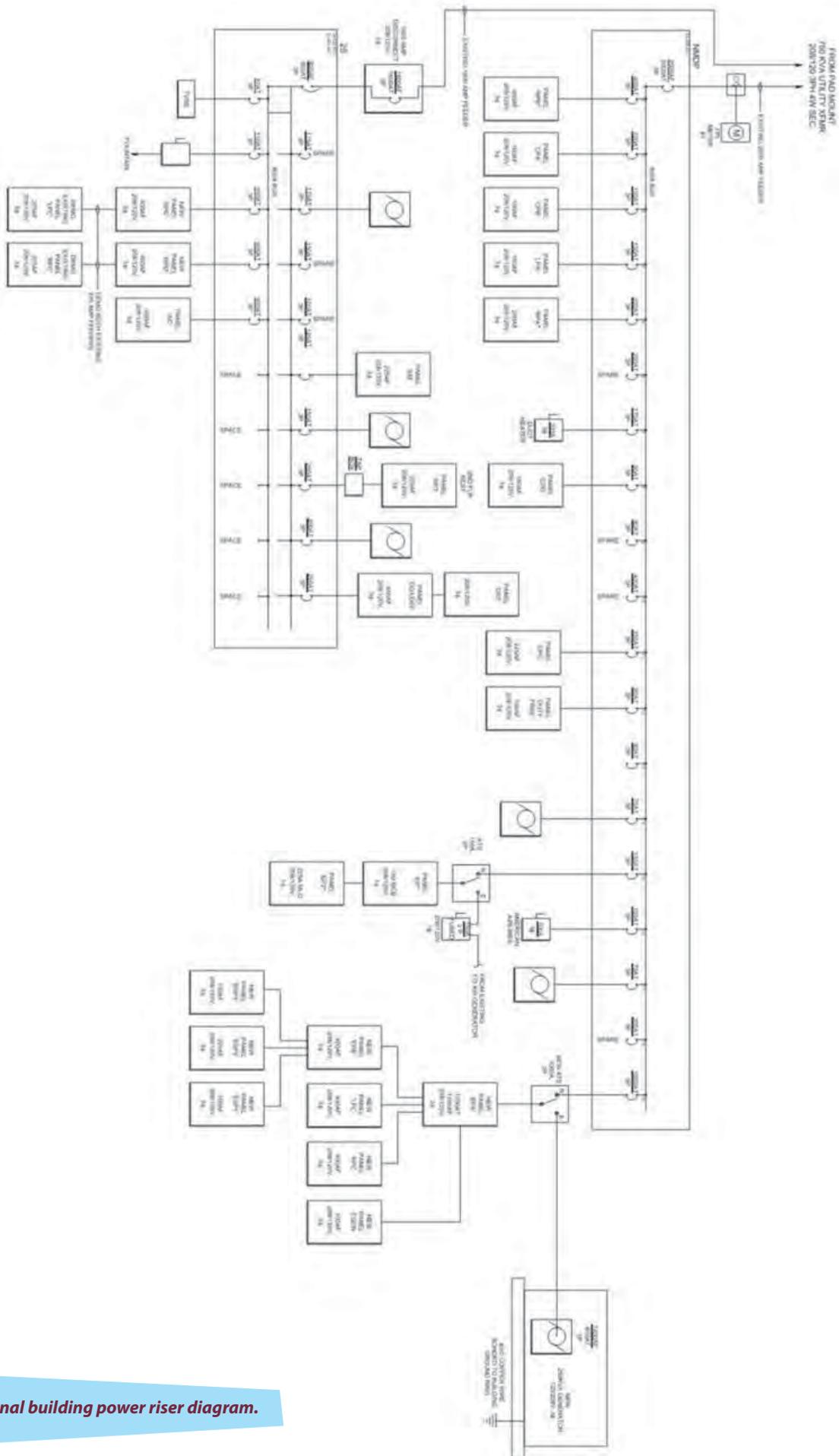


Example electrical room.

The main distribution boards feeding the electrical rooms and panels throughout the airport range in size from 800 amps to 4000 amps depending on the size of the area it is serving. From these distribution points the main feeders to the various areas of the airport are either individually metered via a combined meter center to allow

for billing to individual tenants as needed, or are directly metered to the incoming feed to the distribution panel. Each feeder is tied into a combined shunt trip that will trip enclosed circuit breakers outside of the structure feeding the main distribution panels if the main shunt in the fire command control room is triggered upon a response by the fire department.

The following pages show two examples of electrical riser diagrams showing different areas of the airport going back to different electrical utilities as mentioned above.



Terminal building power riser diagram.

Electrical Rooms and Distribution Layout

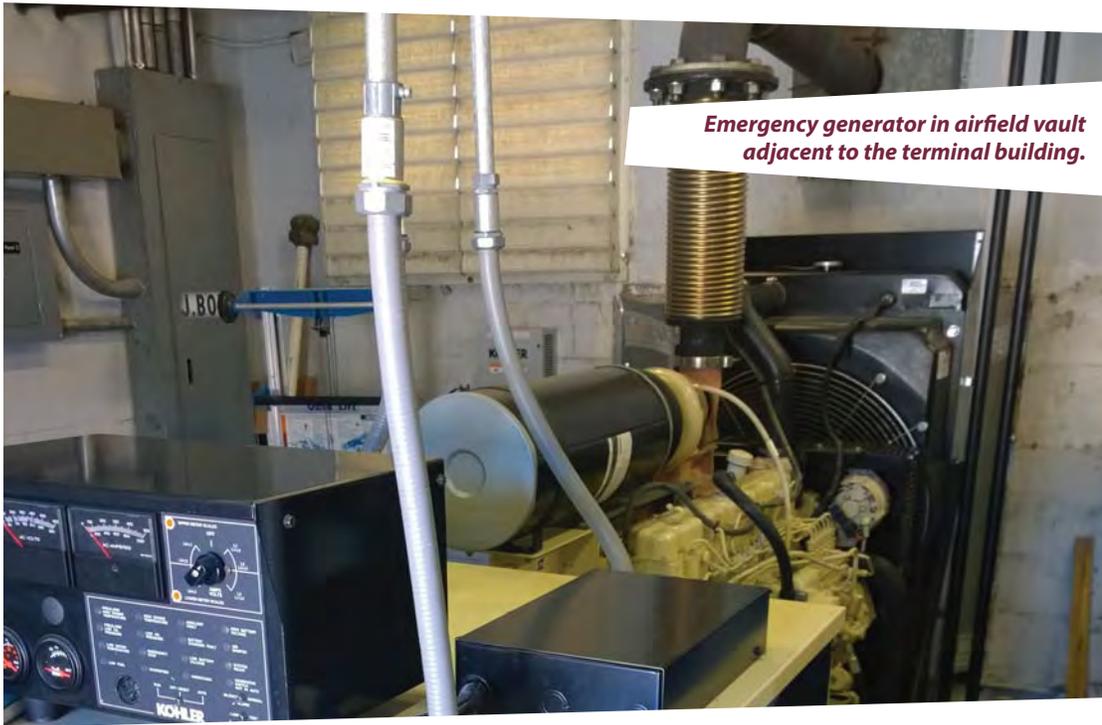
Electrical rooms in the terminal building are centrally located in the areas which they serve. For example, each Gate has a dedicated 800 amp distribution board located in an electrical room underneath the loading bridge feeding power to the bridge motors, lights and HVAC as well as other supporting equipment serving that particular area. Concessions and restaurants also have their own panels sized to serve their individual equipment plus limited capacity for future additions. This allows areas of the airport to be compartmentalized and modified minimizing the need to shutdown other areas outside of a project area to maintain airport operations.

A consolidated electrical system would be preferred for new construction, however for projects in the future it is recommended that the existing multiple utility system be further utilized to prevent disruption to airport operations. A consolidated approach would only be needed for larger projects if a nearby distribution panel does not have enough capacity to support an expansion. The new distribution system would require tie-in to the existing electrical system such that upon an emergency condition the building power supply can be shunted, ensuring that the entire structure is de-energized while emergency personnel respond to an event. Any further additions to the structure would also require the new utilities grounding system be bonded to the existing structure grounding electrode system to prevent a potential difference between the two services.

The only location a consolidated system could not be utilized would be the possible expansion of the south-east side of the structure that would interfere with the existing electrical vault housing the voltage regulators, controls, and generator for the airside lighting system. Careful construction phasing would be required in order to prevent interference of airport operations if this structure were to be relocated. The relocation of the structure would require the bypass of the existing electrical manholes feeding fiber and power to the vault so that the utilities could be switched over to a newly constructed vault to house the same equipment allowing a downtime only for the changeover of the incoming infrastructure to limit the disruption to airport operations. The process of constructing an identical vault and switching over the infrastructure to the new vault would be required unless the existing vault could be incorporated into the new structure, eliminating the need for it to be relocated.

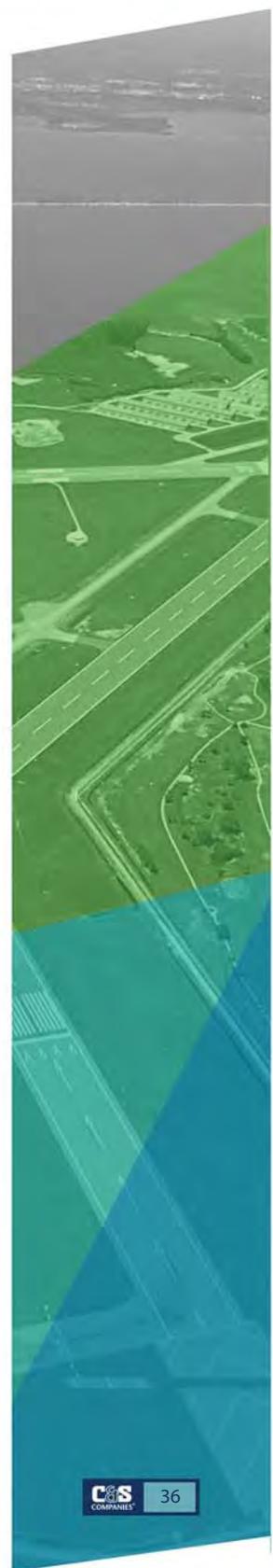
Emergency Power Systems

Emergency power for the facility is generated through two generators. Much like the distribution system, the emergency generators have been added with each large scale expansion of the airport such that the original 175kW generator included with the main terminal build-



Emergency generator in airfield vault adjacent to the terminal building.

ing construction works in conjunction with a newer 250kVA generator that was added with the Federal Inspection Service (FIS) expansion. Both of the generators are tied back to the same building grounding counterpoise loop in order to prevent a potential difference between grounds. It was noted, however, that each generator only feeds one automatic transfer switch that distributes to the various emergency panels feeding lighting, receptacles, and other equipment backed up by emergency power. Per National Electric Code (NEC) 700.5, a transfer switch would be needed for each emergency branch (emergency loads, legally required standby, and optional standby). The current configuration would not be allowable in future projects and it is recommended that any expansion requiring a new generator be done consistent with NEC requirements. The airport should verify that these requirements are included in the final design and construction of the proposed FIS improvements.



Fire Alarm Systems

The terminal building fire alarm system is configured by a main fire alarm control panel located in the fire command control room that then distributes out to localized fire alarm termination cabinets in each area of the airport, much like the power distribution layout. The existing system is a Honeywell Notifier series system with digital voice command to allow for paging areas of the airport from the fire command control room. The notification system is comprised of ceiling and wall mounted speaker strobes dispersed through all occupied areas of the building, with each Notification Appliance Circuit (NAC) tying back to its respective point of termination, all supervised by the main fire alarm control panel as well as a dialer with two dedicated phone lines to activate upon an emergency condition.

The fire alarm control system also provides standard initiating capabilities as well as tie-in for special monitoring of the Fenwal fire suppression system seen in many of the Electronic Equipment Rooms (EERs). Shunts for the airport emergency and normal power can also be found in the in the fire command control room so that power can be completely de-energized as needed by the responding fire department. Automatic release of access controlled egress doors can also be overridden by the existing fire alarm system in case of an emergency



Lightning Protection

A comprehensive lightning protection system was not observed on the roof of the building. Older areas of the building such as the main terminal and existing high-mast lighting were observed to have lightning protection on the terminals tied into ground, however newer expansions to the building did not appear to have air terminals mounted around the perimeter of the structure or and along flat central portions of the roof away from the perimeter. Rooftop equipment was also not bonded to any kind of lightning dissipating grounding electrode presenting a risk of a strike, on an unprotected portion of the building, capable of immense damage to equipment and fire. The airport should address this concern in any future renovation, expansion, and redevelopment of the terminal.



Opportunities/ Challenges Summary

The power distribution system, although it uses multiple utilities to serve different expansions of the terminal building, still has a large amount of excess capacity which could be utilized for future projects. The scale of the project and the location in the building would determine if existing infrastructure could be utilized or if a upgrading the nearby infrastructure to support an expansion would merit an additional utility and meter be brought in.

Further expansion of the emergency power system would require additional infrastructure to bring the existing system up to current standards. Any new generator would require separate transfer switches to each emergency leg and could no longer share a single switch. It is recommended that the existing head end emergency distribution equipment eventually be reconfigured to meet the requirements of NEC 700.5.

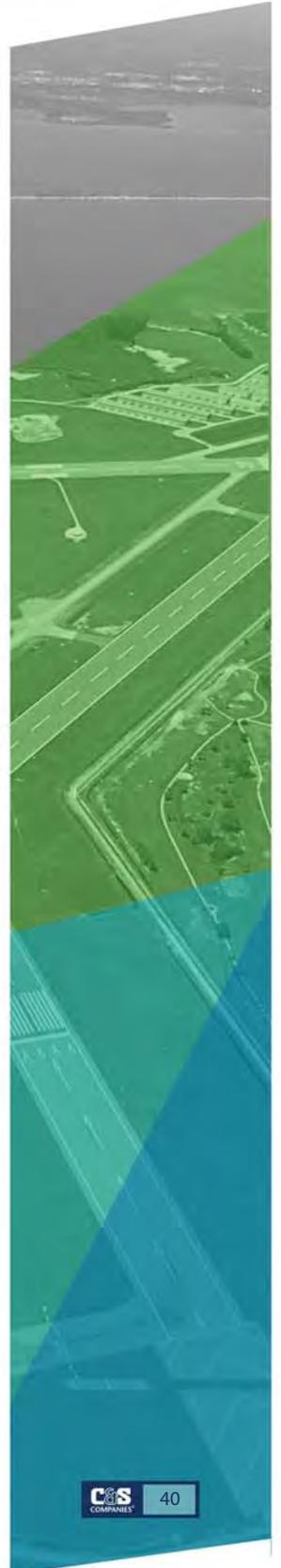
It is recommended that the existing lightning protection system be extended to all unprotected areas of the building as well as bond all existing roof mounted mechanical equipment. It is important that any new lightning protection still be bonded to the existing system in order to create one single protected grounding system for the building.

The lighting system for the existing building was noted to be older fluorescent and incandescent fixtures original to the building. There is an opportunity for energy savings by providing the fixtures with retrofit LED lamps sized to match the existing light output in the existing fixtures to save on long term energy costs and maintenance efforts to replace lamps with shorter life spans. This would also free up electrical capacity for future expansion.

The existing electrical infrastructure at the terminal building is a robust system with capacity for future small projects, with the ability to add larger expansions by bringing in additional utilities. The existing system allows the airport to remain operational during large expansion projects and is a reliable system for the future of the airport. As areas of the terminal building are scheduled to be renovated, opportunities can also be seized upon in order to address many of the building deficiencies listed above.



Airside Civil and Utilities Infrastructure



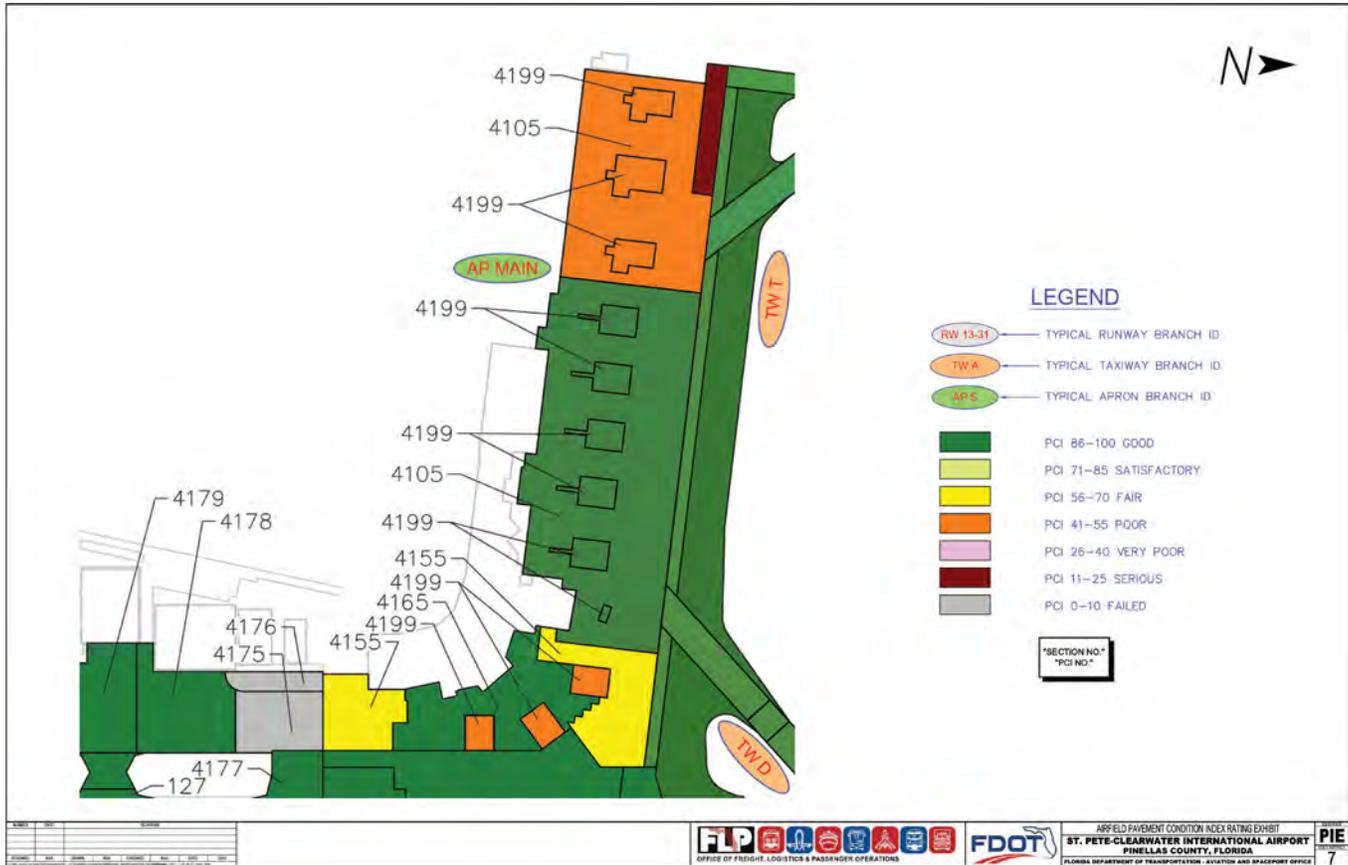
Introduction/ Overview

The study area for this part of the report discusses the airside and utilities infrastructure located on the commercial aircraft parking apron to the north, east and west of the existing passenger terminal building.



Airside Pavement

As part of the FDOT Statewide Airfield Pavement Management Program, St. Petersburg - Clearwater International Airport was inspected in January 2015. The pavement within this area is shown to range from 3 to 100 PCI.



Since the January 2015 fieldwork, there have been two projects completed to reconstruct the apron area from approximately Taxiway G on the southern edge of the terminal apron to approximately 200 feet west of the edge of terminal. The only areas below 100 PCI now are located on the far western edge of the study area.

The projects that updated the surrounding area along with pertinent dates are:

1. Terminal Apron Hardstand Expansion – Phase 1

- Engineer of Record: Avcon, Inc.
- Date project completed: 2015

2. Terminal Apron Hardstand Expansion – Phase 2

- Engineer of Record: Avcon, Inc.
- Date project completed: 2017
- There are a few isolated areas of what appears to be loading failure in the concrete pavement. These are isolated to certain areas of the apron. The airport is reviewing the reasons behind this and determining rehabilitation methods.

The area located west of the terminal building, formerly leased for air cargo, was not updated as part of the projects listed above. These areas were listed as a PCI of 51 and 55. Items to note in this area are the following:

1. There was a portable cargo handling building that was removed when United Parcel Service relocated. When the building was removed, anchor bolts were left exposed at the ground level. In discussion with airport personnel, they will be requiring UPS to remove the anchor bolts and patch these locations.
2. On the southern edge of this area are concrete trenches through the asphalt that are approximately one foot wide. In discussion with airport personnel, these were used as pavement repairs for cracks that were in the asphalt. They have held up well and stopped the reflective cracking.
3. This area may be leased to another entity at the airport. This is currently under development.

Below are a photos of the pavement areas discussed above:



Facing west on terminal apron formerly used for air cargo.



Facing east on terminal apron formerly used for air cargo.



Facing west on terminal apron approximately 250 feet east of west edge of terminal building.



Sample photo of the distress of the Terminal Hardstand 2 project on the southern edge.

Utilities Infrastructure

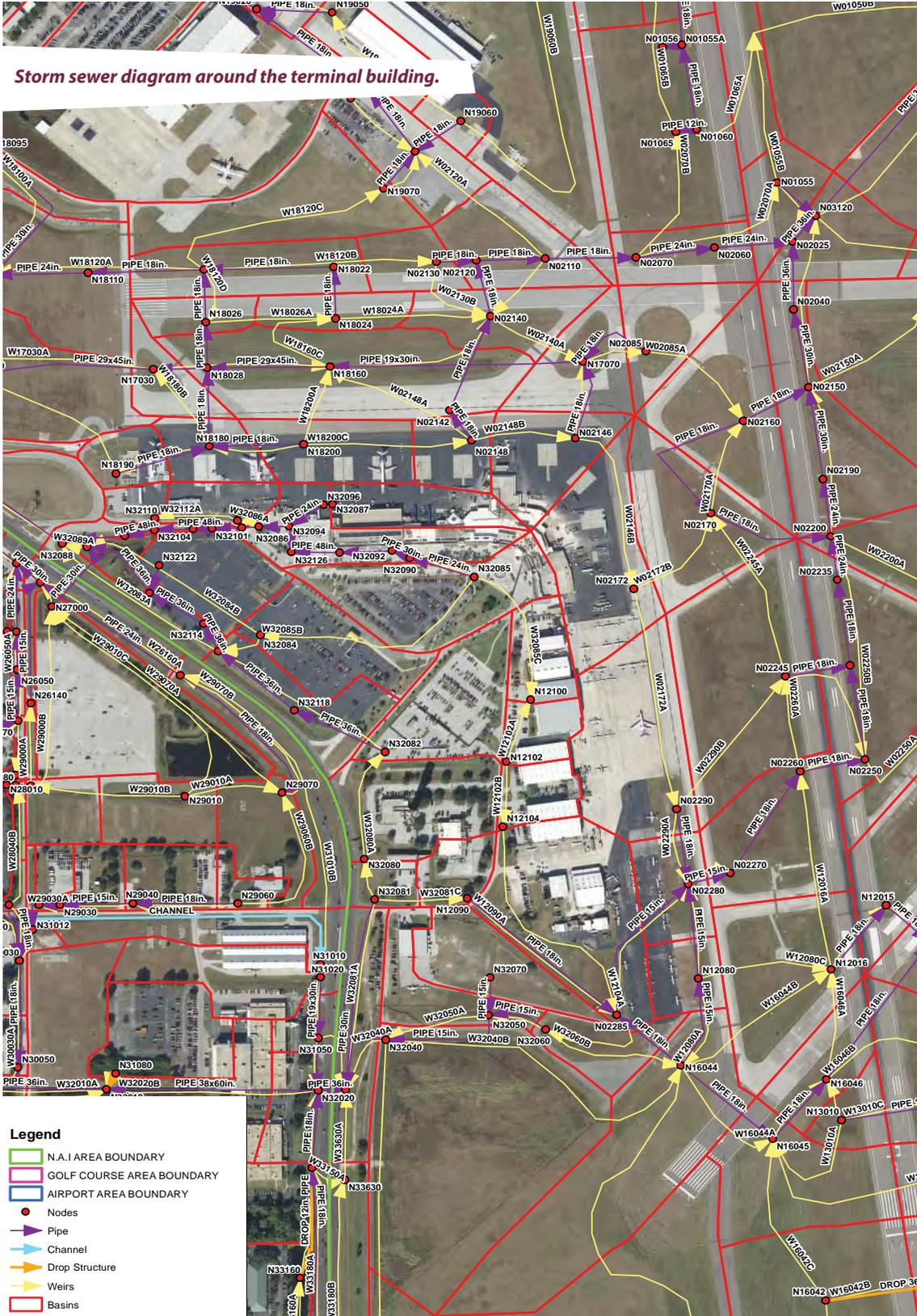
The utilities currently known in the area of the terminal apron are the comprised of: power, sanitary sewer, water, storm sewer and fiber.

The power, sanitary sewer and water travel along the northern face of the building but south of the hard stands for the aircraft. See other sections of the report for the interfaces to the building.



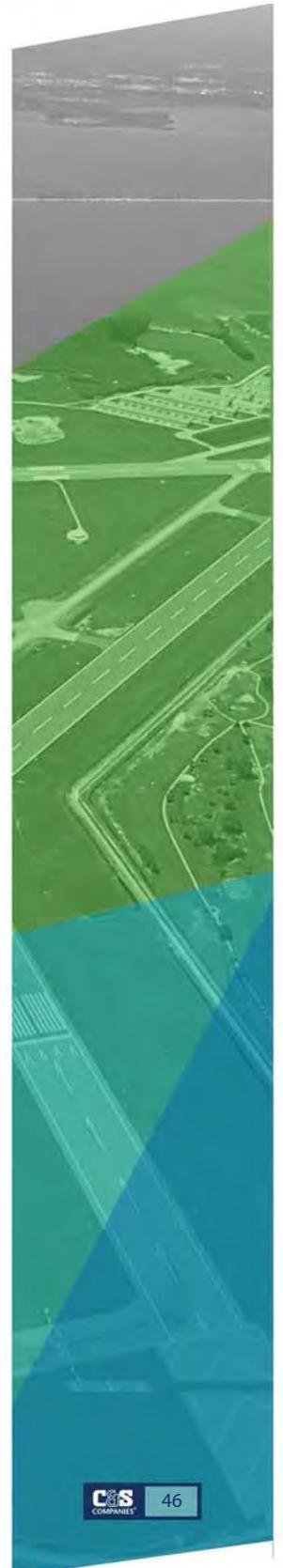
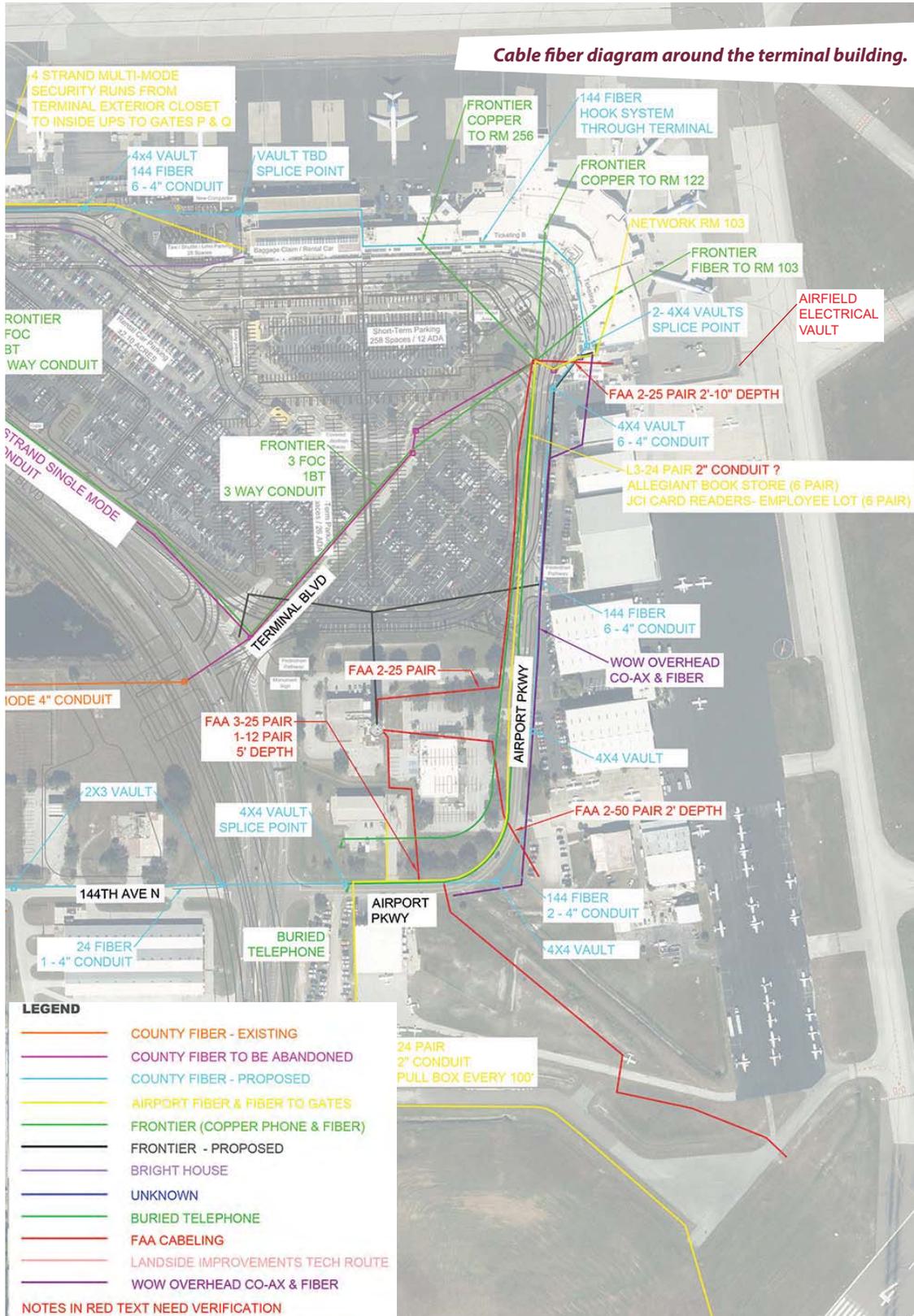
Terminal utilities overview (water, sewer, and power).

The storm sewer system is mainly laid out to allow water to flow from the building toward the airfield. There is a system of catch basins and pipes that bring the water to existing ditches and detention basins. See an excerpt of a node map for the drainage system below.



The fiber was recently updated for the airport and provides ample connectivity. The fiber connects into the south side of the terminal near the airfield electrical vault. See an excerpt from an updated fiber drawing.

Cable fiber diagram around the terminal building.





Utilities Capacity and Efficiency

The current systems appear to be working well and have ample capacity for existing demand. The capacity and efficiency for future work is described further below.

Power

There is ample power supply to the airside area and sufficient service is available should demand increase. As is typical for many buildings, this terminal building has been built in phases. It appears that there are at least three services for the building.

Sanitary Sewer and Water

These systems appear to be working and are being slightly updated as part of the landside parking lot improvements.

Storm Sewer

The airside storm sewer should have ample capacity for future needs. The pipes should not need increased capacity due to terminal expansion since most of the area is constructed with impervious material. The system appears to be pretty well organized and laid out.

Fiber

The airport has ample capacity for all expansion with the fiber that was recently installed. A cleaner approach moving forward would be for the airport to provide fiber to their tenants instead of each tenant obtaining their own.

Overall System

The utility system overall is working well for the airport. For future expansion, the existing systems may need to be re-routed to allow for thoughtful approach to modifying the system.

Opportunities/ Challenges Summary

Opportunities exist for expansion of the existing terminal building. This shall be evaluated in more detail when a known alternative is selected, but some of the opportunities and challenges are the following:

1. Shift, expand, or construct building further to the west
 - On the west side of the building, there are power, water and sanitary sewer lines that may need to be relocated due to the expansion.
 - The apron space formerly used for air cargo lease area could be used for the airport to extend their gates if it isn't leased to another entity.
2. Shift, expand, or construct building further to the north and east (toward the airfield)
 - Shifting the building toward the airfield would require the relocation of the existing taxiways and infilling the turf area between Taxiway T and the closed runway.
 - There are power, water and sanitary sewer lines that may need to be relocated due to the expansion.
 - An evaluation of the current drainage areas would need to be performed to reroute and size accordingly.
3. Shift, expand, or construct building further to the south
 - The existing airfield vault would need to be relocated.
 - Ticketing "A" Outbound baggage screening and make up that is being built in 2018 would also need to be relocated.
 - There are utilities such as power and fiber that would either need to be relocated or avoided.

Once the alternative is selected for the terminal, this section shall be reevaluated and the opportunities and challenges shall be evaluated further.



Summary



The project scope for this assessment included a full-day site walkthrough with Airport maintenance staff, visual inspection of all key terminal building rooms, and sifting through thousands of digital and paper copies of terminal drawings from various time periods. Though an exhaustive review of every single plan or element was beyond the scope of this project, through this review process, a basic knowledge of the building and surrounding infrastructure was gained. Below is a summary of key takeaways from the assessment, and opportunities and or challenges to be considered in the Airport Master Plan or subsequent renovation or expansion design phases.

The terminal building as a whole, including the majority of systems and passenger processing functions have been constructed over time in a “piece by piece” approach, which is common for many terminals we encounter. Historically, smaller projects, to meet immediate needs, have been constructed “just-in-time” or to just catch up with the demand. This is a result of the history of the Airport and the airlines that have come and gone. A few examples of this fragmented approach are the separated check-in, baggage screening, passenger screening, and baggage make up areas. Another example is the circuitous route that passengers have to follow to get from the holdrooms to the baggage claim area. A two-story, enclosed corridor was added to the exterior of the building because there was no other interior way to get from the holdrooms to the baggage claim. Functionally it now works, but it is not the highest and best use of space, is subpar wayfinding for passengers, and maintenance staff complain about energy usage and water leakage. Most airports of this size do not have multiple check-in, baggage make up, and passenger and baggage screening areas. Passenger processing and flow should be simplistic at a facility of this size.

The building infrastructure including the structural systems and mechanical/electrical/plumbing (MEP) systems generally also reflect a piece by piece approach because they follow the building expansions and renovations over time. Over the last 5 years, continuous improvements have been made to the building and infrastructure, but upgrades have generally been completed only within the construction “box”, tying into other existing systems. For example, the structural systems appear to be in good condition, but there are many different systems. So, any future expansion would have to either be a totally new building, a complete redo of the roof structure, or continued piece by piece approach one area at a time. The first two will require a large capital expenditure upfront, but have long-term benefits; the latter is less investment, but merely a short-term solution. Likewise, MEP systems are, in most cases, relatively new. Some systems, like power distribution and electrical infrastructure have capacity, with others such as the sanitary sewer line would likely require more capacity with even a small expansion.

The commercial aircraft parking apron and utilities infrastructure are an area with the most recent and comprehensive upgrade to the terminal facility. The Airport recently completed apron reconstruction, except for the apron space formerly used for air cargo. Also, the airfield utilities infrastructure is less complicated and have been constructed in a comprehensive manner. Access to these systems is also much easier than interior building systems. Any expansion onto the airfield will be more a matter of avoiding critical infrastructure than concern with expansion capacity.



Any large scale expansion could also be difficult to phase due to the need to maintain operations. As noted in the structural and building systems section, because there are a lot of smaller “groups” of systems, the few options are to continue the piece by piece approach, complete reconfiguration in place, or greenfield facility. All of these will have pros and cons, and will be evaluated in the Master Plan alternatives phase.

Other areas of possible improvement include the ramps to Gates 4 and 5 passengers boarding bridges. They are unusual considering all of other gates are ground loaded, including other FIS capable gates, and maintenance staff noted many issues with cleaning and servicing ceiling elements. The restrooms have enough capacity to accommodate overall passengers, however they are not properly split between pre-security and post-security. The pre-security restrooms are always empty, and the post-security are always congested. They should also be modernized to meet current passenger expectations. There were various areas throughout the building with exposed building construction issues, most commonly roof damage due to water leakage or lack of energy efficient lighting or plumbing systems. These are all items that most peer airports are improving during their modernization program, and should be considered at PIE. Finally, noticeably absent from the roof was exterior lightning protection. This is deemed critical because without it a lightning strike could cause a major fire and damage. This is particularly relevant in a climate like PIE given the frequency of thunderstorms throughout the year.

The terminal building is in reasonable condition, as is the commercial aircraft parking apron area, due to recent or ongoing projects. However, at a time of record growth at the Airport, careful thought as to how the terminal building, and systems, will expand to meet the growth is required. The Airport and main airline have an opportunity to develop an excellent terminal program that meets passenger needs, but must be done via a comprehensive building and systems strategy, which may be a different approach than what has occurred throughout its history.

The table on the following page is a high-level summary of key elements within the terminal building.



Conditions Assessment Stoplight Chart

| | FAILING | POOR | ACCEPTABLE | GOOD | EXCELLENT |
|---|---------|------|------------|------|-----------|
| Building Architecture Assessment | | | | | |
| Building Code Compliance | | | ● | | |
| Operation, Maintenance and Building Layout | | ● | | | |
| Interior Elements and Equipment | | | ● | | |
| Building Envelope | | | ● | | |
| Structural Systems | | | | | |
| Foundations | | | | ● | |
| Floor and Roof Framing | | | | ● | |
| Wall Systems | | | ● | | |
| Mechanical Systems | | | | | |
| HVAC Systems | | | ● | | |
| Chilled Water Distribution | | | | ● | |
| Fire Suppression System | | | ● | | |
| Plumbing Systems | | | | | |
| Hot Water Systems | | ● | | | |
| Sanitary Waste | | | ● | | |
| Restroom Configurations | | ● | | | |
| Grease Traps | | | ● | | |
| Electrical Systems | | | | | |
| Electrical Rooms and Distribution Layout | | | ● | | |
| Emergency Power Systems | | | ● | | |
| Fire Alarm Systems | | | | ● | |
| Lightning Protection | | ● | | | |
| Airside Civil and Utilities Infrastructure | | | | | |
| Airside Pavement | | | | | ● |
| Utilities Infrastructure | | | | | ● |
| Utilities Capacity and Efficiency | | | | | ● |

APPENDIX D

Passenger Terminal Landside Facilities
Supplemental Data

APPENDIX D

The following sections provide additional detail to the passenger terminal landside facilities included in the existing conditions chapter. This includes the actual seven-day and two-day traffic count logs, as well as other operational observation documented for the master plan study analyses.

1.1 Terminal Curbfronts and Pedestrian Areas

1.1.1 Terminal Curbfronts

Ticketing

There is one passenger terminal facility at the St. Pete-Clearwater International Airport (PIE). The terminal is divided into two subsections along the curbfront. The eastern half of the terminal is dedicated to departing passengers and is further subdivided into Ticketing A and B. Sun Country and Sunwing Airlines are located in Ticketing A, while Allegiant Air's check-in space is located in Ticketing B.

The primary curbfront adjacent to both Ticketing A and B provides three lanes. Even though the lanes do not have pavement markings indicating their designations, it was observed that two lanes were used for vehicles dropping off or picking up passengers while third lane was used exclusively for through traffic. A designated space for the economy lot shuttle is provided directly in front of the easternmost access to Ticketing A. In total, approximately 380 feet of loading and unloading curbside is provided adjacent to Ticketing A and B.

The secondary curbfront, which is currently accessed through a roundabout adjacent to the ticketing curbfront starting near the western extent of Ticketing B, provides two through lanes and one curbing lane designated for delivery shuttles and airport vehicles. The curbing lane provides six designated spaces for loading and unloading. This area is signed as a no-loading zone for personal vehicles and is enforced by airport traffic control. A raised-pavement pedestrian walkway crosses all primary and secondary curbfront lanes near the west end of Ticketing B, providing access from the short-term parking lot. **Figure D-1** details the features and measurements provided for the departures portion of the curbfront (Ticketing A and B). **Figure D-2** provides a cross-sectional view of curbfront adjacent to Ticketing A and B.

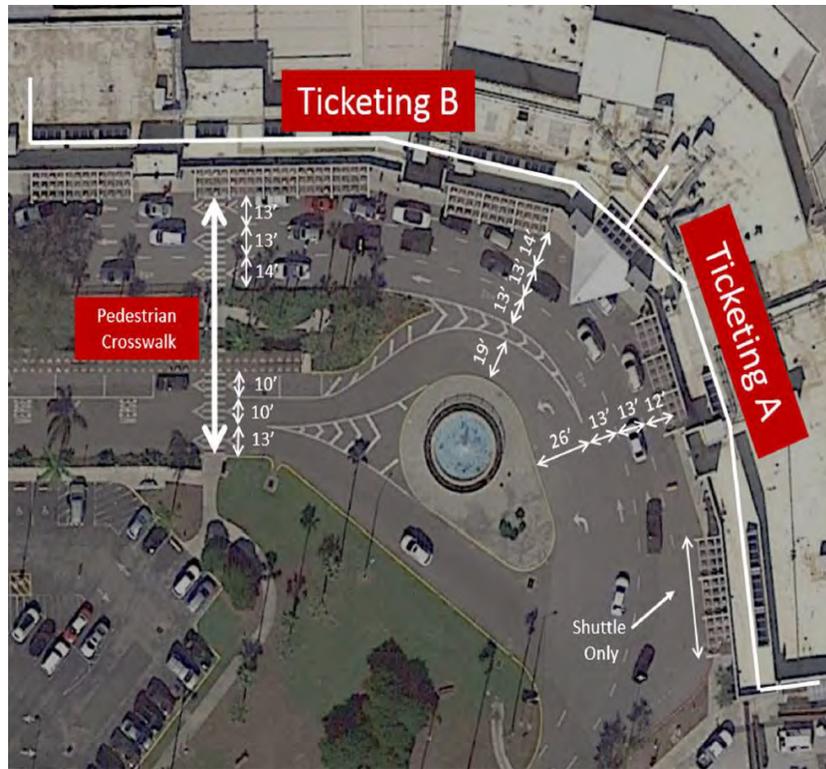


Figure D-1: Departures Curbfront

SOURCE: Google Earth; Kimley-Horn and Associates, Inc. (2017).



Figure D-2: Cross Sectional View - Ticketing A and B

SOURCE: Kimley-Horn and Associates, Inc. (2017).

Curbfront

Approximately 130 feet of undefined curbf front area separates Ticketing B from the Baggage Claim portion of the terminal. This segment of the building has no access to the terminal building for accessing or egressing passengers. During peak periods, this section is utilized as both loading and unloading space for arrivals and departures. Two lanes are used for curbing and a third exclusive travel lane is also provided.

The secondary curbf front in the undefined terminal area does not provide space for parking, loading, or unloading behavior. The space is used to both transition to one through lane from two, as well as provide a gap in the landscaped median. **Figure D-3** shows the unassigned curbf front area.



Figure D-3: Unassigned Curbfront Area

SOURCE: Google Earth; Kimley-Horn and Associates, Inc. (2017).

Baggage Claim

The western half of the terminal is occupied by baggage claim for arriving passengers. Four lanes are provided in the primary curbf front. Similar to departures, the first two lanes are intended for loading and unloading behavior, while the third lane is for through traffic. The fourth lane is a left turn only lane for recirculation back to the terminal's entrance.

The secondary curbf front provides one through lane and one curbing lane. In total, approximately 280 feet of curbside is provided in the primary curbf front, while 6 loading spaces are designated in

the secondary curbside. This secondary curbside is also designated for delivery shuttle and airport vehicles only. Two raised-pavement pedestrian crosswalks traverse all lanes of traffic and provide access to the short- and long-term parking lots. A third raised-pavement crosswalk connects baggage claim with the landscape median between curbsides. All three crosswalks terminate on the terminal side directly adjacent to the terminal access points.

Figure D-4 depicts the existing curbside infrastructure, and **Figure D-5** shows a typical cross section.

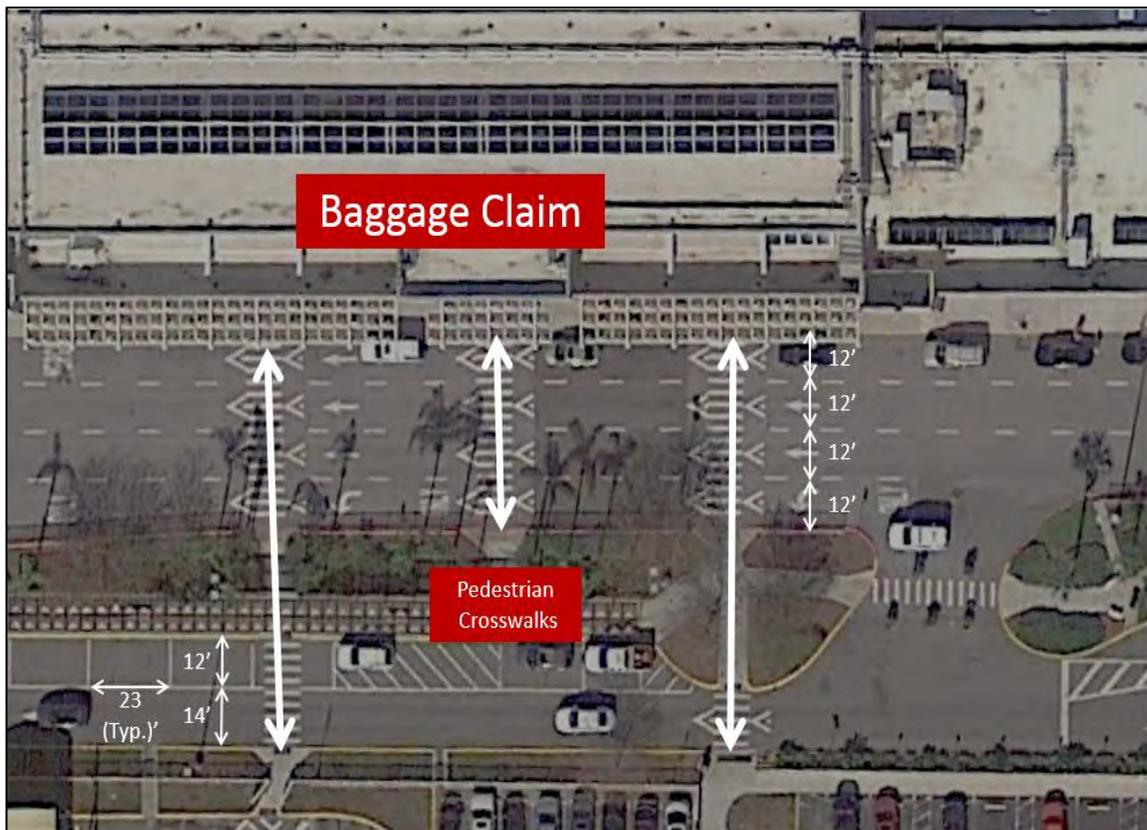


Figure D-4: Curbside Inventory – Baggage Claim

SOURCE: Google Earth; Kimley-Horn and Associates, Inc. (2017).



Figure D-5: Cross Sectional View – Baggage Claim

SOURCE: Kimley-Horn and Associates, Inc. (2017).

1.1.2 Ground Transportation Area (GTA)

The following section details the utilization of the GTA with respect to different user types.

Taxis

The GTA provides approximately 110 feet of queue-able space for private taxis to wait for potential passengers. During observations, cabs queued and approached the curbside area when hailed by a passenger exiting the airport. **Figure D-6** shows cabs queueing in the designated space.



Figure D-6: Taxi Queuing

SOURCE: Kimley-Horn and Associates, Inc. (2017).

Courtesy Shuttles

A variety of shuttles utilize the GTA for pick-up and drop-off, including shuttles to remote parking, remote rental car facilities, and private hotel shuttles. PIE provides courtesy shuttles to and from the off-site, remote parking lot. The shuttle has five pickup locations within the remote lot and two pickup locations at the terminal. These airport shuttles first stop in front of Ticketing A to drop-off passengers before arriving in the GTA for passenger pick-up. Loading occurs in the curbside area directly outside of the terminal. Per information gathered from the interviews with the shuttle operators, at any given time, two to five airport shuttles are in circulation, achieving approximately ten-minute headways during peak periods. **Figure D-7** shows an airport shuttle loading in the GTA.

Rental car and hotel shuttles also frequently utilize the curbside area in GTA. While most rental car agencies store vehicles in the nearby surface lot, Thrifty and ACE have off-site facilities. Both agencies run continuous shuttle services through the GTA for customers.



Figure D-7: Airport Shuttle in GTA

SOURCE: Kimley-Horn and Associates, Inc. (2017).

Other Uses

Besides taxis and shuttles, the GTA is utilized by other vehicle types including employees, rental cars, limousine services, and commercial vehicles. Per the interview with airport officials, the parking spaces in the northwest corner of the GTA are frequently occupied by airport staff. Instances of unauthorized use of these spaces was reported during Kimley-Horn’s meeting with airport officials.

The parking spaces in the northeast corner of the GTA were reported to be utilized by a combination of airport employees and rental cars. Customers that request their rental cars be delivered to the GTA are instructed to find their vehicles in these spaces. These spaces are signed as “Shuttle Only” spaces, but not enforced as such.

Lastly, commercial vehicles often utilize the GTA for loading and unloading activities, which is more convenient than the secondary curbside adjacent to the terminal.

1.1.3 Sidewalks/Curbfront Area

Sidewalks are provided across the entirety of the curbside area from Baggage Claim to Ticketing A. Near the terminal access points, the sidewalk width is approximately 14 feet. However, throughout the curbside, the practical width of sidewalk is less due to the intermittent location of columns and building bump-outs. In areas where the building is not offset from the curb, only five feet of sidewalk width is provided, limiting pedestrian flow to single-file. **Figure D-8** depicts the narrow space provided in such instances.

Between these choke points and the terminal accesses, sidewalk width ranges from 8 to 10 feet. Columns and fixtures like trash cans and benches limit the walkable area, and in some cases, prevents two-way travel. **Figure D-9** shows the pedestrian activity.



Figure D-8: Sidewalk Constraints

SOURCE: Kimley-Horn and Associates, Inc. (2017).



Figure D-9: Curbfront Pedestrians

SOURCE: Kimley-Horn and Associates, Inc. (2017).

1.2 Vehicle Counts and Curbfront Observations

An extensive traffic data collection effort was completed in support of the Master Plan. The landside data was collected in two major categories: roadway traffic counts and terminal curbside observations. Traffic counts were collected in strategic locations to determine peak days, peak times, and roadway volumes at the airport’s curbside and access roadways. In addition to the traffic counts, terminal curbside observations were conducted. This section summarizes the operational observations including vehicle classification counts, dwell times, vehicle occupancy, pedestrian activity, and loading and unloading information.

1.2.1 Traffic Counts

A preliminary, seven-day traffic count was conducted to determine the distribution of traffic (i.e. “peaking”) through the week. The preliminary roadway traffic counts were followed with two-day

traffic counts at seven locations. Camera footage was collected at the GTA and is summarized in Section 1.4.

Seven-Day Counts

The seven-day traffic counts were conducted from Thursday, December 7, 2017 to Wednesday, December 13, 2017 to determine the inbound and outbound peaking throughout the week. The seven-day traffic counts were collected at the key airport access/egress locations illustrated in **Figure D-10**. **Table D-1** presents the preliminary daily volume comparisons for all locations of the seven-day traffic counts. The complete seven-day traffic count reports collected are provided in **Appendix D-1**.

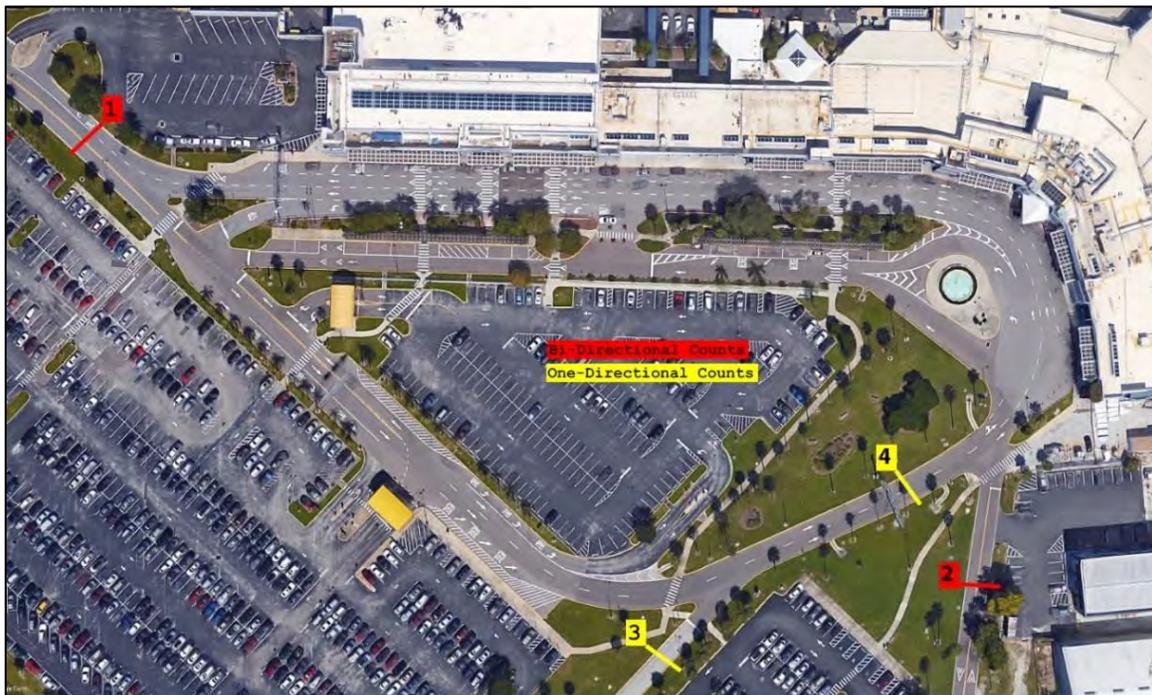


Figure D-10: Seven-Day Traffic Count Locations

SOURCE: Google Earth; Kimley-Horn and Associates, Inc. (2017).

TABLE D-1 SUMMARY OF SEVEN-DAY TRAFFIC COUNTS

| Day (Date) | Count Location | | | | | | |
|-------------------|----------------|--------------------|-------------------|-------------------------|-------------------------|-----------------------|--------------------|
| | 2017 | 1: Main Entry (EB) | 1: Main Exit (WB) | 2: Airport Parkway (NB) | 2: Airport Parkway (SB) | 3: Terminal Boulevard | 4: Curbfront Entry |
| Thursday (12/7) | | 1,983 | 3,908 | 1,011 | 1,088 | 1,998 | 4,188 |
| Friday (12/8) | | 2,131 | 3,987 | 1,028 | 993 | 2,013 | 4,271 |
| Saturday (12/9) | | 1,279 | 2,645 | 589 | 618 | 1,424 | 2,909 |
| Sunday (12/10) | | 1,648 | 3,971 | 768 | 766 | 1,940 | 3,891 |
| Monday (12/11) | | 1,972 | 4,233 | 1,009 | 1,020 | 2,012 | 4,395 |
| Tuesday (12/12) | | 860 | 1,231 | 510 | 549 | 526 | 1,384 |
| Wednesday (12/13) | | 1,196 | 2,061 | 676 | 716 | 1,014 | 2,221 |

SOURCE: Kimley-Horn and Associates, Inc. (2017).

Two-Day Counts

In an effort to capture an average day of the peak month of December, the third highest weekday for volume entering the curbside was examined from the seven-day counts. Based on the daily overall airport traffic entering the curbside summarized previously in **Table D-1** the PMAD day was identified as Thursday, December 7, 2017, shown in **Table D-2**. Therefore, the two-day counts were conducted on Thursday, December 14, 2017 and Friday, December 15, 2017. **Figure D-11** illustrates the seven locations collected during the two-day counts and **Table D-3** summarizes the daily volumes at each location. The complete two-day traffic count reports collected are provided in **Appendix D-2**.

TABLE D-2: IDENTIFICATION OF PMAD AND TWO-DAY COUNTS

| Days | Entering Curbfront Volume | Rank (Highest Peak to Lowest) |
|-------------------|---------------------------|-------------------------------|
| Monday (12/11) | 5,404 | 1 |
| Tuesday (12/12) | 1,894 | 7 |
| Wednesday (12/13) | 2,897 | 6 |
| Thursday (12/7) | 5,199 | 3 – PMAD |
| Friday (12/8) | 5,299 | 2 |
| Saturday (12/9) | 3,498 | 5 |
| Sunday (12/10) | 4,659 | 4 |

SOURCE: Kimley-Horn and Associates, Inc. (2017).



Figure D-11: Two-Day Traffic Count Locations

SOURCE: Google Earth; Kimley-Horn and Associates, Inc. (2017).

TABLE D-3 SUMMARY OF TWO-DAY TRAFFIC COUNTS

| Day (Date) | Count Location | | | | | | | | |
|------------------|--------------------|-------------------|-------------------------|-------------------------|-----------------------|--------------------|-------------------|---------------------|-----------------------|
| | 1: Main Entry (EB) | 1: Main Exit (WB) | 2: Airport Parkway (NB) | 2: Airport Parkway (SB) | 3: Terminal Boulevard | 4: Curbfront Entry | 5: Main Curbfront | 6: Second Curbfront | 7: Return to Terminal |
| Thursday (12/14) | 1,983 | 4,118 | 999 | 1,099 | 2,226 | 4,670 | 510* | 1,259* | 2,604* |
| Friday (12/15) | 2,131 | 4,815 | 1,077 | 1,132 | 2,471 | 5,169 | 576* | 1,422* | 2,940* |

*Estimated based on supplementary count: Thursday December 21st, 2017
 SOURCE: Kimley-Horn and Associates, Inc. (2017).

1.2.2 Curbfront Observations

Curbfront operational observations were completed during two, two-hour periods on Thursday, December 14, 2017, the PMAD day determined by the seven-day traffic counts. Tables summarizing the resulting data are provided below. Additional detail and the supporting data forms are provided in **Appendix D-3**.

Vehicle Classification Counts

Vehicle classification counts were collected during peak periods on Thursday, December 14, 2017. The three locations assigned for vehicle classification collection are illustrated in **Figure D-12**.

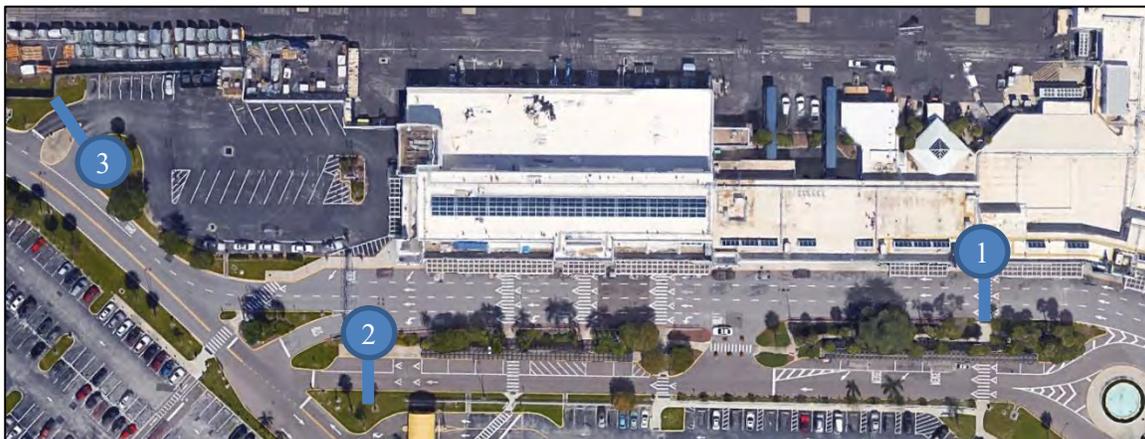


Figure D-12: Vehicle Classification Positions

SOURCE: Google Earth; Kimley-Horn and Associates, Inc. (2017).

The tables below summarize the total vehicle count by vehicle classification entering the airport at the main curbside, secondary curbside, and GTA, respectively. The counts are summarized in the field data forms included in **Appendix D-3**.

TABLE D-4: VEHICLE CLASSIFICATIONS SUMMARY – MAIN CURBSIDE

| Vehicle Class | AM | | PM | |
|-------------------------|------------|---------------------|------------|---------------------|
| | Count | Percentage of Total | Count | Percentage of Total |
| Private Auto | 472 | 89% | 621 | 95% |
| Taxi | 19 | 4% | 5 | 1% |
| TNC | 26 | 5% | 13 | 2% |
| Rental Car Shuttle | 0 | 0% | 1 | <1% |
| Super Shuttle | 2 | <1% | 0 | 0% |
| Hotel Courtesy Shuttle | 3 | <1% | 3 | <1% |
| Delivery Trucks | 1 | <1% | 0 | 0% |
| Law Enforcement | 1 | <1% | 0 | 0% |
| Airport/County Vehicles | 4 | <1% | 7 | 1% |
| Other | 2 | <1% | 1 | <1% |
| Total | 530 | 100% | 651 | 100% |

SOURCE: Kimley-Horn and Associates, Inc. (2017).

TABLE D-5: VEHICLE CLASSIFICATIONS SUMMARY – SECONDARY CURBFRONT

| Vehicle Class | AM | | PM | |
|-----------------------------|------------|---------------------|------------|---------------------|
| | Count | Percentage of Total | Count | Percentage of Total |
| Private Auto | 184 | 87% | 210 | 85% |
| Economy Lot Shuttle | 20 | 9% | 18 | 7% |
| Private Transportation Vans | 1 | <1% | 1 | <1% |
| Delivery Trucks | 2 | <1% | 4 | 2% |
| Law Enforcement | 0 | 0% | 1 | <1% |
| Airport/County Vehicles | 4 | 2% | 12 | 5% |
| Total | 211 | 100% | 253 | 100% |

SOURCE: Kimley-Horn and Associates, Inc. (2017).

TABLE D-6: VEHICLE CLASSIFICATIONS SUMMARY – GTA

| Vehicle Class | AM | | PM | |
|------------------------|-----------|---------------------|-----------|---------------------|
| | Count | Percentage of Total | Count | Percentage of Total |
| Private Auto | 14 | 78% | 14 | 29% |
| Taxi | 2 | 11% | 14 | 29% |
| Rental Car Shuttle | 1 | 6% | 12 | 25% |
| Private Van | 1 | 6% | 5 | 10% |
| Hotel Courtesy Shuttle | 0 | 0% | 2 | 4% |
| Other | 0 | 0% | 1 | 2% |
| TOTAL | 18 | 100% | 48 | 100% |

SOURCE: Kimley-Horn and Associates, Inc. (2017).

Dwell Time by Travel Mode

Dwell time is the amount of time a vehicle spends parked at a curbside lane (or other passenger loading or unloading area). Spot sampling of dwell times were collected at the Ticketing A, Ticketing B, Baggage Claim, and GTA sections of the curbside. The average dwell times by travel mode in the AM and PM peak periods are presented in the tables below.

TABLE D-7: AM DWELL TIMES

| Vehicle Type | Ticketing A (m:ss) | Ticketing B – East (m:ss) | Ticketing B – West (m:ss) | GTA (m:ss) |
|---------------------|--------------------|---------------------------|---------------------------|------------|
| Private Auto | 1:22 | 1:19 | 0:56 | 0:39 |
| Taxi | - | 1:16 | 0:57 | 0:51 |
| Limousine | - | - | 1:38 | - |
| TNC | 1:08 | - | - | - |
| Charter Bus | - | 0:53 | - | - |
| Economy Lot Shuttle | 0:49 | - | - | - |
| Contracted Shuttle | - | 2:30 | 0:32 | - |
| Transportation Vans | - | 0:53 | - | - |
| Hotel/Motel Shuttle | - | 1:18 | 1:39 | - |

* “-” = *No vehicles observed*

SOURCE: Kimley-Horn and Associates, Inc. (2017).

TABLE D-8: PM DWELL TIMES

| Vehicle Type | Baggage Claim West (m:ss) | Baggage Claim East (m:ss) | GTA (m:ss) |
|---------------------|---------------------------|---------------------------|------------|
| Private Auto | 6:26 | 2:26 | - |
| Taxi | - | - | 1:16 |
| TNC | 0:52 | 0:39 | - |
| Charter Bus | - | - | 3:42 |
| Rental Car Shuttle | - | - | 3:08 |
| Hotel/Motel Shuttle | - | - | 1:07 |

* “-” = *No vehicles observed*

SOURCE: Kimley-Horn and Associates, Inc. (2017).

Vehicle Occupancy

The vehicle occupancy, or number of people occupying each vehicle when departing the curbside, was also observed as part of the curbside data collection effort. The vehicle occupancies were collected along with the dwell time observations, by the same staff and collected as random sample points.

The average vehicle occupancy by travel classification (drop-off, pickup, and GTA), was conducted and documented in the same field data forms than for dwell time and are included in **Appendix D-3**. The average vehicle occupancy by travel mode in the AM and PM peak periods are presented in the tables below.

TABLE D-9: AM VEHICLE OCCUPANCY (DROP-OFF)

| Vehicle Type | Ticketing A | Ticketing B – East | Ticketing B – West | GTA |
|---------------------|-------------|--------------------|--------------------|------|
| Private Auto | 1.19 | 1.60 | 1.68 | 2.00 |
| Taxi | - | 1.00 | 1.50 | 1.00 |
| Limousine | - | - | 2.00 | - |
| TNC | 1.00 | - | - | - |
| Charter Bus | - | 2.00 | - | - |
| Economy Lot Shuttle | 2.88 | - | - | - |
| Contracted Shuttle | - | 1.00 | 4.00 | - |
| Transportation Vans | - | 2.00 | - | - |
| Hotel/Motel Shuttle | - | 2.00 | 6.00 | - |

* “-” = *No vehicles observed*

SOURCE: Kimley-Horn and Associates, Inc. (2017).

TABLE D-10: PM VEHICLE OCCUPANCY (PICK-UP)

| Vehicle Type | Baggage Claim West (m:ss) | Baggage Claim East (m:ss) | GTA (m:ss) |
|---------------------|---------------------------|---------------------------|------------|
| Private Auto | 1.50 | 1.43 | - |
| Taxi | - | - | 1.75 |
| TNC | 1.75 | 2.00 | - |
| Charter Bus | - | - | 7.00 |
| Rental Car Shuttle | - | - | 4.14 |
| Hotel/Motel Shuttle | - | - | 2.50 |

* “-” = *No vehicles observed*

SOURCE: Kimley-Horn and Associates, Inc. (2017).

Pedestrian Activity

The crosswalks were observed for pedestrian activity on Thursday December 14, 2017. **Figure D-13** illustrates the five crosswalks and the number classification used to identify each.

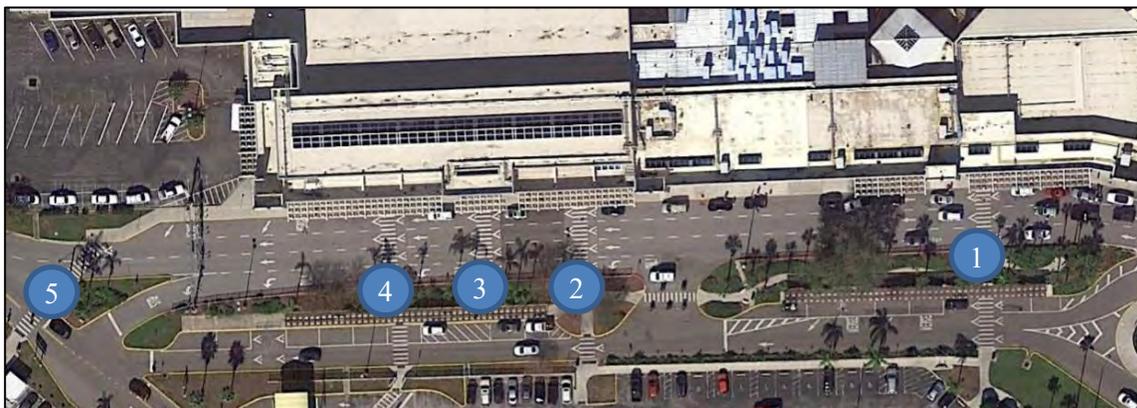


Figure D-13: Pedestrian Crosswalks

SOURCE: Google Earth; Kimley-Horn and Associates, Inc. (2017).

Total count of pedestrians, average group size, average amount of luggage, pedestrian origin (airport or parking lot), method of crossing (on crosswalk or jaywalking), and crosswalk used are summarized in **Table D-11** and **Table D-12** for the AM and PM periods respectively. The forms are included at the end of **Appendix D-3**.

TABLE D-11: AM PEDESTRIAN ACTIVITY

| Crosswalk | Average Group Size | Average Luggage | % From Airport | % From Lots | % Using Crosswalk |
|-----------|--------------------|-----------------|----------------|-------------|-------------------|
| 1 | 1.48 | 1.19 | 30% | 70% | 96% |
| 2 | 1.65 | 0.85 | 19% | 81% | 100% |
| 3 | 1.50 | 0.67 | 33% | 67% | 67% |
| 4 | 1.96 | 1.63 | 2% | 98% | 94% |
| 5 | 1.93 | 1.53 | 3% | 97% | 99% |

SOURCE: Kimley-Horn and Associates, Inc. (2017).

TABLE D-12: PM PEDESTRIAN ACTIVITY

| Crosswalk | Average Group Size | Average Luggage | % From Airport | % From Lots | % Using Crosswalk |
|-----------|--------------------|-----------------|----------------|-------------|-------------------|
| 1 | 1.55 | 0.89 | 42% | 58% | 89% |
| 2 | 1.92 | 0.62 | 31% | 69% | 99% |
| 3 | 1.90 | 1.13 | 81% | 19% | 100% |
| 4 | 1.73 | 1.06 | 48% | 52% | 97% |
| 5 | 1.84 | 1.27 | 47% | 53% | 93% |

SOURCE: Kimley-Horn and Associates, Inc. (2017).

Pedestrian interactions with vehicles were also documented during data collection. At all crosswalks, approximately 50 percent of pedestrians did not encounter a vehicle during crossing. In instances where a vehicle interaction occurred, the vehicle stopped appropriately approximately 90 percent of the time. In the other 10 percent of interactions, vehicles were observed to either stop abruptly or not stop at the crosswalks.

1.3 Rental Car Photos



Figure D-14: Rental Car Counter Space

SOURCE: Kimley-Horn and Associates, Inc. (2017).



Figure D-15: Rental Car Lot Key-Drop Booth

SOURCE: Kimley-Horn and Associates, Inc. (2017).

1.4 GTA Camera Footage Summary

1.4.1 Camera Footage

A camera was installed, as illustrated by yellow in **Figure D-16**, to observe vehicles entering/exiting the GTA. Camera footage was preferred over tube counts with the purpose of also collecting vehicle classification. **Table D-13** provides a summary of vehicular volume at the GTA on the PMAD day identified as Thursday December 14, 2017 during the two peak periods collected (5:00AM – 7:00AM and 12:00PM – 2:00PM). The vehicular counts are included in their entirety in **Appendix D-3**.

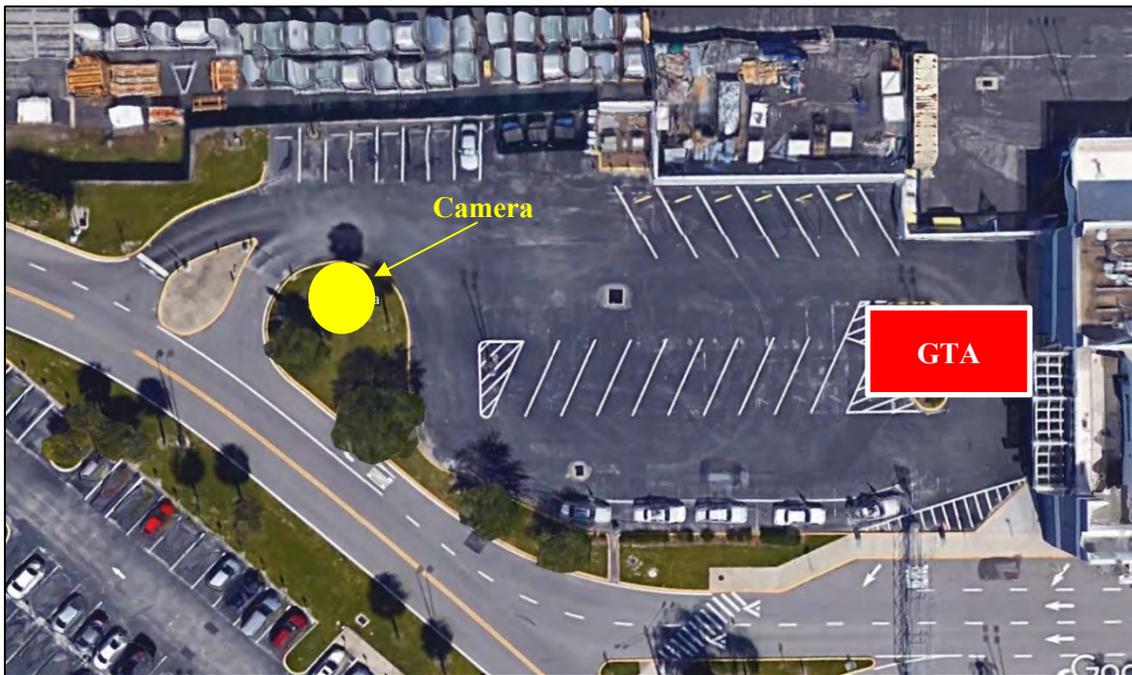


Figure D-16: Camera Installation – GTA

SOURCE: Google Earth; Kimley-Horn and Associates, Inc. (2017).

TABLE D-13: GTA VOLUMES

| Crosswalk | Thursday AM Peak | Thursday PM Peak |
|--------------|------------------|------------------|
| Entering GTA | 18 | 48 |
| Exiting GTA | 11 | 53 |

SOURCE: Kimley-Horn and Associates, Inc. (2017).

APPENDIX D

Appendix D-1

Seven-Day Traffic Counts

VOLUME

Airport Pkwy Dr Location #1

Day: Thursday
Date: 11/30/2017City: Clearwater
Project #: FL17_3500_001

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total | | |
|----------------|----|----|-------|-------|-------|----------------|-------|-------|-------|-------|-------|
| | | | | | 0 | 0 | 1,983 | 3,908 | 5,891 | | |
| AM Period | NB | SB | EB | WB | TOTAL | PM Period | NB | SB | EB | WB | TOTAL |
| 00:00 | | | 0 | 2 | 2 | 12:00 | | | 58 | 77 | 135 |
| 00:15 | | | 0 | 3 | 3 | 12:15 | | | 48 | 97 | 145 |
| 00:30 | | | 2 | 1 | 3 | 12:30 | | | 59 | 85 | 144 |
| 00:45 | | | 0 | 2 | 2 | 12:45 | | 226 | 70 | 329 | 131 |
| 01:00 | | | 1 | 1 | 2 | 13:00 | | | 43 | 102 | 145 |
| 01:15 | | | 2 | 0 | 2 | 13:15 | | | 45 | 90 | 135 |
| 01:30 | | | 1 | 0 | 1 | 13:30 | | | 34 | 162 | 196 |
| 01:45 | | | 0 | 4 | 0 | 13:45 | | 154 | 148 | 502 | 180 |
| 02:00 | | | 0 | 2 | 2 | 14:00 | | | 22 | 50 | 72 |
| 02:15 | | | 1 | 0 | 1 | 14:15 | | | 31 | 83 | 114 |
| 02:30 | | | 1 | 1 | 2 | 14:30 | | | 36 | 52 | 88 |
| 02:45 | | | 2 | 4 | 0 | 14:45 | | 109 | 66 | 251 | 86 |
| 03:00 | | | 2 | 2 | 4 | 15:00 | | | 24 | 40 | 64 |
| 03:15 | | | 3 | 2 | 5 | 15:15 | | | 29 | 84 | 113 |
| 03:30 | | | 4 | 2 | 6 | 15:30 | | | 14 | 44 | 58 |
| 03:45 | | | 14 | 23 | 3 | 15:45 | | 88 | 33 | 201 | 54 |
| 04:00 | | | 18 | 14 | 32 | 16:00 | | | 24 | 32 | 56 |
| 04:15 | | | 16 | 18 | 34 | 16:15 | | | 15 | 24 | 39 |
| 04:30 | | | 19 | 26 | 45 | 16:30 | | | 20 | 46 | 66 |
| 04:45 | | | 27 | 80 | 50 | 16:45 | | 72 | 69 | 171 | 82 |
| 05:00 | | | 39 | 64 | 103 | 17:00 | | | 15 | 34 | 49 |
| 05:15 | | | 45 | 74 | 119 | 17:15 | | | 12 | 25 | 37 |
| 05:30 | | | 57 | 103 | 160 | 17:30 | | | 23 | 34 | 57 |
| 05:45 | | | 39 | 180 | 93 | 17:45 | | 71 | 21 | 114 | 42 |
| 06:00 | | | 46 | 84 | 130 | 18:00 | | | 11 | 39 | 50 |
| 06:15 | | | 47 | 77 | 124 | 18:15 | | | 29 | 41 | 70 |
| 06:30 | | | 27 | 54 | 81 | 18:30 | | | 19 | 68 | 87 |
| 06:45 | | | 44 | 164 | 59 | 18:45 | | 70 | 86 | 234 | 97 |
| 07:00 | | | 27 | 49 | 76 | 19:00 | | | 22 | 23 | 45 |
| 07:15 | | | 25 | 20 | 45 | 19:15 | | | 20 | 17 | 37 |
| 07:30 | | | 13 | 19 | 32 | 19:30 | | | 25 | 82 | 107 |
| 07:45 | | | 11 | 76 | 15 | 19:45 | | 98 | 75 | 197 | 106 |
| 08:00 | | | 11 | 21 | 32 | 20:00 | | | 26 | 28 | 54 |
| 08:15 | | | 18 | 21 | 39 | 20:15 | | | 39 | 24 | 63 |
| 08:30 | | | 16 | 23 | 39 | 20:30 | | | 34 | 98 | 132 |
| 08:45 | | | 16 | 61 | 20 | 20:45 | | 116 | 108 | 258 | 125 |
| 09:00 | | | 14 | 27 | 41 | 21:00 | | | 17 | 28 | 45 |
| 09:15 | | | 11 | 10 | 21 | 21:15 | | | 21 | 24 | 45 |
| 09:30 | | | 10 | 14 | 24 | 21:30 | | | 12 | 84 | 96 |
| 09:45 | | | 24 | 59 | 14 | 21:45 | | 54 | 66 | 202 | 70 |
| 10:00 | | | 31 | 67 | 98 | 22:00 | | | 6 | 13 | 19 |
| 10:15 | | | 21 | 28 | 49 | 22:15 | | | 3 | 10 | 13 |
| 10:30 | | | 13 | 20 | 33 | 22:30 | | | 3 | 5 | 8 |
| 10:45 | | | 30 | 95 | 31 | 22:45 | | 21 | 7 | 35 | 16 |
| 11:00 | | | 23 | 49 | 72 | 23:00 | | | 2 | 14 | 16 |
| 11:15 | | | 33 | 46 | 79 | 23:15 | | | 3 | 28 | 31 |
| 11:30 | | | 43 | 58 | 101 | 23:30 | | | 4 | 13 | 17 |
| 11:45 | | | 43 | 142 | 63 | 23:45 | | 14 | 7 | 62 | 12 |
| TOTALS | | | 890 | 1352 | 2242 | TOTALS | | | 1093 | 2556 | 3649 |
| SPLIT % | | | 39.7% | 60.3% | 38.1% | SPLIT % | | | 30.0% | 70.0% | 61.9% |

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total | | |
|-----------------|-------|-------|-------|-------|-------|-----------------|-------|-------|-------|-------|-------|
| | | | | | 0 | 0 | 1,983 | 3,908 | 5,891 | | |
| AM Peak Hour | | | 11:45 | 05:30 | 05:30 | PM Peak Hour | | | 12:00 | 13:00 | 13:00 |
| AM Pk Volume | | | 208 | 357 | 546 | PM Pk Volume | | | 226 | 502 | 656 |
| Pk Hr Factor | | | 0.881 | 0.867 | 0.853 | Pk Hr Factor | | | 0.926 | 0.775 | 0.837 |
| 7 - 9 Volume | 0 | 0 | 137 | 188 | 325 | 4 - 6 Volume | 0 | 0 | 143 | 285 | 428 |
| 7 - 9 Peak Hour | | | 07:00 | 07:00 | 07:00 | 4 - 6 Peak Hour | | | 16:00 | 16:30 | 16:00 |
| 7 - 9 Pk Volume | 0 | 0 | 76 | 103 | 179 | 4 - 6 Pk Volume | 0 | 0 | 72 | 174 | 243 |
| Pk Hr Factor | 0.000 | 0.000 | 0.704 | 0.526 | 0.589 | Pk Hr Factor | 0.000 | 0.000 | 0.750 | 0.630 | 0.741 |

VOLUME

Airport Pkwy Dr Location #1

Day: Friday
Date: 12/1/2017City: Clearwater
Project #: FL17_3500_001

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total | | |
|----------------|----|----|-------|-------|-------|----------------|-------|-------|-------|-------|-------|
| | | | | | 0 | 0 | 2,131 | 3,987 | 6,118 | | |
| AM Period | NB | SB | EB | WB | TOTAL | PM Period | NB | SB | EB | WB | TOTAL |
| 00:00 | | | 1 | 3 | 4 | 12:00 | | | 34 | 69 | 103 |
| 00:15 | | | 2 | 0 | 2 | 12:15 | | | 51 | 94 | 145 |
| 00:30 | | | 0 | 0 | 0 | 12:30 | | | 52 | 83 | 135 |
| 00:45 | | | 0 | 3 | 2 | 12:45 | | 200 | 63 | 113 | 359 |
| 01:00 | | | 2 | 1 | 3 | 13:00 | | | 40 | 99 | 139 |
| 01:15 | | | 0 | 1 | 1 | 13:15 | | | 48 | 92 | 140 |
| 01:30 | | | 1 | 0 | 1 | 13:30 | | | 48 | 108 | 156 |
| 01:45 | | | 0 | 3 | 0 | 13:45 | | 177 | 41 | 75 | 374 |
| 02:00 | | | 0 | 2 | 2 | 14:00 | | | 50 | 70 | 120 |
| 02:15 | | | 0 | 0 | 0 | 14:15 | | | 32 | 93 | 125 |
| 02:30 | | | 1 | 1 | 2 | 14:30 | | | 23 | 117 | 140 |
| 02:45 | | | 0 | 1 | 1 | 14:45 | | 129 | 24 | 49 | 329 |
| 03:00 | | | 1 | 1 | 2 | 15:00 | | | 28 | 54 | 82 |
| 03:15 | | | 3 | 1 | 4 | 15:15 | | | 21 | 41 | 62 |
| 03:30 | | | 11 | 0 | 11 | 15:30 | | | 21 | 63 | 84 |
| 03:45 | | | 22 | 37 | 2 | 15:45 | | 105 | 35 | 64 | 222 |
| 04:00 | | | 14 | 4 | 18 | 16:00 | | | 28 | 44 | 72 |
| 04:15 | | | 11 | 7 | 18 | 16:15 | | | 34 | 61 | 95 |
| 04:30 | | | 14 | 11 | 25 | 16:30 | | | 30 | 65 | 95 |
| 04:45 | | | 23 | 62 | 36 | 16:45 | | 122 | 30 | 41 | 211 |
| 05:00 | | | 29 | 69 | 98 | 17:00 | | | 27 | 74 | 101 |
| 05:15 | | | 52 | 90 | 142 | 17:15 | | | 22 | 37 | 59 |
| 05:30 | | | 43 | 95 | 138 | 17:30 | | | 22 | 30 | 52 |
| 05:45 | | | 79 | 203 | 100 | 17:45 | | 98 | 27 | 25 | 166 |
| 06:00 | | | 41 | 84 | 125 | 18:00 | | | 24 | 58 | 82 |
| 06:15 | | | 36 | 74 | 110 | 18:15 | | | 24 | 76 | 100 |
| 06:30 | | | 23 | 43 | 66 | 18:30 | | | 32 | 70 | 102 |
| 06:45 | | | 27 | 127 | 34 | 18:45 | | 107 | 27 | 63 | 267 |
| 07:00 | | | 21 | 37 | 58 | 19:00 | | | 22 | 34 | 56 |
| 07:15 | | | 30 | 19 | 49 | 19:15 | | | 18 | 65 | 83 |
| 07:30 | | | 13 | 16 | 29 | 19:30 | | | 16 | 86 | 102 |
| 07:45 | | | 9 | 73 | 13 | 19:45 | | 71 | 15 | 23 | 208 |
| 08:00 | | | 8 | 12 | 20 | 20:00 | | | 10 | 13 | 23 |
| 08:15 | | | 10 | 15 | 25 | 20:15 | | | 16 | 26 | 42 |
| 08:30 | | | 21 | 16 | 37 | 20:30 | | | 27 | 34 | 61 |
| 08:45 | | | 14 | 53 | 17 | 20:45 | | 83 | 30 | 58 | 131 |
| 09:00 | | | 17 | 17 | 34 | 21:00 | | | 17 | 77 | 94 |
| 09:15 | | | 15 | 27 | 42 | 21:15 | | | 19 | 47 | 66 |
| 09:30 | | | 12 | 18 | 30 | 21:30 | | | 14 | 15 | 29 |
| 09:45 | | | 22 | 66 | 23 | 21:45 | | 66 | 16 | 16 | 155 |
| 10:00 | | | 34 | 32 | 66 | 22:00 | | | 21 | 72 | 93 |
| 10:15 | | | 29 | 30 | 59 | 22:15 | | | 16 | 65 | 81 |
| 10:30 | | | 35 | 35 | 70 | 22:30 | | | 14 | 36 | 50 |
| 10:45 | | | 37 | 135 | 40 | 22:45 | | 61 | 10 | 36 | 209 |
| 11:00 | | | 35 | 85 | 120 | 23:00 | | | 5 | 41 | 46 |
| 11:15 | | | 29 | 65 | 94 | 23:15 | | | 4 | 8 | 12 |
| 11:30 | | | 36 | 60 | 96 | 23:30 | | | 4 | 5 | 9 |
| 11:45 | | | 35 | 135 | 55 | 23:45 | | 14 | 1 | 8 | 62 |
| TOTALS | | | 898 | 1294 | 2192 | TOTALS | | | 1233 | 2693 | 3926 |
| SPLIT % | | | 41.0% | 59.0% | 35.8% | SPLIT % | | | 31.4% | 68.6% | 64.2% |

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total | | |
|-----------------|-------|-------|-------|-------|-------|-----------------|-------|-------|-------|-------|-------|
| | | | | | 0 | 0 | 2,131 | 3,987 | 6,118 | | |
| AM Peak Hour | | | 05:15 | 05:15 | 05:15 | PM Peak Hour | | | 12:15 | 12:45 | 12:45 |
| AM Pk Volume | | | 215 | 369 | 584 | PM Pk Volume | | | 206 | 412 | 611 |
| Pk Hr Factor | | | 0.680 | 0.923 | 0.816 | Pk Hr Factor | | | 0.817 | 0.912 | 0.868 |
| 7 - 9 Volume | 0 | 0 | 126 | 145 | 271 | 4 - 6 Volume | 0 | 0 | 220 | 377 | 597 |
| 7 - 9 Peak Hour | | | 07:00 | 07:00 | 07:00 | 4 - 6 Peak Hour | | | 16:00 | 16:15 | 16:15 |
| 7 - 9 Pk Volume | 0 | 0 | 73 | 85 | 158 | 4 - 6 Pk Volume | 0 | 0 | 122 | 241 | 362 |
| Pk Hr Factor | 0.000 | 0.000 | 0.608 | 0.574 | 0.681 | Pk Hr Factor | 0.000 | 0.000 | 0.897 | 0.814 | 0.896 |

VOLUME

Airport Pkwy Dr Location #1

Day: Saturday
Date: 12/2/2017

City: Clearwater
Project #: FL17_3500_001

| DAILY TOTALS | | | | NB | SB | EB | WB | Total |
|--------------|--|--|--|----|----|-------|-------|-------|
| | | | | 0 | 0 | 1,279 | 2,645 | 3,924 |

| AM Period | NB | SB | EB | WB | TOTAL | PM Period | NB | SB | EB | WB | TOTAL | | | |
|----------------|----|----|-------|-------|-------|----------------|-------|----|-------|-------|-------|-----|-----|-----|
| 00:00 | | | 0 | 1 | 1 | 12:00 | | | 23 | 40 | 63 | | | |
| 00:15 | | | 1 | 1 | 2 | 12:15 | | | 26 | 45 | 71 | | | |
| 00:30 | | | 1 | 0 | 1 | 12:30 | | | 31 | 42 | 73 | | | |
| 00:45 | | | 1 | 3 | 2 | 4 | 12:45 | | 33 | 113 | 55 | 182 | 88 | 295 |
| 01:00 | | | 1 | 3 | 4 | 13:00 | | | 41 | 69 | 110 | | | |
| 01:15 | | | 3 | 1 | 4 | 13:15 | | | 47 | 96 | 143 | | | |
| 01:30 | | | 1 | 2 | 3 | 13:30 | | | 48 | 122 | 170 | | | |
| 01:45 | | | 2 | 7 | 0 | 6 | 13:45 | | 42 | 178 | 107 | 394 | 149 | 572 |
| 02:00 | | | 0 | 1 | 1 | 14:00 | | | 37 | 123 | 160 | | | |
| 02:15 | | | 1 | 2 | 3 | 14:15 | | | 24 | 62 | 86 | | | |
| 02:30 | | | 1 | 4 | 5 | 14:30 | | | 28 | 53 | 81 | | | |
| 02:45 | | | 1 | 3 | 1 | 8 | 14:45 | | 17 | 106 | 58 | 296 | 75 | 402 |
| 03:00 | | | 1 | 2 | 3 | 15:00 | | | 9 | 26 | 35 | | | |
| 03:15 | | | 4 | 1 | 5 | 15:15 | | | 11 | 25 | 36 | | | |
| 03:30 | | | 6 | 1 | 7 | 15:30 | | | 13 | 22 | 35 | | | |
| 03:45 | | | 13 | 24 | 5 | 9 | 15:45 | | 18 | 51 | 21 | 94 | 39 | 145 |
| 04:00 | | | 9 | 3 | 12 | 16:00 | | | 11 | 21 | 32 | | | |
| 04:15 | | | 11 | 6 | 17 | 16:15 | | | 15 | 30 | 45 | | | |
| 04:30 | | | 17 | 18 | 35 | 16:30 | | | 18 | 44 | 62 | | | |
| 04:45 | | | 30 | 67 | 51 | 78 | 16:45 | | 17 | 61 | 56 | 151 | 73 | 212 |
| 05:00 | | | 41 | 63 | 104 | 17:00 | | | 8 | 28 | 36 | | | |
| 05:15 | | | 21 | 80 | 101 | 17:15 | | | 7 | 23 | 30 | | | |
| 05:30 | | | 37 | 85 | 122 | 17:30 | | | 7 | 34 | 41 | | | |
| 05:45 | | | 28 | 127 | 64 | 292 | 17:45 | | 10 | 32 | 36 | 121 | 46 | 153 |
| 06:00 | | | 19 | 31 | 50 | 18:00 | | | 5 | 9 | 14 | | | |
| 06:15 | | | 11 | 17 | 28 | 18:15 | | | 6 | 4 | 10 | | | |
| 06:30 | | | 12 | 13 | 25 | 18:30 | | | 7 | 8 | 15 | | | |
| 06:45 | | | 8 | 50 | 10 | 71 | 18:45 | | 2 | 20 | 7 | 28 | 9 | 48 |
| 07:00 | | | 10 | 13 | 23 | 19:00 | | | 5 | 5 | 10 | | | |
| 07:15 | | | 12 | 13 | 25 | 19:15 | | | 7 | 4 | 11 | | | |
| 07:30 | | | 16 | 20 | 36 | 19:30 | | | 6 | 10 | 16 | | | |
| 07:45 | | | 16 | 54 | 23 | 69 | 19:45 | | 8 | 26 | 8 | 27 | 16 | 53 |
| 08:00 | | | 19 | 27 | 46 | 20:00 | | | 8 | 11 | 19 | | | |
| 08:15 | | | 14 | 24 | 38 | 20:15 | | | 19 | 55 | 74 | | | |
| 08:30 | | | 17 | 53 | 70 | 20:30 | | | 20 | 43 | 63 | | | |
| 08:45 | | | 12 | 62 | 31 | 135 | 20:45 | | 13 | 60 | 20 | 129 | 33 | 189 |
| 09:00 | | | 11 | 18 | 29 | 21:00 | | | 19 | 43 | 62 | | | |
| 09:15 | | | 15 | 30 | 45 | 21:15 | | | 19 | 42 | 61 | | | |
| 09:30 | | | 12 | 18 | 30 | 21:30 | | | 14 | 60 | 74 | | | |
| 09:45 | | | 17 | 55 | 18 | 84 | 21:45 | | 8 | 60 | 56 | 201 | 64 | 261 |
| 10:00 | | | 15 | 19 | 34 | 22:00 | | | 3 | 40 | 43 | | | |
| 10:15 | | | 10 | 19 | 29 | 22:15 | | | 6 | 12 | 18 | | | |
| 10:30 | | | 13 | 15 | 28 | 22:30 | | | 3 | 6 | 9 | | | |
| 10:45 | | | 15 | 53 | 15 | 68 | 22:45 | | 1 | 13 | 3 | 61 | 4 | 74 |
| 11:00 | | | 8 | 36 | 44 | 23:00 | | | 0 | 2 | 2 | | | |
| 11:15 | | | 14 | 50 | 64 | 23:15 | | | 0 | 0 | 0 | | | |
| 11:30 | | | 14 | 21 | 35 | 23:30 | | | 1 | 0 | 1 | | | |
| 11:45 | | | 16 | 52 | 27 | 134 | 23:45 | | 1 | 2 | 1 | 3 | 2 | 5 |
| TOTALS | | | 557 | 958 | 1515 | TOTALS | | | 722 | 1687 | 2409 | | | |
| SPLIT % | | | 36.8% | 63.2% | 38.6% | SPLIT % | | | 30.0% | 70.0% | 61.4% | | | |

| DAILY TOTALS | | | | NB | SB | EB | WB | Total |
|--------------|--|--|--|----|----|-------|-------|-------|
| | | | | 0 | 0 | 1,279 | 2,645 | 3,924 |

| | | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-----------------|-----------------|-------|-------|-------|-------|-------|
| AM Peak Hour | | 04:45 | 05:00 | 05:00 | PM Peak Hour | | 13:00 | 13:15 | 13:15 | | |
| AM Pk Volume | | 129 | 292 | 419 | PM Pk Volume | | 178 | 448 | 622 | | |
| Pk Hr Factor | | 0.787 | 0.859 | 0.859 | Pk Hr Factor | | 0.927 | 0.911 | 0.915 | | |
| 7 - 9 Volume | 0 | 0 | 116 | 204 | 320 | 4 - 6 Volume | 0 | 0 | 93 | 272 | 365 |
| 7 - 9 Peak Hour | | 07:45 | 08:00 | 08:00 | 4 - 6 Peak Hour | | 16:00 | 16:15 | 16:15 | | |
| 7 - 9 Pk Volume | 0 | 0 | 66 | 135 | 197 | 4 - 6 Pk Volume | 0 | 0 | 61 | 158 | 216 |
| Pk Hr Factor | 0.000 | 0.000 | 0.868 | 0.637 | 0.704 | Pk Hr Factor | 0.000 | 0.000 | 0.847 | 0.705 | 0.740 |

VOLUME

Airport Pkwy Dr Location #1

Day: Sunday
Date: 12/3/2017City: Clearwater
Project #: FL17_3500_001

| DAILY TOTALS | | | | | NB | SB | | | | | Total | | |
|----------------|----|----|-------|-------|-------|-----|----------------|-------|----|-------|-------|-------|-----|
| | | | | | 0 | 0 | 1,648 | 3,971 | | | | 5,619 | |
| AM Period | NB | SB | EB | WB | TOTAL | | PM Period | NB | SB | EB | WB | TOTAL | |
| 00:00 | | | 0 | 0 | 0 | | 12:00 | | | 49 | 76 | 125 | |
| 00:15 | | | 0 | 1 | 1 | | 12:15 | | | 50 | 118 | 168 | |
| 00:30 | | | 1 | 5 | 6 | | 12:30 | | | 42 | 130 | 172 | |
| 00:45 | | | 2 | 3 | 2 | 8 | 12:45 | | | 51 | 192 | 120 | 444 |
| 01:00 | | | 2 | 3 | 5 | 11 | 13:00 | | | 44 | 146 | 190 | |
| 01:15 | | | 1 | 1 | 2 | | 13:15 | | | 38 | 147 | 185 | |
| 01:30 | | | 1 | 0 | 1 | | 13:30 | | | 27 | 91 | 118 | |
| 01:45 | | | 1 | 5 | 1 | 5 | 13:45 | | | 18 | 127 | 78 | 462 |
| 02:00 | | | 1 | 1 | 2 | | 14:00 | | | 23 | 77 | 100 | |
| 02:15 | | | 0 | 0 | 0 | | 14:15 | | | 23 | 77 | 100 | |
| 02:30 | | | 1 | 1 | 2 | | 14:30 | | | 17 | 45 | 62 | |
| 02:45 | | | 0 | 2 | 0 | 2 | 14:45 | | | 11 | 74 | 40 | 239 |
| 03:00 | | | 0 | 2 | 2 | | 15:00 | | | 15 | 32 | 47 | |
| 03:15 | | | 3 | 1 | 4 | | 15:15 | | | 17 | 24 | 41 | |
| 03:30 | | | 1 | 1 | 2 | | 15:30 | | | 22 | 42 | 64 | |
| 03:45 | | | 16 | 20 | 3 | 7 | 15:45 | | | 14 | 68 | 19 | 117 |
| 04:00 | | | 9 | 7 | 16 | | 16:00 | | | 8 | 34 | 42 | |
| 04:15 | | | 13 | 12 | 25 | | 16:15 | | | 12 | 19 | 31 | |
| 04:30 | | | 19 | 24 | 43 | | 16:30 | | | 16 | 22 | 38 | |
| 04:45 | | | 21 | 62 | 43 | 86 | 16:45 | | | 17 | 53 | 29 | 104 |
| 05:00 | | | 30 | 56 | 86 | | 17:00 | | | 24 | 82 | 106 | |
| 05:15 | | | 42 | 87 | 129 | | 17:15 | | | 19 | 22 | 41 | |
| 05:30 | | | 50 | 114 | 164 | | 17:30 | | | 20 | 55 | 75 | |
| 05:45 | | | 53 | 175 | 126 | 383 | 17:45 | | | 16 | 79 | 32 | 191 |
| 06:00 | | | 42 | 93 | 135 | | 18:00 | | | 21 | 27 | 48 | |
| 06:15 | | | 33 | 91 | 124 | | 18:15 | | | 33 | 102 | 135 | |
| 06:30 | | | 32 | 77 | 109 | | 18:30 | | | 26 | 107 | 133 | |
| 06:45 | | | 31 | 138 | 58 | 319 | 18:45 | | | 16 | 96 | 69 | 305 |
| 07:00 | | | 17 | 53 | 70 | | 19:00 | | | 22 | 30 | 52 | |
| 07:15 | | | 18 | 31 | 49 | | 19:15 | | | 26 | 16 | 42 | |
| 07:30 | | | 7 | 19 | 26 | | 19:30 | | | 29 | 41 | 70 | |
| 07:45 | | | 10 | 52 | 27 | 130 | 19:45 | | | 40 | 117 | 76 | 163 |
| 08:00 | | | 11 | 18 | 29 | | 20:00 | | | 35 | 120 | 155 | |
| 08:15 | | | 15 | 24 | 39 | | 20:15 | | | 26 | 101 | 127 | |
| 08:30 | | | 16 | 37 | 53 | | 20:30 | | | 22 | 82 | 104 | |
| 08:45 | | | 6 | 48 | 13 | 92 | 20:45 | | | 12 | 95 | 63 | 366 |
| 09:00 | | | 4 | 9 | 13 | | 21:00 | | | 11 | 67 | 78 | |
| 09:15 | | | 4 | 8 | 12 | | 21:15 | | | 6 | 48 | 54 | |
| 09:30 | | | 6 | 12 | 18 | | 21:30 | | | 3 | 12 | 15 | |
| 09:45 | | | 9 | 23 | 9 | 38 | 21:45 | | | 2 | 22 | 9 | 136 |
| 10:00 | | | 11 | 11 | 22 | | 22:00 | | | 2 | 12 | 14 | |
| 10:15 | | | 6 | 17 | 23 | | 22:15 | | | 6 | 8 | 14 | |
| 10:30 | | | 9 | 22 | 31 | | 22:30 | | | 7 | 7 | 14 | |
| 10:45 | | | 18 | 44 | 28 | 78 | 22:45 | | | 12 | 27 | 40 | 67 |
| 11:00 | | | 18 | 25 | 43 | | 23:00 | | | 4 | 22 | 26 | |
| 11:15 | | | 22 | 34 | 56 | | 23:15 | | | 6 | 11 | 17 | |
| 11:30 | | | 28 | 51 | 79 | | 23:30 | | | 1 | 8 | 9 | |
| 11:45 | | | 46 | 114 | 75 | 185 | 23:45 | | | 1 | 12 | 3 | 44 |
| TOTALS | | | 686 | 1333 | 2019 | | TOTALS | | | 962 | 2638 | 3600 | |
| SPLIT % | | | 34.0% | 66.0% | 35.9% | | SPLIT % | | | 26.7% | 73.3% | 64.1% | |

| DAILY TOTALS | | | | | NB | SB | | | | | Total | |
|-----------------|-------|-------|-------|-------|-------|----|-----------------|-------|-------|-------|-------|-------|
| | | | | | 0 | 0 | 1,648 | 3,971 | | | | 5,619 |
| AM Peak Hour | | | 05:15 | 05:30 | 05:15 | | PM Peak Hour | | | 12:00 | 12:30 | 12:30 |
| AM Pk Volume | | | 187 | 424 | 607 | | PM Pk Volume | | | 192 | 543 | 718 |
| Pk Hr Factor | | | 0.882 | 0.841 | 0.848 | | Pk Hr Factor | | | 0.941 | 0.923 | 0.945 |
| 7 - 9 Volume | 0 | 0 | 100 | 222 | 322 | | 4 - 6 Volume | 0 | 0 | 132 | 295 | 427 |
| 7 - 9 Peak Hour | | | 07:00 | 07:00 | 07:00 | | 4 - 6 Peak Hour | | | 16:45 | 17:00 | 17:00 |
| 7 - 9 Pk Volume | 0 | 0 | 52 | 130 | 182 | | 4 - 6 Pk Volume | 0 | 0 | 80 | 191 | 270 |
| Pk Hr Factor | 0.000 | 0.000 | 0.722 | 0.613 | 0.650 | | Pk Hr Factor | 0.000 | 0.000 | 0.833 | 0.582 | 0.637 |

VOLUME

Airport Pkwy Dr Location #1

Day: Monday
Date: 12/4/2017City: Clearwater
Project #: FL17_3500_001

| DAILY TOTALS | | | | | NB | SB | | | | | Total | |
|----------------|----|----|-------|-------|-------|-----|----------------|-------|----|-------|-------|--------------|
| | | | | | 0 | 0 | 1,972 | 4,233 | | | | 6,205 |
| AM Period | NB | SB | EB | WB | TOTAL | | PM Period | NB | SB | EB | WB | TOTAL |
| 00:00 | | | 1 | 3 | 4 | | 12:00 | | | 39 | 77 | 116 |
| 00:15 | | | 3 | 1 | 4 | | 12:15 | | | 36 | 91 | 127 |
| 00:30 | | | 0 | 2 | 2 | | 12:30 | | | 52 | 74 | 126 |
| 00:45 | | | 0 | 4 | 2 | 8 | 12:45 | | | 49 | 176 | 319 |
| 01:00 | | | 2 | 5 | 7 | | 13:00 | | | 36 | 161 | 197 |
| 01:15 | | | 2 | 2 | 4 | | 13:15 | | | 35 | 172 | 207 |
| 01:30 | | | 1 | 1 | 2 | | 13:30 | | | 37 | 94 | 131 |
| 01:45 | | | 0 | 5 | 1 | 9 | 13:45 | | | 22 | 130 | 479 |
| 02:00 | | | 0 | 0 | 0 | | 14:00 | | | 27 | 44 | 71 |
| 02:15 | | | 0 | 1 | 1 | | 14:15 | | | 17 | 33 | 50 |
| 02:30 | | | 0 | 0 | 0 | | 14:30 | | | 17 | 24 | 41 |
| 02:45 | | | 0 | 0 | 0 | 1 | 14:45 | | | 20 | 81 | 25 |
| 03:00 | | | 2 | 1 | 3 | | 15:00 | | | 17 | 40 | 57 |
| 03:15 | | | 3 | 2 | 5 | | 15:15 | | | 35 | 47 | 82 |
| 03:30 | | | 5 | 1 | 6 | | 15:30 | | | 29 | 57 | 86 |
| 03:45 | | | 13 | 23 | 2 | 6 | 15:45 | | | 35 | 116 | 104 |
| 04:00 | | | 7 | 5 | 12 | | 16:00 | | | 39 | 128 | 167 |
| 04:15 | | | 9 | 9 | 18 | | 16:15 | | | 30 | 90 | 120 |
| 04:30 | | | 7 | 11 | 18 | | 16:30 | | | 36 | 91 | 127 |
| 04:45 | | | 13 | 36 | 20 | 45 | 16:45 | | | 34 | 139 | 57 |
| 05:00 | | | 18 | 33 | 51 | | 17:00 | | | 27 | 91 | 118 |
| 05:15 | | | 31 | 71 | 102 | | 17:15 | | | 29 | 51 | 80 |
| 05:30 | | | 48 | 88 | 136 | | 17:30 | | | 37 | 37 | 74 |
| 05:45 | | | 46 | 143 | 100 | 292 | 17:45 | | | 37 | 130 | 29 |
| 06:00 | | | 37 | 104 | 141 | | 18:00 | | | 33 | 79 | 112 |
| 06:15 | | | 31 | 77 | 108 | | 18:15 | | | 26 | 160 | 186 |
| 06:30 | | | 35 | 55 | 90 | | 18:30 | | | 18 | 76 | 94 |
| 06:45 | | | 39 | 142 | 38 | 274 | 18:45 | | | 11 | 88 | 22 |
| 07:00 | | | 32 | 48 | 80 | | 19:00 | | | 15 | 19 | 34 |
| 07:15 | | | 29 | 38 | 67 | | 19:15 | | | 26 | 13 | 39 |
| 07:30 | | | 27 | 30 | 57 | | 19:30 | | | 21 | 64 | 85 |
| 07:45 | | | 27 | 115 | 30 | 146 | 19:45 | | | 12 | 74 | 91 |
| 08:00 | | | 23 | 25 | 48 | | 20:00 | | | 11 | 10 | 21 |
| 08:15 | | | 21 | 21 | 42 | | 20:15 | | | 7 | 18 | 25 |
| 08:30 | | | 19 | 11 | 30 | | 20:30 | | | 13 | 22 | 35 |
| 08:45 | | | 18 | 81 | 22 | 79 | 20:45 | | | 7 | 38 | 18 |
| 09:00 | | | 15 | 13 | 28 | | 21:00 | | | 4 | 22 | 26 |
| 09:15 | | | 11 | 28 | 39 | | 21:15 | | | 8 | 16 | 24 |
| 09:30 | | | 16 | 33 | 49 | | 21:30 | | | 11 | 26 | 37 |
| 09:45 | | | 35 | 77 | 36 | 110 | 21:45 | | | 17 | 40 | 36 |
| 10:00 | | | 34 | 40 | 74 | | 22:00 | | | 20 | 38 | 58 |
| 10:15 | | | 29 | 38 | 67 | | 22:15 | | | 22 | 78 | 100 |
| 10:30 | | | 19 | 33 | 52 | | 22:30 | | | 19 | 13 | 32 |
| 10:45 | | | 41 | 123 | 57 | 168 | 22:45 | | | 20 | 81 | 86 |
| 11:00 | | | 21 | 85 | 106 | | 23:00 | | | 10 | 106 | 116 |
| 11:15 | | | 27 | 46 | 73 | | 23:15 | | | 7 | 17 | 24 |
| 11:30 | | | 28 | 66 | 94 | | 23:30 | | | 4 | 10 | 14 |
| 11:45 | | | 31 | 107 | 104 | 301 | 23:45 | | | 2 | 23 | 8 |
| TOTALS | | | 856 | 1439 | 2295 | | TOTALS | | | 1116 | 2794 | 3910 |
| SPLIT % | | | 37.3% | 62.7% | 37.0% | | SPLIT % | | | 28.5% | 71.5% | 63.0% |

| DAILY TOTALS | | | | | NB | SB | | | | | Total | |
|-----------------|-------|-------|-------|-------|-------|----|-----------------|-------|-------|-------|-------|-------|
| | | | | | 0 | 0 | 1,972 | 4,233 | | | | 6,205 |
| AM Peak Hour | | | 05:15 | 05:30 | 05:30 | | PM Peak Hour | | | 12:00 | 12:45 | 12:45 |
| AM Pk Volume | | | 162 | 369 | 531 | | PM Pk Volume | | | 176 | 504 | 661 |
| Pk Hr Factor | | | 0.844 | 0.887 | 0.909 | | Pk Hr Factor | | | 0.846 | 0.733 | 0.798 |
| 7 - 9 Volume | 0 | 0 | 196 | 225 | 421 | | 4 - 6 Volume | 0 | 0 | 269 | 574 | 843 |
| 7 - 9 Peak Hour | | | 07:00 | 07:00 | 07:00 | | 4 - 6 Peak Hour | | | 16:00 | 16:00 | 16:00 |
| 7 - 9 Pk Volume | 0 | 0 | 115 | 146 | 261 | | 4 - 6 Pk Volume | 0 | 0 | 139 | 366 | 505 |
| Pk Hr Factor | 0.000 | 0.000 | 0.898 | 0.760 | 0.816 | | Pk Hr Factor | 0.000 | 0.000 | 0.891 | 0.715 | 0.756 |

VOLUME

Airport Pkwy Dr Location #1

Day: Tuesday
Date: 12/5/2017City: Clearwater
Project #: FL17_3500_001

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total | | |
|----------------|----|----|-------|-------|-------|----------------|-----|-------|-------|-------|-------|
| | | | | | 0 | 0 | 860 | 1,231 | 2,091 | | |
| AM Period | NB | SB | EB | WB | TOTAL | PM Period | NB | SB | EB | WB | TOTAL |
| 00:00 | | | 0 | 3 | 3 | 12:00 | | | 10 | 15 | 25 |
| 00:15 | | | 0 | 0 | 0 | 12:15 | | | 8 | 13 | 21 |
| 00:30 | | | 4 | 0 | 4 | 12:30 | | | 16 | 9 | 25 |
| 00:45 | | | 0 | 4 | 4 | 12:45 | | | 13 | 47 | 60 |
| 01:00 | | | 0 | 5 | 5 | 13:00 | | | 12 | 17 | 29 |
| 01:15 | | | 3 | 1 | 4 | 13:15 | | | 6 | 6 | 12 |
| 01:30 | | | 0 | 2 | 2 | 13:30 | | | 14 | 7 | 21 |
| 01:45 | | | 1 | 4 | 5 | 13:45 | | | 13 | 45 | 58 |
| 02:00 | | | 1 | 1 | 2 | 14:00 | | | 16 | 13 | 29 |
| 02:15 | | | 0 | 1 | 1 | 14:15 | | | 12 | 17 | 29 |
| 02:30 | | | 0 | 0 | 0 | 14:30 | | | 17 | 18 | 35 |
| 02:45 | | | 1 | 2 | 3 | 14:45 | | | 15 | 60 | 75 |
| 03:00 | | | 0 | 0 | 0 | 15:00 | | | 14 | 34 | 48 |
| 03:15 | | | 2 | 0 | 2 | 15:15 | | | 15 | 35 | 50 |
| 03:30 | | | 6 | 1 | 7 | 15:30 | | | 11 | 21 | 32 |
| 03:45 | | | 8 | 16 | 24 | 15:45 | | | 15 | 55 | 70 |
| 04:00 | | | 2 | 4 | 6 | 16:00 | | | 12 | 25 | 37 |
| 04:15 | | | 12 | 4 | 16 | 16:15 | | | 30 | 20 | 50 |
| 04:30 | | | 7 | 7 | 14 | 16:30 | | | 17 | 61 | 78 |
| 04:45 | | | 9 | 30 | 39 | 16:45 | | | 9 | 68 | 77 |
| 05:00 | | | 5 | 8 | 13 | 17:00 | | | 9 | 25 | 34 |
| 05:15 | | | 3 | 11 | 14 | 17:15 | | | 5 | 24 | 29 |
| 05:30 | | | 5 | 9 | 14 | 17:30 | | | 6 | 16 | 22 |
| 05:45 | | | 3 | 16 | 19 | 17:45 | | | 4 | 24 | 28 |
| 06:00 | | | 6 | 8 | 14 | 18:00 | | | 6 | 12 | 18 |
| 06:15 | | | 7 | 10 | 17 | 18:15 | | | 8 | 6 | 14 |
| 06:30 | | | 17 | 11 | 28 | 18:30 | | | 13 | 11 | 24 |
| 06:45 | | | 16 | 46 | 62 | 18:45 | | | 17 | 44 | 61 |
| 07:00 | | | 25 | 24 | 49 | 19:00 | | | 11 | 11 | 22 |
| 07:15 | | | 24 | 19 | 43 | 19:15 | | | 15 | 14 | 29 |
| 07:30 | | | 12 | 13 | 25 | 19:30 | | | 9 | 11 | 20 |
| 07:45 | | | 12 | 73 | 85 | 19:45 | | | 10 | 45 | 55 |
| 08:00 | | | 14 | 11 | 25 | 20:00 | | | 9 | 14 | 23 |
| 08:15 | | | 8 | 14 | 22 | 20:15 | | | 10 | 15 | 25 |
| 08:30 | | | 12 | 18 | 30 | 20:30 | | | 14 | 47 | 61 |
| 08:45 | | | 12 | 46 | 58 | 20:45 | | | 12 | 45 | 57 |
| 09:00 | | | 16 | 8 | 24 | 21:00 | | | 4 | 9 | 13 |
| 09:15 | | | 11 | 6 | 17 | 21:15 | | | 3 | 12 | 15 |
| 09:30 | | | 9 | 15 | 24 | 21:30 | | | 3 | 5 | 8 |
| 09:45 | | | 10 | 46 | 56 | 21:45 | | | 1 | 11 | 12 |
| 10:00 | | | 12 | 7 | 19 | 22:00 | | | 1 | 8 | 9 |
| 10:15 | | | 13 | 12 | 25 | 22:15 | | | 3 | 5 | 8 |
| 10:30 | | | 9 | 8 | 17 | 22:30 | | | 3 | 7 | 10 |
| 10:45 | | | 14 | 48 | 62 | 22:45 | | | 5 | 12 | 17 |
| 11:00 | | | 12 | 13 | 25 | 23:00 | | | 2 | 4 | 6 |
| 11:15 | | | 9 | 12 | 21 | 23:15 | | | 3 | 4 | 7 |
| 11:30 | | | 16 | 28 | 44 | 23:30 | | | 1 | 6 | 7 |
| 11:45 | | | 27 | 64 | 91 | 23:45 | | | 3 | 9 | 12 |
| TOTALS | | | 395 | 432 | 827 | TOTALS | | | 465 | 799 | 1264 |
| SPLIT % | | | 47.8% | 52.2% | 39.6% | SPLIT % | | | 36.8% | 63.2% | 60.4% |

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total | | |
|-----------------|-------|-------|-------|-------|-------|-----------------|-------|-------|-------|-------|-------|
| | | | | | 0 | 0 | 860 | 1,231 | 2,091 | | |
| AM Peak Hour | | | 06:30 | 11:30 | 11:00 | PM Peak Hour | | | 15:45 | 16:30 | 16:00 |
| AM Pk Volume | | | 82 | 102 | 163 | PM Pk Volume | | | 74 | 146 | 210 |
| Pk Hr Factor | | | 0.820 | 0.554 | 0.558 | Pk Hr Factor | | | 0.617 | 0.598 | 0.673 |
| 7 - 9 Volume | 0 | 0 | 119 | 124 | 243 | 4 - 6 Volume | 0 | 0 | 92 | 220 | 312 |
| 7 - 9 Peak Hour | | | 07:00 | 07:00 | 07:00 | 4 - 6 Peak Hour | | | 16:00 | 16:30 | 16:00 |
| 7 - 9 Pk Volume | 0 | 0 | 73 | 67 | 140 | 4 - 6 Pk Volume | 0 | 0 | 68 | 146 | 210 |
| Pk Hr Factor | 0.000 | 0.000 | 0.730 | 0.698 | 0.714 | Pk Hr Factor | 0.000 | 0.000 | 0.567 | 0.598 | 0.673 |

VOLUME

Airport Pkwy Dr Location #1

Day: Wednesday
Date: 12/6/2017

City: Clearwater
Project #: FL17_3500_001

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total |
|--------------|--|--|--|--|----|----|-------|-------|-------|
| | | | | | 0 | 0 | 1,196 | 2,061 | 3,257 |

| AM Period | NB | SB | EB | WB | TOTAL | PM Period | NB | SB | EB | WB | TOTAL | | | |
|----------------|----|----|-------|-------|-------|----------------|----|-----|-------|-------|-------|-----|----|-----|
| 00:00 | | | 3 | 22 | 25 | 12:00 | | | 35 | 33 | 68 | | | |
| 00:15 | | | 0 | 10 | 10 | 12:15 | | | 22 | 45 | 67 | | | |
| 00:30 | | | 0 | 8 | 8 | 12:30 | | | 33 | 82 | 115 | | | |
| 00:45 | | | 1 | 4 | 6 | 46 | 7 | 50 | 33 | 123 | 51 | 211 | 84 | 334 |
| 01:00 | | | 0 | 7 | 7 | 13:00 | | | 35 | 72 | 107 | | | |
| 01:15 | | | 3 | 3 | 6 | 13:15 | | | 34 | 97 | 131 | | | |
| 01:30 | | | 3 | 7 | 10 | 13:30 | | | 24 | 76 | 100 | | | |
| 01:45 | | | 1 | 7 | 2 | 19 | 3 | 26 | 36 | 129 | 34 | 279 | 70 | 408 |
| 02:00 | | | 0 | 2 | 2 | 14:00 | | | 22 | 32 | 54 | | | |
| 02:15 | | | 0 | 0 | 0 | 14:15 | | | 28 | 32 | 60 | | | |
| 02:30 | | | 0 | 0 | 0 | 14:30 | | | 22 | 62 | 84 | | | |
| 02:45 | | | 1 | 1 | 2 | 4 | 3 | 5 | 16 | 88 | 80 | 206 | 96 | 294 |
| 03:00 | | | 4 | 2 | 6 | 15:00 | | | 16 | 62 | 78 | | | |
| 03:15 | | | 4 | 2 | 6 | 15:15 | | | 15 | 23 | 38 | | | |
| 03:30 | | | 3 | 2 | 5 | 15:30 | | | 12 | 19 | 31 | | | |
| 03:45 | | | 14 | 25 | 2 | 8 | 16 | 33 | 14 | 57 | 21 | 125 | 35 | 182 |
| 04:00 | | | 11 | 7 | 18 | 16:00 | | | 13 | 34 | 47 | | | |
| 04:15 | | | 14 | 16 | 30 | 16:15 | | | 22 | 39 | 61 | | | |
| 04:30 | | | 19 | 20 | 39 | 16:30 | | | 22 | 30 | 52 | | | |
| 04:45 | | | 20 | 64 | 44 | 87 | 64 | 151 | 4 | 61 | 30 | 133 | 34 | 194 |
| 05:00 | | | 24 | 50 | 74 | 17:00 | | | 9 | 11 | 20 | | | |
| 05:15 | | | 30 | 65 | 95 | 17:15 | | | 9 | 23 | 32 | | | |
| 05:30 | | | 22 | 40 | 62 | 17:30 | | | 4 | 21 | 25 | | | |
| 05:45 | | | 12 | 88 | 21 | 176 | 33 | 264 | 8 | 30 | 11 | 66 | 19 | 96 |
| 06:00 | | | 9 | 18 | 27 | 18:00 | | | 4 | 12 | 16 | | | |
| 06:15 | | | 8 | 8 | 16 | 18:15 | | | 8 | 9 | 17 | | | |
| 06:30 | | | 14 | 10 | 24 | 18:30 | | | 6 | 3 | 9 | | | |
| 06:45 | | | 13 | 44 | 7 | 43 | 20 | 87 | 17 | 35 | 8 | 32 | 25 | 67 |
| 07:00 | | | 12 | 9 | 21 | 19:00 | | | 7 | 4 | 11 | | | |
| 07:15 | | | 15 | 8 | 23 | 19:15 | | | 11 | 7 | 18 | | | |
| 07:30 | | | 17 | 5 | 22 | 19:30 | | | 23 | 9 | 32 | | | |
| 07:45 | | | 12 | 56 | 9 | 31 | 21 | 87 | 32 | 73 | 17 | 37 | 49 | 110 |
| 08:00 | | | 10 | 7 | 17 | 20:00 | | | 16 | 54 | 70 | | | |
| 08:15 | | | 15 | 7 | 22 | 20:15 | | | 18 | 66 | 84 | | | |
| 08:30 | | | 8 | 9 | 17 | 20:30 | | | 13 | 47 | 60 | | | |
| 08:45 | | | 14 | 47 | 11 | 34 | 25 | 81 | 7 | 54 | 25 | 192 | 32 | 246 |
| 09:00 | | | 11 | 13 | 24 | 21:00 | | | 9 | 15 | 24 | | | |
| 09:15 | | | 5 | 13 | 18 | 21:15 | | | 7 | 47 | 54 | | | |
| 09:30 | | | 8 | 9 | 17 | 21:30 | | | 7 | 20 | 27 | | | |
| 09:45 | | | 14 | 38 | 8 | 43 | 22 | 81 | 1 | 24 | 12 | 94 | 13 | 118 |
| 10:00 | | | 9 | 6 | 15 | 22:00 | | | 1 | 10 | 11 | | | |
| 10:15 | | | 11 | 13 | 24 | 22:15 | | | 2 | 2 | 4 | | | |
| 10:30 | | | 12 | 13 | 25 | 22:30 | | | 3 | 4 | 7 | | | |
| 10:45 | | | 20 | 52 | 20 | 52 | 40 | 104 | 1 | 7 | 2 | 18 | 3 | 25 |
| 11:00 | | | 17 | 25 | 42 | 23:00 | | | 1 | 1 | 2 | | | |
| 11:15 | | | 13 | 23 | 36 | 23:15 | | | 3 | 3 | 6 | | | |
| 11:30 | | | 23 | 32 | 55 | 23:30 | | | 0 | 0 | 0 | | | |
| 11:45 | | | 31 | 84 | 38 | 118 | 69 | 202 | 1 | 5 | 3 | 7 | 4 | 12 |
| TOTALS | | | 510 | 661 | 1171 | TOTALS | | | 686 | 1400 | 2086 | | | |
| SPLIT % | | | 43.6% | 56.4% | 36.0% | SPLIT % | | | 32.9% | 67.1% | 64.0% | | | |

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total |
|--------------|--|--|--|--|----|----|-------|-------|-------|
| | | | | | 0 | 0 | 1,196 | 2,061 | 3,257 |

| | | | | | | | | | | | |
|-----------------|-------|-------|-------|-----------------|-------|-----------------|-------|-------|-------|-------|-------|
| AM Peak Hour | 11:45 | 04:45 | 11:45 | PM Peak Hour | 12:30 | 12:30 | 12:30 | | | | |
| AM Pk Volume | 121 | 199 | 319 | PM Pk Volume | 135 | 302 | 437 | | | | |
| Pk Hr Factor | 0.864 | 0.765 | 0.693 | Pk Hr Factor | 0.964 | 0.778 | 0.834 | | | | |
| 7 - 9 Volume | 0 | 0 | 103 | 65 | 168 | 4 - 6 Volume | 0 | 0 | 91 | 199 | 290 |
| 7 - 9 Peak Hour | 07:00 | 08:00 | 07:00 | 4 - 6 Peak Hour | 16:00 | 16:00 | 16:00 | | | | |
| 7 - 9 Pk Volume | 0 | 0 | 56 | 34 | 87 | 4 - 6 Pk Volume | 0 | 0 | 61 | 133 | 194 |
| Pk Hr Factor | 0.000 | 0.000 | 0.824 | 0.773 | 0.946 | Pk Hr Factor | 0.000 | 0.000 | 0.693 | 0.853 | 0.795 |

VOLUME

Airport Pkwy Dr 2 & Location #2

Day: Thursday
Date: 11/30/2017City: Clearwater
Project #: FL17_3500_002

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total | | |
|----------------|--------------|--------------|----|----|--------------|----------------|--------------|--------------|-------|-----|--------------|
| | | | | | 1,011 | 1,088 | 0 | 0 | 2,099 | | |
| AM Period | NB | SB | EB | WB | TOTAL | PM Period | NB | SB | EB | WB | TOTAL |
| 00:00 | 0 | 0 | | | 0 | 12:00 | 8 | 32 | | | 40 |
| 00:15 | 2 | 0 | | | 2 | 12:15 | 26 | 29 | | | 55 |
| 00:30 | 1 | 2 | | | 3 | 12:30 | 13 | 36 | | | 49 |
| 00:45 | 2 | 5 | 0 | 2 | 7 | 12:45 | 19 | 66 | 35 | 132 | 198 |
| 01:00 | 0 | 1 | | | 1 | 13:00 | 33 | 42 | | | 75 |
| 01:15 | 2 | 2 | | | 4 | 13:15 | 39 | 25 | | | 64 |
| 01:30 | 0 | 1 | | | 1 | 13:30 | 62 | 22 | | | 84 |
| 01:45 | 0 | 2 | 0 | 4 | 6 | 13:45 | 22 | 156 | 17 | 106 | 262 |
| 02:00 | 0 | 0 | | | 0 | 14:00 | 16 | 8 | | | 24 |
| 02:15 | 0 | 0 | | | 0 | 14:15 | 18 | 9 | | | 27 |
| 02:30 | 1 | 1 | | | 2 | 14:30 | 11 | 17 | | | 28 |
| 02:45 | 1 | 2 | 2 | 3 | 5 | 14:45 | 21 | 66 | 13 | 47 | 113 |
| 03:00 | 4 | 2 | | | 6 | 15:00 | 17 | 14 | | | 31 |
| 03:15 | 3 | 3 | | | 6 | 15:15 | 23 | 15 | | | 38 |
| 03:30 | 3 | 4 | | | 7 | 15:30 | 10 | 10 | | | 20 |
| 03:45 | 7 | 17 | 14 | 23 | 40 | 15:45 | 10 | 60 | 11 | 50 | 110 |
| 04:00 | 7 | 9 | | | 16 | 16:00 | 7 | 17 | | | 24 |
| 04:15 | 6 | 10 | | | 16 | 16:15 | 7 | 8 | | | 15 |
| 04:30 | 3 | 12 | | | 15 | 16:30 | 23 | 12 | | | 35 |
| 04:45 | 5 | 21 | 10 | 41 | 62 | 16:45 | 23 | 60 | 8 | 45 | 105 |
| 05:00 | 4 | 8 | | | 12 | 17:00 | 10 | 12 | | | 22 |
| 05:15 | 6 | 9 | | | 15 | 17:15 | 7 | 9 | | | 16 |
| 05:30 | 3 | 16 | | | 19 | 17:30 | 12 | 12 | | | 24 |
| 05:45 | 7 | 20 | 12 | 45 | 65 | 17:45 | 8 | 37 | 16 | 49 | 86 |
| 06:00 | 5 | 6 | | | 11 | 18:00 | 12 | 8 | | | 20 |
| 06:15 | 2 | 7 | | | 9 | 18:15 | 10 | 12 | | | 22 |
| 06:30 | 3 | 5 | | | 8 | 18:30 | 22 | 12 | | | 34 |
| 06:45 | 4 | 14 | 19 | 37 | 51 | 18:45 | 26 | 70 | 8 | 40 | 110 |
| 07:00 | 9 | 14 | | | 23 | 19:00 | 8 | 12 | | | 20 |
| 07:15 | 3 | 18 | | | 21 | 19:15 | 10 | 15 | | | 25 |
| 07:30 | 2 | 9 | | | 11 | 19:30 | 28 | 12 | | | 40 |
| 07:45 | 6 | 20 | 7 | 48 | 68 | 19:45 | 17 | 63 | 15 | 54 | 117 |
| 08:00 | 4 | 3 | | | 7 | 20:00 | 14 | 16 | | | 30 |
| 08:15 | 6 | 12 | | | 18 | 20:15 | 15 | 21 | | | 36 |
| 08:30 | 6 | 12 | | | 18 | 20:30 | 43 | 20 | | | 63 |
| 08:45 | 11 | 27 | 7 | 34 | 61 | 20:45 | 17 | 89 | 16 | 73 | 162 |
| 09:00 | 3 | 6 | | | 9 | 21:00 | 10 | 14 | | | 24 |
| 09:15 | 5 | 9 | | | 14 | 21:15 | 21 | 13 | | | 34 |
| 09:30 | 7 | 11 | | | 18 | 21:30 | 40 | 11 | | | 51 |
| 09:45 | 11 | 26 | 11 | 37 | 63 | 21:45 | 5 | 76 | 4 | 42 | 118 |
| 10:00 | 23 | 22 | | | 45 | 22:00 | 4 | 3 | | | 7 |
| 10:15 | 6 | 18 | | | 24 | 22:15 | 3 | 3 | | | 6 |
| 10:30 | 9 | 11 | | | 20 | 22:30 | 3 | 4 | | | 7 |
| 10:45 | 7 | 45 | 16 | 67 | 112 | 22:45 | 6 | 16 | 6 | 16 | 32 |
| 11:00 | 9 | 17 | | | 26 | 23:00 | 5 | 5 | | | 10 |
| 11:15 | 6 | 22 | | | 28 | 23:15 | 9 | 1 | | | 10 |
| 11:30 | 12 | 26 | | | 38 | 23:30 | 1 | 1 | | | 2 |
| 11:45 | 11 | 38 | 20 | 85 | 123 | 23:45 | 0 | 15 | 1 | 8 | 23 |
| TOTALS | 237 | 426 | | | 663 | TOTALS | 774 | 662 | | | 1436 |
| SPLIT % | 35.7% | 64.3% | | | 31.6% | SPLIT % | 53.9% | 46.1% | | | 68.4% |

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total |
|-----------------|-------|-------|-------|-------|-------|-----------------|-------|-------|-------|
| | | | | | 1,011 | 1,088 | 0 | 0 | 2,099 |
| AM Peak Hour | 11:45 | 11:45 | | | 11:45 | PM Peak Hour | 13:00 | 12:15 | 12:45 |
| AM Pk Volume | 58 | 117 | | | 175 | PM Pk Volume | 156 | 142 | 277 |
| Pk Hr Factor | 0.558 | 0.813 | | | 0.795 | Pk Hr Factor | 0.629 | 0.845 | 0.824 |
| 7 - 9 Volume | 47 | 82 | 0 | 0 | 129 | 4 - 6 Volume | 97 | 94 | 191 |
| 7 - 9 Peak Hour | 08:00 | 07:00 | | | 07:00 | 4 - 6 Peak Hour | 16:15 | 17:00 | 16:00 |
| 7 - 9 Pk Volume | 27 | 48 | 0 | 0 | 68 | 4 - 6 Pk Volume | 63 | 49 | 105 |
| Pk Hr Factor | 0.614 | 0.667 | 0.000 | 0.000 | 0.739 | Pk Hr Factor | 0.685 | 0.766 | 0.750 |

VOLUME

Airport Pkwy Dr 2 & Location #2

Day: Friday
Date: 12/1/2017City: Clearwater
Project #: FL17_3500_002

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total | | |
|----------------|--------------|--------------|----|----|--------------|----------------|--------------|--------------|-------|----|--------------|
| | | | | | 1,028 | 993 | 0 | 0 | 2,021 | | |
| AM Period | NB | SB | EB | WB | TOTAL | PM Period | NB | SB | EB | WB | TOTAL |
| 00:00 | 0 | 0 | | | 0 | 12:00 | 14 | 18 | | | 32 |
| 00:15 | 2 | 3 | | | 5 | 12:15 | 15 | 21 | | | 36 |
| 00:30 | 1 | 1 | | | 2 | 12:30 | 14 | 25 | | | 39 |
| 00:45 | 3 | 6 | 0 | 4 | 3 | 12:45 | 20 | 63 | 32 | 96 | 52 |
| 01:00 | 1 | 2 | | | 3 | 13:00 | 24 | 19 | | | 43 |
| 01:15 | 0 | 0 | | | 0 | 13:15 | 18 | 17 | | | 35 |
| 01:30 | 0 | 0 | | | 0 | 13:30 | 25 | 23 | | | 48 |
| 01:45 | 0 | 1 | 0 | 2 | 0 | 13:45 | 11 | 78 | 22 | 81 | 33 |
| 02:00 | 2 | 0 | | | 2 | 14:00 | 23 | 23 | | | 46 |
| 02:15 | 0 | 0 | | | 0 | 14:15 | 28 | 16 | | | 44 |
| 02:30 | 0 | 0 | | | 0 | 14:30 | 29 | 6 | | | 35 |
| 02:45 | 2 | 4 | 1 | 1 | 3 | 14:45 | 16 | 96 | 9 | 54 | 25 |
| 03:00 | 1 | 2 | | | 3 | 15:00 | 18 | 8 | | | 26 |
| 03:15 | 3 | 2 | | | 5 | 15:15 | 22 | 9 | | | 31 |
| 03:30 | 0 | 2 | | | 2 | 15:30 | 25 | 7 | | | 32 |
| 03:45 | 8 | 12 | 20 | 26 | 28 | 15:45 | 13 | 78 | 6 | 30 | 19 |
| 04:00 | 5 | 10 | | | 15 | 16:00 | 14 | 15 | | | 29 |
| 04:15 | 3 | 6 | | | 9 | 16:15 | 19 | 8 | | | 27 |
| 04:30 | 4 | 4 | | | 8 | 16:30 | 7 | 9 | | | 16 |
| 04:45 | 4 | 16 | 8 | 28 | 12 | 16:45 | 12 | 52 | 11 | 43 | 23 |
| 05:00 | 1 | 5 | | | 6 | 17:00 | 16 | 9 | | | 25 |
| 05:15 | 3 | 3 | | | 6 | 17:15 | 9 | 12 | | | 21 |
| 05:30 | 3 | 6 | | | 9 | 17:30 | 8 | 22 | | | 30 |
| 05:45 | 10 | 17 | 19 | 33 | 29 | 17:45 | 10 | 43 | 20 | 63 | 30 |
| 06:00 | 2 | 5 | | | 7 | 18:00 | 28 | 19 | | | 47 |
| 06:15 | 4 | 8 | | | 12 | 18:15 | 31 | 18 | | | 49 |
| 06:30 | 5 | 9 | | | 14 | 18:30 | 24 | 16 | | | 40 |
| 06:45 | 3 | 14 | 21 | 43 | 24 | 18:45 | 22 | 105 | 12 | 65 | 34 |
| 07:00 | 11 | 12 | | | 23 | 19:00 | 18 | 10 | | | 28 |
| 07:15 | 6 | 10 | | | 16 | 19:15 | 16 | 4 | | | 20 |
| 07:30 | 4 | 12 | | | 16 | 19:30 | 12 | 5 | | | 17 |
| 07:45 | 3 | 24 | 6 | 40 | 9 | 19:45 | 9 | 55 | 10 | 29 | 19 |
| 08:00 | 8 | 8 | | | 16 | 20:00 | 4 | 11 | | | 15 |
| 08:15 | 5 | 4 | | | 9 | 20:15 | 3 | 15 | | | 18 |
| 08:30 | 2 | 15 | | | 17 | 20:30 | 8 | 23 | | | 31 |
| 08:45 | 3 | 18 | 4 | 31 | 7 | 20:45 | 33 | 48 | 19 | 68 | 52 |
| 09:00 | 3 | 9 | | | 12 | 21:00 | 22 | 10 | | | 32 |
| 09:15 | 14 | 6 | | | 20 | 21:15 | 13 | 14 | | | 27 |
| 09:30 | 3 | 6 | | | 9 | 21:30 | 19 | 17 | | | 36 |
| 09:45 | 2 | 22 | 12 | 33 | 14 | 21:45 | 24 | 78 | 12 | 53 | 36 |
| 10:00 | 3 | 13 | | | 16 | 22:00 | 22 | 20 | | | 42 |
| 10:15 | 6 | 13 | | | 19 | 22:15 | 27 | 11 | | | 38 |
| 10:30 | 7 | 18 | | | 25 | 22:30 | 12 | 12 | | | 24 |
| 10:45 | 19 | 35 | 15 | 59 | 34 | 22:45 | 19 | 80 | 4 | 47 | 23 |
| 11:00 | 21 | 13 | | | 34 | 23:00 | 14 | 3 | | | 17 |
| 11:15 | 11 | 10 | | | 21 | 23:15 | 9 | 3 | | | 12 |
| 11:30 | 8 | 12 | | | 20 | 23:30 | 7 | 1 | | | 8 |
| 11:45 | 10 | 50 | 21 | 56 | 31 | 23:45 | 3 | 33 | 1 | 8 | 4 |
| TOTALS | 219 | 356 | | | 575 | TOTALS | 809 | 637 | | | 1446 |
| SPLIT % | 38.1% | 61.9% | | | 28.5% | SPLIT % | 55.9% | 44.1% | | | 71.5% |

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total |
|-----------------|-------|-------|-------|-------|-------|-----------------|-------|-------|-------|
| | | | | | 1,028 | 993 | 0 | 0 | 2,021 |
| AM Peak Hour | 10:45 | 11:45 | | | 11:45 | PM Peak Hour | 18:00 | 12:15 | 12:45 |
| AM Pk Volume | 59 | 85 | | | 138 | PM Pk Volume | 105 | 97 | 178 |
| Pk Hr Factor | 0.702 | 0.850 | | | 0.885 | Pk Hr Factor | 0.847 | 0.758 | 0.856 |
| 7 - 9 Volume | 42 | 71 | 0 | 0 | 113 | 4 - 6 Volume | 95 | 106 | 201 |
| 7 - 9 Peak Hour | 07:00 | 07:00 | | | 07:00 | 4 - 6 Peak Hour | 16:15 | 17:00 | 17:00 |
| 7 - 9 Pk Volume | 24 | 40 | 0 | 0 | 64 | 4 - 6 Pk Volume | 54 | 63 | 106 |
| Pk Hr Factor | 0.545 | 0.833 | 0.000 | 0.000 | 0.696 | Pk Hr Factor | 0.711 | 0.716 | 0.883 |

VOLUME

Airport Pkwy Dr 2 & Location #2

Day: Saturday
Date: 12/2/2017City: Clearwater
Project #: FL17_3500_002

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total | | |
|----------------|--------------|--------------|----|----|--------------|----------------|--------------|--------------|-------|----|--------------|
| | | | | | 589 | 618 | 0 | 0 | 1,207 | | |
| AM Period | NB | SB | EB | WB | TOTAL | PM Period | NB | SB | EB | WB | TOTAL |
| 00:00 | 1 | 0 | | | 1 | 12:00 | 4 | 10 | | | 14 |
| 00:15 | 0 | 0 | | | 0 | 12:15 | 5 | 12 | | | 17 |
| 00:30 | 1 | 1 | | | 2 | 12:30 | 6 | 17 | | | 23 |
| 00:45 | 2 | 4 | 1 | 2 | 3 | 12:45 | 10 | 25 | 22 | 61 | 86 |
| 01:00 | 2 | 0 | | | 2 | 13:00 | 13 | 22 | | | 35 |
| 01:15 | 4 | 3 | | | 7 | 13:15 | 21 | 29 | | | 50 |
| 01:30 | 1 | 1 | | | 2 | 13:30 | 29 | 18 | | | 47 |
| 01:45 | 0 | 7 | 1 | 5 | 1 | 13:45 | 16 | 79 | 14 | 83 | 162 |
| 02:00 | 0 | 0 | | | 0 | 14:00 | 19 | 11 | | | 30 |
| 02:15 | 2 | 0 | | | 2 | 14:15 | 12 | 15 | | | 27 |
| 02:30 | 1 | 1 | | | 2 | 14:30 | 20 | 17 | | | 37 |
| 02:45 | 0 | 3 | 0 | 1 | 0 | 14:45 | 15 | 66 | 8 | 51 | 117 |
| 03:00 | 0 | 0 | | | 0 | 15:00 | 4 | 6 | | | 10 |
| 03:15 | 4 | 5 | | | 9 | 15:15 | 7 | 7 | | | 14 |
| 03:30 | 1 | 4 | | | 5 | 15:30 | 3 | 7 | | | 10 |
| 03:45 | 4 | 9 | 9 | 18 | 13 | 15:45 | 8 | 22 | 10 | 30 | 52 |
| 04:00 | 3 | 9 | | | 12 | 16:00 | 6 | 12 | | | 18 |
| 04:15 | 4 | 6 | | | 10 | 16:15 | 9 | 12 | | | 21 |
| 04:30 | 3 | 6 | | | 9 | 16:30 | 14 | 12 | | | 26 |
| 04:45 | 3 | 13 | 7 | 28 | 10 | 16:45 | 15 | 44 | 11 | 47 | 91 |
| 05:00 | 2 | 3 | | | 5 | 17:00 | 10 | 3 | | | 13 |
| 05:15 | 3 | 4 | | | 7 | 17:15 | 9 | 2 | | | 11 |
| 05:30 | 3 | 4 | | | 7 | 17:30 | 12 | 4 | | | 16 |
| 05:45 | 2 | 10 | 6 | 17 | 8 | 17:45 | 6 | 37 | 1 | 10 | 47 |
| 06:00 | 1 | 5 | | | 6 | 18:00 | 2 | 2 | | | 4 |
| 06:15 | 2 | 3 | | | 5 | 18:15 | 1 | 0 | | | 1 |
| 06:30 | 1 | 3 | | | 4 | 18:30 | 2 | 2 | | | 4 |
| 06:45 | 4 | 8 | 1 | 12 | 5 | 18:45 | 4 | 9 | 3 | 7 | 16 |
| 07:00 | 9 | 3 | | | 12 | 19:00 | 4 | 4 | | | 8 |
| 07:15 | 3 | 3 | | | 6 | 19:15 | 6 | 9 | | | 15 |
| 07:30 | 2 | 5 | | | 7 | 19:30 | 3 | 3 | | | 6 |
| 07:45 | 6 | 20 | 8 | 19 | 14 | 19:45 | 5 | 18 | 8 | 24 | 42 |
| 08:00 | 4 | 9 | | | 13 | 20:00 | 12 | 12 | | | 24 |
| 08:15 | 5 | 6 | | | 11 | 20:15 | 18 | 9 | | | 27 |
| 08:30 | 10 | 5 | | | 15 | 20:30 | 7 | 9 | | | 16 |
| 08:45 | 2 | 21 | 7 | 27 | 9 | 20:45 | 6 | 43 | 10 | 40 | 83 |
| 09:00 | 3 | 2 | | | 5 | 21:00 | 16 | 8 | | | 24 |
| 09:15 | 4 | 7 | | | 11 | 21:15 | 12 | 12 | | | 24 |
| 09:30 | 5 | 4 | | | 9 | 21:30 | 16 | 8 | | | 24 |
| 09:45 | 6 | 18 | 7 | 20 | 13 | 21:45 | 18 | 62 | 2 | 30 | 92 |
| 10:00 | 8 | 8 | | | 16 | 22:00 | 5 | 6 | | | 11 |
| 10:15 | 4 | 9 | | | 13 | 22:15 | 4 | 3 | | | 7 |
| 10:30 | 3 | 9 | | | 12 | 22:30 | 2 | 1 | | | 3 |
| 10:45 | 6 | 21 | 11 | 37 | 17 | 22:45 | 0 | 11 | 0 | 10 | 21 |
| 11:00 | 22 | 8 | | | 30 | 23:00 | 1 | 1 | | | 2 |
| 11:15 | 6 | 11 | | | 17 | 23:15 | 2 | 0 | | | 2 |
| 11:30 | 2 | 7 | | | 9 | 23:30 | 0 | 1 | | | 1 |
| 11:45 | 4 | 34 | 8 | 34 | 12 | 23:45 | 2 | 5 | 3 | 5 | 10 |
| TOTALS | 168 | 220 | | | 388 | TOTALS | 421 | 398 | | | 819 |
| SPLIT % | 43.3% | 56.7% | | | 32.1% | SPLIT % | 51.4% | 48.6% | | | 67.9% |

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total |
|-----------------|-------|-------|-------|-------|-------|-----------------|-------|-------|-------|
| | | | | | 589 | 618 | 0 | 0 | 1,207 |
| AM Peak Hour | 10:30 | 11:45 | | | 10:30 | PM Peak Hour | 13:15 | 12:45 | 12:45 |
| AM Pk Volume | 37 | 47 | | | 76 | PM Pk Volume | 85 | 91 | 164 |
| Pk Hr Factor | 0.420 | 0.691 | | | 0.633 | Pk Hr Factor | 0.733 | 0.784 | 0.820 |
| 7 - 9 Volume | 41 | 46 | 0 | 0 | 87 | 4 - 6 Volume | 81 | 57 | 138 |
| 7 - 9 Peak Hour | 07:45 | 07:30 | | | 07:45 | 4 - 6 Peak Hour | 16:15 | 16:00 | 16:00 |
| 7 - 9 Pk Volume | 25 | 28 | 0 | 0 | 53 | 4 - 6 Pk Volume | 48 | 47 | 91 |
| Pk Hr Factor | 0.625 | 0.778 | 0.000 | 0.000 | 0.883 | Pk Hr Factor | 0.800 | 0.979 | 0.875 |

VOLUME

Airport Pkwy Dr 2 & Location #2

Day: Sunday
Date: 12/3/2017City: Clearwater
Project #: FL17_3500_002

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total | | |
|----------------|--------------|--------------|----|----|--------------|----------------|--------------|--------------|-------|-----|--------------|
| | | | | | 768 | 766 | 0 | 0 | 1,534 | | |
| AM Period | NB | SB | EB | WB | TOTAL | PM Period | NB | SB | EB | WB | TOTAL |
| 00:00 | 0 | 0 | | | 0 | 12:00 | 9 | 21 | | | 30 |
| 00:15 | 2 | 0 | | | 2 | 12:15 | 22 | 28 | | | 50 |
| 00:30 | 1 | 0 | | | 1 | 12:30 | 24 | 28 | | | 52 |
| 00:45 | 1 | 4 | 0 | | 5 | 12:45 | 36 | 91 | 31 | 108 | 166 |
| 01:00 | 3 | 4 | | | 7 | 13:00 | 30 | 20 | | | 50 |
| 01:15 | 1 | 1 | | | 2 | 13:15 | 37 | 16 | | | 53 |
| 01:30 | 1 | 1 | | | 2 | 13:30 | 14 | 14 | | | 28 |
| 01:45 | 1 | 6 | 2 | 8 | 17 | 13:45 | 14 | 95 | 5 | 55 | 169 |
| 02:00 | 0 | 0 | | | 0 | 14:00 | 14 | 8 | | | 22 |
| 02:15 | 0 | 0 | | | 0 | 14:15 | 11 | 14 | | | 25 |
| 02:30 | 0 | 0 | | | 0 | 14:30 | 8 | 8 | | | 16 |
| 02:45 | 0 | 0 | | | 0 | 14:45 | 10 | 43 | 6 | 36 | 95 |
| 03:00 | 0 | 0 | | | 0 | 15:00 | 8 | 5 | | | 13 |
| 03:15 | 1 | 1 | | | 2 | 15:15 | 7 | 7 | | | 14 |
| 03:30 | 7 | 12 | | | 19 | 15:30 | 8 | 13 | | | 21 |
| 03:45 | 6 | 14 | 14 | 27 | 61 | 15:45 | 3 | 26 | 1 | 26 | 56 |
| 04:00 | 4 | 9 | | | 13 | 16:00 | 4 | 3 | | | 7 |
| 04:15 | 7 | 9 | | | 16 | 16:15 | 5 | 10 | | | 15 |
| 04:30 | 4 | 7 | | | 11 | 16:30 | 6 | 7 | | | 13 |
| 04:45 | 6 | 21 | 9 | 34 | 66 | 16:45 | 11 | 26 | 10 | 30 | 77 |
| 05:00 | 1 | 3 | | | 4 | 17:00 | 25 | 15 | | | 40 |
| 05:15 | 2 | 9 | | | 11 | 17:15 | 16 | 7 | | | 23 |
| 05:30 | 2 | 6 | | | 8 | 17:30 | 11 | 6 | | | 17 |
| 05:45 | 2 | 7 | 16 | 34 | 55 | 17:45 | 6 | 58 | 11 | 39 | 114 |
| 06:00 | 1 | 8 | | | 9 | 18:00 | 9 | 14 | | | 23 |
| 06:15 | 2 | 7 | | | 9 | 18:15 | 27 | 9 | | | 36 |
| 06:30 | 3 | 9 | | | 12 | 18:30 | 8 | 9 | | | 17 |
| 06:45 | 4 | 10 | 11 | 35 | 64 | 18:45 | 10 | 54 | 9 | 41 | 114 |
| 07:00 | 7 | 11 | | | 18 | 19:00 | 6 | 9 | | | 15 |
| 07:15 | 4 | 7 | | | 11 | 19:15 | 8 | 10 | | | 18 |
| 07:30 | 3 | 5 | | | 8 | 19:30 | 14 | 25 | | | 39 |
| 07:45 | 2 | 16 | 2 | 25 | 45 | 19:45 | 27 | 55 | 18 | 62 | 142 |
| 08:00 | 6 | 7 | | | 13 | 20:00 | 28 | 15 | | | 43 |
| 08:15 | 9 | 5 | | | 14 | 20:15 | 27 | 13 | | | 40 |
| 08:30 | 8 | 8 | | | 16 | 20:30 | 16 | 17 | | | 33 |
| 08:45 | 2 | 25 | 1 | 21 | 53 | 20:45 | 18 | 89 | 7 | 52 | 166 |
| 09:00 | 3 | 1 | | | 4 | 21:00 | 25 | 10 | | | 35 |
| 09:15 | 4 | 1 | | | 5 | 21:15 | 7 | 2 | | | 9 |
| 09:30 | 5 | 4 | | | 9 | 21:30 | 4 | 4 | | | 8 |
| 09:45 | 3 | 15 | 6 | 12 | 36 | 21:45 | 1 | 37 | 2 | 18 | 58 |
| 10:00 | 3 | 5 | | | 8 | 22:00 | 3 | 3 | | | 6 |
| 10:15 | 5 | 8 | | | 13 | 22:15 | 5 | 0 | | | 5 |
| 10:30 | 4 | 3 | | | 7 | 22:30 | 8 | 7 | | | 15 |
| 10:45 | 3 | 15 | 7 | 23 | 48 | 22:45 | 8 | 24 | 2 | 12 | 46 |
| 11:00 | 2 | 9 | | | 11 | 23:00 | 5 | 3 | | | 8 |
| 11:15 | 5 | 14 | | | 19 | 23:15 | 5 | 2 | | | 7 |
| 11:30 | 7 | 16 | | | 23 | 23:30 | 3 | 3 | | | 6 |
| 11:45 | 8 | 22 | 20 | 59 | 109 | 23:45 | 2 | 15 | 1 | 9 | 27 |
| TOTALS | 155 | 278 | | | 433 | TOTALS | 613 | 488 | | | 1101 |
| SPLIT % | 35.8% | 64.2% | | | 28.2% | SPLIT % | 55.7% | 44.3% | | | 71.8% |

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total |
|-----------------|-------|-------|-------|-------|-------|-----------------|-------|-------|-------|
| | | | | | 768 | 766 | 0 | 0 | 1,534 |
| AM Peak Hour | 11:45 | 11:45 | | | 11:45 | PM Peak Hour | 12:30 | 12:00 | 12:30 |
| AM Pk Volume | 63 | 97 | | | 160 | PM Pk Volume | 127 | 108 | 222 |
| Pk Hr Factor | 0.656 | 0.866 | | | 0.769 | Pk Hr Factor | 0.858 | 0.871 | 0.828 |
| 7 - 9 Volume | 41 | 46 | 0 | 0 | 87 | 4 - 6 Volume | 84 | 69 | 153 |
| 7 - 9 Peak Hour | 07:45 | 07:00 | | | 07:45 | 4 - 6 Peak Hour | 16:45 | 16:15 | 16:45 |
| 7 - 9 Pk Volume | 25 | 25 | 0 | 0 | 47 | 4 - 6 Pk Volume | 63 | 42 | 101 |
| Pk Hr Factor | 0.694 | 0.568 | 0.000 | 0.000 | 0.734 | Pk Hr Factor | 0.630 | 0.700 | 0.631 |

VOLUME

Airport Pkwy Dr 2 & Location #2

Day: Monday
Date: 12/4/2017City: Clearwater
Project #: FL17_3500_002

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total | | |
|----------------|--------------|--------------|----|----|--------------|----------------|--------------|--------------|-------|-----|--------------|
| | | | | | 1,009 | 1,020 | 0 | 0 | 2,029 | | |
| AM Period | NB | SB | EB | WB | TOTAL | PM Period | NB | SB | EB | WB | TOTAL |
| 00:00 | 2 | 0 | | | 2 | 12:00 | 18 | 37 | | | 55 |
| 00:15 | 0 | 1 | | | 1 | 12:15 | 13 | 22 | | | 35 |
| 00:30 | 1 | 0 | | | 1 | 12:30 | 14 | 34 | | | 48 |
| 00:45 | 3 | 6 | 1 | 2 | 4 | 12:45 | 19 | 64 | 32 | 125 | 51 |
| 01:00 | 3 | 2 | | | 5 | 13:00 | 63 | 23 | | | 86 |
| 01:15 | 0 | 1 | | | 1 | 13:15 | 23 | 15 | | | 38 |
| 01:30 | 0 | 1 | | | 1 | 13:30 | 18 | 18 | | | 36 |
| 01:45 | 1 | 4 | 0 | 4 | 1 | 13:45 | 9 | 113 | 16 | 72 | 25 |
| 02:00 | 0 | 0 | | | 0 | 14:00 | 9 | 9 | | | 18 |
| 02:15 | 0 | 0 | | | 0 | 14:15 | 4 | 8 | | | 12 |
| 02:30 | 0 | 0 | | | 0 | 14:30 | 9 | 13 | | | 22 |
| 02:45 | 0 | 0 | | | 0 | 14:45 | 10 | 32 | 15 | 45 | 25 |
| 03:00 | 0 | 3 | | | 3 | 15:00 | 18 | 10 | | | 28 |
| 03:15 | 2 | 3 | | | 5 | 15:15 | 17 | 15 | | | 32 |
| 03:30 | 2 | 3 | | | 5 | 15:30 | 20 | 13 | | | 33 |
| 03:45 | 6 | 10 | 13 | 22 | 19 | 15:45 | 27 | 82 | 9 | 47 | 36 |
| 04:00 | 4 | 8 | | | 12 | 16:00 | 27 | 19 | | | 46 |
| 04:15 | 6 | 6 | | | 12 | 16:15 | 17 | 9 | | | 26 |
| 04:30 | 3 | 4 | | | 7 | 16:30 | 17 | 15 | | | 32 |
| 04:45 | 4 | 17 | 5 | 23 | 9 | 16:45 | 16 | 77 | 11 | 54 | 27 |
| 05:00 | 1 | 4 | | | 5 | 17:00 | 11 | 11 | | | 22 |
| 05:15 | 1 | 7 | | | 8 | 17:15 | 13 | 22 | | | 35 |
| 05:30 | 4 | 6 | | | 10 | 17:30 | 16 | 25 | | | 41 |
| 05:45 | 4 | 10 | 3 | 20 | 7 | 17:45 | 10 | 50 | 18 | 76 | 28 |
| 06:00 | 1 | 7 | | | 8 | 18:00 | 37 | 12 | | | 49 |
| 06:15 | 7 | 9 | | | 16 | 18:15 | 34 | 11 | | | 45 |
| 06:30 | 3 | 8 | | | 11 | 18:30 | 13 | 4 | | | 17 |
| 06:45 | 2 | 13 | 15 | 39 | 17 | 18:45 | 9 | 93 | 8 | 35 | 17 |
| 07:00 | 7 | 18 | | | 25 | 19:00 | 8 | 4 | | | 12 |
| 07:15 | 6 | 17 | | | 23 | 19:15 | 10 | 18 | | | 28 |
| 07:30 | 2 | 12 | | | 14 | 19:30 | 27 | 10 | | | 37 |
| 07:45 | 3 | 18 | 12 | 59 | 15 | 19:45 | 16 | 61 | 5 | 37 | 21 |
| 08:00 | 5 | 10 | | | 15 | 20:00 | 6 | 12 | | | 18 |
| 08:15 | 5 | 10 | | | 15 | 20:15 | 9 | 6 | | | 15 |
| 08:30 | 6 | 18 | | | 24 | 20:30 | 5 | 11 | | | 16 |
| 08:45 | 8 | 24 | 18 | 56 | 26 | 20:45 | 4 | 24 | 6 | 35 | 10 |
| 09:00 | 8 | 8 | | | 16 | 21:00 | 4 | 5 | | | 9 |
| 09:15 | 11 | 6 | | | 17 | 21:15 | 5 | 7 | | | 12 |
| 09:30 | 7 | 7 | | | 14 | 21:30 | 4 | 18 | | | 22 |
| 09:45 | 9 | 35 | 11 | 32 | 20 | 21:45 | 21 | 34 | 20 | 50 | 41 |
| 10:00 | 9 | 15 | | | 24 | 22:00 | 18 | 11 | | | 29 |
| 10:15 | 8 | 16 | | | 24 | 22:15 | 29 | 15 | | | 44 |
| 10:30 | 10 | 13 | | | 23 | 22:30 | 18 | 18 | | | 36 |
| 10:45 | 17 | 44 | 18 | 62 | 35 | 22:45 | 39 | 104 | 9 | 53 | 48 |
| 11:00 | 19 | 14 | | | 33 | 23:00 | 16 | 6 | | | 22 |
| 11:15 | 16 | 15 | | | 31 | 23:15 | 11 | 1 | | | 12 |
| 11:30 | 12 | 13 | | | 25 | 23:30 | 5 | 3 | | | 8 |
| 11:45 | 14 | 61 | 20 | 62 | 34 | 23:45 | 1 | 33 | 0 | 10 | 1 |
| TOTALS | 242 | 381 | | | 623 | TOTALS | 767 | 639 | | | 1406 |
| SPLIT % | 38.8% | 61.2% | | | 30.7% | SPLIT % | 54.6% | 45.4% | | | 69.3% |

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total |
|-----------------|-------|-------|-------|-------|-------|-----------------|-------|-------|-------|
| | | | | | 1,009 | 1,020 | 0 | 0 | 2,029 |
| AM Peak Hour | 10:45 | 11:45 | | | 11:45 | PM Peak Hour | 12:45 | 12:00 | 12:30 |
| AM Pk Volume | 64 | 113 | | | 172 | PM Pk Volume | 123 | 125 | 223 |
| Pk Hr Factor | 0.842 | 0.764 | | | 0.782 | Pk Hr Factor | 0.488 | 0.845 | 0.648 |
| 7 - 9 Volume | 42 | 115 | 0 | 0 | 157 | 4 - 6 Volume | 127 | 130 | 257 |
| 7 - 9 Peak Hour | 08:00 | 07:00 | | | 08:00 | 4 - 6 Peak Hour | 16:00 | 17:00 | 16:00 |
| 7 - 9 Pk Volume | 24 | 59 | 0 | 0 | 80 | 4 - 6 Pk Volume | 77 | 76 | 131 |
| Pk Hr Factor | 0.750 | 0.819 | 0.000 | 0.000 | 0.769 | Pk Hr Factor | 0.713 | 0.760 | 0.712 |

VOLUME

Airport Pkwy Dr 2 & Location #2

Day: Tuesday
Date: 12/5/2017City: Clearwater
Project #: FL17_3500_002

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total | | |
|----------------|--------------|--------------|----|----|--------------|----------------|--------------|--------------|-------|----|--------------|
| | | | | | 510 | 549 | 0 | 0 | 1,059 | | |
| AM Period | NB | SB | EB | WB | TOTAL | PM Period | NB | SB | EB | WB | TOTAL |
| 00:00 | 2 | 0 | | | 2 | 12:00 | 8 | 7 | | | 15 |
| 00:15 | 0 | 0 | | | 0 | 12:15 | 9 | 0 | | | 9 |
| 00:30 | 0 | 2 | | | 2 | 12:30 | 8 | 16 | | | 24 |
| 00:45 | 3 | 5 | 2 | 4 | 9 | 12:45 | 7 | 32 | 8 | 31 | 63 |
| 01:00 | 1 | 0 | | | 1 | 13:00 | 10 | 7 | | | 17 |
| 01:15 | 0 | 1 | | | 1 | 13:15 | 4 | 2 | | | 6 |
| 01:30 | 2 | 0 | | | 2 | 13:30 | 5 | 8 | | | 13 |
| 01:45 | 1 | 4 | 1 | 2 | 6 | 13:45 | 5 | 24 | 7 | 24 | 48 |
| 02:00 | 1 | 1 | | | 2 | 14:00 | 2 | 10 | | | 12 |
| 02:15 | 1 | 1 | | | 2 | 14:15 | 9 | 16 | | | 25 |
| 02:30 | 0 | 0 | | | 0 | 14:30 | 13 | 19 | | | 32 |
| 02:45 | 0 | 2 | 0 | 2 | 4 | 14:45 | 19 | 43 | 10 | 55 | 98 |
| 03:00 | 1 | 2 | | | 3 | 15:00 | 6 | 8 | | | 14 |
| 03:15 | 1 | 1 | | | 2 | 15:15 | 6 | 11 | | | 17 |
| 03:30 | 0 | 1 | | | 1 | 15:30 | 11 | 8 | | | 19 |
| 03:45 | 7 | 9 | 8 | 12 | 21 | 15:45 | 13 | 36 | 11 | 38 | 74 |
| 04:00 | 3 | 6 | | | 9 | 16:00 | 13 | 17 | | | 30 |
| 04:15 | 6 | 7 | | | 13 | 16:15 | 12 | 21 | | | 33 |
| 04:30 | 3 | 2 | | | 5 | 16:30 | 20 | 13 | | | 33 |
| 04:45 | 3 | 15 | 5 | 20 | 35 | 16:45 | 12 | 57 | 4 | 55 | 112 |
| 05:00 | 1 | 1 | | | 2 | 17:00 | 5 | 5 | | | 10 |
| 05:15 | 1 | 1 | | | 2 | 17:15 | 3 | 3 | | | 6 |
| 05:30 | 3 | 2 | | | 5 | 17:30 | 6 | 3 | | | 9 |
| 05:45 | 1 | 6 | 2 | 6 | 12 | 17:45 | 9 | 23 | 3 | 14 | 37 |
| 06:00 | 1 | 1 | | | 2 | 18:00 | 6 | 4 | | | 10 |
| 06:15 | 2 | 3 | | | 5 | 18:15 | 3 | 6 | | | 9 |
| 06:30 | 2 | 9 | | | 11 | 18:30 | 5 | 4 | | | 9 |
| 06:45 | 6 | 11 | 14 | 27 | 38 | 18:45 | 3 | 17 | 4 | 18 | 35 |
| 07:00 | 6 | 15 | | | 21 | 19:00 | 1 | 0 | | | 1 |
| 07:15 | 6 | 17 | | | 23 | 19:15 | 3 | 5 | | | 8 |
| 07:30 | 3 | 8 | | | 11 | 19:30 | 2 | 0 | | | 2 |
| 07:45 | 5 | 20 | 6 | 46 | 66 | 19:45 | 5 | 11 | 4 | 9 | 20 |
| 08:00 | 7 | 11 | | | 18 | 20:00 | 2 | 2 | | | 4 |
| 08:15 | 6 | 5 | | | 11 | 20:15 | 8 | 11 | | | 19 |
| 08:30 | 9 | 6 | | | 15 | 20:30 | 19 | 7 | | | 26 |
| 08:45 | 9 | 31 | 6 | 28 | 59 | 20:45 | 6 | 35 | 6 | 26 | 61 |
| 09:00 | 7 | 7 | | | 14 | 21:00 | 5 | 2 | | | 7 |
| 09:15 | 5 | 8 | | | 13 | 21:15 | 3 | 1 | | | 4 |
| 09:30 | 7 | 9 | | | 16 | 21:30 | 5 | 2 | | | 7 |
| 09:45 | 12 | 31 | 5 | 29 | 60 | 21:45 | 3 | 16 | 2 | 7 | 23 |
| 10:00 | 8 | 9 | | | 17 | 22:00 | 2 | 0 | | | 2 |
| 10:15 | 5 | 10 | | | 15 | 22:15 | 1 | 1 | | | 2 |
| 10:30 | 4 | 2 | | | 6 | 22:30 | 0 | 0 | | | 0 |
| 10:45 | 5 | 22 | 9 | 30 | 52 | 22:45 | 5 | 8 | 1 | 2 | 10 |
| 11:00 | 4 | 15 | | | 19 | 23:00 | 0 | 0 | | | 0 |
| 11:15 | 9 | 12 | | | 21 | 23:15 | 1 | 2 | | | 3 |
| 11:30 | 19 | 12 | | | 31 | 23:30 | 0 | 0 | | | 0 |
| 11:45 | 17 | 49 | 23 | 62 | 111 | 23:45 | 2 | 3 | 0 | 2 | 5 |
| TOTALS | 205 | 268 | | | 473 | TOTALS | 305 | 281 | | | 586 |
| SPLIT % | 43.3% | 56.7% | | | 44.7% | SPLIT % | 52.0% | 48.0% | | | 55.3% |

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total | | |
|-----------------|-------|-------|-------|-------|-------|-----------------|-------|-------|-------|-------|-------|
| | | | | | 510 | 549 | 0 | 0 | 1,059 | | |
| AM Peak Hour | 11:15 | 11:00 | | | 11:00 | PM Peak Hour | 15:45 | 15:45 | 15:45 | | |
| AM Pk Volume | 53 | 62 | | | 111 | PM Pk Volume | 58 | 62 | 120 | | |
| Pk Hr Factor | 0.697 | 0.674 | | | 0.694 | Pk Hr Factor | 0.725 | 0.738 | 0.909 | | |
| 7 - 9 Volume | 51 | 74 | 0 | 0 | 125 | 4 - 6 Volume | 80 | 69 | 0 | 0 | 149 |
| 7 - 9 Peak Hour | 08:00 | 07:00 | | | 07:00 | 4 - 6 Peak Hour | 16:00 | 16:00 | | | 16:00 |
| 7 - 9 Pk Volume | 31 | 46 | 0 | 0 | 66 | 4 - 6 Pk Volume | 57 | 55 | 0 | 0 | 112 |
| Pk Hr Factor | 0.861 | 0.676 | 0.000 | 0.000 | 0.717 | Pk Hr Factor | 0.713 | 0.655 | 0.000 | 0.000 | 0.848 |

VOLUME

Airport Pkwy Dr 2 & Location #2

Day: Wednesday
Date: 12/6/2017City: Clearwater
Project #: FL17_3500_002

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total | | |
|----------------|--------------|--------------|----|----|--------------|----------------|--------------|--------------|-------|----|--------------|
| | | | | | 676 | 716 | 0 | 0 | 1,392 | | |
| AM Period | NB | SB | EB | WB | TOTAL | PM Period | NB | SB | EB | WB | TOTAL |
| 00:00 | 2 | 0 | | | 2 | 12:00 | 7 | 17 | | | 24 |
| 00:15 | 1 | 2 | | | 3 | 12:15 | 15 | 17 | | | 32 |
| 00:30 | 0 | 0 | | | 0 | 12:30 | 16 | 21 | | | 37 |
| 00:45 | 0 | 3 | 1 | 3 | 1 6 | 12:45 | 21 | 59 | 19 | 74 | 40 133 |
| 01:00 | 5 | 1 | | | 6 | 13:00 | 23 | 23 | | | 46 |
| 01:15 | 6 | 7 | | | 13 | 13:15 | 31 | 16 | | | 47 |
| 01:30 | 7 | 3 | | | 10 | 13:30 | 18 | 15 | | | 33 |
| 01:45 | 2 | 20 | 2 | 13 | 4 33 | 13:45 | 9 | 81 | 15 | 69 | 24 150 |
| 02:00 | 4 | 4 | | | 8 | 14:00 | 9 | 10 | | | 19 |
| 02:15 | 0 | 0 | | | 0 | 14:15 | 11 | 9 | | | 20 |
| 02:30 | 0 | 0 | | | 0 | 14:30 | 24 | 13 | | | 37 |
| 02:45 | 1 | 5 | 0 | 4 | 1 9 | 14:45 | 22 | 66 | 9 | 41 | 31 107 |
| 03:00 | 1 | 2 | | | 3 | 15:00 | 11 | 9 | | | 20 |
| 03:15 | 5 | 5 | | | 10 | 15:15 | 6 | 7 | | | 13 |
| 03:30 | 4 | 2 | | | 6 | 15:30 | 4 | 5 | | | 9 |
| 03:45 | 10 | 20 | 15 | 24 | 25 44 | 15:45 | 7 | 28 | 9 | 30 | 16 58 |
| 04:00 | 2 | 5 | | | 7 | 16:00 | 24 | 13 | | | 37 |
| 04:15 | 3 | 3 | | | 6 | 16:15 | 15 | 11 | | | 26 |
| 04:30 | 3 | 1 | | | 4 | 16:30 | 8 | 10 | | | 18 |
| 04:45 | 2 | 10 | 6 | 15 | 8 25 | 16:45 | 7 | 54 | 2 | 36 | 9 90 |
| 05:00 | 4 | 6 | | | 10 | 17:00 | 6 | 4 | | | 10 |
| 05:15 | 5 | 6 | | | 11 | 17:15 | 7 | 4 | | | 11 |
| 05:30 | 2 | 10 | | | 12 | 17:30 | 5 | 2 | | | 7 |
| 05:45 | 4 | 15 | 3 | 25 | 7 40 | 17:45 | 6 | 24 | 5 | 15 | 11 39 |
| 06:00 | 2 | 2 | | | 4 | 18:00 | 5 | 4 | | | 9 |
| 06:15 | 1 | 6 | | | 7 | 18:15 | 4 | 6 | | | 10 |
| 06:30 | 2 | 6 | | | 8 | 18:30 | 0 | 5 | | | 5 |
| 06:45 | 4 | 9 | 11 | 25 | 15 34 | 18:45 | 4 | 13 | 5 | 20 | 9 33 |
| 07:00 | 7 | 14 | | | 21 | 19:00 | 6 | 8 | | | 14 |
| 07:15 | 8 | 12 | | | 20 | 19:15 | 4 | 7 | | | 11 |
| 07:30 | 5 | 8 | | | 13 | 19:30 | 4 | 25 | | | 29 |
| 07:45 | 4 | 24 | 6 | 40 | 10 64 | 19:45 | 9 | 23 | 18 | 58 | 27 81 |
| 08:00 | 3 | 8 | | | 11 | 20:00 | 20 | 12 | | | 32 |
| 08:15 | 7 | 10 | | | 17 | 20:15 | 24 | 15 | | | 39 |
| 08:30 | 9 | 7 | | | 16 | 20:30 | 20 | 9 | | | 29 |
| 08:45 | 7 | 26 | 10 | 35 | 17 61 | 20:45 | 16 | 80 | 5 | 41 | 21 121 |
| 09:00 | 8 | 14 | | | 22 | 21:00 | 14 | 8 | | | 22 |
| 09:15 | 7 | 2 | | | 9 | 21:15 | 7 | 2 | | | 9 |
| 09:30 | 4 | 5 | | | 9 | 21:30 | 4 | 3 | | | 7 |
| 09:45 | 4 | 23 | 12 | 33 | 16 56 | 21:45 | 1 | 26 | 0 | 13 | 1 39 |
| 10:00 | 4 | 6 | | | 10 | 22:00 | 3 | 1 | | | 4 |
| 10:15 | 4 | 12 | | | 16 | 22:15 | 5 | 2 | | | 7 |
| 10:30 | 5 | 5 | | | 10 | 22:30 | 2 | 1 | | | 3 |
| 10:45 | 3 | 16 | 15 | 38 | 18 54 | 22:45 | 1 | 11 | 1 | 5 | 2 16 |
| 11:00 | 8 | 12 | | | 20 | 23:00 | 0 | 1 | | | 1 |
| 11:15 | 7 | 10 | | | 17 | 23:15 | 1 | 1 | | | 2 |
| 11:30 | 14 | 18 | | | 32 | 23:30 | 0 | 0 | | | 0 |
| 11:45 | 9 | 38 | 16 | 56 | 25 94 | 23:45 | 1 | 2 | 1 | 3 | 2 5 |
| TOTALS | 209 | 311 | | | 520 | TOTALS | 467 | 405 | | | 872 |
| SPLIT % | 40.2% | 59.8% | | | 37.4% | SPLIT % | 53.6% | 46.4% | | | 62.6% |

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total |
|-----------------|-------|-------|-------|-------|-------|-----------------|-------|-------|-------|
| | | | | | 676 | 716 | 0 | 0 | 1,392 |
| AM Peak Hour | 11:45 | 11:45 | | | 11:45 | PM Peak Hour | 12:45 | 12:15 | 12:30 |
| AM Pk Volume | 47 | 71 | | | 118 | PM Pk Volume | 93 | 80 | 170 |
| Pk Hr Factor | 0.734 | 0.845 | | | 0.797 | Pk Hr Factor | 0.750 | 0.870 | 0.904 |
| 7 - 9 Volume | 50 | 75 | 0 | 0 | 125 | 4 - 6 Volume | 78 | 51 | 129 |
| 7 - 9 Peak Hour | 08:00 | 07:00 | | | 07:00 | 4 - 6 Peak Hour | 16:00 | 16:00 | 16:00 |
| 7 - 9 Pk Volume | 26 | 40 | 0 | 0 | 64 | 4 - 6 Pk Volume | 54 | 36 | 90 |
| Pk Hr Factor | 0.722 | 0.714 | 0.000 | 0.000 | 0.762 | Pk Hr Factor | 0.563 | 0.692 | 0.608 |

VOLUME

Airport Pkwy Dr Location #3

Day: Thursday
Date: 11/30/2017City: Clearwater
Project #: FL17_3500_003

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total | | |
|----------------|---------------|-------------|-------------|-------------|--------------|----------------|---------------|-------------|-------------|-------------|--------------|
| | | | | | 1,998 | 0 | 0 | 0 | 1,998 | | |
| AM Period | NB | SB | EB | WB | TOTAL | PM Period | NB | SB | EB | WB | TOTAL |
| 00:00 | 2 | 0 | | | 2 | 12:00 | 51 | 0 | | | 51 |
| 00:15 | 0 | 0 | | | 0 | 12:15 | 53 | 0 | | | 53 |
| 00:30 | 0 | 0 | | | 0 | 12:30 | 53 | 0 | | | 53 |
| 00:45 | 0 | 2 | 0 | | 2 | 12:45 | 58 | 215 | 0 | | 273 |
| 01:00 | 0 | 0 | | | 0 | 13:00 | 55 | 0 | | | 55 |
| 01:15 | 0 | 0 | | | 0 | 13:15 | 51 | 0 | | | 51 |
| 01:30 | 1 | 0 | | | 1 | 13:30 | 42 | 0 | | | 42 |
| 01:45 | 1 | 2 | 0 | | 3 | 13:45 | 37 | 185 | 0 | | 222 |
| 02:00 | 0 | 0 | | | 0 | 14:00 | 37 | 0 | | | 37 |
| 02:15 | 0 | 0 | | | 0 | 14:15 | 46 | 0 | | | 46 |
| 02:30 | 0 | 0 | | | 0 | 14:30 | 23 | 0 | | | 23 |
| 02:45 | 0 | 0 | | | 0 | 14:45 | 32 | 138 | 0 | | 170 |
| 03:00 | 1 | 0 | | | 1 | 15:00 | 24 | 0 | | | 24 |
| 03:15 | 1 | 0 | | | 1 | 15:15 | 32 | 0 | | | 32 |
| 03:30 | 0 | 0 | | | 0 | 15:30 | 15 | 0 | | | 15 |
| 03:45 | 2 | 4 | 0 | | 6 | 15:45 | 15 | 86 | 0 | | 101 |
| 04:00 | 4 | 0 | | | 4 | 16:00 | 24 | 0 | | | 24 |
| 04:15 | 18 | 0 | | | 18 | 16:15 | 19 | 0 | | | 19 |
| 04:30 | 20 | 0 | | | 20 | 16:30 | 9 | 0 | | | 9 |
| 04:45 | 45 | 87 | 0 | | 132 | 16:45 | 11 | 63 | 0 | | 74 |
| 05:00 | 42 | 0 | | | 42 | 17:00 | 13 | 0 | | | 13 |
| 05:15 | 65 | 0 | | | 65 | 17:15 | 11 | 0 | | | 11 |
| 05:30 | 61 | 0 | | | 61 | 17:30 | 21 | 0 | | | 21 |
| 05:45 | 52 | 220 | 0 | | 272 | 17:45 | 20 | 65 | 0 | | 85 |
| 06:00 | 55 | 0 | | | 55 | 18:00 | 27 | 0 | | | 27 |
| 06:15 | 37 | 0 | | | 37 | 18:15 | 20 | 0 | | | 20 |
| 06:30 | 43 | 0 | | | 43 | 18:30 | 29 | 0 | | | 29 |
| 06:45 | 31 | 166 | 0 | | 197 | 18:45 | 33 | 109 | 0 | | 142 |
| 07:00 | 22 | 0 | | | 22 | 19:00 | 22 | 0 | | | 22 |
| 07:15 | 9 | 0 | | | 9 | 19:15 | 19 | 0 | | | 19 |
| 07:30 | 12 | 0 | | | 12 | 19:30 | 30 | 0 | | | 30 |
| 07:45 | 5 | 48 | 0 | | 53 | 19:45 | 31 | 102 | 0 | | 133 |
| 08:00 | 10 | 0 | | | 10 | 20:00 | 33 | 0 | | | 33 |
| 08:15 | 16 | 0 | | | 16 | 20:15 | 28 | 0 | | | 28 |
| 08:30 | 16 | 0 | | | 16 | 20:30 | 28 | 0 | | | 28 |
| 08:45 | 18 | 60 | 0 | | 78 | 20:45 | 24 | 113 | 0 | | 137 |
| 09:00 | 13 | 0 | | | 13 | 21:00 | 25 | 0 | | | 25 |
| 09:15 | 9 | 0 | | | 9 | 21:15 | 24 | 0 | | | 24 |
| 09:30 | 11 | 0 | | | 11 | 21:30 | 5 | 0 | | | 5 |
| 09:45 | 9 | 42 | 0 | | 51 | 21:45 | 4 | 58 | 0 | | 62 |
| 10:00 | 14 | 0 | | | 14 | 22:00 | 4 | 0 | | | 4 |
| 10:15 | 10 | 0 | | | 10 | 22:15 | 1 | 0 | | | 1 |
| 10:30 | 12 | 0 | | | 12 | 22:30 | 4 | 0 | | | 4 |
| 10:45 | 20 | 56 | 0 | | 76 | 22:45 | 2 | 11 | 0 | | 13 |
| 11:00 | 30 | 0 | | | 30 | 23:00 | 2 | 0 | | | 2 |
| 11:15 | 30 | 0 | | | 30 | 23:15 | 4 | 0 | | | 4 |
| 11:30 | 46 | 0 | | | 46 | 23:30 | 3 | 0 | | | 3 |
| 11:45 | 49 | 155 | 0 | | 204 | 23:45 | 2 | 11 | 0 | | 13 |
| TOTALS | 842 | 0 | 0 | 0 | 842 | TOTALS | 1156 | 0 | 0 | 0 | 1156 |
| SPLIT % | 100.0% | 0.0% | 0.0% | 0.0% | 42.1% | SPLIT % | 100.0% | 0.0% | 0.0% | 0.0% | 57.9% |

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total | |
|-----------------|-------|-------|-------|-------|-------|-----------------|-------|-------|-------|-------|
| | | | | | 1,998 | 0 | 0 | 0 | 1,998 | |
| AM Peak Hour | 05:15 | | | | 05:15 | PM Peak Hour | 12:15 | | 12:15 | |
| AM Pk Volume | 233 | | | | 233 | PM Pk Volume | 219 | | 219 | |
| Pk Hr Factor | 0.896 | | | | 0.896 | Pk Hr Factor | 0.944 | | 0.944 | |
| 7 - 9 Volume | 108 | 0 | 0 | 0 | 108 | 4 - 6 Volume | 128 | 0 | 0 | 128 |
| 7 - 9 Peak Hour | 08:00 | | | | 08:00 | 4 - 6 Peak Hour | 17:00 | | | 17:00 |
| 7 - 9 Pk Volume | 60 | 0 | 0 | 0 | 60 | 4 - 6 Pk Volume | 65 | 0 | 0 | 65 |
| Pk Hr Factor | 0.833 | 0.000 | 0.000 | 0.000 | 0.833 | Pk Hr Factor | 0.774 | 0.000 | 0.000 | 0.774 |

VOLUME

Airport Pkwy Dr Location #3

Day: Friday
Date: 12/1/2017

City: Clearwater
Project #: FL17_3500_003

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total | | |
|----------------|--------|-----|----|----|--------------|----------------|--------|-----|-------|----|--------------|
| | | | | | 2,013 | 0 | 0 | 0 | 2,013 | | |
| AM Period | NB | SB | EB | WB | TOTAL | PM Period | NB | SB | EB | WB | TOTAL |
| 00:00 | 0 | 0 | | | 0 | 12:00 | 57 | 0 | | | 57 |
| 00:15 | 0 | 0 | | | 0 | 12:15 | 38 | 0 | | | 38 |
| 00:30 | 0 | 0 | | | 0 | 12:30 | 62 | 0 | | | 62 |
| 00:45 | 0 | 0 | | | 0 | 12:45 | 66 | 223 | 0 | | 66 223 |
| 01:00 | 0 | 0 | | | 0 | 13:00 | 43 | 0 | | | 43 |
| 01:15 | 0 | 0 | | | 0 | 13:15 | 49 | 0 | | | 49 |
| 01:30 | 0 | 0 | | | 0 | 13:30 | 40 | 0 | | | 40 |
| 01:45 | 0 | 0 | | | 0 | 13:45 | 57 | 189 | 0 | | 57 189 |
| 02:00 | 0 | 0 | | | 0 | 14:00 | 42 | 0 | | | 42 |
| 02:15 | 0 | 0 | | | 0 | 14:15 | 24 | 0 | | | 24 |
| 02:30 | 2 | 0 | | | 2 | 14:30 | 16 | 0 | | | 16 |
| 02:45 | 0 | 2 | 0 | | 0 2 | 14:45 | 29 | 111 | 0 | | 29 111 |
| 03:00 | 0 | 0 | | | 0 | 15:00 | 15 | 0 | | | 15 |
| 03:15 | 2 | 0 | | | 2 | 15:15 | 29 | 0 | | | 29 |
| 03:30 | 1 | 0 | | | 1 | 15:30 | 18 | 0 | | | 18 |
| 03:45 | 2 | 5 | 0 | | 2 5 | 15:45 | 30 | 92 | 0 | | 30 92 |
| 04:00 | 5 | 0 | | | 5 | 16:00 | 27 | 0 | | | 27 |
| 04:15 | 3 | 0 | | | 3 | 16:15 | 27 | 0 | | | 27 |
| 04:30 | 13 | 0 | | | 13 | 16:30 | 30 | 0 | | | 30 |
| 04:45 | 34 | 55 | 0 | | 34 55 | 16:45 | 18 | 102 | 0 | | 18 102 |
| 05:00 | 59 | 0 | | | 59 | 17:00 | 21 | 0 | | | 21 |
| 05:15 | 64 | 0 | | | 64 | 17:15 | 21 | 0 | | | 21 |
| 05:30 | 62 | 0 | | | 62 | 17:30 | 25 | 0 | | | 25 |
| 05:45 | 56 | 241 | 0 | | 56 241 | 17:45 | 26 | 93 | 0 | | 26 93 |
| 06:00 | 52 | 0 | | | 52 | 18:00 | 27 | 0 | | | 27 |
| 06:15 | 35 | 0 | | | 35 | 18:15 | 34 | 0 | | | 34 |
| 06:30 | 39 | 0 | | | 39 | 18:30 | 32 | 0 | | | 32 |
| 06:45 | 34 | 160 | 0 | | 34 160 | 18:45 | 21 | 114 | 0 | | 21 114 |
| 07:00 | 14 | 0 | | | 14 | 19:00 | 23 | 0 | | | 23 |
| 07:15 | 9 | 0 | | | 9 | 19:15 | 22 | 0 | | | 22 |
| 07:30 | 2 | 0 | | | 2 | 19:30 | 14 | 0 | | | 14 |
| 07:45 | 8 | 33 | 0 | | 8 33 | 19:45 | 11 | 70 | 0 | | 11 70 |
| 08:00 | 5 | 0 | | | 5 | 20:00 | 12 | 0 | | | 12 |
| 08:15 | 4 | 0 | | | 4 | 20:15 | 13 | 0 | | | 13 |
| 08:30 | 9 | 0 | | | 9 | 20:30 | 17 | 0 | | | 17 |
| 08:45 | 6 | 24 | 0 | | 6 24 | 20:45 | 24 | 66 | 0 | | 24 66 |
| 09:00 | 5 | 0 | | | 5 | 21:00 | 20 | 0 | | | 20 |
| 09:15 | 9 | 0 | | | 9 | 21:15 | 14 | 0 | | | 14 |
| 09:30 | 18 | 0 | | | 18 | 21:30 | 23 | 0 | | | 23 |
| 09:45 | 15 | 47 | 0 | | 15 47 | 21:45 | 17 | 74 | 0 | | 17 74 |
| 10:00 | 17 | 0 | | | 17 | 22:00 | 26 | 0 | | | 26 |
| 10:15 | 19 | 0 | | | 19 | 22:15 | 12 | 0 | | | 12 |
| 10:30 | 18 | 0 | | | 18 | 22:30 | 17 | 0 | | | 17 |
| 10:45 | 26 | 80 | 0 | | 26 80 | 22:45 | 10 | 65 | 0 | | 10 65 |
| 11:00 | 35 | 0 | | | 35 | 23:00 | 3 | 0 | | | 3 |
| 11:15 | 28 | 0 | | | 28 | 23:15 | 1 | 0 | | | 1 |
| 11:30 | 40 | 0 | | | 40 | 23:30 | 3 | 0 | | | 3 |
| 11:45 | 55 | 158 | 0 | | 55 158 | 23:45 | 2 | 9 | 0 | | 2 9 |
| TOTALS | 805 | | | | 805 | TOTALS | 1208 | | | | 1208 |
| SPLIT % | 100.0% | | | | 40.0% | SPLIT % | 100.0% | | | | 60.0% |

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total | |
|-----------------|-------|-------|-------|-------|-------|-----------------|-------|-------|-------|-------|
| | | | | | 2,013 | 0 | 0 | 0 | 2,013 | |
| AM Peak Hour | 05:00 | | | | 05:00 | PM Peak Hour | 12:00 | | | 12:00 |
| AM Pk Volume | 241 | | | | 241 | PM Pk Volume | 223 | | | 223 |
| Pk Hr Factor | 0.941 | | | | 0.941 | Pk Hr Factor | 0.845 | | | 0.845 |
| 7 - 9 Volume | 57 | 0 | 0 | 0 | 57 | 4 - 6 Volume | 195 | 0 | 0 | 195 |
| 7 - 9 Peak Hour | 07:00 | | | | 07:00 | 4 - 6 Peak Hour | 16:00 | | | 16:00 |
| 7 - 9 Pk Volume | 33 | 0 | 0 | 0 | 33 | 4 - 6 Pk Volume | 102 | 0 | 0 | 102 |
| Pk Hr Factor | 0.589 | 0.000 | 0.000 | 0.000 | 0.589 | Pk Hr Factor | 0.850 | 0.000 | 0.000 | 0.850 |

VOLUME

Airport Pkwy Dr Location #3

Day: Saturday
Date: 12/2/2017City: Clearwater
Project #: FL17_3500_003

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total | | |
|----------------|--------|-----|----|----|--------------|----------------|--------|-----|-------|----|--------------|
| | | | | | 1,424 | 0 | 0 | 0 | 1,424 | | |
| AM Period | NB | SB | EB | WB | TOTAL | PM Period | NB | SB | EB | WB | TOTAL |
| 00:00 | 0 | 0 | | | 0 | 12:00 | 32 | 0 | | | 32 |
| 00:15 | 0 | 0 | | | 0 | 12:15 | 32 | 0 | | | 32 |
| 00:30 | 0 | 0 | | | 0 | 12:30 | 40 | 0 | | | 40 |
| 00:45 | 0 | 0 | | | 0 | 12:45 | 46 | 150 | 0 | | 196 |
| 01:00 | 0 | 0 | | | 0 | 13:00 | 65 | 0 | | | 65 |
| 01:15 | 0 | 0 | | | 0 | 13:15 | 68 | 0 | | | 68 |
| 01:30 | 0 | 0 | | | 0 | 13:30 | 60 | 0 | | | 60 |
| 01:45 | 0 | 0 | | | 0 | 13:45 | 48 | 241 | 0 | | 289 |
| 02:00 | 0 | 0 | | | 0 | 14:00 | 28 | 0 | | | 28 |
| 02:15 | 0 | 0 | | | 0 | 14:15 | 22 | 0 | | | 22 |
| 02:30 | 0 | 0 | | | 0 | 14:30 | 15 | 0 | | | 15 |
| 02:45 | 0 | 0 | | | 0 | 14:45 | 9 | 74 | 0 | | 83 |
| 03:00 | 0 | 0 | | | 0 | 15:00 | 8 | 0 | | | 8 |
| 03:15 | 0 | 0 | | | 0 | 15:15 | 14 | 0 | | | 14 |
| 03:30 | 1 | 0 | | | 1 | 15:30 | 12 | 0 | | | 12 |
| 03:45 | 3 | 4 | 0 | | 7 | 15:45 | 14 | 48 | 0 | | 62 |
| 04:00 | 2 | 0 | | | 2 | 16:00 | 13 | 0 | | | 13 |
| 04:15 | 6 | 0 | | | 6 | 16:15 | 29 | 0 | | | 29 |
| 04:30 | 22 | 0 | | | 22 | 16:30 | 17 | 0 | | | 17 |
| 04:45 | 48 | 78 | 0 | | 126 | 16:45 | 24 | 83 | 0 | | 107 |
| 05:00 | 38 | 0 | | | 38 | 17:00 | 11 | 0 | | | 11 |
| 05:15 | 49 | 0 | | | 49 | 17:15 | 13 | 0 | | | 13 |
| 05:30 | 50 | 0 | | | 50 | 17:30 | 10 | 0 | | | 10 |
| 05:45 | 34 | 171 | 0 | | 205 | 17:45 | 7 | 41 | 0 | | 48 |
| 06:00 | 13 | 0 | | | 13 | 18:00 | 13 | 0 | | | 13 |
| 06:15 | 10 | 0 | | | 10 | 18:15 | 11 | 0 | | | 11 |
| 06:30 | 8 | 0 | | | 8 | 18:30 | 9 | 0 | | | 9 |
| 06:45 | 3 | 34 | 0 | | 37 | 18:45 | 15 | 48 | 0 | | 63 |
| 07:00 | 5 | 0 | | | 5 | 19:00 | 3 | 0 | | | 3 |
| 07:15 | 8 | 0 | | | 8 | 19:15 | 4 | 0 | | | 4 |
| 07:30 | 7 | 0 | | | 7 | 19:30 | 13 | 0 | | | 13 |
| 07:45 | 18 | 38 | 0 | | 56 | 19:45 | 18 | 38 | 0 | | 56 |
| 08:00 | 11 | 0 | | | 11 | 20:00 | 11 | 0 | | | 11 |
| 08:15 | 17 | 0 | | | 17 | 20:15 | 16 | 0 | | | 16 |
| 08:30 | 24 | 0 | | | 24 | 20:30 | 19 | 0 | | | 19 |
| 08:45 | 14 | 66 | 0 | | 80 | 20:45 | 23 | 69 | 0 | | 92 |
| 09:00 | 7 | 0 | | | 7 | 21:00 | 22 | 0 | | | 22 |
| 09:15 | 15 | 0 | | | 15 | 21:15 | 20 | 0 | | | 20 |
| 09:30 | 9 | 0 | | | 9 | 21:30 | 22 | 0 | | | 22 |
| 09:45 | 10 | 41 | 0 | | 51 | 21:45 | 12 | 76 | 0 | | 88 |
| 10:00 | 7 | 0 | | | 7 | 22:00 | 5 | 0 | | | 5 |
| 10:15 | 14 | 0 | | | 14 | 22:15 | 5 | 0 | | | 5 |
| 10:30 | 17 | 0 | | | 17 | 22:30 | 3 | 0 | | | 3 |
| 10:45 | 11 | 49 | 0 | | 60 | 22:45 | 1 | 14 | 0 | | 15 |
| 11:00 | 14 | 0 | | | 14 | 23:00 | 1 | 0 | | | 1 |
| 11:15 | 11 | 0 | | | 11 | 23:15 | 0 | 0 | | | 0 |
| 11:30 | 18 | 0 | | | 18 | 23:30 | 0 | 0 | | | 0 |
| 11:45 | 16 | 59 | 0 | | 75 | 23:45 | 1 | 2 | 0 | | 3 |
| TOTALS | 540 | | | | 540 | TOTALS | 884 | | | | 884 |
| SPLIT % | 100.0% | | | | 37.9% | SPLIT % | 100.0% | | | | 62.1% |

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total | |
|-----------------|-------|-------|-------|-------|-------|-----------------|-------|-------|-------|-------|
| | | | | | 1,424 | 0 | 0 | 0 | 1,424 | |
| AM Peak Hour | 04:45 | | | | 04:45 | PM Peak Hour | 13:00 | | 13:00 | |
| AM Pk Volume | 185 | | | | 185 | PM Pk Volume | 241 | | 241 | |
| Pk Hr Factor | 0.925 | | | | 0.925 | Pk Hr Factor | 0.886 | | 0.886 | |
| 7 - 9 Volume | 104 | 0 | 0 | 0 | 104 | 4 - 6 Volume | 124 | 0 | 0 | 124 |
| 7 - 9 Peak Hour | 07:45 | | | | 07:45 | 4 - 6 Peak Hour | 16:00 | | | 16:00 |
| 7 - 9 Pk Volume | 70 | 0 | 0 | 0 | 70 | 4 - 6 Pk Volume | 83 | 0 | 0 | 83 |
| Pk Hr Factor | 0.729 | 0.000 | 0.000 | 0.000 | 0.729 | Pk Hr Factor | 0.716 | 0.000 | 0.000 | 0.716 |

VOLUME

Airport Pkwy Dr Location #3

Day: Sunday
Date: 12/3/2017City: Clearwater
Project #: FL17_3500_003

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total | | |
|----------------|--------|-----|----|----|--------------|----------------|--------|-----|-------|----|--------------|
| | | | | | 1,940 | 0 | 0 | 0 | 1,940 | | |
| AM Period | NB | SB | EB | WB | TOTAL | PM Period | NB | SB | EB | WB | TOTAL |
| 00:00 | 0 | 0 | | | 0 | 12:00 | 62 | 0 | | | 62 |
| 00:15 | 1 | 0 | | | 1 | 12:15 | 70 | 0 | | | 70 |
| 00:30 | 1 | 0 | | | 1 | 12:30 | 61 | 0 | | | 61 |
| 00:45 | 0 | 2 | 0 | | 0 | 12:45 | 62 | 255 | 0 | | 62 |
| 01:00 | 1 | 0 | | | 1 | 13:00 | 66 | 0 | | | 66 |
| 01:15 | 0 | 0 | | | 0 | 13:15 | 55 | 0 | | | 55 |
| 01:30 | 0 | 0 | | | 0 | 13:30 | 32 | 0 | | | 32 |
| 01:45 | 1 | 2 | 0 | | 1 | 13:45 | 23 | 176 | 0 | | 23 |
| 02:00 | 0 | 0 | | | 0 | 14:00 | 35 | 0 | | | 35 |
| 02:15 | 0 | 0 | | | 0 | 14:15 | 29 | 0 | | | 29 |
| 02:30 | 0 | 0 | | | 0 | 14:30 | 19 | 0 | | | 19 |
| 02:45 | 0 | 0 | | | 0 | 14:45 | 13 | 96 | 0 | | 13 |
| 03:00 | 0 | 0 | | | 0 | 15:00 | 17 | 0 | | | 17 |
| 03:15 | 1 | 0 | | | 1 | 15:15 | 19 | 0 | | | 19 |
| 03:30 | 1 | 0 | | | 1 | 15:30 | 23 | 0 | | | 23 |
| 03:45 | 2 | 4 | 0 | | 2 | 15:45 | 10 | 69 | 0 | | 10 |
| 04:00 | 4 | 0 | | | 4 | 16:00 | 22 | 0 | | | 22 |
| 04:15 | 11 | 0 | | | 11 | 16:15 | 26 | 0 | | | 26 |
| 04:30 | 20 | 0 | | | 20 | 16:30 | 16 | 0 | | | 16 |
| 04:45 | 34 | 69 | 0 | | 34 | 16:45 | 14 | 78 | 0 | | 14 |
| 05:00 | 47 | 0 | | | 47 | 17:00 | 13 | 0 | | | 13 |
| 05:15 | 48 | 0 | | | 48 | 17:15 | 16 | 0 | | | 16 |
| 05:30 | 66 | 0 | | | 66 | 17:30 | 28 | 0 | | | 28 |
| 05:45 | 54 | 215 | 0 | | 54 | 17:45 | 24 | 81 | 0 | | 24 |
| 06:00 | 55 | 0 | | | 55 | 18:00 | 23 | 0 | | | 23 |
| 06:15 | 51 | 0 | | | 51 | 18:15 | 36 | 0 | | | 36 |
| 06:30 | 47 | 0 | | | 47 | 18:30 | 33 | 0 | | | 33 |
| 06:45 | 28 | 181 | 0 | | 28 | 18:45 | 20 | 112 | 0 | | 20 |
| 07:00 | 34 | 0 | | | 34 | 19:00 | 22 | 0 | | | 22 |
| 07:15 | 8 | 0 | | | 8 | 19:15 | 23 | 0 | | | 23 |
| 07:30 | 15 | 0 | | | 15 | 19:30 | 40 | 0 | | | 40 |
| 07:45 | 12 | 69 | 0 | | 12 | 19:45 | 31 | 116 | 0 | | 31 |
| 08:00 | 8 | 0 | | | 8 | 20:00 | 27 | 0 | | | 27 |
| 08:15 | 7 | 0 | | | 7 | 20:15 | 28 | 0 | | | 28 |
| 08:30 | 11 | 0 | | | 11 | 20:30 | 24 | 0 | | | 24 |
| 08:45 | 6 | 32 | 0 | | 6 | 20:45 | 14 | 93 | 0 | | 14 |
| 09:00 | 4 | 0 | | | 4 | 21:00 | 23 | 0 | | | 23 |
| 09:15 | 3 | 0 | | | 3 | 21:15 | 8 | 0 | | | 8 |
| 09:30 | 8 | 0 | | | 8 | 21:30 | 4 | 0 | | | 4 |
| 09:45 | 6 | 21 | 0 | | 6 | 21:45 | 8 | 43 | 0 | | 8 |
| 10:00 | 3 | 0 | | | 3 | 22:00 | 5 | 0 | | | 5 |
| 10:15 | 12 | 0 | | | 12 | 22:15 | 0 | 0 | | | 0 |
| 10:30 | 11 | 0 | | | 11 | 22:30 | 9 | 0 | | | 9 |
| 10:45 | 14 | 40 | 0 | | 14 | 22:45 | 8 | 22 | 0 | | 8 |
| 11:00 | 19 | 0 | | | 19 | 23:00 | 4 | 0 | | | 4 |
| 11:15 | 35 | 0 | | | 35 | 23:15 | 1 | 0 | | | 1 |
| 11:30 | 40 | 0 | | | 40 | 23:30 | 2 | 0 | | | 2 |
| 11:45 | 63 | 157 | 0 | | 63 | 23:45 | 0 | 7 | 0 | | 0 |
| TOTALS | 792 | | | | 792 | TOTALS | 1148 | | | | 1148 |
| SPLIT % | 100.0% | | | | 40.8% | SPLIT % | 100.0% | | | | 59.2% |

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total |
|-----------------|-------|-------|-------|-------|-------|-----------------|-------|-------|-------|
| | | | | | 1,940 | 0 | 0 | 0 | 1,940 |
| AM Peak Hour | 11:45 | | | | 11:45 | | | | 12:15 |
| AM Pk Volume | 256 | | | | 256 | | | | 259 |
| Pk Hr Factor | 0.914 | | | | 0.914 | | | | 0.925 |
| 7 - 9 Volume | 101 | 0 | 0 | 0 | 101 | 4 - 6 Volume | 159 | 0 | 0 |
| 7 - 9 Peak Hour | 07:00 | | | | 07:00 | 4 - 6 Peak Hour | 17:00 | | |
| 7 - 9 Pk Volume | 69 | 0 | 0 | 0 | 69 | 4 - 6 Pk Volume | 81 | 0 | 0 |
| Pk Hr Factor | 0.507 | 0.000 | 0.000 | 0.000 | 0.507 | Pk Hr Factor | 0.723 | 0.000 | 0.000 |

VOLUME

Airport Pkwy Dr Location #3

Day: Monday
Date: 12/4/2017City: Clearwater
Project #: FL17_3500_003

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total | | |
|----------------|--------|-----|----|----|--------------|----------------|--------|-----|-------|----|--------------|
| | | | | | 2,012 | 0 | 0 | 0 | 2,012 | | |
| AM Period | NB | SB | EB | WB | TOTAL | PM Period | NB | SB | EB | WB | TOTAL |
| 00:00 | 0 | 0 | | | 0 | 12:00 | 59 | 0 | | | 59 |
| 00:15 | 0 | 0 | | | 0 | 12:15 | 54 | 0 | | | 54 |
| 00:30 | 2 | 0 | | | 2 | 12:30 | 68 | 0 | | | 68 |
| 00:45 | 0 | 2 | 0 | | 0 | 12:45 | 78 | 259 | 0 | | 78 |
| 01:00 | 1 | 0 | | | 1 | 13:00 | 55 | 0 | | | 55 |
| 01:15 | 0 | 0 | | | 0 | 13:15 | 41 | 0 | | | 41 |
| 01:30 | 0 | 0 | | | 0 | 13:30 | 30 | 0 | | | 30 |
| 01:45 | 0 | 1 | 0 | | 0 | 13:45 | 27 | 153 | 0 | | 27 |
| 02:00 | 0 | 0 | | | 0 | 14:00 | 18 | 0 | | | 18 |
| 02:15 | 1 | 0 | | | 1 | 14:15 | 15 | 0 | | | 15 |
| 02:30 | 0 | 0 | | | 0 | 14:30 | 16 | 0 | | | 16 |
| 02:45 | 0 | 1 | 0 | | 0 | 14:45 | 16 | 65 | 0 | | 16 |
| 03:00 | 0 | 0 | | | 0 | 15:00 | 18 | 0 | | | 18 |
| 03:15 | 0 | 0 | | | 0 | 15:15 | 33 | 0 | | | 33 |
| 03:30 | 2 | 0 | | | 2 | 15:30 | 40 | 0 | | | 40 |
| 03:45 | 2 | 4 | 0 | | 2 | 15:45 | 41 | 132 | 0 | | 41 |
| 04:00 | 3 | 0 | | | 3 | 16:00 | 42 | 0 | | | 42 |
| 04:15 | 7 | 0 | | | 7 | 16:15 | 41 | 0 | | | 41 |
| 04:30 | 6 | 0 | | | 6 | 16:30 | 31 | 0 | | | 31 |
| 04:45 | 21 | 37 | 0 | | 21 | 16:45 | 39 | 153 | 0 | | 39 |
| 05:00 | 32 | 0 | | | 32 | 17:00 | 31 | 0 | | | 31 |
| 05:15 | 59 | 0 | | | 59 | 17:15 | 23 | 0 | | | 23 |
| 05:30 | 56 | 0 | | | 56 | 17:30 | 33 | 0 | | | 33 |
| 05:45 | 45 | 192 | 0 | | 45 | 17:45 | 30 | 117 | 0 | | 30 |
| 06:00 | 62 | 0 | | | 62 | 18:00 | 23 | 0 | | | 23 |
| 06:15 | 43 | 0 | | | 43 | 18:15 | 27 | 0 | | | 27 |
| 06:30 | 30 | 0 | | | 30 | 18:30 | 18 | 0 | | | 18 |
| 06:45 | 23 | 158 | 0 | | 23 | 18:45 | 15 | 83 | 0 | | 15 |
| 07:00 | 17 | 0 | | | 17 | 19:00 | 10 | 0 | | | 10 |
| 07:15 | 17 | 0 | | | 17 | 19:15 | 19 | 0 | | | 19 |
| 07:30 | 18 | 0 | | | 18 | 19:30 | 18 | 0 | | | 18 |
| 07:45 | 13 | 65 | 0 | | 13 | 19:45 | 9 | 56 | 0 | | 9 |
| 08:00 | 6 | 0 | | | 6 | 20:00 | 7 | 0 | | | 7 |
| 08:15 | 7 | 0 | | | 7 | 20:15 | 7 | 0 | | | 7 |
| 08:30 | 10 | 0 | | | 10 | 20:30 | 5 | 0 | | | 5 |
| 08:45 | 10 | 33 | 0 | | 10 | 20:45 | 3 | 22 | 0 | | 3 |
| 09:00 | 16 | 0 | | | 16 | 21:00 | 8 | 0 | | | 8 |
| 09:15 | 25 | 0 | | | 25 | 21:15 | 8 | 0 | | | 8 |
| 09:30 | 15 | 0 | | | 15 | 21:30 | 20 | 0 | | | 20 |
| 09:45 | 16 | 72 | 0 | | 16 | 21:45 | 24 | 60 | 0 | | 24 |
| 10:00 | 23 | 0 | | | 23 | 22:00 | 24 | 0 | | | 24 |
| 10:15 | 21 | 0 | | | 21 | 22:15 | 16 | 0 | | | 16 |
| 10:30 | 31 | 0 | | | 31 | 22:30 | 30 | 0 | | | 30 |
| 10:45 | 26 | 101 | 0 | | 26 | 22:45 | 21 | 91 | 0 | | 21 |
| 11:00 | 25 | 0 | | | 25 | 23:00 | 5 | 0 | | | 5 |
| 11:15 | 35 | 0 | | | 35 | 23:15 | 3 | 0 | | | 3 |
| 11:30 | 40 | 0 | | | 40 | 23:30 | 1 | 0 | | | 1 |
| 11:45 | 46 | 146 | 0 | | 46 | 23:45 | 0 | 9 | 0 | | 0 |
| TOTALS | 812 | | | | 812 | TOTALS | 1200 | | | | 1200 |
| SPLIT % | 100.0% | | | | 40.4% | SPLIT % | 100.0% | | | | 59.6% |

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total | |
|-----------------|-------|-------|-------|-------|-------|-----------------|-------|-------|-------|-------|
| | | | | | 2,012 | 0 | 0 | 0 | 2,012 | |
| AM Peak Hour | 11:45 | | | | 11:45 | | | | 12:00 | |
| AM Pk Volume | 227 | | | | 227 | | | | 259 | |
| Pk Hr Factor | 0.835 | | | | 0.835 | | | | 0.830 | |
| 7 - 9 Volume | 98 | 0 | 0 | 0 | 98 | 4 - 6 Volume | 270 | 0 | 0 | 270 |
| 7 - 9 Peak Hour | 07:00 | | | | 07:00 | 4 - 6 Peak Hour | 16:00 | | | 16:00 |
| 7 - 9 Pk Volume | 65 | 0 | 0 | 0 | 65 | 4 - 6 Pk Volume | 153 | 0 | 0 | 153 |
| Pk Hr Factor | 0.903 | 0.000 | 0.000 | 0.000 | 0.903 | Pk Hr Factor | 0.911 | 0.000 | 0.000 | 0.911 |

VOLUME

Airport Pkwy Dr Location #3

Day: Tuesday
Date: 12/5/2017

City: Clearwater
Project #: FL17_3500_003

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total |
|--------------|--|--|--|--|-----|----|----|----|-------|
| | | | | | 526 | 0 | 0 | 0 | 526 |

| AM Period | NB | SB | EB | WB | TOTAL | PM Period | NB | SB | EB | WB | TOTAL |
|----------------|--------|----|----|----|--------------|----------------|--------|----|----|----|--------------|
| 00:00 | 0 | 0 | | | 0 | 12:00 | 13 | 0 | | | 13 |
| 00:15 | 0 | 0 | | | 0 | 12:15 | 8 | 0 | | | 8 |
| 00:30 | 0 | 0 | | | 0 | 12:30 | 3 | 0 | | | 3 |
| 00:45 | 2 | 2 | 0 | | 2 | 12:45 | 2 | 26 | 0 | | 28 |
| 01:00 | 0 | 0 | | | 0 | 13:00 | 3 | 0 | | | 3 |
| 01:15 | 1 | 0 | | | 1 | 13:15 | 1 | 0 | | | 1 |
| 01:30 | 1 | 0 | | | 1 | 13:30 | 6 | 0 | | | 6 |
| 01:45 | 0 | 2 | 0 | | 0 | 13:45 | 10 | 20 | 0 | | 30 |
| 02:00 | 0 | 0 | | | 0 | 14:00 | 10 | 0 | | | 10 |
| 02:15 | 0 | 0 | | | 0 | 14:15 | 9 | 0 | | | 9 |
| 02:30 | 0 | 0 | | | 0 | 14:30 | 16 | 0 | | | 16 |
| 02:45 | 0 | 0 | | | 0 | 14:45 | 11 | 46 | 0 | | 57 |
| 03:00 | 0 | 0 | | | 0 | 15:00 | 8 | 0 | | | 8 |
| 03:15 | 0 | 0 | | | 0 | 15:15 | 11 | 0 | | | 11 |
| 03:30 | 0 | 0 | | | 0 | 15:30 | 8 | 0 | | | 8 |
| 03:45 | 2 | 2 | 0 | | 2 | 15:45 | 18 | 45 | 0 | | 63 |
| 04:00 | 1 | 0 | | | 1 | 16:00 | 12 | 0 | | | 12 |
| 04:15 | 2 | 0 | | | 2 | 16:15 | 16 | 0 | | | 16 |
| 04:30 | 4 | 0 | | | 4 | 16:30 | 16 | 0 | | | 16 |
| 04:45 | 8 | 15 | 0 | | 8 | 16:45 | 11 | 55 | 0 | | 66 |
| 05:00 | 6 | 0 | | | 6 | 17:00 | 4 | 0 | | | 4 |
| 05:15 | 8 | 0 | | | 8 | 17:15 | 6 | 0 | | | 6 |
| 05:30 | 2 | 0 | | | 2 | 17:30 | 5 | 0 | | | 5 |
| 05:45 | 7 | 23 | 0 | | 7 | 17:45 | 3 | 18 | 0 | | 21 |
| 06:00 | 7 | 0 | | | 7 | 18:00 | 5 | 0 | | | 5 |
| 06:15 | 8 | 0 | | | 8 | 18:15 | 6 | 0 | | | 6 |
| 06:30 | 7 | 0 | | | 7 | 18:30 | 4 | 0 | | | 4 |
| 06:45 | 14 | 36 | 0 | | 14 | 18:45 | 7 | 22 | 0 | | 29 |
| 07:00 | 16 | 0 | | | 16 | 19:00 | 6 | 0 | | | 6 |
| 07:15 | 5 | 0 | | | 5 | 19:15 | 11 | 0 | | | 11 |
| 07:30 | 10 | 0 | | | 10 | 19:30 | 6 | 0 | | | 6 |
| 07:45 | 3 | 34 | 0 | | 3 | 19:45 | 8 | 31 | 0 | | 39 |
| 08:00 | 4 | 0 | | | 4 | 20:00 | 13 | 0 | | | 13 |
| 08:15 | 7 | 0 | | | 7 | 20:15 | 16 | 0 | | | 16 |
| 08:30 | 5 | 0 | | | 5 | 20:30 | 6 | 0 | | | 6 |
| 08:45 | 11 | 27 | 0 | | 11 | 20:45 | 5 | 40 | 0 | | 45 |
| 09:00 | 5 | 0 | | | 5 | 21:00 | 4 | 0 | | | 4 |
| 09:15 | 4 | 0 | | | 4 | 21:15 | 3 | 0 | | | 3 |
| 09:30 | 6 | 0 | | | 6 | 21:30 | 6 | 0 | | | 6 |
| 09:45 | 2 | 17 | 0 | | 2 | 21:45 | 2 | 15 | 0 | | 17 |
| 10:00 | 4 | 0 | | | 4 | 22:00 | 1 | 0 | | | 1 |
| 10:15 | 2 | 0 | | | 2 | 22:15 | 0 | 0 | | | 0 |
| 10:30 | 3 | 0 | | | 3 | 22:30 | 1 | 0 | | | 1 |
| 10:45 | 5 | 14 | 0 | | 5 | 22:45 | 0 | 2 | 0 | | 2 |
| 11:00 | 9 | 0 | | | 9 | 23:00 | 1 | 0 | | | 1 |
| 11:15 | 3 | 0 | | | 3 | 23:15 | 1 | 0 | | | 1 |
| 11:30 | 8 | 0 | | | 8 | 23:30 | 0 | 0 | | | 0 |
| 11:45 | 12 | 32 | 0 | | 12 | 23:45 | 0 | 2 | 0 | | 2 |
| TOTALS | 204 | | | | 204 | TOTALS | 322 | | | | 322 |
| SPLIT % | 100.0% | | | | 38.8% | SPLIT % | 100.0% | | | | 61.2% |

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total |
|--------------|--|--|--|--|-----|----|----|----|-------|
| | | | | | 526 | 0 | 0 | 0 | 526 |

| | | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-----------------|-------|-------|-------|-------|-------|
| AM Peak Hour | 06:15 | | | | 06:15 | PM Peak Hour | 15:45 | | | | 15:45 |
| AM Pk Volume | 45 | | | | 45 | PM Pk Volume | 62 | | | | 62 |
| Pk Hr Factor | 0.703 | | | | 0.703 | Pk Hr Factor | 0.861 | | | | 0.861 |
| 7 - 9 Volume | 61 | 0 | 0 | 0 | 61 | 4 - 6 Volume | 73 | 0 | 0 | 0 | 73 |
| 7 - 9 Peak Hour | 07:00 | | | | 07:00 | 4 - 6 Peak Hour | 16:00 | | | | 16:00 |
| 7 - 9 Pk Volume | 34 | 0 | 0 | 0 | 34 | 4 - 6 Pk Volume | 55 | 0 | 0 | 0 | 55 |
| Pk Hr Factor | 0.531 | 0.000 | 0.000 | 0.000 | 0.531 | Pk Hr Factor | 0.859 | 0.000 | 0.000 | 0.000 | 0.859 |

VOLUME

Airport Pkwy Dr Location #3

Day: Wednesday
Date: 12/6/2017

City: Clearwater
Project #: FL17_3500_003

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total | | |
|----------------|--------|-----|----|----|--------------|----------------|--------|-----|-------|----|--------------|
| | | | | | 1,014 | 0 | 0 | 0 | 1,014 | | |
| AM Period | NB | SB | EB | WB | TOTAL | PM Period | NB | SB | EB | WB | TOTAL |
| 00:00 | 0 | 0 | | | 0 | 12:00 | 22 | 0 | | | 22 |
| 00:15 | 2 | 0 | | | 2 | 12:15 | 38 | 0 | | | 38 |
| 00:30 | 0 | 0 | | | 0 | 12:30 | 50 | 0 | | | 50 |
| 00:45 | 0 | 2 | 0 | | 0 | 12:45 | 52 | 162 | 0 | | 52 |
| 01:00 | 0 | 0 | | | 0 | 13:00 | 46 | 0 | | | 46 |
| 01:15 | 3 | 0 | | | 3 | 13:15 | 40 | 0 | | | 40 |
| 01:30 | 1 | 0 | | | 1 | 13:30 | 32 | 0 | | | 32 |
| 01:45 | 2 | 6 | 0 | | 2 | 13:45 | 24 | 142 | 0 | | 24 |
| 02:00 | 1 | 0 | | | 1 | 14:00 | 22 | 0 | | | 22 |
| 02:15 | 0 | 0 | | | 0 | 14:15 | 17 | 0 | | | 17 |
| 02:30 | 3 | 0 | | | 3 | 14:30 | 20 | 0 | | | 20 |
| 02:45 | 0 | 4 | 0 | | 0 | 14:45 | 12 | 71 | 0 | | 12 |
| 03:00 | 1 | 0 | | | 1 | 15:00 | 9 | 0 | | | 9 |
| 03:15 | 0 | 0 | | | 0 | 15:15 | 7 | 0 | | | 7 |
| 03:30 | 1 | 0 | | | 1 | 15:30 | 12 | 0 | | | 12 |
| 03:45 | 2 | 4 | 0 | | 2 | 15:45 | 9 | 37 | 0 | | 9 |
| 04:00 | 7 | 0 | | | 7 | 16:00 | 8 | 0 | | | 8 |
| 04:15 | 9 | 0 | | | 9 | 16:15 | 10 | 0 | | | 10 |
| 04:30 | 20 | 0 | | | 20 | 16:30 | 7 | 0 | | | 7 |
| 04:45 | 27 | 63 | 0 | | 27 | 16:45 | 7 | 32 | 0 | | 7 |
| 05:00 | 42 | 0 | | | 42 | 17:00 | 2 | 0 | | | 2 |
| 05:15 | 42 | 0 | | | 42 | 17:15 | 3 | 0 | | | 3 |
| 05:30 | 24 | 0 | | | 24 | 17:30 | 3 | 0 | | | 3 |
| 05:45 | 9 | 117 | 0 | | 9 | 17:45 | 4 | 12 | 0 | | 4 |
| 06:00 | 8 | 0 | | | 8 | 18:00 | 3 | 0 | | | 3 |
| 06:15 | 2 | 0 | | | 2 | 18:15 | 3 | 0 | | | 3 |
| 06:30 | 1 | 0 | | | 1 | 18:30 | 7 | 0 | | | 7 |
| 06:45 | 0 | 11 | 0 | | 0 | 18:45 | 4 | 17 | 0 | | 4 |
| 07:00 | 4 | 0 | | | 4 | 19:00 | 7 | 0 | | | 7 |
| 07:15 | 3 | 0 | | | 3 | 19:15 | 13 | 0 | | | 13 |
| 07:30 | 3 | 0 | | | 3 | 19:30 | 23 | 0 | | | 23 |
| 07:45 | 6 | 16 | 0 | | 6 | 19:45 | 24 | 67 | 0 | | 24 |
| 08:00 | 3 | 0 | | | 3 | 20:00 | 16 | 0 | | | 16 |
| 08:15 | 2 | 0 | | | 2 | 20:15 | 14 | 0 | | | 14 |
| 08:30 | 2 | 0 | | | 2 | 20:30 | 8 | 0 | | | 8 |
| 08:45 | 5 | 12 | 0 | | 5 | 20:45 | 11 | 49 | 0 | | 11 |
| 09:00 | 3 | 0 | | | 3 | 21:00 | 9 | 0 | | | 9 |
| 09:15 | 6 | 0 | | | 6 | 21:15 | 13 | 0 | | | 13 |
| 09:30 | 2 | 0 | | | 2 | 21:30 | 8 | 0 | | | 8 |
| 09:45 | 3 | 14 | 0 | | 3 | 21:45 | 2 | 32 | 0 | | 2 |
| 10:00 | 3 | 0 | | | 3 | 22:00 | 16 | 0 | | | 16 |
| 10:15 | 7 | 0 | | | 7 | 22:15 | 9 | 0 | | | 9 |
| 10:30 | 8 | 0 | | | 8 | 22:30 | 8 | 0 | | | 8 |
| 10:45 | 19 | 37 | 0 | | 19 | 22:45 | 5 | 38 | 0 | | 5 |
| 11:00 | 8 | 0 | | | 8 | 23:00 | 5 | 0 | | | 5 |
| 11:15 | 17 | 0 | | | 17 | 23:15 | 3 | 0 | | | 3 |
| 11:30 | 15 | 0 | | | 15 | 23:30 | 0 | 0 | | | 0 |
| 11:45 | 20 | 60 | 0 | | 20 | 23:45 | 1 | 9 | 0 | | 1 |
| TOTALS | 346 | | | | 346 | TOTALS | 668 | | | | 668 |
| SPLIT % | 100.0% | | | | 34.1% | SPLIT % | 100.0% | | | | 65.9% |

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total | |
|-----------------|-------|-------|-------|-------|-------|-----------------|-------|-------|-------|-------|
| | | | | | 1,014 | 0 | 0 | 0 | 1,014 | |
| AM Peak Hour | 04:45 | | | | 04:45 | | | | 12:30 | |
| AM Pk Volume | 135 | | | | 135 | | | | 188 | |
| Pk Hr Factor | 0.804 | | | | 0.804 | | | | 0.904 | |
| 7 - 9 Volume | 28 | 0 | 0 | 0 | 28 | 4 - 6 Volume | 44 | 0 | 0 | 44 |
| 7 - 9 Peak Hour | 07:00 | | | | 07:00 | 4 - 6 Peak Hour | 16:00 | | | 16:00 |
| 7 - 9 Pk Volume | 16 | 0 | 0 | 0 | 16 | 4 - 6 Pk Volume | 32 | 0 | 0 | 32 |
| Pk Hr Factor | 0.667 | 0.000 | 0.000 | 0.000 | 0.667 | Pk Hr Factor | 0.800 | 0.000 | 0.000 | 0.800 |

VOLUME

Airport Pkwy Dr Location #4

Day: Thursday
Date: 11/30/2017City: Clearwater
Project #: FL17_3500_004

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total | | |
|----------------|--------|-----|----|----|--------------|----------------|--------|-----|-------|----|--------------|
| | | | | | 4,188 | 0 | 0 | 0 | 4,188 | | |
| AM Period | NB | SB | EB | WB | TOTAL | PM Period | NB | SB | EB | WB | TOTAL |
| 00:00 | 2 | 0 | | | 2 | 12:00 | 123 | 0 | | | 123 |
| 00:15 | 0 | 0 | | | 0 | 12:15 | 113 | 0 | | | 113 |
| 00:30 | 2 | 0 | | | 2 | 12:30 | 120 | 0 | | | 120 |
| 00:45 | 0 | 4 | 0 | | 4 | 12:45 | 111 | 467 | 0 | | 467 |
| 01:00 | 1 | 0 | | | 1 | 13:00 | 135 | 0 | | | 135 |
| 01:15 | 2 | 0 | | | 2 | 13:15 | 133 | 0 | | | 133 |
| 01:30 | 2 | 0 | | | 2 | 13:30 | 115 | 0 | | | 115 |
| 01:45 | 1 | 6 | 0 | | 7 | 13:45 | 86 | 469 | 0 | | 469 |
| 02:00 | 0 | 0 | | | 0 | 14:00 | 60 | 0 | | | 60 |
| 02:15 | 1 | 0 | | | 1 | 14:15 | 78 | 0 | | | 78 |
| 02:30 | 1 | 0 | | | 1 | 14:30 | 56 | 0 | | | 56 |
| 02:45 | 3 | 5 | 0 | | 8 | 14:45 | 62 | 256 | 0 | | 256 |
| 03:00 | 3 | 0 | | | 3 | 15:00 | 45 | 0 | | | 45 |
| 03:15 | 4 | 0 | | | 4 | 15:15 | 64 | 0 | | | 64 |
| 03:30 | 4 | 0 | | | 4 | 15:30 | 33 | 0 | | | 33 |
| 03:45 | 15 | 26 | 0 | | 41 | 15:45 | 41 | 183 | 0 | | 183 |
| 04:00 | 11 | 0 | | | 11 | 16:00 | 48 | 0 | | | 48 |
| 04:15 | 33 | 0 | | | 33 | 16:15 | 33 | 0 | | | 33 |
| 04:30 | 33 | 0 | | | 33 | 16:30 | 32 | 0 | | | 32 |
| 04:45 | 75 | 152 | 0 | | 227 | 16:45 | 28 | 141 | 0 | | 141 |
| 05:00 | 81 | 0 | | | 81 | 17:00 | 29 | 0 | | | 29 |
| 05:15 | 107 | 0 | | | 107 | 17:15 | 22 | 0 | | | 22 |
| 05:30 | 126 | 0 | | | 126 | 17:30 | 43 | 0 | | | 43 |
| 05:45 | 106 | 420 | 0 | | 526 | 17:45 | 43 | 137 | 0 | | 137 |
| 06:00 | 100 | 0 | | | 100 | 18:00 | 38 | 0 | | | 38 |
| 06:15 | 76 | 0 | | | 76 | 18:15 | 49 | 0 | | | 49 |
| 06:30 | 62 | 0 | | | 62 | 18:30 | 48 | 0 | | | 48 |
| 06:45 | 79 | 317 | 0 | | 396 | 18:45 | 51 | 186 | 0 | | 186 |
| 07:00 | 46 | 0 | | | 46 | 19:00 | 38 | 0 | | | 38 |
| 07:15 | 30 | 0 | | | 30 | 19:15 | 35 | 0 | | | 35 |
| 07:30 | 27 | 0 | | | 27 | 19:30 | 60 | 0 | | | 60 |
| 07:45 | 16 | 119 | 0 | | 135 | 19:45 | 66 | 199 | 0 | | 199 |
| 08:00 | 20 | 0 | | | 20 | 20:00 | 59 | 0 | | | 59 |
| 08:15 | 33 | 0 | | | 33 | 20:15 | 68 | 0 | | | 68 |
| 08:30 | 32 | 0 | | | 32 | 20:30 | 87 | 0 | | | 87 |
| 08:45 | 32 | 117 | 0 | | 149 | 20:45 | 51 | 265 | 0 | | 265 |
| 09:00 | 25 | 0 | | | 25 | 21:00 | 36 | 0 | | | 36 |
| 09:15 | 19 | 0 | | | 19 | 21:15 | 51 | 0 | | | 51 |
| 09:30 | 22 | 0 | | | 22 | 21:30 | 26 | 0 | | | 26 |
| 09:45 | 24 | 90 | 0 | | 114 | 21:45 | 13 | 126 | 0 | | 126 |
| 10:00 | 45 | 0 | | | 45 | 22:00 | 9 | 0 | | | 9 |
| 10:15 | 37 | 0 | | | 37 | 22:15 | 7 | 0 | | | 7 |
| 10:30 | 25 | 0 | | | 25 | 22:30 | 7 | 0 | | | 7 |
| 10:45 | 50 | 157 | 0 | | 207 | 22:45 | 11 | 34 | 0 | | 34 |
| 11:00 | 47 | 0 | | | 47 | 23:00 | 8 | 0 | | | 8 |
| 11:15 | 63 | 0 | | | 63 | 23:15 | 12 | 0 | | | 12 |
| 11:30 | 88 | 0 | | | 88 | 23:30 | 4 | 0 | | | 4 |
| 11:45 | 85 | 283 | 0 | | 368 | 23:45 | 5 | 29 | 0 | | 29 |
| TOTALS | 1696 | | | | 1696 | TOTALS | 2492 | | | | 2492 |
| SPLIT % | 100.0% | | | | 40.5% | SPLIT % | 100.0% | | | | 59.5% |

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total | |
|-----------------|-------|-------|-------|-------|-------|-----------------|-------|-------|-------|-------|
| | | | | | 4,188 | 0 | 0 | 0 | 4,188 | |
| AM Peak Hour | 11:45 | | | | 11:45 | | | | 12:30 | |
| AM Pk Volume | 441 | | | | 441 | | | | 499 | |
| Pk Hr Factor | 0.896 | | | | 0.896 | | | | 0.924 | |
| 7 - 9 Volume | 236 | 0 | 0 | 0 | 236 | 4 - 6 Volume | 278 | 0 | 0 | 278 |
| 7 - 9 Peak Hour | 07:00 | | | | 07:00 | 4 - 6 Peak Hour | 16:00 | | | 16:00 |
| 7 - 9 Pk Volume | 119 | 0 | 0 | 0 | 119 | 4 - 6 Pk Volume | 141 | 0 | 0 | 141 |
| Pk Hr Factor | 0.647 | 0.000 | 0.000 | 0.000 | 0.647 | Pk Hr Factor | 0.734 | 0.000 | 0.000 | 0.734 |

VOLUME

Airport Pkwy Dr Location #4

Day: Friday
Date: 12/1/2017

City: Clearwater
Project #: FL17_3500_004

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total |
|--------------|--|--|--|--|-------|----|----|----|-------|
| | | | | | 4,271 | 0 | 0 | 0 | 4,271 |

| AM Period | NB | SB | EB | WB | TOTAL | PM Period | NB | SB | EB | WB | TOTAL |
|----------------|--------|-----|----|----|--------------|----------------|--------|-----|----|----|--------------|
| 00:00 | 1 | 0 | | | 1 | 12:00 | 93 | 0 | | | 93 |
| 00:15 | 2 | 0 | | | 2 | 12:15 | 98 | 0 | | | 98 |
| 00:30 | 1 | 0 | | | 1 | 12:30 | 112 | 0 | | | 112 |
| 00:45 | 0 | 4 | 0 | | 4 | 12:45 | 131 | 434 | 0 | | 434 |
| 01:00 | 2 | 0 | | | 2 | 13:00 | 93 | 0 | | | 93 |
| 01:15 | 0 | 0 | | | 0 | 13:15 | 104 | 0 | | | 104 |
| 01:30 | 2 | 0 | | | 2 | 13:30 | 86 | 0 | | | 86 |
| 01:45 | 0 | 4 | 0 | | 4 | 13:45 | 98 | 381 | 0 | | 381 |
| 02:00 | 0 | 0 | | | 0 | 14:00 | 103 | 0 | | | 103 |
| 02:15 | 0 | 0 | | | 0 | 14:15 | 87 | 0 | | | 87 |
| 02:30 | 2 | 0 | | | 2 | 14:30 | 53 | 0 | | | 53 |
| 02:45 | 1 | 3 | 0 | | 4 | 14:45 | 57 | 300 | 0 | | 300 |
| 03:00 | 2 | 0 | | | 2 | 15:00 | 37 | 0 | | | 37 |
| 03:15 | 4 | 0 | | | 4 | 15:15 | 55 | 0 | | | 55 |
| 03:30 | 4 | 0 | | | 4 | 15:30 | 45 | 0 | | | 45 |
| 03:45 | 22 | 32 | 0 | | 54 | 15:45 | 64 | 201 | 0 | | 201 |
| 04:00 | 15 | 0 | | | 15 | 16:00 | 53 | 0 | | | 53 |
| 04:15 | 10 | 0 | | | 10 | 16:15 | 63 | 0 | | | 63 |
| 04:30 | 21 | 0 | | | 21 | 16:30 | 52 | 0 | | | 52 |
| 04:45 | 60 | 106 | 0 | | 166 | 16:45 | 46 | 214 | 0 | | 214 |
| 05:00 | 89 | 0 | | | 89 | 17:00 | 51 | 0 | | | 51 |
| 05:15 | 114 | 0 | | | 114 | 17:15 | 48 | 0 | | | 48 |
| 05:30 | 110 | 0 | | | 110 | 17:30 | 48 | 0 | | | 48 |
| 05:45 | 116 | 429 | 0 | | 545 | 17:45 | 51 | 198 | 0 | | 198 |
| 06:00 | 95 | 0 | | | 95 | 18:00 | 56 | 0 | | | 56 |
| 06:15 | 71 | 0 | | | 71 | 18:15 | 68 | 0 | | | 68 |
| 06:30 | 64 | 0 | | | 64 | 18:30 | 66 | 0 | | | 66 |
| 06:45 | 68 | 298 | 0 | | 366 | 18:45 | 57 | 247 | 0 | | 247 |
| 07:00 | 35 | 0 | | | 35 | 19:00 | 50 | 0 | | | 50 |
| 07:15 | 36 | 0 | | | 36 | 19:15 | 42 | 0 | | | 42 |
| 07:30 | 21 | 0 | | | 21 | 19:30 | 38 | 0 | | | 38 |
| 07:45 | 15 | 107 | 0 | | 122 | 19:45 | 27 | 157 | 0 | | 157 |
| 08:00 | 16 | 0 | | | 16 | 20:00 | 16 | 0 | | | 16 |
| 08:15 | 11 | 0 | | | 11 | 20:15 | 28 | 0 | | | 28 |
| 08:30 | 29 | 0 | | | 29 | 20:30 | 41 | 0 | | | 41 |
| 08:45 | 15 | 71 | 0 | | 86 | 20:45 | 67 | 152 | 0 | | 152 |
| 09:00 | 21 | 0 | | | 21 | 21:00 | 50 | 0 | | | 50 |
| 09:15 | 24 | 0 | | | 24 | 21:15 | 37 | 0 | | | 37 |
| 09:30 | 32 | 0 | | | 32 | 21:30 | 40 | 0 | | | 40 |
| 09:45 | 35 | 112 | 0 | | 147 | 21:45 | 40 | 167 | 0 | | 167 |
| 10:00 | 43 | 0 | | | 43 | 22:00 | 59 | 0 | | | 59 |
| 10:15 | 47 | 0 | | | 47 | 22:15 | 37 | 0 | | | 37 |
| 10:30 | 53 | 0 | | | 53 | 22:30 | 33 | 0 | | | 33 |
| 10:45 | 48 | 191 | 0 | | 239 | 22:45 | 24 | 153 | 0 | | 153 |
| 11:00 | 75 | 0 | | | 75 | 23:00 | 9 | 0 | | | 9 |
| 11:15 | 59 | 0 | | | 59 | 23:15 | 5 | 0 | | | 5 |
| 11:30 | 71 | 0 | | | 71 | 23:30 | 9 | 0 | | | 9 |
| 11:45 | 79 | 284 | 0 | | 363 | 23:45 | 3 | 26 | 0 | | 26 |
| TOTALS | 1641 | | | | 1641 | TOTALS | 2630 | | | | 2630 |
| SPLIT % | 100.0% | | | | 38.4% | SPLIT % | 100.0% | | | | 61.6% |

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total |
|--------------|--|--|--|--|-------|----|----|----|-------|
| | | | | | 4,271 | 0 | 0 | 0 | 4,271 |

| | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-----------------|-------|-------|-------|-------|
| AM Peak Hour | 05:15 | | | | 05:15 | PM Peak Hour | 12:30 | | | 12:30 |
| AM Pk Volume | 435 | | | | 435 | PM Pk Volume | 440 | | | 440 |
| Pk Hr Factor | 0.938 | | | | 0.938 | Pk Hr Factor | 0.840 | | | 0.840 |
| 7 - 9 Volume | 178 | 0 | 0 | 0 | 178 | 4 - 6 Volume | 412 | 0 | 0 | 412 |
| 7 - 9 Peak Hour | 07:00 | | | | 07:00 | 4 - 6 Peak Hour | 16:00 | | | 16:00 |
| 7 - 9 Pk Volume | 107 | 0 | 0 | 0 | 107 | 4 - 6 Pk Volume | 214 | 0 | 0 | 214 |
| Pk Hr Factor | 0.743 | 0.000 | 0.000 | 0.000 | 0.743 | Pk Hr Factor | 0.849 | 0.000 | 0.000 | 0.849 |

VOLUME

Airport Pkwy Dr Location #4

Day: Saturday
Date: 12/2/2017

City: Clearwater
Project #: FL17_3500_004

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total | | |
|----------------|--------|-----|----|----|--------------|----------------|--------|-----|-------|----|--------------|
| | | | | | 2,909 | 0 | 0 | 0 | 2,909 | | |
| AM Period | NB | SB | EB | WB | TOTAL | PM Period | NB | SB | EB | WB | TOTAL |
| 00:00 | 0 | 0 | | | 0 | 12:00 | 53 | 0 | | | 53 |
| 00:15 | 2 | 0 | | | 2 | 12:15 | 60 | 0 | | | 60 |
| 00:30 | 1 | 0 | | | 1 | 12:30 | 75 | 0 | | | 75 |
| 00:45 | 1 | 4 | 0 | | 1 4 | 12:45 | 77 | 265 | 0 | | 77 265 |
| 01:00 | 1 | 0 | | | 1 | 13:00 | 104 | 0 | | | 104 |
| 01:15 | 3 | 0 | | | 3 | 13:15 | 118 | 0 | | | 118 |
| 01:30 | 1 | 0 | | | 1 | 13:30 | 113 | 0 | | | 113 |
| 01:45 | 2 | 7 | 0 | | 2 7 | 13:45 | 119 | 454 | 0 | | 119 454 |
| 02:00 | 0 | 0 | | | 0 | 14:00 | 79 | 0 | | | 79 |
| 02:15 | 1 | 0 | | | 1 | 14:15 | 53 | 0 | | | 53 |
| 02:30 | 1 | 0 | | | 1 | 14:30 | 47 | 0 | | | 47 |
| 02:45 | 1 | 3 | 0 | | 1 3 | 14:45 | 25 | 204 | 0 | | 25 204 |
| 03:00 | 0 | 0 | | | 0 | 15:00 | 19 | 0 | | | 19 |
| 03:15 | 6 | 0 | | | 6 | 15:15 | 26 | 0 | | | 26 |
| 03:30 | 6 | 0 | | | 6 | 15:30 | 26 | 0 | | | 26 |
| 03:45 | 15 | 27 | 0 | | 15 27 | 15:45 | 27 | 98 | 0 | | 27 98 |
| 04:00 | 11 | 0 | | | 11 | 16:00 | 26 | 0 | | | 26 |
| 04:15 | 14 | 0 | | | 14 | 16:15 | 45 | 0 | | | 45 |
| 04:30 | 33 | 0 | | | 33 | 16:30 | 32 | 0 | | | 32 |
| 04:45 | 76 | 134 | 0 | | 76 134 | 16:45 | 47 | 150 | 0 | | 47 150 |
| 05:00 | 72 | 0 | | | 72 | 17:00 | 20 | 0 | | | 20 |
| 05:15 | 84 | 0 | | | 84 | 17:15 | 22 | 0 | | | 22 |
| 05:30 | 88 | 0 | | | 88 | 17:30 | 20 | 0 | | | 20 |
| 05:45 | 63 | 307 | 0 | | 63 307 | 17:45 | 18 | 80 | 0 | | 18 80 |
| 06:00 | 65 | 0 | | | 65 | 18:00 | 9 | 0 | | | 9 |
| 06:15 | 55 | 0 | | | 55 | 18:15 | 3 | 0 | | | 3 |
| 06:30 | 45 | 0 | | | 45 | 18:30 | 9 | 0 | | | 9 |
| 06:45 | 22 | 187 | 0 | | 22 187 | 18:45 | 4 | 25 | 0 | | 4 25 |
| 07:00 | 17 | 0 | | | 17 | 19:00 | 6 | 0 | | | 6 |
| 07:15 | 16 | 0 | | | 16 | 19:15 | 17 | 0 | | | 17 |
| 07:30 | 21 | 0 | | | 21 | 19:30 | 13 | 0 | | | 13 |
| 07:45 | 34 | 88 | 0 | | 34 88 | 19:45 | 29 | 65 | 0 | | 29 65 |
| 08:00 | 30 | 0 | | | 30 | 20:00 | 20 | 0 | | | 20 |
| 08:15 | 31 | 0 | | | 31 | 20:15 | 46 | 0 | | | 46 |
| 08:30 | 44 | 0 | | | 44 | 20:30 | 37 | 0 | | | 37 |
| 08:45 | 33 | 138 | 0 | | 33 138 | 20:45 | 41 | 144 | 0 | | 41 144 |
| 09:00 | 18 | 0 | | | 18 | 21:00 | 42 | 0 | | | 42 |
| 09:15 | 34 | 0 | | | 34 | 21:15 | 43 | 0 | | | 43 |
| 09:30 | 19 | 0 | | | 19 | 21:30 | 41 | 0 | | | 41 |
| 09:45 | 25 | 96 | 0 | | 25 96 | 21:45 | 33 | 159 | 0 | | 33 159 |
| 10:00 | 22 | 0 | | | 22 | 22:00 | 18 | 0 | | | 18 |
| 10:15 | 21 | 0 | | | 21 | 22:15 | 8 | 0 | | | 8 |
| 10:30 | 33 | 0 | | | 33 | 22:30 | 4 | 0 | | | 4 |
| 10:45 | 30 | 106 | 0 | | 30 106 | 22:45 | 2 | 32 | 0 | | 2 32 |
| 11:00 | 36 | 0 | | | 36 | 23:00 | 1 | 0 | | | 1 |
| 11:15 | 32 | 0 | | | 32 | 23:15 | 0 | 0 | | | 0 |
| 11:30 | 32 | 0 | | | 32 | 23:30 | 1 | 0 | | | 1 |
| 11:45 | 31 | 131 | 0 | | 31 131 | 23:45 | 3 | 5 | 0 | | 3 5 |
| TOTALS | 1228 | | | | 1228 | TOTALS | 1681 | | | | 1681 |
| SPLIT % | 100.0% | | | | 42.2% | SPLIT % | 100.0% | | | | 57.8% |

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total | |
|-----------------|-------|-------|-------|-------|-------|-----------------|-------|-------|-------|-------|
| | | | | | 2,909 | 0 | 0 | 0 | 2,909 | |
| AM Peak Hour | 04:45 | | | | 04:45 | PM Peak Hour | 13:00 | | 13:00 | |
| AM Pk Volume | 320 | | | | 320 | PM Pk Volume | 454 | | 454 | |
| Pk Hr Factor | 0.909 | | | | 0.909 | Pk Hr Factor | 0.954 | | 0.954 | |
| 7 - 9 Volume | 226 | 0 | 0 | 0 | 226 | 4 - 6 Volume | 230 | 0 | 0 | 230 |
| 7 - 9 Peak Hour | 07:45 | | | | 07:45 | 4 - 6 Peak Hour | 16:00 | | | 16:00 |
| 7 - 9 Pk Volume | 139 | 0 | 0 | 0 | 139 | 4 - 6 Pk Volume | 150 | 0 | 0 | 150 |
| Pk Hr Factor | 0.790 | 0.000 | 0.000 | 0.000 | 0.790 | Pk Hr Factor | 0.798 | 0.000 | 0.000 | 0.798 |

VOLUME

Airport Pkwy Dr Location #4

Day: Sunday
Date: 12/3/2017City: Clearwater
Project #: FL17_3500_004

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total | | |
|----------------|--------|-----|----|----|--------------|----------------|--------|-----|-------|----|--------------|
| | | | | | 3,891 | 0 | 0 | 0 | 3,891 | | |
| AM Period | NB | SB | EB | WB | TOTAL | PM Period | NB | SB | EB | WB | TOTAL |
| 00:00 | 0 | 0 | | | 0 | 12:00 | 117 | 0 | | | 117 |
| 00:15 | 1 | 0 | | | 1 | 12:15 | 132 | 0 | | | 132 |
| 00:30 | 2 | 0 | | | 2 | 12:30 | 115 | 0 | | | 115 |
| 00:45 | 2 | 5 | 0 | | 2 | 12:45 | 128 | 492 | 0 | | 128 |
| 01:00 | 3 | 0 | | | 3 | 13:00 | 126 | 0 | | | 126 |
| 01:15 | 1 | 0 | | | 1 | 13:15 | 105 | 0 | | | 105 |
| 01:30 | 1 | 0 | | | 1 | 13:30 | 66 | 0 | | | 66 |
| 01:45 | 3 | 8 | 0 | | 3 | 13:45 | 45 | 342 | 0 | | 45 |
| 02:00 | 1 | 0 | | | 1 | 14:00 | 69 | 0 | | | 69 |
| 02:15 | 0 | 0 | | | 0 | 14:15 | 57 | 0 | | | 57 |
| 02:30 | 1 | 0 | | | 1 | 14:30 | 36 | 0 | | | 36 |
| 02:45 | 0 | 2 | 0 | | 0 | 14:45 | 26 | 188 | 0 | | 26 |
| 03:00 | 0 | 0 | | | 0 | 15:00 | 25 | 0 | | | 25 |
| 03:15 | 3 | 0 | | | 3 | 15:15 | 28 | 0 | | | 28 |
| 03:30 | 2 | 0 | | | 2 | 15:30 | 45 | 0 | | | 45 |
| 03:45 | 18 | 23 | 0 | | 18 | 15:45 | 18 | 116 | 0 | | 18 |
| 04:00 | 10 | 0 | | | 10 | 16:00 | 33 | 0 | | | 33 |
| 04:15 | 24 | 0 | | | 24 | 16:15 | 41 | 0 | | | 41 |
| 04:30 | 38 | 0 | | | 38 | 16:30 | 26 | 0 | | | 26 |
| 04:45 | 57 | 129 | 0 | | 57 | 16:45 | 40 | 140 | 0 | | 40 |
| 05:00 | 77 | 0 | | | 77 | 17:00 | 44 | 0 | | | 44 |
| 05:15 | 96 | 0 | | | 96 | 17:15 | 21 | 0 | | | 21 |
| 05:30 | 131 | 0 | | | 131 | 17:30 | 49 | 0 | | | 49 |
| 05:45 | 132 | 436 | 0 | | 132 | 17:45 | 49 | 163 | 0 | | 49 |
| 06:00 | 116 | 0 | | | 116 | 18:00 | 45 | 0 | | | 45 |
| 06:15 | 81 | 0 | | | 81 | 18:15 | 75 | 0 | | | 75 |
| 06:30 | 84 | 0 | | | 84 | 18:30 | 64 | 0 | | | 64 |
| 06:45 | 63 | 344 | 0 | | 63 | 18:45 | 43 | 227 | 0 | | 43 |
| 07:00 | 58 | 0 | | | 58 | 19:00 | 40 | 0 | | | 40 |
| 07:15 | 25 | 0 | | | 25 | 19:15 | 41 | 0 | | | 41 |
| 07:30 | 20 | 0 | | | 20 | 19:30 | 83 | 0 | | | 83 |
| 07:45 | 21 | 124 | 0 | | 21 | 19:45 | 89 | 253 | 0 | | 89 |
| 08:00 | 19 | 0 | | | 19 | 20:00 | 66 | 0 | | | 66 |
| 08:15 | 24 | 0 | | | 24 | 20:15 | 66 | 0 | | | 66 |
| 08:30 | 32 | 0 | | | 32 | 20:30 | 53 | 0 | | | 53 |
| 08:45 | 17 | 92 | 0 | | 17 | 20:45 | 31 | 216 | 0 | | 31 |
| 09:00 | 22 | 0 | | | 22 | 21:00 | 37 | 0 | | | 37 |
| 09:15 | 28 | 0 | | | 28 | 21:15 | 22 | 0 | | | 22 |
| 09:30 | 19 | 0 | | | 19 | 21:30 | 8 | 0 | | | 8 |
| 09:45 | 13 | 82 | 0 | | 13 | 21:45 | 10 | 77 | 0 | | 10 |
| 10:00 | 14 | 0 | | | 14 | 22:00 | 7 | 0 | | | 7 |
| 10:15 | 21 | 0 | | | 21 | 22:15 | 9 | 0 | | | 9 |
| 10:30 | 19 | 0 | | | 19 | 22:30 | 14 | 0 | | | 14 |
| 10:45 | 30 | 84 | 0 | | 30 | 22:45 | 26 | 56 | 0 | | 26 |
| 11:00 | 33 | 0 | | | 33 | 23:00 | 11 | 0 | | | 11 |
| 11:15 | 59 | 0 | | | 59 | 23:15 | 5 | 0 | | | 5 |
| 11:30 | 73 | 0 | | | 73 | 23:30 | 5 | 0 | | | 5 |
| 11:45 | 105 | 270 | 0 | | 105 | 23:45 | 1 | 22 | 0 | | 1 |
| TOTALS | 1599 | | | | 1599 | TOTALS | 2292 | | | | 2292 |
| SPLIT % | 100.0% | | | | 41.1% | SPLIT % | 100.0% | | | | 58.9% |

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total | | |
|-----------------|-------|-------|-------|-------|-------|-----------------|-------|-------|-------|-------|-------|
| | | | | | 3,891 | 0 | 0 | 0 | 3,891 | | |
| AM Peak Hour | 05:15 | | | | 05:15 | PM Peak Hour | 12:15 | | | | 12:15 |
| AM Pk Volume | 475 | | | | 475 | PM Pk Volume | 501 | | | | 501 |
| Pk Hr Factor | 0.900 | | | | 0.900 | Pk Hr Factor | 0.949 | | | | 0.949 |
| 7 - 9 Volume | 216 | 0 | 0 | 0 | 216 | 4 - 6 Volume | 303 | 0 | 0 | 0 | 303 |
| 7 - 9 Peak Hour | 07:00 | | | | 07:00 | 4 - 6 Peak Hour | 17:00 | | | | 17:00 |
| 7 - 9 Pk Volume | 124 | 0 | 0 | 0 | 124 | 4 - 6 Pk Volume | 163 | 0 | 0 | 0 | 163 |
| Pk Hr Factor | 0.534 | 0.000 | 0.000 | 0.000 | 0.534 | Pk Hr Factor | 0.832 | 0.000 | 0.000 | 0.000 | 0.832 |

VOLUME

Airport Pkwy Dr Location #4

Day: Monday
Date: 12/4/2017City: Clearwater
Project #: FL17_3500_004

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total | | |
|----------------|--------|-----|----|----|--------------|----------------|--------|-----|-------|----|--------------|
| | | | | | 4,395 | 0 | 0 | 0 | 4,395 | | |
| AM Period | NB | SB | EB | WB | TOTAL | PM Period | NB | SB | EB | WB | TOTAL |
| 00:00 | 1 | 0 | | | 1 | 12:00 | 105 | 0 | | | 105 |
| 00:15 | 3 | 0 | | | 3 | 12:15 | 98 | 0 | | | 98 |
| 00:30 | 1 | 0 | | | 1 | 12:30 | 129 | 0 | | | 129 |
| 00:45 | 0 | 5 | 0 | | 5 | 12:45 | 130 | 462 | 0 | | 462 |
| 01:00 | 4 | 0 | | | 4 | 13:00 | 134 | 0 | | | 134 |
| 01:15 | 2 | 0 | | | 2 | 13:15 | 97 | 0 | | | 97 |
| 01:30 | 2 | 0 | | | 2 | 13:30 | 80 | 0 | | | 80 |
| 01:45 | 0 | 8 | 0 | | 8 | 13:45 | 53 | 364 | 0 | | 364 |
| 02:00 | 0 | 0 | | | 0 | 14:00 | 43 | 0 | | | 43 |
| 02:15 | 1 | 0 | | | 1 | 14:15 | 29 | 0 | | | 29 |
| 02:30 | 0 | 0 | | | 0 | 14:30 | 34 | 0 | | | 34 |
| 02:45 | 0 | 1 | 0 | | 1 | 14:45 | 35 | 141 | 0 | | 141 |
| 03:00 | 2 | 0 | | | 2 | 15:00 | 37 | 0 | | | 37 |
| 03:15 | 3 | 0 | | | 3 | 15:15 | 62 | 0 | | | 62 |
| 03:30 | 7 | 0 | | | 7 | 15:30 | 71 | 0 | | | 71 |
| 03:45 | 14 | 26 | 0 | | 26 | 15:45 | 92 | 262 | 0 | | 262 |
| 04:00 | 10 | 0 | | | 10 | 16:00 | 96 | 0 | | | 96 |
| 04:15 | 13 | 0 | | | 13 | 16:15 | 77 | 0 | | | 77 |
| 04:30 | 14 | 0 | | | 14 | 16:30 | 75 | 0 | | | 75 |
| 04:45 | 29 | 66 | 0 | | 66 | 16:45 | 77 | 325 | 0 | | 325 |
| 05:00 | 53 | 0 | | | 53 | 17:00 | 63 | 0 | | | 63 |
| 05:15 | 89 | 0 | | | 89 | 17:15 | 53 | 0 | | | 53 |
| 05:30 | 100 | 0 | | | 100 | 17:30 | 63 | 0 | | | 63 |
| 05:45 | 107 | 349 | 0 | | 349 | 17:45 | 71 | 250 | 0 | | 250 |
| 06:00 | 102 | 0 | | | 102 | 18:00 | 86 | 0 | | | 86 |
| 06:15 | 80 | 0 | | | 80 | 18:15 | 77 | 0 | | | 77 |
| 06:30 | 63 | 0 | | | 63 | 18:30 | 40 | 0 | | | 40 |
| 06:45 | 64 | 309 | 0 | | 309 | 18:45 | 19 | 222 | 0 | | 222 |
| 07:00 | 49 | 0 | | | 49 | 19:00 | 21 | 0 | | | 21 |
| 07:15 | 43 | 0 | | | 43 | 19:15 | 48 | 0 | | | 48 |
| 07:30 | 45 | 0 | | | 45 | 19:30 | 45 | 0 | | | 45 |
| 07:45 | 37 | 174 | 0 | | 174 | 19:45 | 34 | 148 | 0 | | 148 |
| 08:00 | 27 | 0 | | | 27 | 20:00 | 19 | 0 | | | 19 |
| 08:15 | 22 | 0 | | | 22 | 20:15 | 42 | 0 | | | 42 |
| 08:30 | 28 | 0 | | | 28 | 20:30 | 49 | 0 | | | 49 |
| 08:45 | 28 | 105 | 0 | | 105 | 20:45 | 24 | 134 | 0 | | 134 |
| 09:00 | 20 | 0 | | | 20 | 21:00 | 12 | 0 | | | 12 |
| 09:15 | 35 | 0 | | | 35 | 21:15 | 15 | 0 | | | 15 |
| 09:30 | 33 | 0 | | | 33 | 21:30 | 29 | 0 | | | 29 |
| 09:45 | 45 | 133 | 0 | | 133 | 21:45 | 55 | 111 | 0 | | 111 |
| 10:00 | 57 | 0 | | | 57 | 22:00 | 43 | 0 | | | 43 |
| 10:15 | 51 | 0 | | | 51 | 22:15 | 51 | 0 | | | 51 |
| 10:30 | 46 | 0 | | | 46 | 22:30 | 62 | 0 | | | 62 |
| 10:45 | 76 | 230 | 0 | | 230 | 22:45 | 75 | 231 | 0 | | 231 |
| 11:00 | 55 | 0 | | | 55 | 23:00 | 28 | 0 | | | 28 |
| 11:15 | 69 | 0 | | | 69 | 23:15 | 11 | 0 | | | 11 |
| 11:30 | 76 | 0 | | | 76 | 23:30 | 5 | 0 | | | 5 |
| 11:45 | 93 | 293 | 0 | | 293 | 23:45 | 2 | 46 | 0 | | 46 |
| TOTALS | 1699 | | | | 1699 | TOTALS | 2696 | | | | 2696 |
| SPLIT % | 100.0% | | | | 38.7% | SPLIT % | 100.0% | | | | 61.3% |

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total | |
|-----------------|-------|-------|-------|-------|-------|-----------------|-------|-------|-------|-------|
| | | | | | 4,395 | 0 | 0 | 0 | 4,395 | |
| AM Peak Hour | 11:45 | | | | 11:45 | PM Peak Hour | 12:15 | | 12:15 | |
| AM Pk Volume | 425 | | | | 425 | PM Pk Volume | 491 | | 491 | |
| Pk Hr Factor | 0.824 | | | | 0.824 | Pk Hr Factor | 0.916 | | 0.916 | |
| 7 - 9 Volume | 279 | 0 | 0 | 0 | 279 | 4 - 6 Volume | 575 | 0 | 0 | 575 |
| 7 - 9 Peak Hour | 07:00 | | | | 07:00 | 4 - 6 Peak Hour | 16:00 | | | 16:00 |
| 7 - 9 Pk Volume | 174 | 0 | 0 | 0 | 174 | 4 - 6 Pk Volume | 325 | 0 | 0 | 325 |
| Pk Hr Factor | 0.888 | 0.000 | 0.000 | 0.000 | 0.888 | Pk Hr Factor | 0.846 | 0.000 | 0.000 | 0.846 |

VOLUME

Airport Pkwy Dr Location #4

Day: Tuesday
Date: 12/5/2017

City: Clearwater
Project #: FL17_3500_004

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total | | |
|----------------|--------|-----|----|----|--------------|----------------|--------|-----|-------|----|--------------|
| | | | | | 1,384 | 0 | 0 | 0 | 1,384 | | |
| AM Period | NB | SB | EB | WB | TOTAL | PM Period | NB | SB | EB | WB | TOTAL |
| 00:00 | 1 | 0 | | | 1 | 12:00 | 14 | 0 | | | 14 |
| 00:15 | 0 | 0 | | | 0 | 12:15 | 15 | 0 | | | 15 |
| 00:30 | 3 | 0 | | | 3 | 12:30 | 18 | 0 | | | 18 |
| 00:45 | 3 | 7 | 0 | | 3 | 12:45 | 16 | 63 | 0 | | 16 |
| 01:00 | 0 | 0 | | | 0 | 13:00 | 11 | 0 | | | 11 |
| 01:15 | 4 | 0 | | | 4 | 13:15 | 14 | 0 | | | 14 |
| 01:30 | 1 | 0 | | | 1 | 13:30 | 18 | 0 | | | 18 |
| 01:45 | 1 | 6 | 0 | | 1 | 13:45 | 22 | 65 | 0 | | 22 |
| 02:00 | 0 | 0 | | | 0 | 14:00 | 23 | 0 | | | 23 |
| 02:15 | 1 | 0 | | | 1 | 14:15 | 25 | 0 | | | 25 |
| 02:30 | 2 | 0 | | | 2 | 14:30 | 36 | 0 | | | 36 |
| 02:45 | 0 | 3 | 0 | | 0 | 14:45 | 28 | 112 | 0 | | 28 |
| 03:00 | 1 | 0 | | | 1 | 15:00 | 21 | 0 | | | 21 |
| 03:15 | 1 | 0 | | | 1 | 15:15 | 28 | 0 | | | 28 |
| 03:30 | 1 | 0 | | | 1 | 15:30 | 20 | 0 | | | 20 |
| 03:45 | 10 | 13 | 0 | | 10 | 15:45 | 32 | 101 | 0 | | 32 |
| 04:00 | 9 | 0 | | | 9 | 16:00 | 28 | 0 | | | 28 |
| 04:15 | 12 | 0 | | | 12 | 16:15 | 40 | 0 | | | 40 |
| 04:30 | 12 | 0 | | | 12 | 16:30 | 41 | 0 | | | 41 |
| 04:45 | 16 | 49 | 0 | | 16 | 16:45 | 25 | 134 | 0 | | 25 |
| 05:00 | 8 | 0 | | | 8 | 17:00 | 18 | 0 | | | 18 |
| 05:15 | 12 | 0 | | | 12 | 17:15 | 7 | 0 | | | 7 |
| 05:30 | 9 | 0 | | | 9 | 17:30 | 10 | 0 | | | 10 |
| 05:45 | 10 | 39 | 0 | | 10 | 17:45 | 5 | 40 | 0 | | 5 |
| 06:00 | 12 | 0 | | | 12 | 18:00 | 7 | 0 | | | 7 |
| 06:15 | 13 | 0 | | | 13 | 18:15 | 15 | 0 | | | 15 |
| 06:30 | 25 | 0 | | | 25 | 18:30 | 19 | 0 | | | 19 |
| 06:45 | 31 | 81 | 0 | | 31 | 18:45 | 30 | 71 | 0 | | 30 |
| 07:00 | 39 | 0 | | | 39 | 19:00 | 26 | 0 | | | 26 |
| 07:15 | 29 | 0 | | | 29 | 19:15 | 25 | 0 | | | 25 |
| 07:30 | 27 | 0 | | | 27 | 19:30 | 16 | 0 | | | 16 |
| 07:45 | 15 | 110 | 0 | | 15 | 19:45 | 21 | 88 | 0 | | 21 |
| 08:00 | 18 | 0 | | | 18 | 20:00 | 22 | 0 | | | 22 |
| 08:15 | 11 | 0 | | | 11 | 20:15 | 27 | 0 | | | 27 |
| 08:30 | 13 | 0 | | | 13 | 20:30 | 28 | 0 | | | 28 |
| 08:45 | 8 | 50 | 0 | | 8 | 20:45 | 21 | 98 | 0 | | 21 |
| 09:00 | 14 | 0 | | | 14 | 21:00 | 9 | 0 | | | 9 |
| 09:15 | 14 | 0 | | | 14 | 21:15 | 6 | 0 | | | 6 |
| 09:30 | 15 | 0 | | | 15 | 21:30 | 5 | 0 | | | 5 |
| 09:45 | 9 | 52 | 0 | | 9 | 21:45 | 4 | 24 | 0 | | 4 |
| 10:00 | 12 | 0 | | | 12 | 22:00 | 3 | 0 | | | 3 |
| 10:15 | 13 | 0 | | | 13 | 22:15 | 3 | 0 | | | 3 |
| 10:30 | 8 | 0 | | | 8 | 22:30 | 1 | 0 | | | 1 |
| 10:45 | 14 | 47 | 0 | | 14 | 22:45 | 5 | 12 | 0 | | 5 |
| 11:00 | 25 | 0 | | | 25 | 23:00 | 1 | 0 | | | 1 |
| 11:15 | 12 | 0 | | | 12 | 23:15 | 3 | 0 | | | 3 |
| 11:30 | 26 | 0 | | | 26 | 23:30 | 2 | 0 | | | 2 |
| 11:45 | 46 | 109 | 0 | | 46 | 23:45 | 4 | 10 | 0 | | 4 |
| TOTALS | 566 | | | | 566 | TOTALS | 818 | | | | 818 |
| SPLIT % | 100.0% | | | | 40.9% | SPLIT % | 100.0% | | | | 59.1% |

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total |
|--------------|--|--|--|--|-------|----|----|----|-------|
| | | | | | 1,384 | 0 | 0 | 0 | 1,384 |

| | | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-----------------|-------|-------|-------|-------|-------|
| AM Peak Hour | 06:45 | | | | 06:45 | PM Peak Hour | 15:45 | | | | 15:45 |
| AM Pk Volume | 126 | | | | 126 | PM Pk Volume | 141 | | | | 141 |
| Pk Hr Factor | 0.808 | | | | 0.808 | Pk Hr Factor | 0.860 | | | | 0.860 |
| 7 - 9 Volume | 160 | 0 | 0 | 0 | 160 | 4 - 6 Volume | 174 | 0 | 0 | 0 | 174 |
| 7 - 9 Peak Hour | 07:00 | | | | 07:00 | 4 - 6 Peak Hour | 16:00 | | | | 16:00 |
| 7 - 9 Pk Volume | 110 | 0 | 0 | 0 | 110 | 4 - 6 Pk Volume | 134 | 0 | 0 | 0 | 134 |
| Pk Hr Factor | 0.705 | 0.000 | 0.000 | 0.000 | 0.705 | Pk Hr Factor | 0.817 | 0.000 | 0.000 | 0.000 | 0.817 |

VOLUME

Airport Pkwy Dr Location #4

Day: Wednesday
Date: 12/6/2017City: Clearwater
Project #: FL17_3500_004

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total | | |
|----------------|--------|-----|----|----|--------------|----------------|--------|-----|-------|----|--------------|
| | | | | | 2,221 | 0 | 0 | 0 | 2,221 | | |
| AM Period | NB | SB | EB | WB | TOTAL | PM Period | NB | SB | EB | WB | TOTAL |
| 00:00 | 3 | 0 | | | 3 | 12:00 | 46 | 0 | | | 46 |
| 00:15 | 2 | 0 | | | 2 | 12:15 | 67 | 0 | | | 67 |
| 00:30 | 1 | 0 | | | 1 | 12:30 | 84 | 0 | | | 84 |
| 00:45 | 1 | 7 | 0 | | 1 | 12:45 | 85 | 282 | 0 | | 85 |
| 01:00 | 1 | 0 | | | 1 | 13:00 | 79 | 0 | | | 79 |
| 01:15 | 7 | 0 | | | 7 | 13:15 | 84 | 0 | | | 84 |
| 01:30 | 4 | 0 | | | 4 | 13:30 | 57 | 0 | | | 57 |
| 01:45 | 3 | 15 | 0 | | 3 | 13:45 | 57 | 277 | 0 | | 57 |
| 02:00 | 1 | 0 | | | 1 | 14:00 | 45 | 0 | | | 45 |
| 02:15 | 0 | 0 | | | 0 | 14:15 | 48 | 0 | | | 48 |
| 02:30 | 0 | 0 | | | 0 | 14:30 | 45 | 0 | | | 45 |
| 02:45 | 1 | 2 | 0 | | 1 | 14:45 | 41 | 179 | 0 | | 41 |
| 03:00 | 5 | 0 | | | 5 | 15:00 | 28 | 0 | | | 28 |
| 03:15 | 4 | 0 | | | 4 | 15:15 | 24 | 0 | | | 24 |
| 03:30 | 4 | 0 | | | 4 | 15:30 | 21 | 0 | | | 21 |
| 03:45 | 17 | 30 | 0 | | 17 | 15:45 | 22 | 95 | 0 | | 22 |
| 04:00 | 15 | 0 | | | 15 | 16:00 | 22 | 0 | | | 22 |
| 04:15 | 16 | 0 | | | 16 | 16:15 | 30 | 0 | | | 30 |
| 04:30 | 35 | 0 | | | 35 | 16:30 | 34 | 0 | | | 34 |
| 04:45 | 43 | 109 | 0 | | 43 | 16:45 | 21 | 107 | 0 | | 21 |
| 05:00 | 66 | 0 | | | 66 | 17:00 | 13 | 0 | | | 13 |
| 05:15 | 74 | 0 | | | 74 | 17:15 | 14 | 0 | | | 14 |
| 05:30 | 51 | 0 | | | 51 | 17:30 | 7 | 0 | | | 7 |
| 05:45 | 19 | 210 | 0 | | 19 | 17:45 | 12 | 46 | 0 | | 12 |
| 06:00 | 11 | 0 | | | 11 | 18:00 | 9 | 0 | | | 9 |
| 06:15 | 8 | 0 | | | 8 | 18:15 | 12 | 0 | | | 12 |
| 06:30 | 13 | 0 | | | 13 | 18:30 | 13 | 0 | | | 13 |
| 06:45 | 14 | 46 | 0 | | 14 | 18:45 | 20 | 54 | 0 | | 20 |
| 07:00 | 12 | 0 | | | 12 | 19:00 | 14 | 0 | | | 14 |
| 07:15 | 15 | 0 | | | 15 | 19:15 | 23 | 0 | | | 23 |
| 07:30 | 17 | 0 | | | 17 | 19:30 | 49 | 0 | | | 49 |
| 07:45 | 14 | 58 | 0 | | 14 | 19:45 | 52 | 138 | 0 | | 52 |
| 08:00 | 14 | 0 | | | 14 | 20:00 | 43 | 0 | | | 43 |
| 08:15 | 16 | 0 | | | 16 | 20:15 | 45 | 0 | | | 45 |
| 08:30 | 11 | 0 | | | 11 | 20:30 | 27 | 0 | | | 27 |
| 08:45 | 17 | 58 | 0 | | 17 | 20:45 | 21 | 136 | 0 | | 21 |
| 09:00 | 15 | 0 | | | 15 | 21:00 | 25 | 0 | | | 25 |
| 09:15 | 11 | 0 | | | 11 | 21:15 | 21 | 0 | | | 21 |
| 09:30 | 11 | 0 | | | 11 | 21:30 | 19 | 0 | | | 19 |
| 09:45 | 15 | 52 | 0 | | 15 | 21:45 | 2 | 67 | 0 | | 2 |
| 10:00 | 10 | 0 | | | 10 | 22:00 | 5 | 0 | | | 5 |
| 10:15 | 20 | 0 | | | 20 | 22:15 | 3 | 0 | | | 3 |
| 10:30 | 14 | 0 | | | 14 | 22:30 | 2 | 0 | | | 2 |
| 10:45 | 37 | 81 | 0 | | 37 | 22:45 | 3 | 13 | 0 | | 3 |
| 11:00 | 25 | 0 | | | 25 | 23:00 | 1 | 0 | | | 1 |
| 11:15 | 32 | 0 | | | 32 | 23:15 | 3 | 0 | | | 3 |
| 11:30 | 40 | 0 | | | 40 | 23:30 | 0 | 0 | | | 0 |
| 11:45 | 56 | 153 | 0 | | 56 | 23:45 | 2 | 6 | 0 | | 2 |
| TOTALS | 821 | | | | 821 | TOTALS | 1400 | | | | 1400 |
| SPLIT % | 100.0% | | | | 37.0% | SPLIT % | 100.0% | | | | 63.0% |

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total | |
|-----------------|-------|-------|-------|-------|-------|-----------------|-------|-------|-------|-------|
| | | | | | 2,221 | 0 | 0 | 0 | 2,221 | |
| AM Peak Hour | 11:45 | | | | 11:45 | PM Peak Hour | 12:30 | | 12:30 | |
| AM Pk Volume | 253 | | | | 253 | PM Pk Volume | 332 | | 332 | |
| Pk Hr Factor | 0.753 | | | | 0.753 | Pk Hr Factor | 0.976 | | 0.976 | |
| 7 - 9 Volume | 116 | 0 | 0 | 0 | 116 | 4 - 6 Volume | 153 | 0 | 0 | 153 |
| 7 - 9 Peak Hour | 07:30 | | | | 07:30 | 4 - 6 Peak Hour | 16:00 | | | 16:00 |
| 7 - 9 Pk Volume | 61 | 0 | 0 | 0 | 61 | 4 - 6 Pk Volume | 107 | 0 | 0 | 107 |
| Pk Hr Factor | 0.897 | 0.000 | 0.000 | 0.000 | 0.897 | Pk Hr Factor | 0.787 | 0.000 | 0.000 | 0.787 |

APPENDIX D

Appendix D-2

Two-Day Traffic Counts

VOLUME

Airport Pkwy Dr Location #1

Day: Thursday
Date: 12/14/2017City: Clearwater
Project #: FL17_3500_001

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total | | |
|----------------|----|----|-------|-------|--------------|----------------|-------|-------|-------|-------|--------------|
| | | | | | 0 | 0 | 2,224 | 4,118 | 6,342 | | |
| AM Period | NB | SB | EB | WB | TOTAL | PM Period | NB | SB | EB | WB | TOTAL |
| 00:00 | | | 2 | 5 | 7 | 12:00 | | | 52 | 73 | 125 |
| 00:15 | | | 1 | 3 | 4 | 12:15 | | | 50 | 76 | 126 |
| 00:30 | | | 1 | 3 | 4 | 12:30 | | | 66 | 105 | 171 |
| 00:45 | | | 2 | 6 | 3 | 12:45 | | 223 | 55 | 103 | 357 |
| 01:00 | | | 3 | 2 | 5 | 13:00 | | | 49 | 101 | 150 |
| 01:15 | | | 2 | 3 | 5 | 13:15 | | | 53 | 75 | 128 |
| 01:30 | | | 2 | 0 | 2 | 13:30 | | | 52 | 134 | 186 |
| 01:45 | | | 0 | 7 | 1 | 13:45 | | 205 | 51 | 103 | 413 |
| 02:00 | | | 0 | 0 | 0 | 14:00 | | | 58 | 104 | 162 |
| 02:15 | | | 1 | 0 | 1 | 14:15 | | | 39 | 102 | 141 |
| 02:30 | | | 1 | 0 | 1 | 14:30 | | | 42 | 88 | 130 |
| 02:45 | | | 0 | 2 | 2 | 14:45 | | 178 | 39 | 125 | 419 |
| 03:00 | | | 1 | 1 | 2 | 15:00 | | | 35 | 112 | 147 |
| 03:15 | | | 3 | 1 | 4 | 15:15 | | | 18 | 50 | 68 |
| 03:30 | | | 8 | 2 | 10 | 15:30 | | | 16 | 54 | 70 |
| 03:45 | | | 18 | 30 | 4 | 15:45 | | 93 | 24 | 27 | 243 |
| 04:00 | | | 10 | 9 | 19 | 16:00 | | | 15 | 20 | 35 |
| 04:15 | | | 12 | 11 | 23 | 16:15 | | | 10 | 17 | 27 |
| 04:30 | | | 12 | 24 | 36 | 16:30 | | | 19 | 24 | 43 |
| 04:45 | | | 36 | 70 | 35 | 16:45 | | 67 | 23 | 33 | 94 |
| 05:00 | | | 47 | 73 | 120 | 17:00 | | | 12 | 68 | 80 |
| 05:15 | | | 60 | 119 | 179 | 17:15 | | | 16 | 42 | 58 |
| 05:30 | | | 54 | 100 | 154 | 17:30 | | | 20 | 22 | 42 |
| 05:45 | | | 60 | 221 | 103 | 17:45 | | 77 | 29 | 58 | 190 |
| 06:00 | | | 39 | 90 | 129 | 18:00 | | | 27 | 90 | 117 |
| 06:15 | | | 35 | 74 | 109 | 18:15 | | | 18 | 43 | 61 |
| 06:30 | | | 35 | 72 | 107 | 18:30 | | | 25 | 29 | 54 |
| 06:45 | | | 41 | 150 | 39 | 18:45 | | 80 | 10 | 97 | 259 |
| 07:00 | | | 32 | 42 | 74 | 19:00 | | | 15 | 61 | 76 |
| 07:15 | | | 37 | 31 | 68 | 19:15 | | | 26 | 10 | 36 |
| 07:30 | | | 12 | 16 | 28 | 19:30 | | | 26 | 22 | 48 |
| 07:45 | | | 14 | 95 | 14 | 19:45 | | 92 | 25 | 50 | 143 |
| 08:00 | | | 13 | 25 | 38 | 20:00 | | | 51 | 69 | 120 |
| 08:15 | | | 24 | 14 | 38 | 20:15 | | | 30 | 126 | 156 |
| 08:30 | | | 31 | 26 | 57 | 20:30 | | | 26 | 25 | 51 |
| 08:45 | | | 18 | 86 | 23 | 20:45 | | 131 | 24 | 84 | 304 |
| 09:00 | | | 19 | 41 | 60 | 21:00 | | | 14 | 80 | 94 |
| 09:15 | | | 12 | 48 | 60 | 21:15 | | | 8 | 19 | 27 |
| 09:30 | | | 13 | 22 | 35 | 21:30 | | | 6 | 12 | 18 |
| 09:45 | | | 17 | 61 | 22 | 21:45 | | 42 | 14 | 9 | 120 |
| 10:00 | | | 14 | 18 | 32 | 22:00 | | | 19 | 10 | 29 |
| 10:15 | | | 20 | 13 | 33 | 22:15 | | | 10 | 12 | 22 |
| 10:30 | | | 19 | 24 | 43 | 22:30 | | | 10 | 96 | 106 |
| 10:45 | | | 22 | 75 | 29 | 22:45 | | 50 | 11 | 28 | 146 |
| 11:00 | | | 27 | 25 | 52 | 23:00 | | | 9 | 10 | 19 |
| 11:15 | | | 36 | 59 | 95 | 23:15 | | | 7 | 4 | 11 |
| 11:30 | | | 45 | 59 | 104 | 23:30 | | | 3 | 3 | 6 |
| 11:45 | | | 55 | 163 | 79 | 23:45 | | 20 | 1 | 6 | 23 |
| TOTALS | | | 966 | 1407 | 2373 | TOTALS | | | 1258 | 2711 | 3969 |
| SPLIT % | | | 40.7% | 59.3% | 37.4% | SPLIT % | | | 31.7% | 68.3% | 62.6% |

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total | | |
|-----------------|-------|-------|-------|-------|-------|-----------------|-------|-------|-------|-------|-------|
| | | | | | 0 | 0 | 2,224 | 4,118 | 6,342 | | |
| AM Peak Hour | | | 11:45 | 05:15 | 05:15 | PM Peak Hour | | | 12:00 | 13:30 | 13:30 |
| AM Pk Volume | | | 223 | 412 | 625 | PM Pk Volume | | | 223 | 443 | 643 |
| Pk Hr Factor | | | 0.845 | 0.866 | 0.873 | Pk Hr Factor | | | 0.845 | 0.826 | 0.864 |
| 7 - 9 Volume | 0 | 0 | 181 | 191 | 372 | 4 - 6 Volume | 0 | 0 | 144 | 284 | 428 |
| 7 - 9 Peak Hour | | | 07:00 | 07:00 | 07:00 | 4 - 6 Peak Hour | | | 17:00 | 17:00 | 17:00 |
| 7 - 9 Pk Volume | 0 | 0 | 95 | 103 | 198 | 4 - 6 Pk Volume | 0 | 0 | 77 | 190 | 267 |
| Pk Hr Factor | 0.000 | 0.000 | 0.642 | 0.613 | 0.669 | Pk Hr Factor | 0.000 | 0.000 | 0.664 | 0.699 | 0.767 |

VOLUME

Airport Pkwy Dr Location #1

Day: Friday
Date: 12/15/2017City: Clearwater
Project #: FL17_3500_001

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total | | | | | |
|----------------|----|----|-------|-------|-------|----------------|-------|-------|-------|-------|-------|-----|-----|-----|
| | | | | | 0 | 0 | 2,347 | 4,815 | 7,162 | | | | | |
| AM Period | NB | SB | EB | WB | TOTAL | PM Period | NB | SB | EB | WB | TOTAL | | | |
| 00:00 | | | 2 | 3 | 5 | 12:00 | | | 66 | 150 | 216 | | | |
| 00:15 | | | 0 | 0 | 0 | 12:15 | | | 46 | 129 | 175 | | | |
| 00:30 | | | 0 | 1 | 1 | 12:30 | | | 75 | 100 | 175 | | | |
| 00:45 | | | 1 | 3 | 6 | 12:45 | | 10 | 79 | 266 | 126 | 505 | 205 | 771 |
| 01:00 | | | 0 | 2 | 2 | 13:00 | | | 51 | 125 | 176 | | | |
| 01:15 | | | 3 | 3 | 6 | 13:15 | | | 62 | 126 | 188 | | | |
| 01:30 | | | 2 | 1 | 3 | 13:30 | | | 57 | 90 | 147 | | | |
| 01:45 | | | 2 | 7 | 0 | 13:45 | | 6 | 51 | 221 | 132 | 473 | 183 | 694 |
| 02:00 | | | 0 | 0 | 0 | 14:00 | | | 38 | 118 | 156 | | | |
| 02:15 | | | 0 | 0 | 0 | 14:15 | | | 18 | 99 | 117 | | | |
| 02:30 | | | 1 | 1 | 2 | 14:30 | | | 28 | 92 | 120 | | | |
| 02:45 | | | 0 | 1 | 0 | 14:45 | | 1 | 19 | 103 | 85 | 394 | 104 | 497 |
| 03:00 | | | 0 | 2 | 2 | 15:00 | | | 25 | 56 | 81 | | | |
| 03:15 | | | 4 | 1 | 5 | 15:15 | | | 25 | 48 | 73 | | | |
| 03:30 | | | 4 | 0 | 4 | 15:30 | | | 22 | 41 | 63 | | | |
| 03:45 | | | 11 | 19 | 3 | 15:45 | | 6 | 32 | 104 | 63 | 208 | 95 | 312 |
| 04:00 | | | 16 | 6 | 22 | 16:00 | | | 35 | 110 | 145 | | | |
| 04:15 | | | 10 | 12 | 22 | 16:15 | | | 47 | 55 | 102 | | | |
| 04:30 | | | 15 | 26 | 41 | 16:30 | | | 30 | 88 | 118 | | | |
| 04:45 | | | 30 | 71 | 47 | 16:45 | | 91 | 22 | 134 | 72 | 325 | 94 | 459 |
| 05:00 | | | 37 | 67 | 104 | 17:00 | | | 29 | 46 | 75 | | | |
| 05:15 | | | 42 | 95 | 137 | 17:15 | | | 25 | 34 | 59 | | | |
| 05:30 | | | 64 | 88 | 152 | 17:30 | | | 29 | 52 | 81 | | | |
| 05:45 | | | 43 | 186 | 100 | 17:45 | | 350 | 25 | 108 | 65 | 197 | 90 | 305 |
| 06:00 | | | 39 | 75 | 114 | 18:00 | | | 20 | 14 | 34 | | | |
| 06:15 | | | 32 | 71 | 103 | 18:15 | | | 20 | 21 | 41 | | | |
| 06:30 | | | 17 | 46 | 63 | 18:30 | | | 18 | 36 | 54 | | | |
| 06:45 | | | 30 | 118 | 30 | 18:45 | | 222 | 23 | 81 | 79 | 150 | 102 | 231 |
| 07:00 | | | 36 | 56 | 92 | 19:00 | | | 14 | 28 | 42 | | | |
| 07:15 | | | 34 | 30 | 64 | 19:15 | | | 19 | 52 | 71 | | | |
| 07:30 | | | 26 | 33 | 59 | 19:30 | | | 39 | 19 | 58 | | | |
| 07:45 | | | 23 | 119 | 29 | 19:45 | | 148 | 35 | 107 | 86 | 185 | 121 | 292 |
| 08:00 | | | 20 | 32 | 52 | 20:00 | | | 26 | 121 | 147 | | | |
| 08:15 | | | 19 | 24 | 43 | 20:15 | | | 17 | 76 | 93 | | | |
| 08:30 | | | 17 | 20 | 37 | 20:30 | | | 28 | 17 | 45 | | | |
| 08:45 | | | 20 | 76 | 22 | 20:45 | | 98 | 14 | 85 | 15 | 229 | 29 | 314 |
| 09:00 | | | 14 | 19 | 33 | 21:00 | | | 26 | 116 | 142 | | | |
| 09:15 | | | 24 | 24 | 48 | 21:15 | | | 23 | 31 | 54 | | | |
| 09:30 | | | 16 | 25 | 41 | 21:30 | | | 18 | 15 | 33 | | | |
| 09:45 | | | 24 | 78 | 35 | 21:45 | | 103 | 24 | 91 | 104 | 266 | 128 | 357 |
| 10:00 | | | 28 | 51 | 79 | 22:00 | | | 15 | 60 | 75 | | | |
| 10:15 | | | 25 | 30 | 55 | 22:15 | | | 8 | 24 | 32 | | | |
| 10:30 | | | 26 | 46 | 72 | 22:30 | | | 17 | 71 | 88 | | | |
| 10:45 | | | 37 | 116 | 61 | 22:45 | | 188 | 16 | 56 | 19 | 174 | 35 | 230 |
| 11:00 | | | 41 | 110 | 151 | 23:00 | | | 6 | 26 | 32 | | | |
| 11:15 | | | 38 | 87 | 125 | 23:15 | | | 2 | 56 | 58 | | | |
| 11:30 | | | 48 | 71 | 119 | 23:30 | | | 5 | 32 | 37 | | | |
| 11:45 | | | 53 | 180 | 93 | 23:45 | | 361 | 4 | 17 | 11 | 125 | 15 | 142 |
| TOTALS | | | 974 | 1584 | 2558 | TOTALS | | | 1373 | 3231 | 4604 | | | |
| SPLIT % | | | 38.1% | 61.9% | 35.7% | SPLIT % | | | 29.8% | 70.2% | 64.3% | | | |

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total | | |
|-----------------|-------|-------|-------|-------|-------|-----------------|-------|-------|-------|-------|-------|
| | | | | | 0 | 0 | 2,347 | 4,815 | 7,162 | | |
| AM Peak Hour | | | 11:45 | 11:45 | 11:45 | PM Peak Hour | | | 12:30 | 12:00 | 12:00 |
| AM Pk Volume | | | 240 | 472 | 712 | PM Pk Volume | | | 267 | 505 | 771 |
| Pk Hr Factor | | | 0.800 | 0.787 | 0.824 | Pk Hr Factor | | | 0.845 | 0.842 | 0.892 |
| 7 - 9 Volume | 0 | 0 | 195 | 246 | 441 | 4 - 6 Volume | 0 | 0 | 242 | 522 | 764 |
| 7 - 9 Peak Hour | | | 07:00 | 07:00 | 07:00 | 4 - 6 Peak Hour | | | 16:00 | 16:00 | 16:00 |
| 7 - 9 Pk Volume | 0 | 0 | 119 | 148 | 267 | 4 - 6 Pk Volume | 0 | 0 | 134 | 325 | 459 |
| Pk Hr Factor | 0.000 | 0.000 | 0.826 | 0.661 | 0.726 | Pk Hr Factor | 0.000 | 0.000 | 0.713 | 0.739 | 0.791 |

VOLUME

Airport Pkwy Dr 1 & Location #1

Day: Thursday
Date: 12/21/2017City: Clearwater
Project #: FL17_3500_001

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total | | | | | |
|----------------|----|----|-------|-------|-------|----------------|-------|-------|-------|-------|-------|-----|-----|-----|
| | | | | | 0 | 0 | 2,442 | 4,624 | 7,066 | | | | | |
| AM Period | NB | SB | EB | WB | TOTAL | PM Period | NB | SB | EB | WB | TOTAL | | | |
| 00:00 | | | 7 | 2 | 9 | 12:00 | | | 63 | 79 | 142 | | | |
| 00:15 | | | 4 | 0 | 4 | 12:15 | | | 70 | 118 | 188 | | | |
| 00:30 | | | 7 | 2 | 9 | 12:30 | | | 63 | 121 | 184 | | | |
| 00:45 | | | 10 | 28 | 39 | 43 | 12:45 | | 81 | 277 | 98 | 416 | 179 | 693 |
| 01:00 | | | 9 | 45 | 54 | 13:00 | | | 62 | 104 | 166 | | | |
| 01:15 | | | 5 | 11 | 16 | 13:15 | | | 55 | 114 | 169 | | | |
| 01:30 | | | 1 | 0 | 1 | 13:30 | | | 65 | 144 | 209 | | | |
| 01:45 | | | 0 | 15 | 3 | 59 | 13:45 | | 49 | 231 | 164 | 526 | 213 | 757 |
| 02:00 | | | 2 | 3 | 5 | 14:00 | | | 43 | 117 | 160 | | | |
| 02:15 | | | 1 | 3 | 4 | 14:15 | | | 48 | 86 | 134 | | | |
| 02:30 | | | 0 | 0 | 0 | 14:30 | | | 36 | 70 | 106 | | | |
| 02:45 | | | 0 | 3 | 0 | 6 | 14:45 | | 28 | 155 | 59 | 332 | 87 | 487 |
| 03:00 | | | 1 | 1 | 2 | 15:00 | | | 25 | 82 | 107 | | | |
| 03:15 | | | 4 | 1 | 5 | 15:15 | | | 34 | 45 | 79 | | | |
| 03:30 | | | 11 | 1 | 12 | 15:30 | | | 18 | 57 | 75 | | | |
| 03:45 | | | 18 | 34 | 2 | 5 | 15:45 | | 31 | 108 | 88 | 272 | 119 | 380 |
| 04:00 | | | 13 | 7 | 20 | 16:00 | | | 22 | 50 | 72 | | | |
| 04:15 | | | 12 | 20 | 32 | 16:15 | | | 23 | 49 | 72 | | | |
| 04:30 | | | 20 | 31 | 51 | 16:30 | | | 14 | 76 | 90 | | | |
| 04:45 | | | 27 | 72 | 40 | 98 | 16:45 | | 21 | 80 | 37 | 212 | 58 | 292 |
| 05:00 | | | 33 | 75 | 108 | 17:00 | | | 19 | 41 | 60 | | | |
| 05:15 | | | 54 | 81 | 135 | 17:15 | | | 19 | 32 | 51 | | | |
| 05:30 | | | 45 | 127 | 172 | 17:30 | | | 17 | 18 | 35 | | | |
| 05:45 | | | 84 | 216 | 116 | 399 | 17:45 | | 31 | 86 | 19 | 110 | 50 | 196 |
| 06:00 | | | 57 | 112 | 169 | 18:00 | | | 47 | 30 | 77 | | | |
| 06:15 | | | 44 | 80 | 124 | 18:15 | | | 37 | 132 | 169 | | | |
| 06:30 | | | 31 | 65 | 96 | 18:30 | | | 31 | 123 | 154 | | | |
| 06:45 | | | 38 | 170 | 51 | 308 | 18:45 | | 21 | 136 | 93 | 378 | 114 | 514 |
| 07:00 | | | 33 | 55 | 88 | 19:00 | | | 17 | 27 | 44 | | | |
| 07:15 | | | 28 | 32 | 60 | 19:15 | | | 20 | 12 | 32 | | | |
| 07:30 | | | 20 | 15 | 35 | 19:30 | | | 29 | 14 | 43 | | | |
| 07:45 | | | 20 | 101 | 23 | 125 | 19:45 | | 41 | 107 | 40 | 93 | 81 | 200 |
| 08:00 | | | 20 | 29 | 49 | 20:00 | | | 44 | 75 | 119 | | | |
| 08:15 | | | 16 | 16 | 32 | 20:15 | | | 29 | 121 | 150 | | | |
| 08:30 | | | 22 | 32 | 54 | 20:30 | | | 27 | 95 | 122 | | | |
| 08:45 | | | 14 | 72 | 13 | 90 | 20:45 | | 24 | 124 | 101 | 392 | 125 | 516 |
| 09:00 | | | 21 | 23 | 44 | 21:00 | | | 26 | 46 | 72 | | | |
| 09:15 | | | 13 | 21 | 34 | 21:15 | | | 13 | 96 | 109 | | | |
| 09:30 | | | 11 | 16 | 27 | 21:30 | | | 9 | 23 | 32 | | | |
| 09:45 | | | 18 | 63 | 15 | 75 | 21:45 | | 4 | 52 | 11 | 176 | 15 | 228 |
| 10:00 | | | 32 | 19 | 51 | 22:00 | | | 6 | 9 | 15 | | | |
| 10:15 | | | 30 | 32 | 62 | 22:15 | | | 11 | 5 | 16 | | | |
| 10:30 | | | 22 | 66 | 88 | 22:30 | | | 9 | 8 | 17 | | | |
| 10:45 | | | 17 | 101 | 36 | 153 | 22:45 | | 17 | 43 | 21 | 43 | 38 | 86 |
| 11:00 | | | 21 | 34 | 55 | 23:00 | | | 6 | 67 | 73 | | | |
| 11:15 | | | 29 | 47 | 76 | 23:15 | | | 6 | 14 | 20 | | | |
| 11:30 | | | 51 | 61 | 112 | 23:30 | | | 3 | 8 | 11 | | | |
| 11:45 | | | 50 | 151 | 79 | 221 | 23:45 | | 2 | 17 | 3 | 92 | 5 | 109 |
| TOTALS | | | 1026 | 1582 | 2608 | TOTALS | | | 1416 | 3042 | 4458 | | | |
| SPLIT % | | | 39.3% | 60.7% | 36.9% | SPLIT % | | | 31.8% | 68.2% | 63.1% | | | |

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total | | |
|-----------------|-------|-------|-------|-------|-------|-----------------|-------|-------|-------|-------|-------|
| | | | | | 0 | 0 | 2,442 | 4,624 | 7,066 | | |
| AM Peak Hour | | | 11:45 | 05:15 | 05:15 | PM Peak Hour | | | 12:00 | 13:15 | 13:00 |
| AM Pk Volume | | | 246 | 436 | 676 | PM Pk Volume | | | 277 | 539 | 757 |
| Pk Hr Factor | | | 0.879 | 0.858 | 0.845 | Pk Hr Factor | | | 0.855 | 0.822 | 0.888 |
| 7 - 9 Volume | 0 | 0 | 173 | 215 | 388 | 4 - 6 Volume | 0 | 0 | 166 | 322 | 488 |
| 7 - 9 Peak Hour | | | 07:00 | 07:00 | 07:00 | 4 - 6 Peak Hour | | | 17:00 | 16:00 | 16:00 |
| 7 - 9 Pk Volume | 0 | 0 | 101 | 125 | 226 | 4 - 6 Pk Volume | 0 | 0 | 86 | 212 | 292 |
| Pk Hr Factor | 0.000 | 0.000 | 0.765 | 0.568 | 0.642 | Pk Hr Factor | 0.000 | 0.000 | 0.694 | 0.697 | 0.811 |

VOLUME

Airport Pkwy Dr Location #2

Day: Thursday
Date: 12/14/2017City: Clearwater
Project #: FL17_3500_002

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total | | |
|----------------|--------------|--------------|----|----|--------------|----------------|--------------|--------------|-------|-----|--------------|
| | | | | | 999 | 1,099 | 0 | 0 | 2,098 | | |
| AM Period | NB | SB | EB | WB | TOTAL | PM Period | NB | SB | EB | WB | TOTAL |
| 00:00 | 2 | 0 | | | 2 | 12:00 | 13 | 20 | | | 33 |
| 00:15 | 0 | 0 | | | 0 | 12:15 | 14 | 24 | | | 38 |
| 00:30 | 0 | 0 | | | 0 | 12:30 | 29 | 29 | | | 58 |
| 00:45 | 0 | 2 | 1 | 1 | 1 | 12:45 | 22 | 78 | 23 | 96 | 174 |
| 01:00 | 7 | 1 | | | 8 | 13:00 | 18 | 27 | | | 45 |
| 01:15 | 1 | 2 | | | 3 | 13:15 | 24 | 24 | | | 48 |
| 01:30 | 1 | 0 | | | 1 | 13:30 | 33 | 32 | | | 65 |
| 01:45 | 0 | 9 | 0 | 3 | 0 | 13:45 | 28 | 103 | 26 | 109 | 212 |
| 02:00 | 0 | 0 | | | 0 | 14:00 | 24 | 29 | | | 53 |
| 02:15 | 0 | 1 | | | 1 | 14:15 | 36 | 23 | | | 59 |
| 02:30 | 0 | 0 | | | 0 | 14:30 | 26 | 25 | | | 51 |
| 02:45 | 0 | 0 | 1 | | 0 | 14:45 | 43 | 129 | 16 | 93 | 222 |
| 03:00 | 0 | 0 | | | 0 | 15:00 | 26 | 12 | | | 38 |
| 03:15 | 1 | 2 | | | 3 | 15:15 | 13 | 14 | | | 27 |
| 03:30 | 0 | 5 | | | 5 | 15:30 | 10 | 14 | | | 24 |
| 03:45 | 7 | 8 | 16 | 23 | 23 | 15:45 | 6 | 55 | 13 | 53 | 108 |
| 04:00 | 5 | 6 | | | 11 | 16:00 | 9 | 11 | | | 20 |
| 04:15 | 4 | 8 | | | 12 | 16:15 | 4 | 9 | | | 13 |
| 04:30 | 0 | 1 | | | 1 | 16:30 | 10 | 17 | | | 27 |
| 04:45 | 3 | 12 | 6 | 21 | 9 | 16:45 | 19 | 42 | 11 | 48 | 90 |
| 05:00 | 1 | 1 | | | 2 | 17:00 | 20 | 5 | | | 25 |
| 05:15 | 4 | 4 | | | 8 | 17:15 | 9 | 11 | | | 20 |
| 05:30 | 3 | 11 | | | 14 | 17:30 | 8 | 8 | | | 16 |
| 05:45 | 6 | 14 | 12 | 28 | 18 | 17:45 | 15 | 52 | 18 | 42 | 94 |
| 06:00 | 3 | 9 | | | 12 | 18:00 | 24 | 17 | | | 41 |
| 06:15 | 6 | 6 | | | 12 | 18:15 | 18 | 12 | | | 30 |
| 06:30 | 5 | 8 | | | 13 | 18:30 | 22 | 26 | | | 48 |
| 06:45 | 7 | 21 | 22 | 45 | 29 | 18:45 | 34 | 98 | 9 | 64 | 162 |
| 07:00 | 8 | 16 | | | 24 | 19:00 | 19 | 12 | | | 31 |
| 07:15 | 3 | 23 | | | 26 | 19:15 | 5 | 17 | | | 22 |
| 07:30 | 4 | 15 | | | 19 | 19:30 | 5 | 23 | | | 28 |
| 07:45 | 5 | 20 | 9 | 63 | 14 | 19:45 | 28 | 57 | 20 | 72 | 129 |
| 08:00 | 5 | 6 | | | 11 | 20:00 | 24 | 12 | | | 36 |
| 08:15 | 3 | 10 | | | 13 | 20:15 | 17 | 22 | | | 39 |
| 08:30 | 9 | 21 | | | 30 | 20:30 | 17 | 19 | | | 36 |
| 08:45 | 7 | 24 | 10 | 47 | 17 | 20:45 | 22 | 80 | 13 | 66 | 146 |
| 09:00 | 16 | 12 | | | 28 | 21:00 | 21 | 6 | | | 27 |
| 09:15 | 7 | 6 | | | 13 | 21:15 | 14 | 4 | | | 18 |
| 09:30 | 5 | 10 | | | 15 | 21:30 | 4 | 4 | | | 8 |
| 09:45 | 10 | 38 | 8 | 36 | 18 | 21:45 | 3 | 42 | 11 | 25 | 67 |
| 10:00 | 4 | 6 | | | 10 | 22:00 | 4 | 23 | | | 27 |
| 10:15 | 2 | 7 | | | 9 | 22:15 | 22 | 8 | | | 30 |
| 10:30 | 5 | 6 | | | 11 | 22:30 | 26 | 4 | | | 30 |
| 10:45 | 3 | 14 | 11 | 30 | 14 | 22:45 | 13 | 65 | 3 | 38 | 103 |
| 11:00 | 5 | 10 | | | 15 | 23:00 | 3 | 5 | | | 8 |
| 11:15 | 14 | 17 | | | 31 | 23:15 | 1 | 3 | | | 4 |
| 11:30 | 4 | 29 | | | 33 | 23:30 | 1 | 1 | | | 2 |
| 11:45 | 7 | 30 | 29 | 85 | 36 | 23:45 | 1 | 6 | 1 | 10 | 16 |
| TOTALS | 192 | 383 | | | 575 | TOTALS | 807 | 716 | | | 1523 |
| SPLIT % | 33.4% | 66.6% | | | 27.4% | SPLIT % | 53.0% | 47.0% | | | 72.6% |

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total |
|-----------------|-------|-------|-------|-------|-------|-----------------|-------|-------|-------|
| | | | | | 999 | 1,099 | 0 | 0 | 2,098 |
| AM Peak Hour | 11:45 | 11:30 | | | 11:45 | PM Peak Hour | 14:15 | 13:15 | 13:30 |
| AM Pk Volume | 63 | 102 | | | 165 | PM Pk Volume | 131 | 111 | 231 |
| Pk Hr Factor | 0.543 | 0.879 | | | 0.711 | Pk Hr Factor | 0.762 | 0.867 | 0.888 |
| 7 - 9 Volume | 44 | 110 | 0 | 0 | 154 | 4 - 6 Volume | 94 | 90 | 184 |
| 7 - 9 Peak Hour | 08:00 | 07:00 | | | 07:00 | 4 - 6 Peak Hour | 16:30 | 16:00 | 16:30 |
| 7 - 9 Pk Volume | 24 | 63 | 0 | 0 | 83 | 4 - 6 Pk Volume | 58 | 48 | 102 |
| Pk Hr Factor | 0.667 | 0.685 | 0.000 | 0.000 | 0.798 | Pk Hr Factor | 0.725 | 0.706 | 0.850 |

VOLUME

Airport Pkwy Dr Location #2

Day: Friday
Date: 12/15/2017

City: Clearwater
Project #: FL17_3500_002

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total | | |
|----------------|--------------|--------------|----|----|--------------|----------------|--------------|--------------|-------|-----|--------------|
| | | | | | 1,077 | 1,132 | 0 | 0 | 2,209 | | |
| AM Period | NB | SB | EB | WB | TOTAL | PM Period | NB | SB | EB | WB | TOTAL |
| 00:00 | 0 | 0 | | | 0 | 12:00 | 28 | 21 | | | 49 |
| 00:15 | 0 | 2 | | | 2 | 12:15 | 14 | 20 | | | 34 |
| 00:30 | 0 | 0 | | | 0 | 12:30 | 9 | 33 | | | 42 |
| 00:45 | 5 | 5 | 0 | 2 | 12 | 12:45 | 21 | 72 | 32 | 106 | 178 |
| 01:00 | 0 | 0 | | | 0 | 13:00 | 24 | 26 | | | 50 |
| 01:15 | 2 | 3 | | | 5 | 13:15 | 31 | 31 | | | 62 |
| 01:30 | 0 | 0 | | | 0 | 13:30 | 26 | 38 | | | 64 |
| 01:45 | 3 | 5 | 3 | 6 | 17 | 13:45 | 58 | 139 | 28 | 123 | 262 |
| 02:00 | 0 | 0 | | | 0 | 14:00 | 25 | 26 | | | 51 |
| 02:15 | 0 | 0 | | | 0 | 14:15 | 37 | 12 | | | 49 |
| 02:30 | 1 | 1 | | | 2 | 14:30 | 32 | 16 | | | 48 |
| 02:45 | 0 | 1 | 0 | 1 | 2 | 14:45 | 11 | 105 | 12 | 66 | 171 |
| 03:00 | 1 | 0 | | | 1 | 15:00 | 7 | 10 | | | 17 |
| 03:15 | 1 | 3 | | | 4 | 15:15 | 7 | 10 | | | 17 |
| 03:30 | 2 | 6 | | | 8 | 15:30 | 13 | 15 | | | 28 |
| 03:45 | 4 | 8 | 10 | 19 | 31 | 15:45 | 9 | 36 | 15 | 50 | 86 |
| 04:00 | 3 | 7 | | | 10 | 16:00 | 24 | 18 | | | 42 |
| 04:15 | 3 | 6 | | | 9 | 16:15 | 16 | 25 | | | 41 |
| 04:30 | 3 | 4 | | | 7 | 16:30 | 24 | 12 | | | 36 |
| 04:45 | 5 | 14 | 9 | 26 | 54 | 16:45 | 19 | 83 | 10 | 65 | 148 |
| 05:00 | 1 | 4 | | | 5 | 17:00 | 7 | 13 | | | 20 |
| 05:15 | 5 | 10 | | | 15 | 17:15 | 7 | 15 | | | 22 |
| 05:30 | 5 | 12 | | | 17 | 17:30 | 21 | 13 | | | 34 |
| 05:45 | 6 | 17 | 10 | 36 | 69 | 17:45 | 14 | 49 | 13 | 54 | 103 |
| 06:00 | 3 | 9 | | | 12 | 18:00 | 1 | 9 | | | 10 |
| 06:15 | 3 | 6 | | | 9 | 18:15 | 11 | 18 | | | 29 |
| 06:30 | 1 | 4 | | | 5 | 18:30 | 23 | 11 | | | 34 |
| 06:45 | 4 | 11 | 12 | 31 | 48 | 18:45 | 24 | 59 | 10 | 48 | 107 |
| 07:00 | 6 | 15 | | | 21 | 19:00 | 10 | 14 | | | 24 |
| 07:15 | 3 | 15 | | | 18 | 19:15 | 17 | 21 | | | 38 |
| 07:30 | 2 | 11 | | | 13 | 19:30 | 19 | 27 | | | 46 |
| 07:45 | 5 | 16 | 14 | 55 | 76 | 19:45 | 46 | 92 | 23 | 85 | 177 |
| 08:00 | 7 | 5 | | | 12 | 20:00 | 35 | 13 | | | 48 |
| 08:15 | 3 | 6 | | | 9 | 20:15 | 10 | 17 | | | 27 |
| 08:30 | 3 | 8 | | | 11 | 20:30 | 6 | 23 | | | 29 |
| 08:45 | 2 | 15 | 12 | 31 | 50 | 20:45 | 16 | 67 | 21 | 74 | 141 |
| 09:00 | 8 | 7 | | | 15 | 21:00 | 45 | 11 | | | 56 |
| 09:15 | 3 | 9 | | | 12 | 21:15 | 6 | 16 | | | 22 |
| 09:30 | 10 | 9 | | | 19 | 21:30 | 9 | 17 | | | 26 |
| 09:45 | 6 | 27 | 8 | 33 | 74 | 21:45 | 42 | 102 | 10 | 54 | 156 |
| 10:00 | 5 | 11 | | | 16 | 22:00 | 9 | 16 | | | 25 |
| 10:15 | 6 | 14 | | | 20 | 22:15 | 13 | 4 | | | 17 |
| 10:30 | 8 | 9 | | | 17 | 22:30 | 15 | 10 | | | 25 |
| 10:45 | 11 | 30 | 12 | 46 | 89 | 22:45 | 5 | 42 | 11 | 41 | 83 |
| 11:00 | 19 | 7 | | | 26 | 23:00 | 11 | 7 | | | 18 |
| 11:15 | 12 | 21 | | | 33 | 23:15 | 13 | 1 | | | 14 |
| 11:30 | 7 | 20 | | | 27 | 23:30 | 3 | 1 | | | 4 |
| 11:45 | 13 | 51 | 22 | 70 | 156 | 23:45 | 4 | 31 | 1 | 10 | 41 |
| TOTALS | 200 | 356 | | | 556 | TOTALS | 877 | 776 | | | 1653 |
| SPLIT % | 36.0% | 64.0% | | | 25.2% | SPLIT % | 53.1% | 46.9% | | | 74.8% |

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total |
|-----------------|-------|-------|-------|-------|-------|-----------------|-------|-------|-------|
| | | | | | 1,077 | 1,132 | 0 | 0 | 2,209 |
| AM Peak Hour | 11:45 | 11:45 | | | 11:45 | PM Peak Hour | 13:45 | 12:45 | 13:15 |
| AM Pk Volume | 64 | 96 | | | 160 | PM Pk Volume | 152 | 127 | 263 |
| Pk Hr Factor | 0.571 | 0.727 | | | 0.816 | Pk Hr Factor | 0.655 | 0.836 | 0.765 |
| 7 - 9 Volume | 31 | 86 | 0 | 0 | 117 | 4 - 6 Volume | 132 | 119 | 251 |
| 7 - 9 Peak Hour | 07:45 | 07:00 | | | 07:00 | 4 - 6 Peak Hour | 16:00 | 16:00 | 16:00 |
| 7 - 9 Pk Volume | 18 | 55 | 0 | 0 | 71 | 4 - 6 Pk Volume | 83 | 65 | 148 |
| Pk Hr Factor | 0.643 | 0.917 | 0.000 | 0.000 | 0.845 | Pk Hr Factor | 0.865 | 0.650 | 0.881 |

VOLUME

Airport Pkwy Dr Location #3

Day: Thursday
Date: 12/14/2017City: Clearwater
Project #: FL17_3500_003

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total | | |
|----------------|--------|-----|----|----|--------------|----------------|--------|-----|-------|----|--------------|
| | | | | | 2,226 | 0 | 0 | 0 | 2,226 | | |
| AM Period | NB | SB | EB | WB | TOTAL | PM Period | NB | SB | EB | WB | TOTAL |
| 00:00 | 1 | 0 | | | 1 | 12:00 | 58 | 0 | | | 58 |
| 00:15 | 0 | 0 | | | 0 | 12:15 | 52 | 0 | | | 52 |
| 00:30 | 0 | 0 | | | 0 | 12:30 | 47 | 0 | | | 47 |
| 00:45 | 2 | 3 | 0 | | 2 3 | 12:45 | 65 | 222 | 0 | | 65 222 |
| 01:00 | 0 | 0 | | | 0 | 13:00 | 58 | 0 | | | 58 |
| 01:15 | 1 | 0 | | | 1 | 13:15 | 53 | 0 | | | 53 |
| 01:30 | 0 | 0 | | | 0 | 13:30 | 56 | 0 | | | 56 |
| 01:45 | 1 | 2 | 0 | | 1 2 | 13:45 | 74 | 241 | 0 | | 74 241 |
| 02:00 | 0 | 0 | | | 0 | 14:00 | 40 | 0 | | | 40 |
| 02:15 | 0 | 0 | | | 0 | 14:15 | 34 | 0 | | | 34 |
| 02:30 | 1 | 0 | | | 1 | 14:30 | 48 | 0 | | | 48 |
| 02:45 | 0 | 1 | 0 | | 0 1 | 14:45 | 37 | 159 | 0 | | 37 159 |
| 03:00 | 1 | 0 | | | 1 | 15:00 | 21 | 0 | | | 21 |
| 03:15 | 1 | 0 | | | 1 | 15:15 | 26 | 0 | | | 26 |
| 03:30 | 2 | 0 | | | 2 | 15:30 | 21 | 0 | | | 21 |
| 03:45 | 6 | 10 | 0 | | 6 10 | 15:45 | 13 | 81 | 0 | | 13 81 |
| 04:00 | 10 | 0 | | | 10 | 16:00 | 14 | 0 | | | 14 |
| 04:15 | 10 | 0 | | | 10 | 16:15 | 17 | 0 | | | 17 |
| 04:30 | 24 | 0 | | | 24 | 16:30 | 21 | 0 | | | 21 |
| 04:45 | 39 | 83 | 0 | | 39 83 | 16:45 | 19 | 71 | 0 | | 19 71 |
| 05:00 | 45 | 0 | | | 45 | 17:00 | 17 | 0 | | | 17 |
| 05:15 | 70 | 0 | | | 70 | 17:15 | 18 | 0 | | | 18 |
| 05:30 | 57 | 0 | | | 57 | 17:30 | 29 | 0 | | | 29 |
| 05:45 | 76 | 248 | 0 | | 76 248 | 17:45 | 35 | 99 | 0 | | 35 99 |
| 06:00 | 51 | 0 | | | 51 | 18:00 | 38 | 0 | | | 38 |
| 06:15 | 49 | 0 | | | 49 | 18:15 | 32 | 0 | | | 32 |
| 06:30 | 45 | 0 | | | 45 | 18:30 | 38 | 0 | | | 38 |
| 06:45 | 21 | 166 | 0 | | 21 166 | 18:45 | 17 | 125 | 0 | | 17 125 |
| 07:00 | 25 | 0 | | | 25 | 19:00 | 10 | 0 | | | 10 |
| 07:15 | 11 | 0 | | | 11 | 19:15 | 17 | 0 | | | 17 |
| 07:30 | 8 | 0 | | | 8 | 19:30 | 28 | 0 | | | 28 |
| 07:45 | 10 | 54 | 0 | | 10 54 | 19:45 | 34 | 89 | 0 | | 34 89 |
| 08:00 | 12 | 0 | | | 12 | 20:00 | 32 | 0 | | | 32 |
| 08:15 | 13 | 0 | | | 13 | 20:15 | 36 | 0 | | | 36 |
| 08:30 | 16 | 0 | | | 16 | 20:30 | 29 | 0 | | | 29 |
| 08:45 | 17 | 58 | 0 | | 17 58 | 20:45 | 25 | 122 | 0 | | 25 122 |
| 09:00 | 15 | 0 | | | 15 | 21:00 | 12 | 0 | | | 12 |
| 09:15 | 22 | 0 | | | 22 | 21:15 | 11 | 0 | | | 11 |
| 09:30 | 11 | 0 | | | 11 | 21:30 | 9 | 0 | | | 9 |
| 09:45 | 6 | 54 | 0 | | 6 54 | 21:45 | 15 | 47 | 0 | | 15 47 |
| 10:00 | 7 | 0 | | | 7 | 22:00 | 21 | 0 | | | 21 |
| 10:15 | 7 | 0 | | | 7 | 22:15 | 9 | 0 | | | 9 |
| 10:30 | 20 | 0 | | | 20 | 22:30 | 11 | 0 | | | 11 |
| 10:45 | 26 | 60 | 0 | | 26 60 | 22:45 | 7 | 48 | 0 | | 7 48 |
| 11:00 | 28 | 0 | | | 28 | 23:00 | 10 | 0 | | | 10 |
| 11:15 | 32 | 0 | | | 32 | 23:15 | 7 | 0 | | | 7 |
| 11:30 | 38 | 0 | | | 38 | 23:30 | 3 | 0 | | | 3 |
| 11:45 | 61 | 159 | 0 | | 61 159 | 23:45 | 4 | 24 | 0 | | 4 24 |
| TOTALS | 898 | | | | 898 | TOTALS | 1328 | | | | 1328 |
| SPLIT % | 100.0% | | | | 40.3% | SPLIT % | 100.0% | | | | 59.7% |

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total | | |
|-----------------|-------|-------|-------|-------|-------|-----------------|-------|-------|-------|-------|-------|
| | | | | | 2,226 | 0 | 0 | 0 | 2,226 | | |
| AM Peak Hour | 05:15 | | | | 05:15 | PM Peak Hour | 13:00 | | | | 13:00 |
| AM Pk Volume | 254 | | | | 254 | PM Pk Volume | 241 | | | | 241 |
| Pk Hr Factor | 0.836 | | | | 0.836 | Pk Hr Factor | 0.814 | | | | 0.814 |
| 7 - 9 Volume | 112 | 0 | 0 | 0 | 112 | 4 - 6 Volume | 170 | 0 | 0 | 170 | |
| 7 - 9 Peak Hour | 08:00 | | | | 08:00 | 4 - 6 Peak Hour | 17:00 | | | | 17:00 |
| 7 - 9 Pk Volume | 58 | 0 | 0 | 0 | 58 | 4 - 6 Pk Volume | 99 | 0 | 0 | 99 | |
| Pk Hr Factor | 0.853 | 0.000 | 0.000 | 0.000 | 0.853 | Pk Hr Factor | 0.707 | 0.000 | 0.000 | 0.707 | |

VOLUME

Airport Pkwy Dr Location #3

Day: Friday
Date: 12/15/2017City: Clearwater
Project #: FL17_3500_003

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total | | |
|----------------|--------|-----|----|----|--------------|----------------|--------|-----|-------|----|--------------|
| | | | | | 2,471 | 0 | 0 | 0 | 2,471 | | |
| AM Period | NB | SB | EB | WB | TOTAL | PM Period | NB | SB | EB | WB | TOTAL |
| 00:00 | 0 | 0 | | | 0 | 12:00 | 66 | 0 | | | 66 |
| 00:15 | 0 | 0 | | | 0 | 12:15 | 63 | 0 | | | 63 |
| 00:30 | 0 | 0 | | | 0 | 12:30 | 68 | 0 | | | 68 |
| 00:45 | 1 | 1 | 0 | | 1 | 12:45 | 72 | 269 | 0 | | 72 |
| 01:00 | 0 | 0 | | | 0 | 13:00 | 63 | 0 | | | 63 |
| 01:15 | 0 | 0 | | | 0 | 13:15 | 65 | 0 | | | 65 |
| 01:30 | 1 | 0 | | | 1 | 13:30 | 54 | 0 | | | 54 |
| 01:45 | 0 | 1 | 0 | | 0 | 13:45 | 36 | 218 | 0 | | 36 |
| 02:00 | 0 | 0 | | | 0 | 14:00 | 30 | 0 | | | 30 |
| 02:15 | 0 | 0 | | | 0 | 14:15 | 34 | 0 | | | 34 |
| 02:30 | 0 | 0 | | | 0 | 14:30 | 31 | 0 | | | 31 |
| 02:45 | 0 | 0 | | | 0 | 14:45 | 31 | 126 | 0 | | 31 |
| 03:00 | 0 | 0 | | | 0 | 15:00 | 39 | 0 | | | 39 |
| 03:15 | 0 | 0 | | | 0 | 15:15 | 35 | 0 | | | 35 |
| 03:30 | 1 | 0 | | | 1 | 15:30 | 33 | 0 | | | 33 |
| 03:45 | 3 | 4 | 0 | | 3 | 15:45 | 35 | 142 | 0 | | 35 |
| 04:00 | 5 | 0 | | | 5 | 16:00 | 41 | 0 | | | 41 |
| 04:15 | 12 | 0 | | | 12 | 16:15 | 34 | 0 | | | 34 |
| 04:30 | 21 | 0 | | | 21 | 16:30 | 30 | 0 | | | 30 |
| 04:45 | 43 | 81 | 0 | | 43 | 16:45 | 28 | 133 | 0 | | 28 |
| 05:00 | 52 | 0 | | | 52 | 17:00 | 33 | 0 | | | 33 |
| 05:15 | 61 | 0 | | | 61 | 17:15 | 27 | 0 | | | 27 |
| 05:30 | 66 | 0 | | | 66 | 17:30 | 24 | 0 | | | 24 |
| 05:45 | 60 | 239 | 0 | | 60 | 17:45 | 29 | 113 | 0 | | 29 |
| 06:00 | 48 | 0 | | | 48 | 18:00 | 24 | 0 | | | 24 |
| 06:15 | 44 | 0 | | | 44 | 18:15 | 22 | 0 | | | 22 |
| 06:30 | 32 | 0 | | | 32 | 18:30 | 15 | 0 | | | 15 |
| 06:45 | 17 | 141 | 0 | | 17 | 18:45 | 15 | 76 | 0 | | 15 |
| 07:00 | 29 | 0 | | | 29 | 19:00 | 21 | 0 | | | 21 |
| 07:15 | 15 | 0 | | | 15 | 19:15 | 31 | 0 | | | 31 |
| 07:30 | 13 | 0 | | | 13 | 19:30 | 29 | 0 | | | 29 |
| 07:45 | 18 | 75 | 0 | | 18 | 19:45 | 24 | 105 | 0 | | 24 |
| 08:00 | 11 | 0 | | | 11 | 20:00 | 19 | 0 | | | 19 |
| 08:15 | 11 | 0 | | | 11 | 20:15 | 23 | 0 | | | 23 |
| 08:30 | 11 | 0 | | | 11 | 20:30 | 34 | 0 | | | 34 |
| 08:45 | 8 | 41 | 0 | | 8 | 20:45 | 28 | 104 | 0 | | 28 |
| 09:00 | 13 | 0 | | | 13 | 21:00 | 25 | 0 | | | 25 |
| 09:15 | 14 | 0 | | | 14 | 21:15 | 13 | 0 | | | 13 |
| 09:30 | 18 | 0 | | | 18 | 21:30 | 26 | 0 | | | 26 |
| 09:45 | 22 | 67 | 0 | | 22 | 21:45 | 21 | 85 | 0 | | 21 |
| 10:00 | 17 | 0 | | | 17 | 22:00 | 22 | 0 | | | 22 |
| 10:15 | 18 | 0 | | | 18 | 22:15 | 20 | 0 | | | 20 |
| 10:30 | 37 | 0 | | | 37 | 22:30 | 18 | 0 | | | 18 |
| 10:45 | 56 | 128 | 0 | | 56 | 22:45 | 22 | 82 | 0 | | 22 |
| 11:00 | 41 | 0 | | | 41 | 23:00 | 13 | 0 | | | 13 |
| 11:15 | 49 | 0 | | | 49 | 23:15 | 5 | 0 | | | 5 |
| 11:30 | 60 | 0 | | | 60 | 23:30 | 4 | 0 | | | 4 |
| 11:45 | 66 | 216 | 0 | | 66 | 23:45 | 2 | 24 | 0 | | 2 |
| TOTALS | 994 | | | | 994 | TOTALS | 1477 | | | | 1477 |
| SPLIT % | 100.0% | | | | 40.2% | SPLIT % | 100.0% | | | | 59.8% |

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total | |
|-----------------|-------|-------|-------|-------|-------|-----------------|-------|-------|-------|-------|
| | | | | | 2,471 | 0 | 0 | 0 | 2,471 | |
| AM Peak Hour | 11:45 | | | | 11:45 | | | | 12:00 | |
| AM Pk Volume | 263 | | | | 263 | | | | 269 | |
| Pk Hr Factor | 0.967 | | | | 0.967 | | | | 0.934 | |
| 7 - 9 Volume | 116 | 0 | 0 | 0 | 116 | 4 - 6 Volume | 246 | 0 | 0 | 246 |
| 7 - 9 Peak Hour | 07:00 | | | | 07:00 | 4 - 6 Peak Hour | 16:00 | | | 16:00 |
| 7 - 9 Pk Volume | 75 | 0 | 0 | 0 | 75 | 4 - 6 Pk Volume | 133 | 0 | 0 | 133 |
| Pk Hr Factor | 0.647 | 0.000 | 0.000 | 0.000 | 0.647 | Pk Hr Factor | 0.811 | 0.000 | 0.000 | 0.811 |

VOLUME

Airport Pkwy Dr Location #4

Day: Thursday
Date: 12/14/2017City: Clearwater
Project #: FL17_3500_004

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total | | |
|----------------|--------|-----|----|----|--------------|----------------|--------|-----|-------|----|--------------|
| | | | | | 4,670 | 0 | 0 | 0 | 4,670 | | |
| AM Period | NB | SB | EB | WB | TOTAL | PM Period | NB | SB | EB | WB | TOTAL |
| 00:00 | 5 | 0 | | | 5 | 12:00 | 106 | 0 | | | 106 |
| 00:15 | 0 | 0 | | | 0 | 12:15 | 117 | 0 | | | 117 |
| 00:30 | 0 | 0 | | | 0 | 12:30 | 120 | 0 | | | 120 |
| 00:45 | 1 | 6 | 0 | | 1 6 | 12:45 | 112 | 455 | 0 | | 112 455 |
| 01:00 | 1 | 0 | | | 1 | 13:00 | 105 | 0 | | | 105 |
| 01:15 | 1 | 0 | | | 1 | 13:15 | 114 | 0 | | | 114 |
| 01:30 | 2 | 0 | | | 2 | 13:30 | 131 | 0 | | | 131 |
| 01:45 | 1 | 5 | 0 | | 1 5 | 13:45 | 128 | 478 | 0 | | 128 478 |
| 02:00 | 0 | 0 | | | 0 | 14:00 | 124 | 0 | | | 124 |
| 02:15 | 1 | 0 | | | 1 | 14:15 | 102 | 0 | | | 102 |
| 02:30 | 2 | 0 | | | 2 | 14:30 | 121 | 0 | | | 121 |
| 02:45 | 0 | 3 | 0 | | 0 3 | 14:45 | 90 | 437 | 0 | | 90 437 |
| 03:00 | 2 | 0 | | | 2 | 15:00 | 56 | 0 | | | 56 |
| 03:15 | 3 | 0 | | | 3 | 15:15 | 52 | 0 | | | 52 |
| 03:30 | 9 | 0 | | | 9 | 15:30 | 34 | 0 | | | 34 |
| 03:45 | 23 | 37 | 0 | | 23 37 | 15:45 | 35 | 177 | 0 | | 35 177 |
| 04:00 | 17 | 0 | | | 17 | 16:00 | 23 | 0 | | | 23 |
| 04:15 | 20 | 0 | | | 20 | 16:15 | 29 | 0 | | | 29 |
| 04:30 | 34 | 0 | | | 34 | 16:30 | 36 | 0 | | | 36 |
| 04:45 | 67 | 138 | 0 | | 67 138 | 16:45 | 51 | 139 | 0 | | 51 139 |
| 05:00 | 92 | 0 | | | 92 | 17:00 | 35 | 0 | | | 35 |
| 05:15 | 136 | 0 | | | 136 | 17:15 | 29 | 0 | | | 29 |
| 05:30 | 129 | 0 | | | 129 | 17:30 | 41 | 0 | | | 41 |
| 05:45 | 144 | 501 | 0 | | 144 501 | 17:45 | 72 | 177 | 0 | | 72 177 |
| 06:00 | 95 | 0 | | | 95 | 18:00 | 67 | 0 | | | 67 |
| 06:15 | 74 | 0 | | | 74 | 18:15 | 59 | 0 | | | 59 |
| 06:30 | 84 | 0 | | | 84 | 18:30 | 84 | 0 | | | 84 |
| 06:45 | 63 | 316 | 0 | | 63 316 | 18:45 | 53 | 263 | 0 | | 53 263 |
| 07:00 | 54 | 0 | | | 54 | 19:00 | 20 | 0 | | | 20 |
| 07:15 | 43 | 0 | | | 43 | 19:15 | 37 | 0 | | | 37 |
| 07:30 | 27 | 0 | | | 27 | 19:30 | 54 | 0 | | | 54 |
| 07:45 | 24 | 148 | 0 | | 24 148 | 19:45 | 74 | 185 | 0 | | 74 185 |
| 08:00 | 25 | 0 | | | 25 | 20:00 | 94 | 0 | | | 94 |
| 08:15 | 28 | 0 | | | 28 | 20:15 | 82 | 0 | | | 82 |
| 08:30 | 44 | 0 | | | 44 | 20:30 | 61 | 0 | | | 61 |
| 08:45 | 34 | 131 | 0 | | 34 131 | 20:45 | 64 | 301 | 0 | | 64 301 |
| 09:00 | 36 | 0 | | | 36 | 21:00 | 29 | 0 | | | 29 |
| 09:15 | 38 | 0 | | | 38 | 21:15 | 10 | 0 | | | 10 |
| 09:30 | 25 | 0 | | | 25 | 21:30 | 13 | 0 | | | 13 |
| 09:45 | 20 | 119 | 0 | | 20 119 | 21:45 | 26 | 78 | 0 | | 26 78 |
| 10:00 | 17 | 0 | | | 17 | 22:00 | 46 | 0 | | | 46 |
| 10:15 | 21 | 0 | | | 21 | 22:15 | 26 | 0 | | | 26 |
| 10:30 | 28 | 0 | | | 28 | 22:30 | 30 | 0 | | | 30 |
| 10:45 | 44 | 110 | 0 | | 44 110 | 22:45 | 22 | 124 | 0 | | 22 124 |
| 11:00 | 47 | 0 | | | 47 | 23:00 | 20 | 0 | | | 20 |
| 11:15 | 63 | 0 | | | 63 | 23:15 | 10 | 0 | | | 10 |
| 11:30 | 88 | 0 | | | 88 | 23:30 | 3 | 0 | | | 3 |
| 11:45 | 110 | 308 | 0 | | 110 308 | 23:45 | 1 | 34 | 0 | | 1 34 |
| TOTALS | 1822 | | | | 1822 | TOTALS | 2848 | | | | 2848 |
| SPLIT % | 100.0% | | | | 39.0% | SPLIT % | 100.0% | | | | 61.0% |

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total | |
|-----------------|-------|-------|-------|-------|-------|-----------------|-------|-------|-------|-------|
| | | | | | 4,670 | 0 | 0 | 0 | 4,670 | |
| AM Peak Hour | 05:15 | | | | 05:15 | PM Peak Hour | 13:15 | | 13:15 | |
| AM Pk Volume | 504 | | | | 504 | PM Pk Volume | 497 | | 497 | |
| Pk Hr Factor | 0.875 | | | | 0.875 | Pk Hr Factor | 0.948 | | 0.948 | |
| 7 - 9 Volume | 279 | 0 | 0 | 0 | 279 | 4 - 6 Volume | 316 | 0 | 0 | 316 |
| 7 - 9 Peak Hour | 07:00 | | | | 07:00 | 4 - 6 Peak Hour | 17:00 | | | 17:00 |
| 7 - 9 Pk Volume | 148 | 0 | 0 | 0 | 148 | 4 - 6 Pk Volume | 177 | 0 | 0 | 177 |
| Pk Hr Factor | 0.685 | 0.000 | 0.000 | 0.000 | 0.685 | Pk Hr Factor | 0.615 | 0.000 | 0.000 | 0.615 |

VOLUME

Airport Pkwy Dr Location #4

Day: Friday
Date: 12/15/2017City: Clearwater
Project #: FL17_3500_004

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total | | |
|----------------|--------|-----|----|----|--------------|----------------|--------|-----|-------|----|--------------|
| | | | | | 5,169 | 0 | 0 | 0 | 5,169 | | |
| AM Period | NB | SB | EB | WB | TOTAL | PM Period | NB | SB | EB | WB | TOTAL |
| 00:00 | 1 | 0 | | | 1 | 12:00 | 133 | 0 | | | 133 |
| 00:15 | 1 | 0 | | | 1 | 12:15 | 128 | 0 | | | 128 |
| 00:30 | 0 | 0 | | | 0 | 12:30 | 151 | 0 | | | 151 |
| 00:45 | 2 | 4 | 0 | | 2 | 12:45 | 154 | 566 | 0 | | 566 |
| 01:00 | 0 | 0 | | | 0 | 13:00 | 142 | 0 | | | 142 |
| 01:15 | 3 | 0 | | | 3 | 13:15 | 136 | 0 | | | 136 |
| 01:30 | 2 | 0 | | | 2 | 13:30 | 125 | 0 | | | 125 |
| 01:45 | 2 | 7 | 0 | | 2 | 13:45 | 110 | 513 | 0 | | 513 |
| 02:00 | 0 | 0 | | | 0 | 14:00 | 86 | 0 | | | 86 |
| 02:15 | 0 | 0 | | | 0 | 14:15 | 65 | 0 | | | 65 |
| 02:30 | 2 | 0 | | | 2 | 14:30 | 73 | 0 | | | 73 |
| 02:45 | 0 | 2 | 0 | | 0 | 14:45 | 63 | 287 | 0 | | 287 |
| 03:00 | 0 | 0 | | | 0 | 15:00 | 63 | 0 | | | 63 |
| 03:15 | 4 | 0 | | | 4 | 15:15 | 62 | 0 | | | 62 |
| 03:30 | 5 | 0 | | | 5 | 15:30 | 58 | 0 | | | 58 |
| 03:45 | 14 | 23 | 0 | | 14 | 15:45 | 65 | 248 | 0 | | 248 |
| 04:00 | 16 | 0 | | | 16 | 16:00 | 80 | 0 | | | 80 |
| 04:15 | 23 | 0 | | | 23 | 16:15 | 80 | 0 | | | 80 |
| 04:30 | 31 | 0 | | | 31 | 16:30 | 66 | 0 | | | 66 |
| 04:45 | 70 | 140 | 0 | | 70 | 16:45 | 53 | 279 | 0 | | 279 |
| 05:00 | 81 | 0 | | | 81 | 17:00 | 57 | 0 | | | 57 |
| 05:15 | 122 | 0 | | | 122 | 17:15 | 56 | 0 | | | 56 |
| 05:30 | 119 | 0 | | | 119 | 17:30 | 60 | 0 | | | 60 |
| 05:45 | 115 | 437 | 0 | | 115 | 17:45 | 55 | 228 | 0 | | 228 |
| 06:00 | 89 | 0 | | | 89 | 18:00 | 36 | 0 | | | 36 |
| 06:15 | 75 | 0 | | | 75 | 18:15 | 54 | 0 | | | 54 |
| 06:30 | 50 | 0 | | | 50 | 18:30 | 51 | 0 | | | 51 |
| 06:45 | 52 | 266 | 0 | | 52 | 18:45 | 47 | 188 | 0 | | 188 |
| 07:00 | 68 | 0 | | | 68 | 19:00 | 37 | 0 | | | 37 |
| 07:15 | 47 | 0 | | | 47 | 19:15 | 50 | 0 | | | 50 |
| 07:30 | 38 | 0 | | | 38 | 19:30 | 66 | 0 | | | 66 |
| 07:45 | 41 | 194 | 0 | | 41 | 19:45 | 88 | 241 | 0 | | 241 |
| 08:00 | 30 | 0 | | | 30 | 20:00 | 59 | 0 | | | 59 |
| 08:15 | 27 | 0 | | | 27 | 20:15 | 49 | 0 | | | 49 |
| 08:30 | 31 | 0 | | | 31 | 20:30 | 62 | 0 | | | 62 |
| 08:45 | 29 | 117 | 0 | | 29 | 20:45 | 60 | 230 | 0 | | 230 |
| 09:00 | 23 | 0 | | | 23 | 21:00 | 60 | 0 | | | 60 |
| 09:15 | 36 | 0 | | | 36 | 21:15 | 37 | 0 | | | 37 |
| 09:30 | 29 | 0 | | | 29 | 21:30 | 52 | 0 | | | 52 |
| 09:45 | 46 | 134 | 0 | | 46 | 21:45 | 46 | 195 | 0 | | 195 |
| 10:00 | 45 | 0 | | | 45 | 22:00 | 45 | 0 | | | 45 |
| 10:15 | 44 | 0 | | | 44 | 22:15 | 32 | 0 | | | 32 |
| 10:30 | 64 | 0 | | | 64 | 22:30 | 37 | 0 | | | 37 |
| 10:45 | 94 | 247 | 0 | | 94 | 22:45 | 36 | 150 | 0 | | 150 |
| 11:00 | 89 | 0 | | | 89 | 23:00 | 28 | 0 | | | 28 |
| 11:15 | 89 | 0 | | | 89 | 23:15 | 9 | 0 | | | 9 |
| 11:30 | 115 | 0 | | | 115 | 23:30 | 5 | 0 | | | 5 |
| 11:45 | 127 | 420 | 0 | | 127 | 23:45 | 11 | 53 | 0 | | 53 |
| TOTALS | 1991 | | | | 1991 | TOTALS | 3178 | | | | 3178 |
| SPLIT % | 100.0% | | | | 38.5% | SPLIT % | 100.0% | | | | 61.5% |

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total |
|-----------------|-------|-------|-------|-------|-------|-----------------|-------|-------|-------|
| | | | | | 5,169 | 0 | 0 | 0 | 5,169 |
| AM Peak Hour | 11:45 | | | | 11:45 | PM Peak Hour | 12:30 | | 12:30 |
| AM Pk Volume | 539 | | | | 539 | PM Pk Volume | 583 | | 583 |
| Pk Hr Factor | 0.892 | | | | 0.892 | Pk Hr Factor | 0.946 | | 0.946 |
| 7 - 9 Volume | 311 | 0 | 0 | 0 | 311 | 4 - 6 Volume | 507 | 0 | 0 |
| 7 - 9 Peak Hour | 07:00 | | | | 07:00 | 4 - 6 Peak Hour | 16:00 | | 16:00 |
| 7 - 9 Pk Volume | 194 | 0 | 0 | 0 | 194 | 4 - 6 Pk Volume | 279 | 0 | 0 |
| Pk Hr Factor | 0.713 | 0.000 | 0.000 | 0.000 | 0.713 | Pk Hr Factor | 0.872 | 0.000 | 0.000 |

VOLUME

Airport Pkwy Dr 5 & Location #5

Day: Thursday
Date: 12/21/2017

City: Clearwater
Project #: FL17_3500_005

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total | | |
|----------------|----|----|----|--------|-------|----------------|----|-----|-------|--------|-------|
| | | | | | 0 | 0 | 0 | 568 | 568 | | |
| AM Period | NB | SB | EB | WB | TOTAL | PM Period | NB | SB | EB | WB | TOTAL |
| 00:00 | | | 0 | 3 | 3 | 12:00 | | | 0 | 18 | 18 |
| 00:15 | | | 0 | 4 | 4 | 12:15 | | | 0 | 35 | 35 |
| 00:30 | | | 0 | 2 | 2 | 12:30 | | | 0 | 10 | 10 |
| 00:45 | | | 0 | 7 | 7 | 12:45 | | 16 | 0 | 17 | 80 |
| 01:00 | | | 0 | 1 | 1 | 13:00 | | | 0 | 11 | 11 |
| 01:15 | | | 0 | 0 | 0 | 13:15 | | | 0 | 19 | 19 |
| 01:30 | | | 0 | 0 | 0 | 13:30 | | | 0 | 32 | 32 |
| 01:45 | | | 0 | 2 | 2 | 13:45 | | 3 | 0 | 19 | 81 |
| 02:00 | | | 0 | 0 | 0 | 14:00 | | | 0 | 11 | 11 |
| 02:15 | | | 0 | 0 | 0 | 14:15 | | | 0 | 8 | 8 |
| 02:30 | | | 0 | 0 | 0 | 14:30 | | | 0 | 8 | 8 |
| 02:45 | | | 0 | 0 | 0 | 14:45 | | | 0 | 11 | 38 |
| 03:00 | | | 0 | 0 | 0 | 15:00 | | | 0 | 5 | 5 |
| 03:15 | | | 0 | 0 | 0 | 15:15 | | | 0 | 6 | 6 |
| 03:30 | | | 0 | 0 | 0 | 15:30 | | | 0 | 10 | 10 |
| 03:45 | | | 0 | 0 | 0 | 15:45 | | | 0 | 10 | 31 |
| 04:00 | | | 0 | 0 | 0 | 16:00 | | | 0 | 2 | 2 |
| 04:15 | | | 0 | 0 | 0 | 16:15 | | | 0 | 3 | 3 |
| 04:30 | | | 0 | 4 | 4 | 16:30 | | | 0 | 5 | 5 |
| 04:45 | | | 0 | 2 | 2 | 16:45 | | 6 | 0 | 3 | 13 |
| 05:00 | | | 0 | 5 | 5 | 17:00 | | | 0 | 5 | 5 |
| 05:15 | | | 0 | 6 | 6 | 17:15 | | | 0 | 3 | 3 |
| 05:30 | | | 0 | 7 | 7 | 17:30 | | | 0 | 15 | 15 |
| 05:45 | | | 0 | 16 | 16 | 17:45 | | 34 | 0 | 8 | 31 |
| 06:00 | | | 0 | 6 | 6 | 18:00 | | | 0 | 25 | 25 |
| 06:15 | | | 0 | 6 | 6 | 18:15 | | | 0 | 11 | 11 |
| 06:30 | | | 0 | 8 | 8 | 18:30 | | | 0 | 12 | 12 |
| 06:45 | | | 0 | 7 | 7 | 18:45 | | | 0 | 5 | 53 |
| 07:00 | | | 0 | 1 | 1 | 19:00 | | | 0 | 2 | 2 |
| 07:15 | | | 0 | 0 | 0 | 19:15 | | | 0 | 4 | 4 |
| 07:30 | | | 0 | 1 | 1 | 19:30 | | | 0 | 5 | 5 |
| 07:45 | | | 0 | 2 | 2 | 19:45 | | | 0 | 17 | 28 |
| 08:00 | | | 0 | 4 | 4 | 20:00 | | | 0 | 22 | 22 |
| 08:15 | | | 0 | 0 | 0 | 20:15 | | | 0 | 17 | 17 |
| 08:30 | | | 0 | 1 | 1 | 20:30 | | | 0 | 17 | 17 |
| 08:45 | | | 0 | 0 | 0 | 20:45 | | 5 | 0 | 7 | 63 |
| 09:00 | | | 0 | 0 | 0 | 21:00 | | | 0 | 3 | 3 |
| 09:15 | | | 0 | 1 | 1 | 21:15 | | | 0 | 5 | 5 |
| 09:30 | | | 0 | 0 | 0 | 21:30 | | | 0 | 2 | 2 |
| 09:45 | | | 0 | 0 | 0 | 21:45 | | 1 | 0 | 2 | 12 |
| 10:00 | | | 0 | 1 | 1 | 22:00 | | | 0 | 0 | 0 |
| 10:15 | | | 0 | 3 | 3 | 22:15 | | | 0 | 0 | 0 |
| 10:30 | | | 0 | 5 | 5 | 22:30 | | | 0 | 3 | 3 |
| 10:45 | | | 0 | 1 | 1 | 22:45 | | 10 | 0 | 9 | 12 |
| 11:00 | | | 0 | 5 | 5 | 23:00 | | | 0 | 4 | 4 |
| 11:15 | | | 0 | 5 | 5 | 23:15 | | | 0 | 1 | 1 |
| 11:30 | | | 0 | 3 | 3 | 23:30 | | | 0 | 0 | 0 |
| 11:45 | | | 0 | 2 | 2 | 23:45 | | | 0 | 0 | 5 |
| TOTALS | | | | 121 | 121 | TOTALS | | | | 447 | 447 |
| SPLIT % | | | | 100.0% | 21.3% | SPLIT % | | | | 100.0% | 78.7% |

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total |
|--------------|--|--|--|--|----|----|----|-----|-------|
| | | | | | 0 | 0 | 0 | 568 | 568 |

| | | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-----------------|-------|-------|-------|-------|-------|
| AM Peak Hour | | | | 11:45 | 11:45 | PM Peak Hour | | | | 13:00 | 13:00 |
| AM Pk Volume | | | | 65 | 65 | PM Pk Volume | | | | 81 | 81 |
| Pk Hr Factor | | | | 0.464 | 0.464 | Pk Hr Factor | | | | 0.633 | 0.633 |
| 7 - 9 Volume | 0 | 0 | 0 | 9 | 9 | 4 - 6 Volume | 0 | 0 | 0 | 44 | 44 |
| 7 - 9 Peak Hour | | | | 07:15 | 07:15 | 4 - 6 Peak Hour | | | | 17:00 | 17:00 |
| 7 - 9 Pk Volume | 0 | 0 | 0 | 7 | 7 | 4 - 6 Pk Volume | 0 | 0 | 0 | 31 | 31 |
| Pk Hr Factor | 0.000 | 0.000 | 0.000 | 0.438 | 0.438 | Pk Hr Factor | 0.000 | 0.000 | 0.000 | 0.517 | 0.517 |

VOLUME

Airport Pkwy Dr Location #6

Day: Thursday
Date: 12/21/2017City: Clearwater
Project #: FL17_3500_006

| DAILY TOTALS | | | | | NB | SB | | | | | | Total |
|----------------|----|----|----|--------|-------|----------------|----|----|----|--------|-------|-------|
| | | | | | 0 | 0 | | | | | | 1,403 |
| AM Period | NB | SB | EB | WB | TOTAL | PM Period | NB | SB | EB | WB | TOTAL | |
| 00:00 | | | 0 | 4 | 4 | 12:00 | | | 0 | 32 | 32 | |
| 00:15 | | | 0 | 5 | 5 | 12:15 | | | 0 | 40 | 40 | |
| 00:30 | | | 0 | 3 | 3 | 12:30 | | | 0 | 32 | 32 | |
| 00:45 | | | 0 | 9 | 21 | 12:45 | | | 0 | 43 | 147 | |
| 01:00 | | | 0 | 4 | 4 | 13:00 | | | 0 | 27 | 27 | |
| 01:15 | | | 0 | 3 | 3 | 13:15 | | | 0 | 36 | 36 | |
| 01:30 | | | 0 | 0 | 0 | 13:30 | | | 0 | 48 | 48 | |
| 01:45 | | | 0 | 0 | 7 | 13:45 | | | 0 | 29 | 140 | |
| 02:00 | | | 0 | 1 | 1 | 14:00 | | | 0 | 20 | 20 | |
| 02:15 | | | 0 | 0 | 0 | 14:15 | | | 0 | 22 | 22 | |
| 02:30 | | | 0 | 0 | 0 | 14:30 | | | 0 | 24 | 24 | |
| 02:45 | | | 0 | 0 | 1 | 14:45 | | | 0 | 17 | 83 | |
| 03:00 | | | 0 | 1 | 1 | 15:00 | | | 0 | 29 | 29 | |
| 03:15 | | | 0 | 1 | 1 | 15:15 | | | 0 | 18 | 18 | |
| 03:30 | | | 0 | 1 | 1 | 15:30 | | | 0 | 23 | 23 | |
| 03:45 | | | 0 | 0 | 3 | 15:45 | | | 0 | 15 | 85 | |
| 04:00 | | | 0 | 3 | 3 | 16:00 | | | 0 | 24 | 24 | |
| 04:15 | | | 0 | 6 | 6 | 16:15 | | | 0 | 14 | 14 | |
| 04:30 | | | 0 | 13 | 13 | 16:30 | | | 0 | 18 | 18 | |
| 04:45 | | | 0 | 18 | 40 | 16:45 | | | 0 | 12 | 68 | |
| 05:00 | | | 0 | 27 | 27 | 17:00 | | | 0 | 14 | 14 | |
| 05:15 | | | 0 | 36 | 36 | 17:15 | | | 0 | 26 | 26 | |
| 05:30 | | | 0 | 40 | 40 | 17:30 | | | 0 | 22 | 22 | |
| 05:45 | | | 0 | 36 | 139 | 17:45 | | | 0 | 26 | 88 | |
| 06:00 | | | 0 | 20 | 20 | 18:00 | | | 0 | 27 | 27 | |
| 06:15 | | | 0 | 18 | 18 | 18:15 | | | 0 | 17 | 17 | |
| 06:30 | | | 0 | 12 | 12 | 18:30 | | | 0 | 15 | 15 | |
| 06:45 | | | 0 | 14 | 64 | 18:45 | | | 0 | 13 | 72 | |
| 07:00 | | | 0 | 9 | 9 | 19:00 | | | 0 | 14 | 14 | |
| 07:15 | | | 0 | 3 | 3 | 19:15 | | | 0 | 13 | 13 | |
| 07:30 | | | 0 | 7 | 7 | 19:30 | | | 0 | 14 | 14 | |
| 07:45 | | | 0 | 8 | 27 | 19:45 | | | 0 | 30 | 71 | |
| 08:00 | | | 0 | 13 | 13 | 20:00 | | | 0 | 21 | 21 | |
| 08:15 | | | 0 | 9 | 9 | 20:15 | | | 0 | 17 | 17 | |
| 08:30 | | | 0 | 12 | 12 | 20:30 | | | 0 | 14 | 14 | |
| 08:45 | | | 0 | 10 | 44 | 20:45 | | | 0 | 10 | 62 | |
| 09:00 | | | 0 | 13 | 13 | 21:00 | | | 0 | 10 | 10 | |
| 09:15 | | | 0 | 13 | 13 | 21:15 | | | 0 | 10 | 10 | |
| 09:30 | | | 0 | 18 | 18 | 21:30 | | | 0 | 8 | 8 | |
| 09:45 | | | 0 | 13 | 57 | 21:45 | | | 0 | 6 | 34 | |
| 10:00 | | | 0 | 12 | 12 | 22:00 | | | 0 | 7 | 7 | |
| 10:15 | | | 0 | 9 | 9 | 22:15 | | | 0 | 5 | 5 | |
| 10:30 | | | 0 | 11 | 11 | 22:30 | | | 0 | 5 | 5 | |
| 10:45 | | | 0 | 11 | 43 | 22:45 | | | 0 | 3 | 20 | |
| 11:00 | | | 0 | 10 | 10 | 23:00 | | | 0 | 3 | 3 | |
| 11:15 | | | 0 | 18 | 18 | 23:15 | | | 0 | 2 | 2 | |
| 11:30 | | | 0 | 20 | 20 | 23:30 | | | 0 | 3 | 3 | |
| 11:45 | | | 0 | 30 | 78 | 23:45 | | | 0 | 1 | 9 | |
| TOTALS | | | | 524 | 524 | TOTALS | | | | 879 | 879 | |
| SPLIT % | | | | 100.0% | 37.3% | SPLIT % | | | | 100.0% | 62.7% | |

| DAILY TOTALS | | | | | NB | SB | | | | | | Total |
|-----------------|-------|-------|-------|-------|-------|-----------------|-------|-------|-------|-------|-------|-------|
| | | | | | 0 | 0 | | | | | | 1,403 |
| AM Peak Hour | | | | 05:00 | 05:00 | PM Peak Hour | | | | 12:45 | 12:45 | |
| AM Pk Volume | | | | 139 | 139 | PM Pk Volume | | | | 154 | 154 | |
| Pk Hr Factor | | | | 0.869 | 0.869 | Pk Hr Factor | | | | 0.802 | 0.802 | |
| 7 - 9 Volume | 0 | 0 | 0 | 71 | 71 | 4 - 6 Volume | 0 | 0 | 0 | 156 | 156 | |
| 7 - 9 Peak Hour | | | | 08:00 | 08:00 | 4 - 6 Peak Hour | | | | 17:00 | 17:00 | |
| 7 - 9 Pk Volume | 0 | 0 | 0 | 44 | 44 | 4 - 6 Pk Volume | 0 | 0 | 0 | 88 | 88 | |
| Pk Hr Factor | 0.000 | 0.000 | 0.000 | 0.846 | 0.846 | Pk Hr Factor | 0.000 | 0.000 | 0.000 | 0.846 | 0.846 | |

VOLUME

Airport Pkwy Dr 7 & Location #7

Day: Thursday
Date: 12/21/2017City: Clearwater
Project #: FL17_3500_007

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total | | |
|----------------|----|----|----|--------|-------|----------------|----|-------|-------|--------|-------|
| | | | | | 0 | 0 | 0 | 2,901 | 2,901 | | |
| AM Period | NB | SB | EB | WB | TOTAL | PM Period | NB | SB | EB | WB | TOTAL |
| 00:00 | | | 0 | 2 | 2 | 12:00 | | | 0 | 56 | 56 |
| 00:15 | | | 0 | 0 | 0 | 12:15 | | | 0 | 88 | 88 |
| 00:30 | | | 0 | 1 | 1 | 12:30 | | | 0 | 78 | 78 |
| 00:45 | | | 0 | 24 | 24 | 12:45 | | | 0 | 65 | 287 |
| 01:00 | | | 0 | 27 | 27 | 13:00 | | | 0 | 68 | 68 |
| 01:15 | | | 0 | 3 | 3 | 13:15 | | | 0 | 67 | 67 |
| 01:30 | | | 0 | 0 | 0 | 13:30 | | | 0 | 72 | 72 |
| 01:45 | | | 0 | 1 | 1 | 13:45 | | | 0 | 104 | 311 |
| 02:00 | | | 0 | 2 | 2 | 14:00 | | | 0 | 65 | 65 |
| 02:15 | | | 0 | 2 | 2 | 14:15 | | | 0 | 60 | 60 |
| 02:30 | | | 0 | 0 | 0 | 14:30 | | | 0 | 46 | 46 |
| 02:45 | | | 0 | 0 | 0 | 14:45 | | | 0 | 38 | 209 |
| 03:00 | | | 0 | 1 | 1 | 15:00 | | | 0 | 37 | 37 |
| 03:15 | | | 0 | 1 | 1 | 15:15 | | | 0 | 28 | 28 |
| 03:30 | | | 0 | 1 | 1 | 15:30 | | | 0 | 39 | 39 |
| 03:45 | | | 0 | 2 | 2 | 15:45 | | | 0 | 50 | 154 |
| 04:00 | | | 0 | 5 | 5 | 16:00 | | | 0 | 26 | 26 |
| 04:15 | | | 0 | 12 | 12 | 16:15 | | | 0 | 36 | 36 |
| 04:30 | | | 0 | 22 | 22 | 16:30 | | | 0 | 32 | 32 |
| 04:45 | | | 0 | 33 | 33 | 16:45 | | | 0 | 22 | 116 |
| 05:00 | | | 0 | 54 | 54 | 17:00 | | | 0 | 28 | 28 |
| 05:15 | | | 0 | 60 | 60 | 17:15 | | | 0 | 19 | 19 |
| 05:30 | | | 0 | 84 | 84 | 17:30 | | | 0 | 8 | 8 |
| 05:45 | | | 0 | 83 | 83 | 17:45 | | | 0 | 8 | 63 |
| 06:00 | | | 0 | 82 | 82 | 18:00 | | | 0 | 21 | 21 |
| 06:15 | | | 0 | 64 | 64 | 18:15 | | | 0 | 73 | 73 |
| 06:30 | | | 0 | 47 | 47 | 18:30 | | | 0 | 60 | 60 |
| 06:45 | | | 0 | 37 | 37 | 18:45 | | | 0 | 50 | 204 |
| 07:00 | | | 0 | 38 | 38 | 19:00 | | | 0 | 18 | 18 |
| 07:15 | | | 0 | 21 | 21 | 19:15 | | | 0 | 10 | 10 |
| 07:30 | | | 0 | 14 | 14 | 19:30 | | | 0 | 11 | 11 |
| 07:45 | | | 0 | 11 | 11 | 19:45 | | | 0 | 25 | 64 |
| 08:00 | | | 0 | 20 | 20 | 20:00 | | | 0 | 39 | 39 |
| 08:15 | | | 0 | 10 | 10 | 20:15 | | | 0 | 62 | 62 |
| 08:30 | | | 0 | 21 | 21 | 20:30 | | | 0 | 55 | 55 |
| 08:45 | | | 0 | 9 | 9 | 20:45 | | | 0 | 43 | 199 |
| 09:00 | | | 0 | 12 | 12 | 21:00 | | | 0 | 30 | 30 |
| 09:15 | | | 0 | 6 | 6 | 21:15 | | | 0 | 66 | 66 |
| 09:30 | | | 0 | 9 | 9 | 21:30 | | | 0 | 16 | 16 |
| 09:45 | | | 0 | 7 | 7 | 21:45 | | | 0 | 8 | 120 |
| 10:00 | | | 0 | 9 | 9 | 22:00 | | | 0 | 5 | 5 |
| 10:15 | | | 0 | 23 | 23 | 22:15 | | | 0 | 4 | 4 |
| 10:30 | | | 0 | 41 | 41 | 22:30 | | | 0 | 4 | 4 |
| 10:45 | | | 0 | 17 | 17 | 22:45 | | | 0 | 18 | 31 |
| 11:00 | | | 0 | 24 | 24 | 23:00 | | | 0 | 49 | 49 |
| 11:15 | | | 0 | 34 | 34 | 23:15 | | | 0 | 12 | 12 |
| 11:30 | | | 0 | 49 | 49 | 23:30 | | | 0 | 2 | 2 |
| 11:45 | | | 0 | 54 | 54 | 23:45 | | | 0 | 1 | 64 |
| TOTALS | | | | 1079 | 1079 | TOTALS | | | | 1822 | 1822 |
| SPLIT % | | | | 100.0% | 37.2% | SPLIT % | | | | 100.0% | 62.8% |

| DAILY TOTALS | | | | | NB | SB | EB | WB | Total | | |
|-----------------|-------|-------|-------|-------|-------|-----------------|-------|-------|-------|-------|-------|
| | | | | | 0 | 0 | 0 | 2,901 | 2,901 | | |
| AM Peak Hour | | | | 05:30 | 05:30 | PM Peak Hour | | | | 13:00 | 13:00 |
| AM Pk Volume | | | | 313 | 313 | PM Pk Volume | | | | 311 | 311 |
| Pk Hr Factor | | | | 0.932 | 0.932 | Pk Hr Factor | | | | 0.748 | 0.748 |
| 7 - 9 Volume | 0 | 0 | 0 | 144 | 144 | 4 - 6 Volume | 0 | 0 | 0 | 179 | 179 |
| 7 - 9 Peak Hour | | | | 07:00 | 07:00 | 4 - 6 Peak Hour | | | | 16:15 | 16:15 |
| 7 - 9 Pk Volume | 0 | 0 | 0 | 84 | 84 | 4 - 6 Pk Volume | 0 | 0 | 0 | 118 | 118 |
| Pk Hr Factor | 0.000 | 0.000 | 0.000 | 0.553 | 0.553 | Pk Hr Factor | 0.000 | 0.000 | 0.000 | 0.819 | 0.819 |

APPENDIX D

Appendix D-3

Curbfront Operational Observation Forms

St. Pete Clearwater International Airport
Thursday, December 14th, 2017
AM Peak Period (5:00 AM - 7:00 AM)
Crosswalk: 1

| Time | Size of Group | Origin | Crossing | Total Luggage | Vehicle Reaction |
|------|---------------|---------|------------|---------------|------------------|
| 5:00 | 1 | Lot | Ped X-Walk | 1 | No Car |
| 5:00 | 1 | Lot | Ped X-Walk | 1 | No Car |
| 5:00 | 1 | Lot | Ped X-Walk | 2 | No Car |
| 5:00 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 5:00 | 2 | Lot | Ped X-Walk | 3 | No Car |
| 5:00 | 1 | Airport | Ped X-Walk | 0 | No Car |
| 5:00 | 1 | Lot | Ped X-Walk | 2 | No Car |
| 5:00 | 1 | Lot | Ped X-Walk | 2 | No Car |
| 5:00 | 1 | Airport | Ped X-Walk | 0 | No Car |
| 5:10 | 2 | Airport | Ped X-Walk | 0 | No Car |
| 5:10 | 1 | Airport | Ped X-Walk | 0 | No Car |
| 5:10 | 1 | Airport | Ped X-Walk | 1 | No Car |
| 5:10 | 4 | Lot | Ped X-Walk | 4 | Stopped |
| 5:10 | 1 | Lot | Ped X-Walk | 2 | Stopped |
| 5:20 | 4 | Lot | Ped X-Walk | 4 | No Car |
| 5:20 | 2 | Lot | Ped X-Walk | 2 | Stopped |
| 5:20 | 1 | Lot | Ped X-Walk | 1 | Stopped |
| 5:20 | 1 | Lot | Ped X-Walk | 1 | No Car |
| 5:20 | 2 | Lot | Ped X-Walk | 3 | No Car |
| 5:20 | 1 | Lot | Ped X-Walk | 1 | No Car |
| 5:20 | 2 | Lot | Ped X-Walk | 2 | No Car |
| 5:20 | 1 | Lot | Ped X-Walk | 2 | No Car |
| 5:30 | 1 | Airport | Ped X-Walk | 0 | No Car |
| 5:30 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 5:30 | 2 | Lot | Ped X-Walk | 2 | No Car |
| 5:30 | 1 | Lot | Ped X-Walk | 1 | No Car |
| 5:30 | 1 | Airport | Ped X-Walk | 0 | No Car |
| 5:30 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 5:30 | 1 | Airport | Ped X-Walk | 0 | No Car |
| 5:30 | 1 | Airport | Jaywalk | 0 | No Car |
| 5:30 | 2 | Airport | Ped X-Walk | 1 | No Car |
| 5:30 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 5:30 | 1 | Lot | Ped X-Walk | 2 | Stopped |
| 5:30 | 1 | Lot | Ped X-Walk | 1 | Stopped |
| 5:30 | 1 | Lot | Ped X-Walk | 1 | Stopped |
| 5:30 | 1 | Airport | Ped X-Walk | 1 | Stopped |
| 5:40 | 1 | Lot | Ped X-Walk | 1 | No Car |
| 5:40 | 3 | Lot | Ped X-Walk | 3 | Stopped |
| 5:40 | 1 | Lot | Ped X-Walk | 2 | Stopped |
| 5:40 | 2 | Lot | Ped X-Walk | 3 | Stopped |
| 5:40 | 2 | Lot | Ped X-Walk | 3 | No Car |
| 5:40 | 2 | Lot | Ped X-Walk | 1 | Stopped |
| 5:40 | 4 | Lot | Ped X-Walk | 3 | No Car |
| 5:40 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 5:40 | 1 | Lot | Ped X-Walk | 2 | Stopped |
| 5:40 | 1 | Lot | Ped X-Walk | 2 | Stopped |
| 5:40 | 1 | Lot | Ped X-Walk | 1 | Stopped |
| 5:50 | 3 | Lot | Ped X-Walk | 3 | Did Not Stop |
| 5:50 | 1 | Lot | Ped X-Walk | 0 | Stopped |

| | | | | | |
|------|---|---------|------------|---|--------------|
| 5:50 | 2 | Lot | Ped X-Walk | 2 | Stopped |
| 5:50 | 2 | Lot | Ped X-Walk | 2 | No Car |
| 5:50 | 1 | Lot | Jaywalk | 0 | No Car |
| 5:50 | 2 | Airport | Ped X-Walk | 0 | No Car |
| 5:50 | 1 | Airport | Ped X-Walk | 0 | No Car |
| 5:50 | 1 | Airport | Ped X-Walk | 0 | No Car |
| 6:00 | 2 | Lot | Ped X-Walk | 2 | No Car |
| 6:00 | 3 | Lot | Ped X-Walk | 3 | No Car |
| 6:00 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 6:00 | 1 | Airport | Jaywalk | 0 | No Car |
| 6:00 | 1 | Lot | Ped X-Walk | 1 | No Car |
| 6:00 | 4 | Lot | Ped X-Walk | 4 | No Car |
| 6:00 | 1 | Airport | Ped X-Walk | 0 | No Car |
| 6:10 | 1 | Airport | Ped X-Walk | 0 | No Car |
| 6:10 | 2 | Lot | Ped X-Walk | 1 | No Car |
| 6:10 | 1 | Airport | Ped X-Walk | 0 | No Car |
| 6:10 | 1 | Airport | Ped X-Walk | 0 | No Car |
| 6:10 | 1 | Lot | Ped X-Walk | 1 | No Car |
| 6:10 | 2 | Lot | Ped X-Walk | 1 | No Car |
| 6:10 | 1 | Airport | Ped X-Walk | 0 | No Car |
| 6:10 | 1 | Lot | Ped X-Walk | 2 | No Car |
| 6:10 | 1 | Lot | Ped X-Walk | 2 | No Car |
| 6:20 | 2 | Lot | Ped X-Walk | 2 | Did Not Stop |
| 6:20 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 6:20 | 3 | Lot | Ped X-Walk | 2 | No Car |
| 6:20 | 2 | Lot | Ped X-Walk | 2 | No Car |
| 6:30 | 1 | Airport | Ped X-Walk | 1 | No Car |
| 6:30 | 1 | Airport | Ped X-Walk | 0 | No Car |
| 6:30 | 2 | Airport | Ped X-Walk | 0 | No Car |
| 6:30 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 6:30 | 1 | Lot | Ped X-Walk | 2 | Stopped |
| 6:30 | 1 | Airport | Ped X-Walk | 0 | No Car |
| 6:40 | 2 | Lot | Ped X-Walk | 2 | No Car |
| 6:50 | 1 | Airport | Ped X-Walk | 0 | No Car |

St. Pete Clearwater International Airport
Thursday, December 14th, 2017
AM Peak Period (5:00 AM - 7:00 AM)
Crosswalk: 2

| Time | Size of Group | Origin | Crossing | Total Luggage | Vehicle Reaction |
|-------------|----------------------|---------------|-----------------|----------------------|-------------------------|
| 5:00 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 5:00 | 2 | Lot | Ped X-Walk | 0 | Stopped |
| 5:00 | 1 | Lot | Ped X-Walk | 1 | No Car |
| 5:10 | 1 | Airport | Ped X-Walk | 0 | Stopped |
| 5:20 | 4 | Lot | Ped X-Walk | 4 | No Car |
| 5:20 | 3 | Lot | Ped X-Walk | 2 | No Car |
| 5:30 | 2 | Airport | Ped X-Walk | 0 | No Car |
| 5:30 | 2 | Lot | Ped X-Walk | 2 | Stopped |
| 5:30 | 2 | Lot | Ped X-Walk | 1 | No Car |
| 5:40 | 2 | Lot | Ped X-Walk | 1 | Stopped |
| 5:40 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 5:40 | 1 | Airport | Ped X-Walk | 0 | Stopped |
| 5:50 | 1 | Lot | Ped X-Walk | 2 | No Car |
| 5:50 | 2 | Lot | Ped X-Walk | 2 | No Car |
| 5:50 | 2 | Lot | Ped X-Walk | 0 | Stopped |
| 5:50 | 1 | Airport | Ped X-Walk | 0 | No Car |
| 6:00 | 3 | Lot | Ped X-Walk | 0 | Stopped |
| 6:00 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 6:00 | 1 | Lot | Ped X-Walk | 1 | Stopped |
| 6:10 | 1 | Lot | Ped X-Walk | 1 | Stopped |
| 6:20 | 3 | Lot | Ped X-Walk | 2 | No Car |
| 6:20 | 1 | Airport | Ped X-Walk | 0 | No Car |
| 6:30 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 6:30 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 6:40 | 2 | Lot | Ped X-Walk | 2 | No Car |
| 6:50 | 1 | Lot | Ped X-Walk | 1 | Stopped |

St. Pete Clearwater International Airport
Thursday, December 14th, 2017
AM Peak Period (5:00 AM - 7:00 AM)
Crosswalk: 3

| Time | Size of Group | Origin | Crossing | Total Luggage | Vehicle Reaction |
|-------------|----------------------|---------------|-----------------|----------------------|-------------------------|
| 5:10 | 3 | Lot | Ped X-Walk | 0 | Stopped |
| 5:10 | 2 | Lot | Ped X-Walk | 3 | Stopped |
| 5:30 | 1 | Lot | Ped X-Walk | 1 | No Car |
| 5:30 | 1 | Lot | Jaywalking | 0 | No Car |
| 5:30 | 1 | Airport | Ped X-Walk | 0 | No Car |
| 6:00 | 1 | Airport | Jaywalking | 0 | No Car |

St. Pete Clearwater International Airport
Thursday, December 14th, 2017
AM Peak Period (5:00 AM - 7:00 AM)
Crosswalk: 4

| Time | Size of Group | Origin | Crossing | Total Luggage | Vehicle Reaction |
|------|---------------|---------|------------|---------------|------------------|
| 5:00 | 2 | Lot | Ped X-Walk | 3 | No Car |
| 5:00 | 1 | Lot | Ped X-Walk | 2 | Stopped |
| 5:00 | 2 | Lot | Ped X-Walk | 1 | Stopped |
| 5:10 | 5 | Lot | Ped X-Walk | 4 | Stopped |
| 5:20 | 4 | Lot | Ped X-Walk | 2 | Stopped |
| 5:20 | 2 | Lot | Ped X-Walk | 2 | No Car |
| 5:20 | 2 | Lot | Ped X-Walk | 2 | Did Not Stop |
| 5:20 | 2 | Lot | Ped X-Walk | 1 | No Car |
| 5:20 | 1 | Lot | Ped X-Walk | 1 | No Car |
| 5:20 | 2 | Lot | Ped X-Walk | 4 | No Car |
| 5:20 | 3 | Lot | Ped X-Walk | 2 | Stopped |
| 5:20 | 3 | Lot | Ped X-Walk | 2 | Stopped |
| 5:30 | 2 | Lot | Ped X-Walk | 2 | No Car |
| 5:30 | 2 | Lot | Ped X-Walk | 2 | No Car |
| 5:30 | 2 | Lot | Ped X-Walk | 3 | No Car |
| 5:30 | 1 | Lot | Jaywalking | 1 | No Car |
| 5:30 | 2 | Lot | Ped X-Walk | 2 | No Car |
| 5:30 | 1 | Lot | Ped X-Walk | 1 | No Car |
| 5:30 | 3 | Lot | Ped X-Walk | 2 | No Car |
| 5:30 | 1 | Lot | Ped X-Walk | 1 | Stopped |
| 5:40 | 1 | Lot | Ped X-Walk | 1 | No Car |
| 5:40 | 1 | Lot | Ped X-Walk | 1 | Stopped |
| 5:40 | 2 | Lot | Ped X-Walk | 1 | No Car |
| 5:40 | 1 | Lot | Ped X-Walk | 1 | No Car |
| 5:40 | 2 | Lot | Ped X-Walk | 0 | No Car |
| 5:40 | 3 | Lot | Ped X-Walk | 4 | No Car |
| 5:40 | 1 | Lot | Jaywalking | 0 | Stopped |
| 5:50 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 5:50 | 1 | Lot | Ped X-Walk | 1 | Stopped |
| 5:50 | 8 | Lot | Ped X-Walk | 4 | No Car |
| 5:50 | 2 | Lot | Ped X-Walk | 1 | No Car |
| 6:00 | 2 | Lot | Ped X-Walk | 1 | No Car |
| 6:00 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 6:00 | 1 | Lot | Ped X-Walk | 1 | No Car |
| 6:00 | 1 | Lot | Ped X-Walk | 1 | Stopped |
| 6:10 | 2 | Lot | Ped X-Walk | 2 | No Car |
| 6:10 | 1 | Lot | Ped X-Walk | 1 | No Car |
| 6:20 | 3 | Lot | Ped X-Walk | 1 | No Car |
| 6:20 | 3 | Lot | Ped X-Walk | 2 | No Car |
| 6:20 | 2 | Lot | Ped X-Walk | 1 | No Car |
| 6:30 | 1 | Lot | Ped X-Walk | 1 | No Car |
| 6:40 | 2 | Lot | Ped X-Walk | 2 | No Car |
| 6:40 | 1 | Airport | Ped X-Walk | 0 | No Car |
| 6:50 | 1 | Lot | Jaywalking | 1 | No Car |
| 6:50 | 2 | Lot | Ped X-Walk | 4 | Stopped |
| 6:50 | 1 | Lot | Ped X-Walk | 2 | Stopped |
| 6:50 | 2 | Lot | Ped X-Walk | 4 | Stopped |
| 6:50 | 2 | Lot | Ped X-Walk | 0 | No Car |

St. Pete Clearwater International Airport
Thursday, December 14th, 2017
AM Peak Period (5:00 AM - 7:00 AM)

Crosswalk: 5

| Time | Size of Group | Origin | Crossing | Total Luggage | Vehicle Reaction |
|------|---------------|---------|------------|---------------|------------------|
| 5:00 | 4 | Lot | Ped X-Walk | 3 | No Car |
| 5:00 | 2 | Lot | Ped X-Walk | 2 | No Car |
| 5:00 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 5:00 | 1 | Lot | Ped X-Walk | 2 | No Car |
| 5:00 | 1 | Lot | Ped X-Walk | 1 | No Car |
| 5:00 | 2 | Lot | Ped X-Walk | 2 | No Car |
| 5:00 | 2 | Lot | Ped X-Walk | 2 | No Car |
| 5:00 | 2 | Lot | Ped X-Walk | 2 | Stopped |
| 5:00 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 5:00 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 5:00 | 1 | Lot | Ped X-Walk | 2 | No Car |
| 5:00 | 4 | Lot | Ped X-Walk | 3 | Stopped |
| 5:10 | 2 | Lot | Ped X-Walk | 2 | Did Not Stop |
| 5:10 | 2 | Lot | Ped X-Walk | 1 | Stopped |
| 5:10 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 5:10 | 1 | Airport | Ped X-Walk | 0 | Stopped |
| 5:10 | 2 | Lot | Ped X-Walk | 2 | Did Not Stop |
| 5:10 | 2 | Lot | Ped X-Walk | 3 | Stopped |
| 5:10 | 2 | Lot | Ped X-Walk | 0 | Stopped |
| 5:10 | 1 | Lot | Ped X-Walk | 3 | Stopped |
| 5:10 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 5:20 | 2 | Lot | Ped X-Walk | 2 | Stopped |
| 5:20 | 1 | Lot | Jaywalk | 0 | No Car |
| 5:20 | 2 | Lot | Ped X-Walk | 2 | Stopped |
| 5:20 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 5:20 | 3 | Lot | Ped X-Walk | 3 | Stopped |
| 5:20 | 2 | Lot | Ped X-Walk | 2 | Stopped |
| 5:20 | 2 | Lot | Ped X-Walk | 2 | No Car |
| 5:20 | 2 | Lot | Ped X-Walk | 2 | Stopped |
| 5:20 | 2 | Lot | Ped X-Walk | 2 | Stopped |
| 5:20 | 2 | Lot | Ped X-Walk | 2 | Stopped |
| 5:20 | 1 | Lot | Ped X-Walk | 1 | Stopped |
| 5:20 | 1 | Lot | Ped X-Walk | 1 | No Car |
| 5:20 | 3 | Lot | Ped X-Walk | 3 | No Car |
| 5:20 | 1 | Lot | Ped X-Walk | 1 | Stopped |
| 5:20 | 2 | Lot | Ped X-Walk | 1 | Stopped |
| 5:20 | 1 | Lot | Ped X-Walk | 1 | Stopped |
| 5:30 | 1 | Lot | Ped X-Walk | 1 | Stopped |
| 5:30 | 1 | Lot | Ped X-Walk | 1 | Stopped |
| 5:30 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 5:30 | 2 | Lot | Ped X-Walk | 0 | Stopped |
| 5:30 | 1 | Lot | Ped X-Walk | 2 | No Car |
| 5:30 | 2 | Lot | Ped X-Walk | 2 | Stopped |
| 5:30 | 3 | Lot | Ped X-Walk | 4 | Stopped |
| 5:30 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 5:30 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 5:30 | 2 | Lot | Ped X-Walk | 2 | No Car |
| 5:30 | 2 | Lot | Ped X-Walk | 2 | No Car |
| 5:30 | 2 | Lot | Ped X-Walk | 3 | No Car |

| | | | | | |
|------|---|---------|------------|---|------------------|
| 5:30 | 4 | Lot | Ped X-Walk | 4 | No Car |
| 5:30 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 5:30 | 3 | Lot | Ped X-Walk | 2 | No Car |
| 5:30 | 2 | Lot | Ped X-Walk | 2 | Stopped |
| 5:30 | 4 | Lot | Ped X-Walk | 4 | Stopped |
| 5:40 | 1 | Airport | Ped X-Walk | 0 | Stopped |
| 5:40 | 7 | Lot | Ped X-Walk | 4 | Stopped |
| 5:40 | 1 | Airport | Ped X-Walk | 0 | Stopped |
| 5:40 | 1 | Lot | Ped X-Walk | 1 | Stopped |
| 5:40 | 2 | Lot | Ped X-Walk | 1 | Stopped |
| 5:40 | 4 | Lot | Ped X-Walk | 4 | Stopped |
| 5:40 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 5:40 | 2 | Lot | Ped X-Walk | 2 | Stopped |
| 5:40 | 2 | Lot | Ped X-Walk | 1 | Stopped |
| 5:40 | 2 | Lot | Ped X-Walk | 0 | Stopped |
| 5:40 | 3 | Lot | Ped X-Walk | 3 | No Car |
| 5:40 | 2 | Lot | Ped X-Walk | 1 | Stopped |
| 5:50 | 2 | Lot | Ped X-Walk | 2 | No Car |
| 5:50 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 5:50 | 2 | Lot | Ped X-Walk | 2 | Stopped |
| 5:50 | 1 | Lot | Ped X-Walk | 1 | Stopped |
| 5:50 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 5:50 | 3 | Lot | Ped X-Walk | 3 | Did Not Stop |
| 5:50 | 2 | Lot | Ped X-Walk | 1 | Stopped |
| 5:50 | 3 | Lot | Ped X-Walk | 2 | Stopped |
| 5:50 | 2 | Lot | Ped X-Walk | 2 | Stopped |
| 5:50 | 2 | Lot | Ped X-Walk | 2 | Stopped |
| 5:50 | 4 | Lot | Ped X-Walk | 4 | Stopped |
| 5:50 | 2 | Lot | Ped X-Walk | 1 | Stopped |
| 5:50 | 2 | Lot | Ped X-Walk | 2 | No Car |
| 5:50 | 2 | Lot | Ped X-Walk | 1 | No Car |
| 5:50 | 2 | Lot | Ped X-Walk | 2 | Stopped |
| 5:50 | 2 | Lot | Ped X-Walk | 2 | Stopped |
| 5:50 | 2 | Lot | Ped X-Walk | 2 | Stopped |
| 5:50 | 2 | Lot | Ped X-Walk | 2 | Stopped |
| 5:50 | 2 | Lot | Ped X-Walk | 1 | No Car |
| 5:50 | 1 | Lot | Ped X-Walk | 1 | Stopped |
| 5:50 | 2 | Lot | Ped X-Walk | 1 | Stopped |
| 6:00 | 8 | Lot | Ped X-Walk | 4 | Stopped |
| 6:00 | 1 | Lot | Ped X-Walk | 1 | Stopped |
| 6:00 | 5 | Lot | Ped X-Walk | 4 | Stopped |
| 6:00 | 2 | Lot | Ped X-Walk | 2 | Stopped |
| 6:00 | 2 | Lot | Ped X-Walk | 2 | Stopped Abruptly |
| 6:00 | 1 | Lot | Ped X-Walk | 1 | Stopped |
| 6:00 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 6:00 | 1 | Lot | Ped X-Walk | 1 | Stopped |
| 6:00 | 2 | Lot | Ped X-Walk | 2 | Stopped |
| 6:00 | 2 | Lot | Ped X-Walk | 1 | Stopped |
| 6:00 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 6:00 | 1 | Lot | Ped X-Walk | 1 | Stopped |
| 6:10 | 2 | Lot | Ped X-Walk | 2 | Stopped |
| 6:10 | 2 | Lot | Ped X-Walk | 2 | Stopped |
| 6:10 | 2 | Lot | Ped X-Walk | 2 | Stopped |
| 6:10 | 2 | Lot | Ped X-Walk | 2 | Stopped |
| 6:10 | 1 | Lot | Ped X-Walk | 1 | Stopped |

| | | | | | |
|------|---|---------|------------|---|------------------|
| 6:10 | 1 | Lot | Ped X-Walk | 1 | Stopped Abruptly |
| 6:10 | 2 | Lot | Ped X-Walk | 1 | Did Not Stop |
| 6:10 | 3 | Lot | Ped X-Walk | 2 | No Car |
| 6:20 | 2 | Lot | Ped X-Walk | 2 | No Car |
| 6:20 | 1 | Lot | Ped X-Walk | 1 | Did Not Stop |
| 6:20 | 2 | Lot | Ped X-Walk | 2 | Stopped |
| 6:20 | 1 | Lot | Ped X-Walk | 1 | Stopped |
| 6:20 | 1 | Lot | Jaywalk | 1 | No Car |
| 6:20 | 8 | Lot | Ped X-Walk | 4 | Stopped |
| 6:20 | 1 | Lot | Ped X-Walk | 1 | Stopped Abruptly |
| 6:20 | 1 | Lot | Ped X-Walk | 1 | Did Not Stop |
| 6:20 | 4 | Lot | Ped X-Walk | 4 | No Car |
| 6:30 | 2 | Lot | Ped X-Walk | 2 | No Car |
| 6:30 | 3 | Lot | Ped X-Walk | 3 | Did Not Stop |
| 6:30 | 1 | Lot | Ped X-Walk | 1 | No Car |
| 6:30 | 2 | Lot | Ped X-Walk | 2 | Stopped Abruptly |
| 6:30 | 1 | Lot | Ped X-Walk | 1 | Stopped |
| 6:30 | 1 | Lot | Ped X-Walk | 1 | No Car |
| 6:30 | 1 | Lot | Ped X-Walk | 0 | Did Not Stop |
| 6:30 | 1 | Lot | Ped X-Walk | 1 | Stopped |
| 6:40 | 2 | Lot | Ped X-Walk | 2 | Stopped |
| 6:40 | 1 | Airport | Ped X-Walk | 0 | Stopped |
| 6:40 | 1 | Lot | Ped X-Walk | 0 | Did Not Stop |
| 6:40 | 2 | Lot | Ped X-Walk | 1 | Stopped |
| 6:40 | 2 | Lot | Ped X-Walk | 2 | Stopped |
| 6:40 | 2 | Lot | Ped X-Walk | 1 | Stopped |
| 6:40 | 2 | Lot | Ped X-Walk | 2 | No Car |
| 6:40 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 6:40 | 2 | Lot | Ped X-Walk | 1 | No Car |
| 6:50 | 3 | Lot | Ped X-Walk | 3 | No Car |
| 6:50 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 6:50 | 2 | Lot | Ped X-Walk | 2 | Stopped |
| 6:50 | 1 | Lot | Ped X-Walk | 1 | No Car |
| 7:00 | 2 | Lot | Ped X-Walk | 2 | No Car |

St. Pete Clearwater International Airport
Thursday, December 14th, 2017
PM Peak Period (12:00 PM - 2:00 PM)

Crosswalk: 1

| Time | Size of Group | Origin | Crossing | Total Luggage | Vehicle Reaction |
|-------|---------------|---------|------------|---------------|------------------|
| 12:00 | 2 | Lot | Ped X-Walk | 0 | No Car |
| 12:00 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 12:00 | 2 | Lot | Ped X-Walk | 2 | No Car |
| 12:00 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 12:00 | 2 | Airport | Ped X-Walk | 0 | No Car |
| 12:00 | 1 | Airport | Jaywalk | 0 | No Car |
| 12:00 | 2 | Lot | Ped X-Walk | 4 | No Car |
| 12:10 | 1 | Airport | Ped X-Walk | 9 | No Car |
| 12:10 | 1 | Airport | Ped X-Walk | 1 | No Car |
| 12:10 | 2 | Lot | Ped X-Walk | 3 | No Car |
| 12:10 | 2 | Lot | Ped X-Walk | 3 | No Car |
| 12:10 | 2 | Lot | Ped X-Walk | 2 | No Car |
| 12:10 | 3 | Lot | Ped X-Walk | 2 | No Car |
| 12:10 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 12:10 | 2 | Airport | Ped X-Walk | 0 | No Car |
| 12:10 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 12:10 | 1 | Airport | Jaywalk | 0 | No Car |
| 12:20 | 1 | Lot | Jaywalk | 0 | No Car |
| 12:20 | 2 | Airport | Ped X-Walk | 0 | No Car |
| 12:20 | 2 | Airport | Ped X-Walk | 0 | No Car |
| 12:20 | 2 | Airport | Ped X-Walk | 0 | No Car |
| 12:20 | 2 | Airport | Ped X-Walk | 0 | No Car |
| 12:20 | 2 | Lot | Jaywalk | 2 | No Car |
| 12:20 | 2 | Airport | Ped X-Walk | 1 | No Car |
| 12:30 | 2 | Lot | Ped X-Walk | 0 | No Car |
| 12:30 | 1 | Airport | Ped X-Walk | 1 | No Car |
| 12:30 | 2 | Lot | Ped X-Walk | 1 | No Car |
| 12:30 | 1 | Airport | Ped X-Walk | 0 | No Car |
| 12:30 | 1 | Airport | Ped X-Walk | 0 | No Car |
| 12:30 | 1 | Lot | Ped X-Walk | 1 | No Car |
| 12:30 | 1 | Airport | Ped X-Walk | 0 | No Car |
| 12:30 | 2 | Lot | Ped X-Walk | 0 | No Car |
| 12:30 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 12:30 | 2 | Lot | Ped X-Walk | 1 | No Car |
| 12:30 | 1 | Airport | Ped X-Walk | 0 | No Car |
| 12:30 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 12:30 | 2 | Lot | Ped X-Walk | 0 | No Car |
| 12:40 | 2 | Lot | Ped X-Walk | 2 | No Car |
| 12:40 | 1 | Lot | Ped X-Walk | 9 | No Car |
| 12:40 | 3 | Airport | Jaywalk | 1 | No Car |
| 12:40 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 12:40 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 12:40 | 2 | Lot | Ped X-Walk | 0 | No Car |
| 12:40 | 1 | Airport | Ped X-Walk | 0 | No Car |
| 12:40 | 4 | Lot | Ped X-Walk | 4 | No Car |
| 12:40 | 2 | Lot | Ped X-Walk | 3 | No Car |
| 12:40 | 2 | Lot | Ped X-Walk | 0 | No Car |
| 12:50 | 2 | Lot | Ped X-Walk | 1 | No Car |
| 12:50 | 1 | Lot | Ped X-Walk | 0 | No Car |

| | | | | | |
|-------|---|---------|------------|---|--------|
| 12:50 | 1 | Airport | Ped X-Walk | 0 | No Car |
| 12:50 | 3 | Lot | Jaywalk | 3 | No Car |
| 12:50 | 1 | Airport | Ped X-Walk | 1 | No Car |
| 12:50 | 2 | Airport | Ped X-Walk | 0 | No Car |
| 12:50 | 1 | Lot | Ped X-Walk | 1 | No Car |
| 12:50 | 4 | Lot | Ped X-Walk | 2 | No Car |
| 12:50 | 2 | Lot | Ped X-Walk | 4 | No Car |
| 13:00 | 2 | Airport | Ped X-Walk | 2 | No Car |
| 13:00 | 1 | Lot | Jaywalk | 1 | No Car |
| 13:00 | 4 | Lot | Ped X-Walk | 4 | No Car |
| 13:00 | 2 | Lot | Ped X-Walk | 0 | No Car |
| 13:00 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 13:00 | 2 | Lot | Ped X-Walk | 2 | No Car |
| 13:00 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 13:10 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 13:10 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 13:10 | 1 | Airport | Jaywalk | 0 | No Car |
| 13:10 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 13:10 | 2 | Lot | Ped X-Walk | 0 | No Car |
| 13:10 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 13:10 | 1 | Lot | Ped X-Walk | 1 | No Car |
| 13:10 | 1 | Airport | Jaywalk | 0 | No Car |
| 13:10 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 13:10 | 1 | Airport | Ped X-Walk | 0 | No Car |
| 13:10 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 13:10 | 1 | Airport | Ped X-Walk | 1 | No Car |
| 13:10 | 1 | Airport | Ped X-Walk | 0 | No Car |
| 13:10 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 13:10 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 13:20 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 13:20 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 13:20 | 1 | Lot | Ped X-Walk | 2 | No Car |
| 13:20 | 2 | Airport | Ped X-Walk | 1 | No Car |
| 13:20 | 3 | Airport | Ped X-Walk | 0 | No Car |
| 13:20 | 1 | Lot | Ped X-Walk | 2 | No Car |
| 13:20 | 1 | Lot | Ped X-Walk | 1 | No Car |
| 13:20 | 1 | Airport | Ped X-Walk | 0 | No Car |
| 13:20 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 13:20 | 1 | Airport | Ped X-Walk | 1 | No Car |
| 13:20 | 2 | Airport | Jaywalk | 1 | No Car |
| 13:20 | 1 | Airport | Ped X-Walk | 0 | No Car |
| 13:20 | 1 | Airport | Ped X-Walk | 2 | No Car |
| 13:30 | 2 | Airport | Jaywalk | 0 | No Car |
| 13:30 | 1 | Airport | Ped X-Walk | 0 | No Car |
| 13:30 | 3 | Airport | Ped X-Walk | 3 | No Car |
| 13:30 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 13:30 | 2 | Airport | Ped X-Walk | 3 | No Car |
| 13:30 | 1 | Airport | Ped X-Walk | 0 | No Car |
| 13:30 | 2 | Lot | Ped X-Walk | 0 | No Car |
| 13:40 | 1 | Lot | Ped X-Walk | 1 | No Car |
| 13:40 | 1 | Airport | Ped X-Walk | 0 | No Car |
| 13:40 | 2 | Lot | Ped X-Walk | 0 | No Car |
| 13:40 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 13:40 | 1 | Airport | Ped X-Walk | 1 | No Car |

| | | | | | |
|-------|---|---------|------------|---|--------|
| 13:40 | 1 | Airport | Jaywalk | 1 | No Car |
| 13:50 | 1 | Airport | Ped X-Walk | 0 | No Car |
| 13:50 | 2 | Airport | Ped X-Walk | 0 | No Car |
| 13:50 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 13:50 | 3 | Airport | Ped X-Walk | 1 | No Car |
| 13:50 | 3 | Airport | Ped X-Walk | 2 | No Car |

St. Pete Clearwater International Airport**Thursday, December 14th, 2017****PM Peak Period (12:00 PM - 2:00 PM)****Crosswalk: 2**

| Time | Size of Group | Origin | Crossing | Total Luggage | Vehicle Reaction |
|-------------|----------------------|---------------|-----------------|----------------------|-------------------------|
| 12:00 | 1 | Lot | Ped X-Walk | 1 | No Car |
| 12:00 | 2 | Lot | Ped X-Walk | 2 | Stopped |
| 12:00 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 12:00 | 3 | Lot | Ped X-Walk | 1 | No Car |
| 12:10 | 3 | Airport | Ped X-Walk | 0 | Stopped |
| 12:10 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 12:10 | 3 | Lot | Ped X-Walk | 0 | Stopped |
| 12:10 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 12:10 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 12:10 | 2 | Lot | Ped X-Walk | 0 | No Car |
| 12:10 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 12:20 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 12:20 | 1 | Lot | Jaywalking | 0 | No Car |
| 12:20 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 12:20 | 2 | Lot | Ped X-Walk | 0 | Stopped |
| 12:20 | 3 | Lot | Ped X-Walk | 2 | Stopped |
| 12:20 | 2 | Lot | Ped X-Walk | 0 | Stopped |
| 12:20 | 1 | Lot | Ped X-Walk | 1 | Stopped |
| 12:20 | 3 | Airport | Ped X-Walk | 2 | No Car |
| 12:20 | 2 | Lot | Ped X-Walk | 1 | No Car |
| 12:30 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 12:30 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 12:30 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 12:30 | 4 | Airport | Ped X-Walk | 2 | Stopped |
| 12:30 | 1 | Airport | Ped X-Walk | 0 | Stopped |
| 12:30 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 12:40 | 3 | Lot | Ped X-Walk | 2 | Stopped |
| 12:40 | 3 | Lot | Ped X-Walk | 0 | Stopped |
| 12:40 | 2 | Airport | Ped X-Walk | 1 | Stopped |
| 12:40 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 12:50 | 2 | Airport | Ped X-Walk | 1 | Stopped |
| 12:50 | 3 | Airport | Ped X-Walk | 1 | No Car |
| 12:50 | 3 | Lot | Ped X-Walk | 2 | Stopped |
| 12:50 | 4 | Airport | Ped X-Walk | 2 | Stopped |
| 12:50 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 12:50 | 1 | Lot | Ped X-Walk | 1 | Stopped |
| 12:50 | 3 | Airport | Ped X-Walk | 2 | No Car |
| 12:50 | 2 | Airport | Ped X-Walk | 3 | Stopped |
| 12:50 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 12:50 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 12:50 | 1 | Airport | Ped X-Walk | 1 | Stopped |
| 12:50 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 13:00 | 3 | Lot | Ped X-Walk | 0 | Stopped |
| 13:00 | 2 | Lot | Ped X-Walk | 1 | Stopped |
| 13:00 | 2 | Lot | Ped X-Walk | 0 | Stopped |
| 13:00 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 13:00 | 2 | Airport | Ped X-Walk | 1 | Stopped |
| 13:00 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 13:00 | 4 | Airport | Ped X-Walk | 1 | Stopped |

| | | | | | |
|-------|---|---------|------------|---|---------|
| 13:00 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 13:00 | 1 | Lot | Ped X-Walk | 1 | Stopped |
| 13:00 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 13:00 | 5 | Airport | Ped X-Walk | 4 | Stopped |
| 13:00 | 2 | Airport | Ped X-Walk | 2 | Stopped |
| 13:00 | 2 | Lot | Ped X-Walk | 0 | No Car |
| 13:00 | 1 | Airport | Ped X-Walk | 0 | No Car |
| 13:00 | 2 | Lot | Ped X-Walk | 0 | No Car |
| 13:00 | 5 | Airport | Ped X-Walk | 2 | Stopped |
| 13:00 | 1 | Lot | Ped X-Walk | 4 | Stopped |
| 13:00 | 2 | Airport | Ped X-Walk | 0 | No Car |
| 13:00 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 13:00 | 1 | Lot | Ped X-Walk | 1 | No Car |
| 13:00 | 2 | Lot | Ped X-Walk | 0 | Stopped |
| 13:10 | 2 | Lot | Ped X-Walk | 0 | No Car |
| 13:10 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 13:10 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 13:10 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 13:10 | 3 | Lot | Ped X-Walk | 0 | Stopped |
| 13:10 | 3 | Lot | Ped X-Walk | 1 | Stopped |
| 13:10 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 13:10 | 2 | Lot | Ped X-Walk | 0 | No Car |
| 13:10 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 13:10 | 1 | Airport | Ped X-Walk | 1 | Stopped |
| 13:10 | 2 | Lot | Ped X-Walk | 0 | No Car |
| 13:10 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 13:10 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 13:10 | 1 | Lot | Ped X-Walk | 1 | No Car |
| 13:10 | 2 | Lot | Ped X-Walk | 0 | No Car |
| 13:10 | 3 | Airport | Ped X-Walk | 1 | No Car |
| 13:10 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 13:10 | 1 | Airport | Ped X-Walk | 0 | No Car |
| 13:10 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 13:20 | 6 | Airport | Ped X-Walk | 4 | Stopped |
| 13:20 | 2 | Lot | Ped X-Walk | 0 | No Car |
| 13:20 | 3 | Lot | Ped X-Walk | 0 | No Car |
| 13:20 | 1 | Airport | Ped X-Walk | 0 | No Car |
| 13:20 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 13:20 | 1 | Airport | Ped X-Walk | 0 | No Car |
| 13:20 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 13:20 | 2 | Airport | Ped X-Walk | 1 | Stopped |
| 13:20 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 13:20 | 3 | Airport | Ped X-Walk | 2 | Stopped |
| 13:20 | 7 | Airport | Ped X-Walk | 4 | Stopped |
| 13:20 | 2 | Airport | Ped X-Walk | 2 | Stopped |
| 13:20 | 2 | Lot | Ped X-Walk | 0 | Stopped |
| 13:20 | 2 | Lot | Ped X-Walk | 0 | Stopped |
| 13:20 | 1 | Airport | Ped X-Walk | 2 | Stopped |
| 13:20 | 2 | Lot | Ped X-Walk | 1 | Stopped |
| 13:20 | 7 | Airport | Ped X-Walk | 4 | Stopped |
| 13:30 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 13:30 | 2 | Airport | Ped X-Walk | 2 | Stopped |
| 13:30 | 4 | Lot | Ped X-Walk | 0 | Stopped |
| 13:30 | 2 | Airport | Ped X-Walk | 2 | Stopped |

| | | | | | |
|-------|---|---------|------------|---|--------------|
| 13:30 | 4 | Airport | Ped X-Walk | 2 | Stopped |
| 13:30 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 13:30 | 2 | Airport | Ped X-Walk | 1 | Stopped |
| 13:30 | 4 | Airport | Ped X-Walk | 3 | Stopped |
| 13:30 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 13:30 | 1 | Airport | Ped X-Walk | 1 | Stopped |
| 13:30 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 13:30 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 13:30 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 13:30 | 2 | Lot | Ped X-Walk | 0 | Stopped |
| 13:40 | 3 | Lot | Ped X-Walk | 0 | Stopped |
| 13:40 | 4 | Lot | Ped X-Walk | 0 | Stopped |
| 13:40 | 2 | Airport | Ped X-Walk | 2 | Stopped |
| 13:40 | 3 | Airport | Ped X-Walk | 0 | Stopped |
| 13:40 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 13:40 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 13:40 | 1 | Airport | Ped X-Walk | 0 | Stopped |
| 13:50 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 13:50 | 3 | Lot | Ped X-Walk | 0 | Stopped |
| 13:50 | 2 | Lot | Ped X-Walk | 0 | Stopped |
| 13:50 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 13:50 | 2 | Lot | Ped X-Walk | 0 | Stopped |
| 13:50 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 13:50 | 2 | Lot | Ped X-Walk | 0 | Did Not Stop |
| 13:50 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 13:50 | 2 | Lot | Ped X-Walk | 0 | Stopped |
| 13:50 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 13:50 | 3 | Airport | Ped X-Walk | 0 | Stopped |
| 13:50 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 13:50 | 2 | Airport | Ped X-Walk | 0 | Stopped |
| 13:50 | 2 | Airport | Ped X-Walk | 1 | No Car |

St. Pete Clearwater International Airport
Thursday, December 14th, 2017
PM Peak Period (12:00 PM - 2:00 PM)
Crosswalk: 3

| Time | Size of Group | Origin | Crossing | Total Luggage | Vehicle Reaction |
|-------------|----------------------|---------------|-----------------|----------------------|-------------------------|
| 12:00 | 1 | Airport | Ped X-Walk | 1 | No Car |
| 12:00 | 1 | Airport | Ped X-Walk | 0 | No Car |
| 12:00 | 1 | Airport | Ped X-Walk | 0 | No Car |
| 12:20 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 12:20 | 2 | Airport | Ped X-Walk | 1 | Stopped |
| 12:20 | 3 | Airport | Ped X-Walk | 1 | Stopped |
| 12:30 | 2 | Airport | Ped X-Walk | 1 | Stopped |
| 12:30 | 6 | Airport | Ped X-Walk | 3 | Stopped |
| 12:30 | 5 | Airport | Ped X-Walk | 4 | Stopped |
| 12:40 | 2 | Airport | Ped X-Walk | 2 | Stopped |
| 12:40 | 1 | Airport | Ped X-Walk | 1 | No Car |
| 12:50 | 3 | Lot | Ped X-Walk | 0 | No Car |
| 12:50 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 13:00 | 2 | Lot | Ped X-Walk | 1 | Abruptly Stopped |
| 13:00 | 2 | Airport | Ped X-Walk | 2 | Stopped |
| 13:00 | 2 | Airport | Ped X-Walk | 0 | Stopped |
| 13:10 | 1 | Airport | Ped X-Walk | 0 | No Car |
| 13:20 | 1 | Airport | Ped X-Walk | 0 | Stopped |
| 13:20 | 2 | Airport | Ped X-Walk | 2 | Stopped |
| 13:20 | 2 | Airport | Ped X-Walk | 1 | Stopped |
| 13:20 | 1 | Airport | Ped X-Walk | 0 | Stopped |
| 13:20 | 2 | Lot | Ped X-Walk | 3 | Stopped |
| 13:30 | 1 | Airport | Ped X-Walk | 1 | Stopped |
| 13:30 | 1 | Airport | Ped X-Walk | 1 | Stopped |
| 13:30 | 3 | Airport | Ped X-Walk | 2 | Stopped |
| 13:30 | 1 | Airport | Ped X-Walk | 1 | Stopped |
| 13:40 | 1 | Airport | Ped X-Walk | 1 | Stopped |
| 13:40 | 3 | Airport | Ped X-Walk | 3 | Stopped |
| 13:40 | 2 | Airport | Ped X-Walk | 1 | Stopped |
| 13:50 | 2 | Lot | Ped X-Walk | 2 | Stopped |
| 13:50 | 1 | Airport | Ped X-Walk | 0 | Stopped |

St. Pete Clearwater International Airport**Thursday, December 14th, 2017****PM Peak Period (12:00 PM - 2:00 PM)****Crosswalk: 4**

| Time | Size of Group | Origin | Crossing | Total Luggage | Vehicle Reaction |
|-------------|----------------------|---------------|-----------------|----------------------|-------------------------|
| 12:00 | 2 | Lot | Ped X-Walk | 2 | No Car |
| 12:00 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 12:00 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 12:00 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 12:20 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 12:20 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 12:20 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 12:30 | 2 | Airport | Ped X-Walk | 2 | Stopped |
| 12:40 | 2 | Airport | Ped X-Walk | 0 | No Car |
| 12:40 | 2 | Lot | Ped X-Walk | 0 | No Car |
| 12:50 | 2 | Lot | Ped X-Walk | 4 | Stopped |
| 12:50 | 1 | Lot | Ped X-Walk | 1 | Stopped |
| 13:00 | 2 | Airport | Ped X-Walk | 1 | No Car |
| 13:00 | 3 | Airport | Ped X-Walk | 2 | Stopped |
| 13:00 | 2 | Airport | Ped X-Walk | 2 | Stopped |
| 13:00 | 2 | Airport | Ped X-Walk | 1 | Stopped |
| 13:00 | 1 | Lot | Ped X-Walk | 2 | Stopped |
| 13:00 | 3 | Airport | Ped X-Walk | 3 | Stopped |
| 13:00 | 1 | Lot | Jaywalking | 0 | Stopped |
| 13:00 | 2 | Lot | Ped X-Walk | 0 | Stopped |
| 13:30 | 3 | Airport | Ped X-Walk | 0 | Stopped |
| 13:30 | 1 | Airport | Ped X-Walk | 0 | Stopped |
| 13:30 | 2 | Lot | Ped X-Walk | 0 | Stopped |
| 13:40 | 2 | Airport | Ped X-Walk | 2 | Stopped |
| 13:40 | 1 | Airport | Ped X-Walk | 2 | Stopped |
| 13:40 | 3 | Airport | Ped X-Walk | 2 | Stopped |
| 13:40 | 3 | Airport | Ped X-Walk | 3 | Stopped |
| 13:40 | 3 | Airport | Ped X-Walk | 2 | Stopped |
| 13:40 | 2 | Lot | Ped X-Walk | 3 | Stopped |
| 13:40 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 13:40 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 13:40 | 1 | Airport | Ped X-Walk | 0 | Stopped |
| 13:50 | 1 | Airport | Ped X-Walk | 1 | No Car |

St. Pete Clearwater International Airport
Thursday, December 14th, 2017
PM Peak Period (12:00 PM - 2:00 PM)

Crosswalk: 5

| Time | Size of Group | Origin | Crossing | Total Luggage | Vehicle Reaction |
|-------|---------------|---------|------------|---------------|------------------|
| 12:00 | 1 | Lot | Ped X-Walk | 2 | No Car |
| 12:00 | 1 | Lot | Ped X-Walk | 1 | Stopped |
| 12:00 | 1 | Airport | Ped X-Walk | 0 | Stopped |
| 12:00 | 1 | Lot | Ped X-Walk | 1 | Stopped |
| 12:00 | 1 | Lot | Jaywalking | 0 | Did Not Stop |
| 12:00 | 1 | Lot | Ped X-Walk | 1 | Stopped |
| 12:00 | 2 | Lot | Ped X-Walk | 2 | No Car |
| 12:00 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 12:00 | 2 | Lot | Ped X-Walk | 2 | Stopped |
| 12:10 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 12:10 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 12:10 | 1 | Lot | Ped X-Walk | 1 | Stopped |
| 12:10 | 2 | Lot | Ped X-Walk | 2 | No Car |
| 12:10 | 2 | Lot | Ped X-Walk | 2 | Stopped |
| 12:10 | 4 | Lot | Ped X-Walk | 4 | Stopped |
| 12:10 | 1 | Airport | Ped X-Walk | 0 | Abruptly Stopped |
| 12:10 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 12:10 | 1 | Lot | Jaywalking | 2 | Stopped |
| 12:10 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 12:10 | 1 | Lot | Ped X-Walk | 1 | No Car |
| 12:10 | 2 | Lot | Ped X-Walk | 2 | No Car |
| 12:10 | 2 | Lot | Ped X-Walk | 2 | No Car |
| 12:10 | 2 | Lot | Ped X-Walk | 2 | Did Not Stop |
| 12:10 | 1 | Airport | Ped X-Walk | 0 | Stopped |
| 12:20 | 1 | Lot | Ped X-Walk | 1 | Stopped |
| 12:20 | 2 | Lot | Ped X-Walk | 1 | Did Not Stop |
| 12:20 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 12:20 | 1 | Lot | Ped X-Walk | 1 | Stopped |
| 12:20 | 9 | Lot | Ped X-Walk | 4 | Stopped |
| 12:20 | 4 | Lot | Ped X-Walk | 4 | Stopped |
| 12:20 | 2 | Lot | Ped X-Walk | 2 | Stopped |
| 12:30 | 3 | Lot | Ped X-Walk | 1 | Stopped |
| 12:30 | 4 | Lot | Ped X-Walk | 2 | No Car |
| 12:30 | 3 | Lot | Ped X-Walk | 2 | Stopped |
| 12:30 | 3 | Lot | Ped X-Walk | 2 | Stopped |
| 12:30 | 1 | Lot | Ped X-Walk | 1 | Stopped |
| 12:30 | 2 | Airport | Ped X-Walk | 2 | Abruptly Stopped |
| 12:30 | 1 | Lot | Ped X-Walk | 2 | Stopped |
| 12:30 | 2 | Lot | Ped X-Walk | 2 | No Car |
| 12:30 | 1 | Lot | Ped X-Walk | 1 | Stopped |
| 12:30 | 2 | Lot | Ped X-Walk | 2 | Stopped |
| 12:30 | 1 | Airport | Ped X-Walk | 0 | No Car |
| 12:30 | 1 | Lot | Ped X-Walk | 1 | Did Not Stop |
| 12:30 | 2 | Airport | Ped X-Walk | 2 | No Car |
| 12:30 | 2 | Airport | Ped X-Walk | 1 | No Car |
| 12:30 | 2 | Lot | Ped X-Walk | 0 | No Car |
| 12:30 | 1 | Airport | Ped X-Walk | 0 | Did Not Stop |
| 12:30 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 12:30 | 1 | Airport | Ped X-Walk | 1 | Stopped |

| | | | | | |
|-------|---|---------|------------|---|------------------|
| 12:40 | 1 | Airport | Jaywalking | 0 | Stopped |
| 12:40 | 2 | Lot | Ped X-Walk | 2 | No Car |
| 12:40 | 6 | Airport | Ped X-Walk | 4 | No Car |
| 12:40 | 1 | Lot | Ped X-Walk | 1 | No Car |
| 12:40 | 4 | Airport | Ped X-Walk | 4 | Stopped |
| 12:40 | 2 | Lot | Ped X-Walk | 2 | Stopped |
| 12:40 | 2 | Airport | Ped X-Walk | 2 | Stopped |
| 12:40 | 1 | Airport | Ped X-Walk | 0 | No Car |
| 12:40 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 12:40 | 1 | Lot | Ped X-Walk | 1 | No Car |
| 12:40 | 1 | Airport | Ped X-Walk | 0 | No Car |
| 12:40 | 1 | Airport | Ped X-Walk | 1 | Abruptly Stopped |
| 12:40 | 1 | Airport | Jaywalking | 1 | Stopped |
| 12:40 | 2 | Airport | Ped X-Walk | 1 | Stopped |
| 12:40 | 2 | Lot | Ped X-Walk | 2 | No Car |
| 12:40 | 2 | Lot | Ped X-Walk | 2 | Stopped |
| 12:40 | 1 | Lot | Ped X-Walk | 1 | Stopped |
| 12:40 | 1 | Airport | Ped X-Walk | 1 | Stopped |
| 12:40 | 1 | Lot | Ped X-Walk | 1 | Stopped |
| 12:50 | 1 | Airport | Ped X-Walk | 0 | Stopped |
| 12:50 | 3 | Airport | Ped X-Walk | 3 | Did Not Stop |
| 12:50 | 2 | Airport | Ped X-Walk | 2 | Stopped |
| 12:50 | 2 | Lot | Ped X-Walk | 2 | No Car |
| 12:50 | 3 | Lot | Ped X-Walk | 2 | No Car |
| 12:50 | 1 | Airport | Ped X-Walk | 1 | Stopped |
| 12:50 | 1 | Lot | Jaywalking | 1 | Stopped |
| 12:50 | 2 | Lot | Ped X-Walk | 1 | No Car |
| 12:50 | 2 | Airport | Ped X-Walk | 2 | No Car |
| 12:50 | 1 | Lot | Ped X-Walk | 0 | Did Not Stop |
| 12:50 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 12:50 | 4 | Lot | Ped X-Walk | 0 | Abruptly Stopped |
| 12:50 | 1 | Airport | Ped X-Walk | 1 | No Car |
| 12:50 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 12:50 | 4 | Airport | Ped X-Walk | 4 | Stopped |
| 12:50 | 2 | Airport | Ped X-Walk | 1 | Stopped |
| 12:50 | 2 | Airport | Ped X-Walk | 1 | Stopped |
| 13:00 | 2 | Airport | Ped X-Walk | 1 | Stopped |
| 13:00 | 2 | Airport | Ped X-Walk | 1 | Stopped |
| 13:00 | 3 | Lot | Ped X-Walk | 1 | Stopped |
| 13:00 | 2 | Airport | Ped X-Walk | 1 | Stopped |
| 13:00 | 3 | Lot | Jaywalking | 2 | Stopped |
| 13:00 | 2 | Airport | Ped X-Walk | 1 | Stopped |
| 13:00 | 3 | Lot | Ped X-Walk | 3 | Stopped |
| 13:00 | 1 | Airport | Ped X-Walk | 1 | Stopped |
| 13:00 | 3 | Airport | Jaywalking | 2 | Abruptly Stopped |
| 13:00 | 2 | Lot | Ped X-Walk | 0 | Stopped |
| 13:00 | 2 | Airport | Ped X-Walk | 1 | No Car |
| 13:00 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 13:00 | 5 | Airport | Ped X-Walk | 4 | Stopped |
| 13:00 | 2 | Lot | Ped X-Walk | 2 | Stopped |
| 13:00 | 1 | Airport | Ped X-Walk | 1 | Stopped |
| 13:00 | 1 | Airport | Ped X-Walk | 1 | Stopped |
| 13:00 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 13:00 | 1 | Airport | Ped X-Walk | 0 | No Car |

| | | | | | |
|-------|---|---------|------------|---|------------------|
| 13:00 | 2 | Airport | Ped X-Walk | 1 | No Car |
| 13:00 | 2 | Airport | Ped X-Walk | 2 | Stopped |
| 13:00 | 1 | Airport | Jaywalking | 0 | Stopped |
| 13:00 | 2 | Lot | Ped X-Walk | 2 | No Car |
| 13:10 | 1 | Airport | Ped X-Walk | 1 | No Car |
| 13:10 | 2 | Airport | Jaywalking | 2 | No Car |
| 13:10 | 2 | Airport | Ped X-Walk | 2 | No Car |
| 13:10 | 1 | Airport | Ped X-Walk | 0 | Stopped |
| 13:10 | 2 | Airport | Ped X-Walk | 2 | Stopped |
| 13:10 | 2 | Lot | Ped X-Walk | 0 | Stopped |
| 13:10 | 2 | Lot | Ped X-Walk | 2 | Did Not Stop |
| 13:10 | 1 | Airport | Ped X-Walk | 0 | No Car |
| 13:10 | 4 | Airport | Ped X-Walk | 4 | No Car |
| 13:10 | 2 | Airport | Ped X-Walk | 3 | Stopped |
| 13:10 | 2 | Airport | Ped X-Walk | 2 | Stopped |
| 13:10 | 2 | Lot | Ped X-Walk | 1 | Stopped |
| 13:10 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 13:10 | 4 | Airport | Ped X-Walk | 0 | No Car |
| 13:10 | 2 | Lot | Ped X-Walk | 2 | No Car |
| 13:10 | 2 | Airport | Ped X-Walk | 0 | Stopped |
| 13:10 | 1 | Airport | Ped X-Walk | 2 | Did Not Stop |
| 13:10 | 1 | Airport | Ped X-Walk | 1 | Stopped |
| 13:10 | 1 | Airport | Ped X-Walk | 4 | Stopped |
| 13:10 | 2 | Airport | Ped X-Walk | 0 | Stopped |
| 13:10 | 2 | Lot | Ped X-Walk | 2 | Stopped |
| 13:10 | 2 | Lot | Ped X-Walk | 3 | No Car |
| 13:10 | 1 | Lot | Ped X-Walk | 3 | Stopped |
| 13:20 | 5 | Lot | Ped X-Walk | 0 | No Car |
| 13:20 | 2 | Airport | Ped X-Walk | 0 | No Car |
| 13:20 | 1 | Lot | Ped X-Walk | 1 | No Car |
| 13:20 | 2 | Lot | Ped X-Walk | 0 | Stopped |
| 13:20 | 2 | Lot | Ped X-Walk | 0 | Stopped |
| 13:20 | 1 | Lot | Jaywalking | 0 | Stopped |
| 13:20 | 2 | Lot | Ped X-Walk | 4 | Stopped |
| 13:20 | 1 | Airport | Ped X-Walk | 0 | No Car |
| 13:20 | 2 | Airport | Ped X-Walk | 2 | Stopped |
| 13:20 | 1 | Airport | Ped X-Walk | 3 | No Car |
| 13:20 | 1 | Airport | Ped X-Walk | 2 | Abruptly Stopped |
| 13:20 | 1 | Airport | Jaywalking | 0 | Stopped |
| 13:20 | 4 | Airport | Ped X-Walk | 1 | Stopped |
| 13:30 | 1 | Lot | Jaywalking | 3 | No Car |
| 13:30 | 3 | Lot | Ped X-Walk | 2 | Abruptly Stopped |
| 13:30 | 4 | Airport | Ped X-Walk | 0 | Stopped |
| 13:30 | 2 | Lot | Ped X-Walk | 1 | No Car |
| 13:30 | 1 | Airport | Ped X-Walk | 1 | No Car |
| 13:30 | 2 | Lot | Ped X-Walk | 3 | Abruptly Stopped |
| 13:30 | 3 | Airport | Ped X-Walk | 1 | Abruptly Stopped |
| 13:30 | 1 | Lot | Jaywalking | 2 | Stopped |
| 13:30 | 1 | Airport | Ped X-Walk | 4 | Stopped |
| 13:30 | 1 | Airport | Ped X-Walk | 2 | Stopped |
| 13:30 | 2 | Airport | Ped X-Walk | 2 | Stopped |
| 13:30 | 4 | Airport | Ped X-Walk | 0 | Stopped |
| 13:30 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 13:30 | 2 | Lot | Ped X-Walk | 1 | Stopped |

| | | | | | |
|-------|---|---------|------------|---|---------|
| 13:30 | 4 | Lot | Ped X-Walk | 1 | Stopped |
| 13:30 | 2 | Airport | Ped X-Walk | 1 | Stopped |
| 13:30 | 2 | Airport | Ped X-Walk | 1 | No Car |
| 13:30 | 1 | Lot | Ped X-Walk | 4 | Stopped |
| 13:40 | 1 | Lot | Ped X-Walk | 1 | Stopped |
| 13:40 | 1 | Lot | Ped X-Walk | 1 | Stopped |
| 13:40 | 1 | Airport | Ped X-Walk | 4 | Stopped |
| 13:40 | 2 | Airport | Ped X-Walk | 2 | Stopped |
| 13:40 | 1 | Lot | Ped X-Walk | 1 | Stopped |
| 13:40 | 4 | Lot | Ped X-Walk | 0 | No Car |
| 13:40 | 2 | Lot | Ped X-Walk | 0 | Stopped |
| 13:40 | 2 | Airport | Ped X-Walk | 2 | Stopped |
| 13:40 | 6 | Airport | Ped X-Walk | 0 | Stopped |
| 13:40 | 2 | Airport | Ped X-Walk | 1 | No Car |
| 13:40 | 2 | Airport | Ped X-Walk | 0 | Stopped |
| 13:40 | 1 | Airport | Ped X-Walk | 1 | Stopped |
| 13:40 | 1 | Lot | Ped X-Walk | 0 | No Car |
| 13:40 | 2 | Airport | Ped X-Walk | 1 | Stopped |
| 13:50 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 13:50 | 2 | Airport | Ped X-Walk | 2 | No Car |
| 13:50 | 1 | Airport | Ped X-Walk | 1 | No Car |
| 13:50 | 1 | Airport | Ped X-Walk | 1 | Stopped |
| 13:50 | 1 | Airport | Ped X-Walk | 1 | Stopped |
| 13:50 | 2 | Lot | Ped X-Walk | 0 | No Car |
| 13:50 | 1 | Lot | Ped X-Walk | 0 | Stopped |
| 13:50 | 3 | Airport | Ped X-Walk | 2 | No Car |
| 13:50 | 1 | Airport | Ped X-Walk | 1 | No Car |
| 13:50 | 1 | Lot | Ped X-Walk | 1 | Stopped |
| 13:50 | 1 | Airport | Ped X-Walk | 1 | Stopped |
| 14:50 | 1 | Lot | Ped X-Walk | 0 | No Car |

PIE Curbfront Vehicle Dwell Time and Vehicle Occupancy Survey

| | |
|-------------|--------------------|
| Date: | 12/14/2017 |
| Terminal: | T1 |
| Surveyor: | Sean |
| Location: | Ticketing A |
| Time: | 5:00-7:00 am |
| Data Links: | AM |
| Data Links: | |

- Time Depart:**
- Time Difference:**
- Vehicle:**
- Picking up:**
- Dropping off:**
- Total Passengers:**
- Lane Usage:**

Time vehicle arrives at curb (for example - 5:15 A.M.)
 Start stopwatch **once passenger loading begins**. Stop stopwatch once vehicle is clearly ready to depart (1 minutes and 40 seconds)
 Time vehicle departs curb and enters into the flow of traffic (crosses line) (for example - 5:18 A.M.)
 To be calculated after data collection. This is the difference between the time the vehicle stops and the time the vehicle departs. (for example - 3minutes)
 Check the box of the vehicle type being observed. Describe in Other if not found in provided check boxes.
 Number of Passengers entering the vehicle
 Number of Passengers exiting the vehicle
 Total number of Passengers in the vehicle after vehicle departs curb (i.e. occupancy)
 Indicate the number of the lane used by the vehicle. Lane number 1 being the curbside lane (count out from the lane closest to the curbfront).

| | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|------|----|----|----|----|----|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Dropoff Veh Volume | 31 | 0 | 0 | 4 | 0 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dropoff Total Occ | 70 | 0 | 0 | 8 | 0 | 0 | 66 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total People Dropped Off | 37 | 0 | 0 | 4 | 0 | 0 | 49 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dropoff Avg Occ | 2.26 | -- | -- | 2 | -- | -- | 3.88 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Pickup Veh Volume | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pickup Total Occ | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total People Picked Up | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pickup Avg Occ | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| # Vehicles No Dropoff/Pickup | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Dropoff Dwell
 Pickup Dwell

| Time Vehicle Stops at Curb (hr:min) | Duration of Loading/Unloading (min:sec) | Time Vehicle Departs Curb (hr:min) | Time Difference (to be calculated after) | MAX Times | Private Auto | Taxicab | Luxury Limousine | TNCs | Public Bus | Charter Bus | Economy Lot | Long-Term Parking (Green) | Employee (white & light blue) | Rental Car Shuttle | Contracted Shuttles | Transportation Vans | Hotel/Motel Shuttle | Delivery Trucks | Law Enforcement | UPSD Trucks | Other (please describe) | Passengers picked up | Passengers dropped off | Occupancy (Total Passengers) | Lane Usage Number | Notes |
|-------------------------------------|---|------------------------------------|--|-----------|--------------|---------|------------------|------|------------|-------------|-------------|---------------------------|-------------------------------|--------------------|---------------------|---------------------|---------------------|-----------------|-----------------|-------------|-------------------------|----------------------|------------------------|------------------------------|-------------------|--------------------|
| 4:57 | 01:22 | 4:58 | 0:01 | 0:01:22 | 1 | | | | | | | | | | | | | | | | | | 2 | 1 | 1 | |
| 4:59 | 00:58 | 4:59 | 0:00 | 0:00:58 | 1 | | | | | | | | | | | | | | | | | | 1 | 1 | 1 | |
| 5:01 | 00:14 | 5:01 | 0:00 | 0:00:14 | | | | | | | 1 | | | | | | | | | | | | 1 | 1 | 1 | |
| 5:05 | 00:16 | 5:05 | 0:00 | 0:00:16 | 1 | | | | | | | | | | | | | | | | | | 1 | 1 | 2 | |
| 5:05 | 00:40 | 5:05 | 0:00 | 0:00:40 | | | | | | | 1 | | | | | | | | | | | | 4 | 1 | 1 | |
| 5:06 | 01:08 | 5:07 | 0:01 | 0:01:08 | 1 | | | | | | | | | | | | | | | | | | 1 | 1 | 1 | |
| 5:08 | 01:46 | 5:09 | 0:01 | 0:01:46 | 1 | | | | | | | | | | | | | | | | | | 1 | 1 | 1 | |
| 5:10 | 00:21 | 5:10 | 0:00 | 0:00:21 | | | | 1 | | | | | | | | | | | | | | | 1 | 1 | 2 | |
| 5:10 | 00:29 | 5:10 | 0:00 | 0:00:29 | | | | | | | 1 | | | | | | | | | | | | 2 | 1 | 1 | |
| 5:11 | 01:32 | 5:12 | 0:01 | 0:01:32 | 1 | | | | | | | | | | | | | | | | | | 1 | 1 | 1 | |
| 5:13 | 00:22 | 5:13 | 0:00 | 0:00:22 | 1 | | | | | | | | | | | | | | | | | | 1 | 1 | 2 | |
| 5:14 | 00:19 | 5:14 | 0:00 | 0:00:19 | | | | | | | 1 | | | | | | | | | | | | 2 | 1 | 1 | |
| 5:15 | 00:38 | 5:15 | 0:00 | 0:00:38 | 1 | | | | | | | | | | | | | | | | | | 1 | 1 | 2 | |
| 5:16 | 01:06 | 5:17 | 0:01 | 0:01:06 | 1 | | | | | | | | | | | | | | | | | | 2 | 1 | 1 | |
| 5:17 | 02:29 | 5:19 | 0:02 | 0:02:29 | 1 | | | | | | | | | | | | | | | | | | 1 | 1 | 1 | |
| 5:20 | 00:54 | 5:20 | 0:00 | 0:00:54 | 1 | | | | | | | | | | | | | | | | | | 1 | 1 | 1 | |
| 5:21 | 03:44 | 5:24 | 0:03 | 0:03:44 | 1 | | | | | | | | | | | | | | | | | | 1 | 1 | 1 | |
| 5:28 | 00:48 | 5:28 | 0:00 | 0:00:48 | 1 | | | | | | | | | | | | | | | | | | 2 | 1 | 2 | |
| 5:30 | 00:22 | 5:30 | 0:00 | 0:00:22 | | | | | | | 1 | | | | | | | | | | | | 1 | 1 | 1 | |
| 5:31 | 00:52 | 5:31 | 0:00 | 0:00:52 | 1 | | | | | | | | | | | | | | | | | | 1 | 1 | 2 | |
| 5:32 | 01:12 | 5:33 | 0:01 | 0:01:12 | 1 | | | | | | | | | | | | | | | | | | 1 | 1 | 1 | |
| 5:36 | 00:26 | 5:36 | 0:00 | 0:00:26 | | | | | | | 1 | | | | | | | | | | | | 4 | 1 | 1 | |
| 5:37 | 00:33 | 5:37 | 0:00 | 0:00:33 | 1 | | | | | | | | | | | | | | | | | | 1 | 1 | 1 | |
| 5:39 | 01:36 | 5:40 | 0:01 | 0:01:36 | 1 | | | | | | | | | | | | | | | | | | 2 | 2 | 2 | |
| 5:41 | 01:32 | 5:42 | 0:01 | 0:01:32 | 1 | | | | | | | | | | | | | | | | | | 1 | 1 | 1 | |
| 5:44 | 00:27 | 5:44 | 0:00 | 0:00:27 | | | | | | | 1 | | | | | | | | | | | | 1 | 1 | 1 | |
| 5:46 | 00:08 | 5:46 | 0:00 | 0:00:08 | 1 | | | | | | | | | | | | | | | | | | 1 | 1 | 2 | |
| 5:47 | 01:38 | 5:48 | 0:01 | 0:01:38 | 1 | | | | | | | | | | | | | | | | | | 1 | 1 | 1 | |
| 5:48 | 00:27 | 5:48 | 0:00 | 0:00:27 | | | | | | | 1 | | | | | | | | | | | | 5 | 1 | 1 | |
| 5:49 | 01:22 | 5:50 | 0:01 | 0:01:22 | 1 | | | | | | | | | | | | | | | | | | 1 | 1 | 1 | |
| 5:52 | 01:20 | 5:53 | 0:01 | 0:01:20 | 1 | | | | | | | | | | | | | | | | | | 1 | 1 | 1 | |
| 5:53 | 01:06 | 5:54 | 0:01 | 0:01:06 | | | | 1 | | | | | | | | | | | | | | | 1 | 1 | 1 | |
| 5:56 | 03:05 | 5:59 | 0:03 | 0:03:05 | 1 | | | | | | | | | | | | | | | | | | 1 | 1 | 1 | |
| 6:00 | 00:59 | 6:00 | 0:00 | 0:00:59 | 1 | | | | | | | | | | | | | | | | | | 1 | 1 | 1 | |
| 6:01 | 00:10 | 6:01 | 0:00 | 0:00:10 | | | | | | | 1 | | | | | | | | | | | | 2 | 1 | 1 | |
| 6:04 | 03:57 | 6:07 | 0:03 | 0:03:57 | 1 | | | | | | | | | | | | | | | | | 1 | 1 | 2 | 1 | |
| 6:09 | 00:56 | 6:09 | 0:00 | 0:00:56 | 1 | | | | | | | | | | | | | | | | | | 2 | 2 | 2 | |
| 6:10 | 01:55 | 6:11 | 0:01 | 0:01:55 | | | | | | | 1 | | | | | | | | | | | | 5 | 1 | 1 | |
| 6:13 | 04:35 | 6:17 | 0:04 | 0:04:35 | | | | | | | 1 | | | | | | | | | | | | 1 | 1 | 1 | Driver went inside |
| 6:23 | 00:24 | 6:23 | 0:00 | 0:00:24 | | | | 1 | | | | | | | | | | | | | | | 1 | 1 | 1 | |
| 6:23 | 00:50 | 6:23 | 0:00 | 0:00:50 | 1 | | | | | | | | | | | | | | | | | | 1 | 1 | 1 | |
| 6:26 | 00:33 | 6:26 | 0:00 | 0:00:33 | | | | | | | 1 | | | | | | | | | | | | 8 | 1 | 1 | |
| 6:28 | 02:40 | 6:30 | 0:02 | 0:02:40 | | | | 1 | | | | | | | | | | | | | | | 1 | 1 | 1 | |
| 6:31 | 01:06 | 6:32 | 0:01 | 0:01:06 | | | | | | | 1 | | | | | | | | | | | | 2 | 1 | 1 | |
| 6:35 | 00:29 | 6:35 | 0:00 | 0:00:29 | | | | | | | 1 | | | | | | | | | | | | 3 | 1 | 1 | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------|-------|------|------|---------|---|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|---|---|---|-------------------------|
| 6:37 | 03:09 | 6:40 | 0:03 | 0:03:09 | 1 | | | | | | | | | | | | | | | | 2 | 1 | 1 | Parked in shuttle space |
| 6:42 | 00:11 | 6:42 | 0:00 | 0:00:11 | | | | | | 1 | | | | | | | | | | | 2 | 1 | 1 | |
| 6:43 | 00:37 | 6:43 | 0:00 | 0:00:37 | 1 | | | | | | | | | | | | | | | | 1 | 1 | 1 | |
| 6:46 | 01:07 | 6:47 | 0:01 | 0:01:07 | 1 | | | | | | | | | | | | | | | | 1 | 1 | 1 | |
| 6:48 | 00:43 | 6:48 | 0:00 | 0:00:43 | | | | | | 1 | | | | | | | | | | | 3 | 1 | 1 | |
| 6:54 | 00:48 | 6:54 | 0:00 | 0:00:48 | | | | | | 1 | | | | | | | | | | | 3 | 1 | 1 | |
| 6:59 | 00:38 | 6:59 | 0:00 | 0:00:38 | 1 | | | | | | | | | | | | | | | | 1 | 1 | 1 | |

PIE Curbfront Vehicle Dwell Time and Vehicle Occupancy Survey

| | |
|-------------|--------------------|
| Date : | 12/14/2017 |
| Terminal: | T1 |
| Surveyor: | David |
| Location: | Ticketing B-East |
| Time | 5:00-7:00 AM |
| Data Links: | AM |
| Data Links: | |

Time vehicle arrives at curb (for example - 5:15 A.M.)
 Start stopwatch **once passenger loading begins**. Stop stopwatch once vehicle is clearly ready to depart (1 minutes and 40 seconds)
 Time vehicle departs curb and enters into the flow of traffic (crosses line) (for example - 5:18 A.M.)
 To be calculated after data collection. This is the difference between the time the vehicle stops and the time the vehicle departs. (for example - 3minutes)
 Check the box of the vehicle type being observed. Describe in Other if not found in provided check boxes.
Picking up: Number of Passengers entering the vehicle
Dropping off: Number of Passengers exiting the vehicle
Total Passengers: Total number of Passengers in the vehicle after vehicle departs curb (i.e. occupancy)
Lane Usage: Indicate the number of the lane used by the vehicle. Lane number 1 being the curbside lane (count out from the lane closest to the curbfront).

| | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Dropoff Veh Volume | 97 | 4 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dropoff Total Occ | 264 | 8 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 2 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total People Dropped Off | 157 | 4 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dropoff Avg Occ | 2.72 | 2 | -- | -- | -- | 3 | -- | -- | -- | -- | 2 | 3 | 3 | -- | -- | -- | -- | -- | -- | -- | -- |
| Pickup Veh Volume | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pickup Total Occ | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total People Picked Up | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pickup Avg Occ | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| # Vehicles No Dropoff/Pickup | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Dropoff Dwell
 Pickup Dwell

| Time Vehicle Stops at Curb (hr:min) | Duration of Loading/ Unloading (min:sec) | Time Vehicle Departs Curb (hr:min) | Time Difference (to be calculated after) | MAX Times | Private Auto | Taxicab | Luxury Limousine | TNCs | Public Bus | Charter Bus | Economy Lot | Long-Term Parking (Green) | Employee (white & light blue) | Rental Car Shuttle | Contracted Shuttles | Transportation Vans | Hotel/Motel Shuttle | Delivery Trucks | Law Enforcement | UPSD Trucks | Other (please describe) | Passengers picked up | Passengers dropped off | Occupancy (Total Passengers) | Lane Usage Number | Notes | |
|-------------------------------------|--|------------------------------------|--|-----------|--------------|---------|------------------|------|------------|-------------|-------------|---------------------------|-------------------------------|--------------------|---------------------|---------------------|---------------------|-----------------|-----------------|-------------|-------------------------|----------------------|------------------------|------------------------------|-------------------|-------|--|
| 4:57 | 03:38 | 5:00 | 0:03 | 0:03:38 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 4:58 | 01:15 | 4:59 | 0:01 | 0:01:15 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 5:01 | 01:02 | 5:02 | 0:01 | 0:01:02 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 5:01 | 01:48 | 5:02 | 0:01 | 0:01:48 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 5:02 | 00:42 | 5:02 | 0:00 | 0:00:42 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 5:03 | 00:50 | 5:03 | 0:00 | 0:00:50 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 5:04 | 00:42 | 5:04 | 0:00 | 0:00:42 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 5:05 | 00:36 | 5:05 | 0:00 | 0:00:36 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 5:05 | 00:40 | 5:05 | 0:00 | 0:00:40 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 5:06 | 01:34 | 5:07 | 0:01 | 0:01:34 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 5:06 | 01:02 | 5:07 | 0:01 | 0:01:02 | | 1 | | | | | | | | | | | | | | | | | | | | | |
| 5:08 | 00:20 | 5:08 | 0:00 | 0:00:20 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 5:09 | 03:15 | 5:12 | 0:03 | 0:03:15 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 5:09 | 01:22 | 5:10 | 0:01 | 0:01:22 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 5:11 | 01:03 | 5:12 | 0:01 | 0:01:03 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 5:13 | 00:47 | 5:13 | 0:00 | 0:00:47 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 5:15 | 01:10 | 5:16 | 0:01 | 0:01:10 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 5:15 | 00:35 | 5:15 | 0:00 | 0:00:35 | | 1 | | | | | | | | | | | | | | | | | | | | | |
| 5:16 | 01:15 | 5:17 | 0:01 | 0:01:15 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 5:17 | 01:32 | 5:18 | 0:01 | 0:01:32 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 5:18 | 00:43 | 5:18 | 0:00 | 0:00:43 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 5:19 | 04:03 | 5:23 | 0:04 | 0:04:03 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 5:23 | 00:53 | 5:23 | 0:00 | 0:00:53 | | | | | | | | | | | | 1 | | | | | | | | | | | |
| 5:25 | 00:34 | 5:25 | 0:00 | 0:00:34 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 5:26 | 00:20 | 5:26 | 0:00 | 0:00:20 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 5:27 | 00:30 | 5:27 | 0:00 | 0:00:30 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 5:28 | 00:20 | 5:28 | 0:00 | 0:00:20 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 5:28 | 00:26 | 5:28 | 0:00 | 0:00:26 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 5:29 | 02:39 | 5:31 | 0:02 | 0:02:39 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 5:29 | 02:31 | 5:31 | 0:02 | 0:02:31 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 5:33 | 00:43 | 5:33 | 0:00 | 0:00:43 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 5:33 | 00:42 | 5:33 | 0:00 | 0:00:42 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 5:34 | 01:02 | 5:35 | 0:01 | 0:01:02 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 5:34 | 01:43 | 5:35 | 0:01 | 0:01:43 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 5:35 | 01:07 | 5:36 | 0:01 | 0:01:07 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 5:37 | 01:48 | 5:38 | 0:01 | 0:01:48 | 1 | | | | | | | | | | | | | | | | | 1 | 1 | 1 | 1 | | |

PIE Curbfront Vehicle Dwell Time and Vehicle Occupancy Survey

| | |
|-------------|--------------------|
| Date : | 12/14/2017 |
| Terminal: | T1 |
| Surveyor: | Joel |
| Location: | Ticketing B-West |
| Time | 5:00-7:00 AM |
| Data Links: | AM |
| Data Links: | |

Time vehicle arrives at curb (for example - 5:15 A.M.)
 Start stopwatch **once passenger loading begins**. Stop stopwatch once vehicle is clearly ready to depart (1 minutes and 40 seconds)
 Time vehicle departs curb and enters into the flow of traffic (crosses line) (for example - 5:18 A.M.)
 To be calculated after data collection. This is the difference between the time the vehicle stops and the time the vehicle departs. (for example - 3minutes)
Vehicle: Check the box of the vehicle type being observed. Describe in Other if not found in provided check boxes.
Picking up: Number of Passengers entering the vehicle
Dropping off: Number of Passengers exiting the vehicle
Total Passengers: Total number of Passengers in the vehicle after vehicle departs curb (i.e. occupancy)
Lane Usage: Indicate the number of the lane used by the vehicle. Lane number 1 being the curbside lane (count out from the lane closest to the curbfront).

| | | | | | | | | | | | | | | | | | | |
|------------------------------|------|-----|----|----|----|----|----|----|----|----|----|----|-----|----|----|----|----|----|
| Dropoff Veh Volume | 84 | 8 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| Dropoff Total Occ | 240 | 20 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 15 | 0 | 0 | 0 | 0 | 0 |
| Total People Dropped Off | 143 | 12 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 12 | 0 | 0 | 0 | 0 | 0 |
| Dropoff Avg Occ | 2.86 | 2.5 | 3 | -- | -- | -- | -- | -- | -- | -- | 5 | -- | 7.5 | -- | -- | -- | -- | -- |
| Pickup Veh Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pickup Total Occ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total People Picked Up | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pickup Avg Occ | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| # Vehicles No Dropoff/Pickup | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Dropoff Dwell
 Pickup Dwell

| Time Vehicle Stops at Curb (hr:min) | Duration of Loading/ Unloading (min:sec) | Time Vehicle Departs Curb (hr:min) | Time Difference (to be calculated after) | MAX Times | Private Auto | Taxicab | Luxury Limousine | TNCs | Public Bus | Charter Bus | Economy Lot | Long-Term Parking (Green) | Employee (white & light blue) | Rental Car Shuttle | Contracted Shuttles | Transportation Vans | Hotel/Motel Shuttle | Delivery Trucks | Law Enforcement | UPSD Trucks | Other (please describe) | Passengers picked up | Passengers dropped off | Occupancy (Total Passengers) | Lane Usage Number | Notes |
|-------------------------------------|--|------------------------------------|--|-----------|--------------|---------|------------------|------|------------|-------------|-------------|---------------------------|-------------------------------|--------------------|---------------------|---------------------|---------------------|-----------------|-----------------|-------------|-------------------------|----------------------|------------------------|------------------------------|-------------------|-------|
| 5:14 | 00:11 | 5:14 | 0:00 | 0:00:11 | 1 | | | | | | | | | | | | | | | | | | 1 | 1 | 2 | |
| 5:15 | 00:42 | 5:15 | 0:00 | 0:00:42 | 1 | | | | | | | | | | | | | | | | | | 3 | 1 | 1 | |
| 5:16 | 00:08 | 5:16 | 0:00 | 0:00:08 | 1 | | | | | | | | | | | | | | | | | | 2 | 1 | 2 | |
| 5:16 | 01:06 | 5:17 | 0:01 | 0:01:06 | 1 | | | | | | | | | | | | | | | | | | 2 | 1 | 3 | |
| 5:18 | 00:45 | 5:18 | 0:00 | 0:00:45 | 1 | | | | | | | | | | | | | | | | | | 2 | 1 | 1 | |
| 5:19 | 00:45 | 5:19 | 0:00 | 0:00:45 | 1 | | | | | | | | | | | | | | | | | | 2 | 1 | 1 | |
| 5:21 | 00:34 | 5:21 | 0:00 | 0:00:34 | 1 | | | | | | | | | | | | | | | | | | 2 | 1 | 1 | |
| 5:22 | 01:16 | 5:23 | 0:01 | 0:01:16 | | 1 | | | | | | | | | | | | | | | | | 1 | 1 | 1 | |
| 5:24 | 01:02 | 5:25 | 0:01 | 0:01:02 | 1 | | | | | | | | | | | | | | | | | | 1 | 3 | 2 | |
| 5:25 | 01:00 | 5:26 | 0:01 | 0:01:00 | 1 | | | | | | | | | | | | | | | | | | 1 | 1 | 1 | |
| 5:28 | 01:15 | 5:29 | 0:01 | 0:01:15 | 1 | | | | | | | | | | | | | | | | | | 2 | 1 | 2 | |
| 5:28 | 01:11 | 5:29 | 0:01 | 0:01:11 | 1 | | | | | | | | | | | | | | | | | | 2 | 2 | 1 | |
| 5:33 | 01:18 | 5:34 | 0:01 | 0:01:18 | 1 | | | | | | | | | | | | | | | | | | 1 | 1 | 1 | |
| 5:31 | 01:59 | 5:32 | 0:01 | 0:01:59 | 1 | | | | | | | | | | | | | | | | | | 1 | 1 | 1 | |
| 5:33 | 00:44 | 5:33 | 0:00 | 0:00:44 | 1 | | | | | | | | | | | | | | | | | | 2 | 1 | 2 | |
| 5:34 | 00:46 | 5:34 | 0:00 | 0:00:46 | | | | | | | | | | | | | | | | | | Uber | 1 | 1 | 1 | |
| 5:34 | 00:49 | 5:34 | 0:00 | 0:00:49 | 1 | | | | | | | | | | | | | | | | | | 2 | 1 | 2 | |
| 5:35 | 01:16 | 5:36 | 0:01 | 0:01:16 | | 1 | | | | | | | | | | | | | | | | | 2 | 1 | 1 | |
| 5:36 | 00:45 | 5:36 | 0:00 | 0:00:45 | 1 | | | | | | | | | | | | | | | | | | 1 | 1 | 2 | |
| 5:37 | 01:08 | 5:38 | 0:01 | 0:01:08 | | | | | | | | | | | | | | | | | | | 3 | 1 | 1 | |
| 5:38 | 01:29 | 5:39 | 0:01 | 0:01:29 | 1 | | | | | | | | | | | | | | | | | | 1 | 1 | 2 | |
| 5:38 | 00:51 | 5:38 | 0:00 | 0:00:51 | 1 | | | | | | | | | | | | | | | | | | 2 | 1 | 1 | |
| 5:40 | 00:12 | 5:40 | 0:00 | 0:00:12 | 1 | | | | | | | | | | | | | | | | | | 1 | 1 | 1 | |
| 5:41 | 00:32 | 5:41 | 0:00 | 0:00:32 | 1 | | | | | | | | | | | | | | | | | | 2 | 1 | 2 | |
| 5:41 | 00:30 | 5:41 | 0:00 | 0:00:30 | | 1 | | | | | | | | | | | | | | | | | 2 | 1 | 1 | |
| 5:42 | 00:42 | 5:42 | 0:00 | 0:00:42 | 1 | | | | | | | | | | | | | | | | | | 3 | 1 | 1 | |
| 5:43 | 00:49 | 5:43 | 0:00 | 0:00:49 | 1 | | | | | | | | | | | | | | | | | | 1 | 1 | 1 | |
| 5:43 | 00:32 | 5:43 | 0:00 | 0:00:32 | | | | | | | | | | | | | | | | | | Uber | 1 | 1 | 1 | |
| 5:44 | 00:40 | 5:44 | 0:00 | 0:00:40 | 1 | | | | | | | | | | | | | | | | | | 1 | 1 | 1 | |
| 5:44 | 01:17 | 5:45 | 0:01 | 0:01:17 | 1 | | | | | | | | | | | | | | | | | | 2 | 1 | 1 | |
| 5:45 | 01:50 | 5:46 | 0:01 | 0:01:50 | 1 | | | | | | | | | | | | | | | | | | 1 | 1 | 1 | |
| 5:46 | 01:42 | 5:47 | 0:01 | 0:01:42 | 1 | | | | | | | | | | | | | | | | | | 2 | 1 | 1 | |
| 5:46 | 00:10 | 5:46 | 0:00 | 0:00:10 | 1 | | | | | | | | | | | | | | | | | | 1 | 1 | 2 | |
| 5:48 | 00:39 | 5:48 | 0:00 | 0:00:39 | | 1 | | | | | | | | | | | | | | | | | 2 | 1 | 2 | |
| 5:48 | 01:01 | 5:49 | 0:01 | 0:01:01 | | 1 | | | | | | | | | | | | | | | | | 2 | 1 | 1 | |
| 5:49 | 00:25 | 5:49 | 0:00 | 0:00:25 | | | | | | | | | | | | | | | | | | Lyft | 1 | 1 | 1 | |
| 5:51 | 01:02 | 5:52 | 0:01 | 0:01:02 | 1 | | | | | | | | | | | | | | | | | | 2 | 1 | 1 | |

PIE Curbfront Vehicle Dwell Time and Vehicle Occupancy Survey

| | |
|-------------|--------------------|
| Date: | 12/14/2017 |
| Terminal: | T1 |
| Surveyor: | David |
| Location: | Baggage Claim East |
| Time | 12:00 - 2:00 PM |
| Data Links: | AM |
| Data Links: | |

Time vehicle arrives at curb (for example - 5:15 A.M.)
 Start stopwatch **once passenger loading begins**. Stop stopwatch once vehicle is clearly ready to depart (1 minutes and 40 seconds)
 Time vehicle departs curb and enters into the flow of traffic (crosses line) (for example - 5:18 A.M.)
 To be calculated after data collection. This is the difference between the time the vehicle stops and the time the vehicle departs. (for example - 3minutes)
Vehicle: Check the box of the vehicle type being observed. Describe in Other if not found in provided check boxes.
Picking up: Number of Passengers entering the vehicle
Dropping off: Number of Passengers exiting the vehicle
Total Passengers: Total number of Passengers in the vehicle after vehicle departs curb (i.e. occupancy)
Lane Usage: Indicate the number of the lane used by the vehicle. Lane number 1 being the curbside lane (count out from the lane closest to the curbfront).

| | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Dropoff Veh Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dropoff Total Occ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total People Dropped Off | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dropoff Avg Occ | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Pickup Veh Volume | 47 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pickup Total Occ | 113 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total People Picked Up | 67 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pickup Avg Occ | 2.4 | -- | -- | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| # Vehicles No Dropoff/Pickup | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Dropoff Dwell

Pickup Dwell

| Time Vehicle Stops at Curb (hr:min) | Duration of Loading/ Unloading (min:sec) | Time Vehicle Departs Curb (hr:min) | Time Difference (to be calculated after) | MAX Times | Private Auto | Taxicab | Luxury Limousine | TNCs | Public Bus | Charter Bus | Economy Lot | Long-Term Parking (Green) | Employee (white & light blue) | Rental Car Shuttle | Contracted Shuttles | Transportation Vans | Hotel/Motel Shuttle | Delivery Trucks | Law Enforcement | UPSD Trucks | Other (please describe) | Passengers picked up | Passengers dropped off | Occupancy (Total Passengers) | Lane Usage Number | Notes | |
|-------------------------------------|--|------------------------------------|--|-----------|--------------|---------|------------------|------|------------|-------------|-------------|---------------------------|-------------------------------|--------------------|---------------------|---------------------|---------------------|-----------------|-----------------|-------------|-------------------------|----------------------|------------------------|------------------------------|-------------------|-------|---|
| 12:21 | 01:12 | 12:22 | 0:01 | 0:01:12 | 1 | | | | | | | | | | | | | | | | | at crosswalk | 1 | | 2 | 1 | |
| 12:22 | 11:15 | 12:33 | 0:11 | 0:11:15 | 1 | | | | | | | | | | | | | | | | | | 4 | | 5 | 1 | parked in front of arrivals |
| 12:25 | 03:45 | 12:28 | 0:03 | 0:03:45 | 1 | | | | | | | | | | | | | | | | | | 1 | | 2 | 1 | picked up between arrivals and departures |
| 12:28 | 06:21 | 12:34 | 0:06 | 0:06:21 | 1 | | | | | | | | | | | | | | | | | | 1 | | 3 | 1 | |
| 12:33 | 03:50 | 12:36 | 0:03 | 0:03:50 | 1 | | | | | | | | | | | | | | | | | | 1 | | 2 | 1 | |
| 12:35 | 07:10 | 12:42 | 0:07 | 0:07:10 | 1 | | | | | | | | | | | | | | | | | | 1 | | 2 | 1 | |
| 12:36 | 00:43 | 12:36 | 0:00 | 0:00:43 | 1 | | | | | | | | | | | | | | | | | | 2 | | 3 | 2 | a couple of people cross and wait in lane 4 left-turn only lane |
| 12:38 | 05:10 | 12:43 | 0:05 | 0:05:10 | 1 | | | | | | | | | | | | | | | | | | 1 | | 2 | 1 | |
| 12:42 | 01:45 | 12:43 | 0:01 | 0:01:45 | 1 | | | | | | | | | | | | | | | | | | 1 | | 2 | 1 | |
| 12:45 | 00:56 | 12:45 | 0:00 | 0:00:56 | 1 | | | | | | | | | | | | | | | | | | 2 | | 3 | 1 | |
| 12:49 | 00:18 | 12:49 | 0:00 | 0:00:18 | 1 | | | | | | | | | | | | | | | | | | 1 | | 2 | 1 | |
| 12:52 | 09:00 | 13:01 | 0:09 | 0:09:00 | 1 | | | | | | | | | | | | | | | | | | 1 | | 2 | 1 | |
| 12:52 | 00:55 | 12:52 | 0:00 | 0:00:55 | 1 | | | | | | | | | | | | | | | | | | 2 | | 3 | 1 | uber |
| 12:53 | 01:10 | 12:54 | 0:01 | 0:01:10 | 1 | | | | | | | | | | | | | | | | | | 1 | | 2 | 1 | |
| 12:56 | 03:00 | 12:59 | 0:03 | 0:03:00 | 1 | | | | | | | | | | | | | | | | | | 2 | | 3 | 1 | |
| 12:57 | 01:40 | 12:58 | 0:01 | 0:01:40 | 1 | | | | | | | | | | | | | | | | | | 2 | | 3 | 2 | |
| 12:59 | 00:57 | 12:59 | 0:00 | 0:00:57 | 1 | | | | | | | | | | | | | | | | | | 1 | | 2 | 1 | |
| 13:00 | 01:40 | 13:01 | 0:01 | 0:01:40 | 1 | | | | | | | | | | | | | | | | | | 1 | | 2 | 1 | blocked in by lane 2 & crosswalk traffic |
| 13:01 | 00:30 | 13:01 | 0:00 | 0:00:30 | 1 | | | | | | | | | | | | | | | | | | 1 | | 2 | 2 | |
| 13:02 | 02:10 | 13:04 | 0:02 | 0:02:10 | 1 | | | | | | | | | | | | | | | | | | 1 | | 2 | 1 | |
| 13:03 | 01:20 | 13:04 | 0:01 | 0:01:20 | 1 | | | | | | | | | | | | | | | | | | 2 | | 3 | 1 | |
| 13:04 | 00:30 | 13:04 | 0:00 | 0:00:30 | 1 | | | | | | | | | | | | | | | | | | 1 | | 2 | 1 | |
| 13:05 | 00:33 | 13:05 | 0:00 | 0:00:33 | 1 | | | | | | | | | | | | | | | | | | 2 | | 3 | 1 | |
| 13:07 | 02:30 | 13:09 | 0:02 | 0:02:30 | 1 | | | | | | | | | | | | | | | | | | 1 | | 2 | 1 | picked up between arrivals and departures |
| 13:07 | 00:31 | 13:07 | 0:00 | 0:00:31 | 1 | | | | | | | | | | | | | | | | | | 1 | | 2 | 1 | |
| 13:08 | 01:47 | 13:09 | 0:01 | 0:01:47 | 1 | | | | | | | | | | | | | | | | | | 1 | | 2 | 1 | waited across at lane 4 |
| 13:11 | 02:43 | 13:13 | 0:02 | 0:02:43 | 1 | | | | | | | | | | | | | | | | | | 2 | | 3 | 1 | |
| 13:11 | 02:52 | 13:13 | 0:02 | 0:02:52 | 1 | | | | | | | | | | | | | | | | | | 1 | | 3 | 2 | |
| 13:13 | 01:36 | 13:14 | 0:01 | 0:01:36 | 1 | | | | | | | | | | | | | | | | | | 1 | | 2 | 2 | |
| 13:17 | 05:52 | 13:22 | 0:05 | 0:05:52 | 1 | | | | | | | | | | | | | | | | | | 1 | | 2 | 2 | |
| 13:17 | 10:30 | 13:27 | 0:10 | 0:10:30 | 1 | | | | | | | | | | | | | | | | | | 2 | | 3 | 2 | went inside |
| 13:20 | 00:35 | 13:20 | 0:00 | 0:00:35 | 1 | | | | | | | | | | | | | | | | | | 2 | | 3 | 2 | people in lane 1 park and wait on the curb or inside |
| 13:20 | 00:25 | 13:20 | 0:00 | 0:00:25 | 1 | | | | | | | | | | | | | | | | | | 1 | | 2 | 2 | |
| 13:24 | 02:20 | 13:26 | 0:02 | 0:02:20 | 1 | | | | | | | | | | | | | | | | | | 1 | | 2 | 1 | |
| 13:25 | 00:20 | 13:25 | 0:00 | 0:00:20 | 1 | | | | | | | | | | | | | | | | | | 1 | | 2 | 2 | |
| 13:28 | 00:20 | 13:28 | 0:00 | 0:00:20 | 1 | | | | | | | | | | | | | | | | | | 1 | | 2 | 2 | |
| 13:29 | 01:00 | 13:30 | 0:01 | 0:01:00 | 1 | | | | | | | | | | | | | | | | | | 1 | | 2 | 1 | went inside |
| 13:29 | 00:45 | 13:29 | 0:00 | 0:00:45 | 1 | | | | | | | | | | | | | | | | | | 1 | | 2 | 2 | |

| | | | | | | | | | | | | | | | | | | | | | | |
|-------|-------|-------|------|---------|---|--|--|---|--|--|--|--|--|--|--|--|--|--|---|--|---|---|
| 13:31 | 01:30 | 13:32 | 0:01 | 0:01:30 | 1 | | | | | | | | | | | | | | 4 | | 2 | 2 |
| 13:31 | 04:00 | 13:35 | 0:04 | 0:04:00 | 1 | | | | | | | | | | | | | | 1 | | 2 | 1 |
| 13:33 | 00:30 | 13:33 | 0:00 | 0:00:30 | 1 | | | | | | | | | | | | | | 1 | | 2 | 2 |
| 13:33 | 01:00 | 13:34 | 0:01 | 0:01:00 | 1 | | | | | | | | | | | | | | 2 | | 3 | 2 |
| 13:40 | 00:30 | 13:40 | 0:00 | 0:00:30 | 1 | | | | | | | | | | | | | | 1 | | 2 | 2 |
| 13:44 | 00:45 | 13:44 | 0:00 | 0:00:45 | 1 | | | | | | | | | | | | | | 3 | | 4 | 1 |
| 13:47 | 01:23 | 13:48 | 0:01 | 0:01:23 | 1 | | | | | | | | | | | | | | 1 | | 2 | 1 |
| 13:47 | 03:30 | 13:50 | 0:03 | 0:03:30 | 1 | | | | | | | | | | | | | | 2 | | 3 | 1 |
| 13:50 | 01:23 | 13:51 | 0:01 | 0:01:23 | 1 | | | | | | | | | | | | | | 1 | | 2 | 1 |
| 13:52 | 00:39 | 13:52 | 0:00 | 0:00:39 | | | | 1 | | | | | | | | | | | 2 | | 3 | 2 |

PIE Curbfront Vehicle Dwell Time and Vehicle Occupancy Survey

| | |
|-------------|--------------------|
| Date : | 12/14/2017 |
| Terminal: | T1 |
| Surveyor: | Joel |
| Location: | GTA |
| Time | 12:00 - 2:00 PM |
| Data Links: | AM |
| Data Links: | |

Time vehicle arrives at curb (for example - 5:15 A.M.)
 Start stopwatch **once passenger loading begins**. Stop stopwatch once vehicle is clearly ready to depart (1 minutes and 40 seconds)
 Time vehicle departs curb and enters into the flow of traffic (crosses line) (for example - 5:18 A.M.)
 To be calculated after data collection. This is the difference between the time the vehicle stops and the time the vehicle departs. (for example - 3minutes)
Vehicle: Check the box of the vehicle type being observed. Describe in Other if not found in provided check boxes.
Picking up: Number of Passengers entering the vehicle
Dropping off: Number of Passengers exiting the vehicle
Total Passengers: Total number of Passengers in the vehicle after vehicle departs curb (i.e. occupancy)
Lane Usage: Indicate the number of the lane used by the vehicle. Lane number 1 being the curbside lane (count out from the lane closest to the curbfront).

| | | | | | | | | | | | | | | | | | | | | |
|------------------------------|----|-----|----|----|----|------|----|----|----|-------|----|----|----|----|----|----|----|----|----|----|
| Dropoff Veh Volume | 0 | 4 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 7 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dropoff Total Occ | 0 | 18 | 0 | 0 | 0 | 33 | 0 | 0 | 0 | 75 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total People Dropped Off | 0 | 7 | 0 | 0 | 0 | 14 | 0 | 0 | 0 | 29 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dropoff Avg Occ | -- | 4.5 | -- | -- | -- | 16.5 | -- | -- | -- | 10.71 | -- | -- | 6 | -- | -- | -- | -- | -- | -- | -- |
| Pickup Veh Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pickup Total Occ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total People Picked Up | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pickup Avg Occ | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| # Vehicles No Dropoff/Pickup | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Dropoff Dwell
 Pickup Dwell

| Time Vehicle Stops at Curb (hr:min) | Duration of Loading/ Unloading (min:sec) | Time Vehicle Departs Curb (hr:min) | Time Difference (to be calculated after) | MAX Times | Private Auto | Taxicab | Luxury Limousine | TNCs | Public Bus | Charter Bus | Economy Lot | Long-Term Parking (Green) | Employee (white & light blue) | Rental Car Shuttle | Contracted Shuttles | Transportation Vans | Hotel/Motel Shuttle | Delivery Trucks | Law Enforcement | UPSD Trucks | Other (please describe) | Passengers picked up | Passengers dropped off | Occupancy (Total Passengers) | Lane Usage Number | Notes |
|-------------------------------------|--|------------------------------------|--|-----------|--------------|---------|------------------|------|------------|-------------|-------------|---------------------------|-------------------------------|--------------------|---------------------|---------------------|---------------------|-----------------|-----------------|-------------|-------------------------|----------------------|------------------------|------------------------------|-------------------|----------------|
| 12:34 | 00:24 | 12:34 | 0:00 | 0:00:24 | | 1 | | | | | | | | 1 | | | | | | | | | 2 | 3 | 1 | |
| 12:37 | 01:56 | 12:38 | 0:01 | 0:01:56 | | | | | | | | | | 1 | | | | | | | | | 1 | 8 | 1 | ACE |
| 12:48 | 10:42 | 12:58 | 0:10 | 0:10:42 | | | | | | | | | | 1 | | | | | | | | | 8 | 12 | 1 | Jack Municipal |
| 12:48 | 06:10 | 12:54 | 0:06 | 0:06:10 | | | | | | 1 | | | | | | | | | | | | | 10 | 14 | 1 | Pie Shuttle |
| 13:00 | 04:00 | 13:04 | 0:04 | 0:04:00 | | | | | | | | | | 1 | | | | | | | | | 8 | 9 | 1 | ACE |
| 13:01 | 00:47 | 13:01 | 0:00 | 0:00:47 | | 1 | | | | | | | | | | | | | | | | | 1 | 2 | 1 | |
| 13:04 | 00:55 | 13:04 | 0:00 | 0:00:55 | | | | | | | | | | 1 | | | | | | | | | 1 | 2 | 1 | Thrifty |
| 13:10 | 02:50 | 13:12 | 0:02 | 0:02:50 | | 1 | | | | | | | | | | | | | | | | | 2 | 3 | 1 | |
| 13:18 | 01:34 | 13:19 | 0:01 | 0:01:34 | | | | | | | | | | 1 | | | | | | | | | 3 | 4 | 1 | ACE |
| 13:21 | 01:37 | 13:22 | 0:01 | 0:01:37 | | | | | | | | | | 1 | | | | | | | | | 2 | 4 | 1 | ACE |
| 13:28 | 00:58 | 13:28 | 0:00 | 0:00:58 | | | | | | | | | | | | | 1 | | | | | | 1 | 2 | 1 | Holiday Inn |
| 13:34 | 01:02 | 13:35 | 0:01 | 0:01:02 | | 1 | | | | | | | | | | | | | | | | | 2 | 3 | 1 | |
| 13:37 | 01:09 | 13:38 | 0:01 | 0:01:09 | | | | | | | | | | 1 | | | | | | | | | 6 | 7 | 1 | ACE |
| 13:46 | 01:15 | 13:47 | 0:01 | 0:01:15 | | | | | | 1 | | | | | | | | | | | | | 4 | 5 | 1 | Pie Shuttle |
| 13:48 | 01:16 | 13:49 | 0:01 | 0:01:16 | | | | | | | | | | | | | 1 | | | | | | 4 | 5 | 1 | |

St. Pete Clearwater International Airport
Vehicle Classification

| | Curbside: Primary Curbfront | | | | | | | | | | | | | | | | AM | | PM | | Total | |
|------------------------------|-----------------------------|------|------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|------|----------|-------|----------|-------|-------|-------|
| | AM | | | | | | | | PM | | | | | | | | Total AM | % tot | Total PM | % tot | Total | % tot |
| | 5:00 | 5:15 | 5:30 | 5:45 | 6:00 | 6:15 | 6:30 | 6:45 | 12:00 | 12:15 | 12:30 | 12:45 | 1:00 | 1:15 | 1:30 | 1:45 | | | | | | |
| Private Auto | 58 | 84 | 71 | 75 | 53 | 52 | 49 | 30 | 60 | 76 | 81 | 80 | 57 | 72 | 111 | 84 | 1093 | 95% | 621 | 95% | 1714 | 95% |
| Taxicab | 1 | 4 | 6 | 2 | 3 | 1 | 1 | 1 | 2 | 1 | 1 | | 1 | | | | 23 | 2% | 5 | 1% | 28 | 2% |
| Luxury Limousine | | | | | | | | | | | | | | | | | 0 | 0% | 0 | 0% | 0 | 0% |
| TNCs | 4 | 2 | 6 | 5 | 5 | 1 | 3 | | | | 1 | 5 | | 2 | 2 | 3 | 26 | 2% | 13 | 2% | 39 | 2% |
| Public/City Bus | | | | | | | | | | | | | | | | | 0 | 0% | 0 | 0% | 0 | 0% |
| Charter Bus | | | | | | | | | | | | | | | | | 0 | 0% | 0 | 0% | 0 | 0% |
| Economy Lot Shuttle | | | | | | | | | | | | | | | | | 0 | 0% | 0 | 0% | 0 | 0% |
| Employee Shuttle | | | | | | | | | | | | | | | | | 0 | 0% | 0 | 0% | 0 | 0% |
| Rental Car Shuttle | | | | | | | | | | | | | | 1 | | | 0 | 0% | 1 | 0% | 1 | 0% |
| SuperShuttle | 1 | | | | | 1 | | | | | | | | | | | 2 | 0% | 0 | 0% | 2 | 0% |
| Private Transportation Vans | | | | | | | | | | | | | | | | | 0 | 0% | 0 | 0% | 0 | 0% |
| Hotel/Motel Courtesy Shuttle | | 1 | | | 1 | 1 | | | | | 1 | | 1 | 1 | | | 3 | 0% | 3 | 0% | 6 | 0% |
| Delivery Trucks | | | | | | | 1 | | | | | | | | | | 1 | 0% | 0 | 0% | 1 | 0% |
| Law Enforcement | | | | | | | | 1 | | | | | | | | | 1 | 0% | 0 | 0% | 1 | 0% |
| Airport/County Vehicles | 1 | | 1 | 1 | | 1 | | | 3 | 1 | | 2 | | | | 1 | 4 | 0% | 7 | 1% | 11 | 1% |
| Other | | | 1 | | 1 | | | | | | 1 | | | | | | 2 | 0% | 1 | 0% | 3 | 0% |
| | | | | | | | | | | | | | | | | | 1155 | 100% | 651 | 100% | 1806 | 100% |

| | Curbside: Secondary Curbfront | | | | | | | | | | | | | | | | AM | | PM | | Total | |
|------------------------------|-------------------------------|------|------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|------|----------|-------|----------|-------|-------|-------|
| | AM | | | | | | | | PM | | | | | | | | Total AM | % tot | Total PM | % tot | Total | % tot |
| | 5:00 | 5:15 | 5:30 | 5:45 | 6:00 | 6:15 | 6:30 | 6:45 | 12:00 | 12:15 | 12:30 | 12:45 | 1:00 | 1:15 | 1:30 | 1:45 | | | | | | |
| Private Auto | 17 | 36 | 44 | 32 | 24 | 10 | 16 | 5 | 29 | 23 | 21 | 27 | 28 | 22 | 25 | 35 | 394 | 94% | 210 | 85% | 604 | 91% |
| Taxicab | | | | | | | | | | | | | | | | | 0 | 0% | 0 | 0% | 0 | 0% |
| Luxury Limousine | | | | | | | | | | | | | | | | | 0 | 0% | 0 | 0% | 0 | 0% |
| TNCs | | | | | | | | | | | | | | | | | 0 | 0% | 0 | 0% | 0 | 0% |
| Public/City Bus | | | | | | | | | | | | | | | | | 0 | 0% | 0 | 0% | 0 | 0% |
| Charter Bus | | | | | | | | | | | | | | | | | 0 | 0% | 0 | 0% | 0 | 0% |
| Economy Lot Shuttle | 4 | 2 | 3 | 2 | 2 | 2 | 3 | 2 | | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 20 | 5% | 18 | 7% | 38 | 6% |
| Employee Shuttle | | | | | | | | | | | | | | | | | 0 | 0% | 0 | 0% | 0 | 0% |
| Rental Car Shuttle | | | | | | | | | | | | | | | | | 0 | 0% | 0 | 0% | 0 | 0% |
| SuperShuttle | | | | | | | | | | | | | | | | | 0 | 0% | 0 | 0% | 0 | 0% |
| Private Transportation Vans | | | | | 1 | | | | 1 | | | | | | | | 1 | 0% | 1 | 0% | 2 | 0% |
| Hotel/Motel Courtesy Shuttle | | | | | | | | | | | | | | | | | 0 | 0% | 0 | 0% | 0 | 0% |
| Delivery Trucks | | | 1 | | 1 | | | | 1 | 1 | 1 | | | 1 | | | 2 | 0% | 4 | 2% | 6 | 1% |
| Law Enforcement | | | | | | | | | | | | | | 1 | | | 0 | 0% | 1 | 0% | 1 | 0% |
| Airport/County Vehicles | | 1 | 1 | | 1 | | | 1 | 1 | 1 | 1 | | 4 | 3 | 2 | | 4 | 1% | 12 | 5% | 16 | 2% |
| Other | | | | | | | | | | | | | | | | | 0 | 0% | 0 | 0% | 0 | 0% |
| | | | | | | | | | | | | | | | | | 421 | 100% | 246 | 100% | 667 | 100% |

| | GTA | | | | | | | | | | | | | |
|------------------------------|------|------|------|------|-------|-------|------|------|----------|-------|----------|-------|-------|-------|
| | AM | | | | PM | | | | AM | | PM | | Total | |
| | 5:00 | 5:30 | 6:00 | 6:30 | 12:00 | 12:30 | 1:00 | 1:30 | Total AM | % tot | Total PM | % tot | Total | % tot |
| Private Auto | 1 | 4 | 4 | 5 | 4 | 5 | 2 | 3 | 14 | 78% | 14 | 29% | 28 | 42% |
| Taxicab | 1 | | 1 | | 1 | 4 | 3 | 6 | 2 | 11% | 14 | 29% | 16 | 24% |
| Luxury Limousine | | | | | | | | | 0 | 0% | 0 | 0% | 0 | 0% |
| TNCs | | | | | | | | | 0 | 0% | 0 | 0% | 0 | 0% |
| Public/City Bus | | | | | | | | | 0 | 0% | 0 | 0% | 0 | 0% |
| Charter Bus | | | | | | | | | 0 | 0% | 0 | 0% | 0 | 0% |
| Economy Lot Shuttle | | | | | | | | | 0 | 0% | 0 | 0% | 0 | 0% |
| Employee Shuttle | | | | | | | | | 0 | 0% | 0 | 0% | 0 | 0% |
| Rental Car Shuttle | | | 1 | | 3 | 3 | 2 | 4 | 1 | 6% | 12 | 25% | 13 | 20% |
| SuperShuttle | | | | | | | | | 0 | 0% | 0 | 0% | 0 | 0% |
| Private Transportation Vans | 1 | | | | 1 | 2 | 1 | 1 | 1 | 6% | 5 | 10% | 6 | 9% |
| Hotel/Motel Courtesy Shuttle | | | | | | | 1 | 1 | 0 | 0% | 2 | 4% | 2 | 3% |
| Delivery Trucks | | | | | | | | | 0 | 0% | 0 | 0% | 0 | 0% |
| Law Enforcement | | | | | | | | | 0 | 0% | 0 | 0% | 0 | 0% |
| Airport/County Vehicles | | | | | | | | | 0 | 0% | 0 | 0% | 0 | 0% |
| Other | | | | | | 1 | | | 0 | 0% | 1 | 2% | 1 | 2% |
| | | | | | | | | | 18 | 100% | 48 | 100% | 66 | 100% |

APPENDIX E

Terminal Access Roads
Supplemental Data

APPENDIX E

1.1 ACRP Volume/Capacity Methodology

1.1.1 Overview

Roadway *capacity* is defined as the maximum number of vehicles that can pass through a roadway section during a specified period of time under prevailing roadway, traffic, and control conditions without causing unreasonable delay. Factors such as the vehicle types, roadway configurations, and pedestrian/vehicle interaction all have an impact in the ability of a given roadway to carry vehicles. Roadway *volume* is the number of vehicles that actually pass through a roadway section during a period of time given no operational constraints or congestion. Level of service (LOS) is calculated by comparing the volume of vehicles using a roadway against the defined capacity of the roadway or roadway segment.

The Federal Highway Administration's (FHWA) *Highway Capacity Manual (HCM)* is the industry accepted guidance used to identify capacities as well as the LOS for traditional roadway systems. LOS is a qualitative measure that describes operational conditions and motorists' perceptions within a traffic stream. Six LOS ratings are defined in the HCM, LOS A through LOS F, with LOS A representing free-flowing traffic that causes virtually no affect to individual vehicle operators and LOS F representing a forced traffic flow exceeding the roadway capacity.

However, the capacity of the airport roadway system is very different than a traditional roadway system for a number of reasons including, but not limited to, slower speeds, double and triple parking, jaywalking, higher percent of large commercial vehicles, and familiarity of the drivers with the roadway system. The Federal Aviation Administration (FAA) Advisory Circulars and Planning Guidelines, and more recently the Transportation Research Board's (TRB) Airport Cooperative Research Program (ACRP) publications, have developed methodologies to account for these factors and estimate airport roadway capacity. To properly assess current and forecasted volume, guidance from ACRP's *Report 40, Airport Curbside and Terminal Area Roadway Operations*, was applied to determine projected LOS. Per ACRP guidance, LOS D is generally considered the minimum acceptable LOS for existing roadway facilities while LOS C is the desired target for new facilities.

LOS of airport roadways is a measure used in defining the operational characteristics of a terminal area roadway system and/or curbside facility. The ACRP has developed and published methodologies to estimate airport roadway capacity that account for the different nature of airport roadways. **Figure E-1** and **Figure E-2** illustrate conditions for each LOS as outlined in ACRP's *Report 25* and *Report 40*, respectively. Terminal area roadway and curbside LOS assessments are documented later in this section.

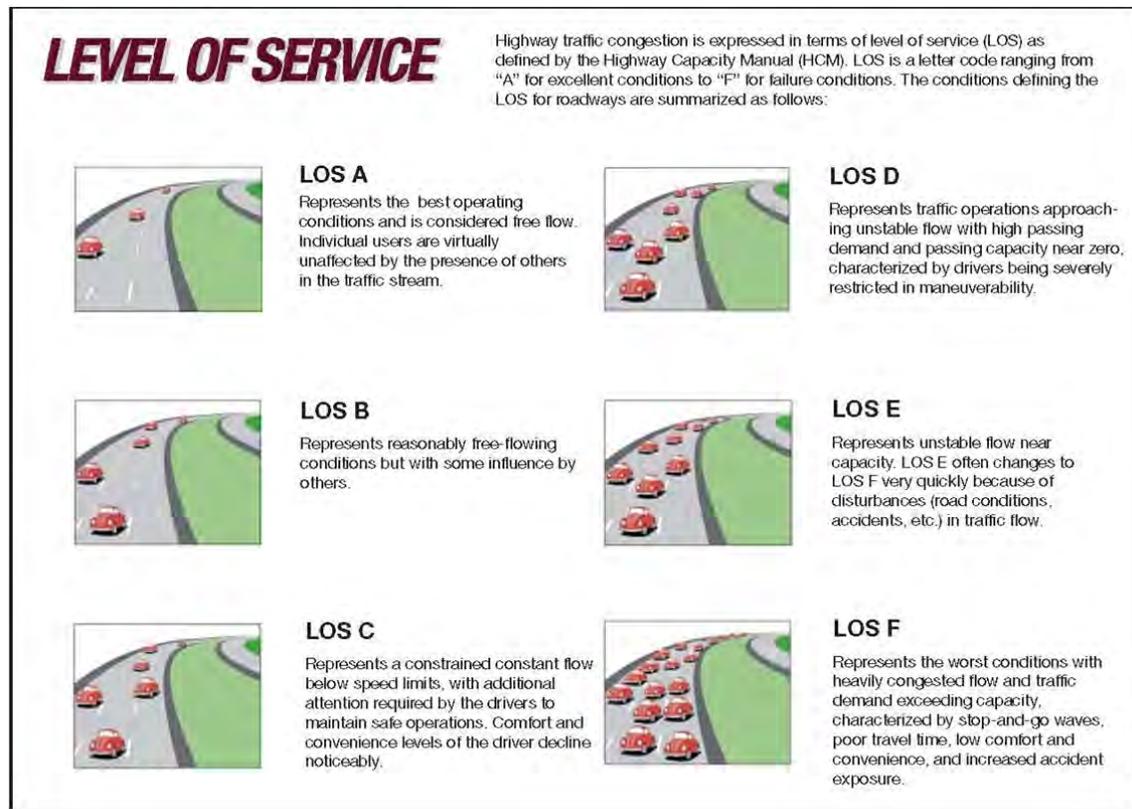


Figure E-1: Level of Service for Airport Terminal Area Roadways

SOURCE: ACRP Report 25, Airport Passenger Terminal Planning and Design, Figure VII.1-LOS for Roadways, Courtesy of McCormick Taylor, 2010.

1.1.2 Terminal Area Roadways

Terminal area roadways include the primary roadways that connect the Airport's terminal curbside facilities with the external roadway network (Roosevelt Boulevard). The vehicular volumes on these roadways are primarily driven by airport activity, including passenger vehicles, commercial vehicles, airport employees, visitors, and recirculating traffic.

To calculate LOS, peak hour vehicular volume on a per-segment basis is compared to the available roadway capacity. Per the methodology and capacity standards outlined in the ACRP's *Report 40, Airport Curbside and Terminal Area Roadway Operations*, capacity of uninterrupted-flow terminal access/egress roadways is primarily determined by the number of through lanes and the average operating free-flow speed. The maximum flow rates (capacities) provided by ACRP assume a typical mix of airport vehicle classifications, and that a large portion of the drivers are infrequent users (thus are unfamiliar with the airport roadways).

Capacity, in vehicles per hour per lane (vphpl), for uninterrupted-flow roadways is based on the free-flow speed in miles per hour (mph), per ACRP guidelines and as summarized in **Table E-1**.

**LOS A**

Drivers experience no interference from other vehicles or pedestrians. Motorists arriving at the airport terminal can stop adjacent to the curb at preferred locations. Demand is equal to or less than 0.50 of the double-parking capacity of the curbside. Capacity of adjacent through lanes is unaffected.

**LOS B**

Relatively free-flow conditions, although double-parking can be observed at some curbside locations (i.e., baggage check-in, major entrance/exit points). Demand is between 0.5 and 0.55 of the double-parking capacity of the curbside. Capacity of adjacent through lanes is virtually unaffected.

**LOS C**

Double-parking near doors is common and some intermittent triple-parking may occur. This level of service is appropriate for peak period design conditions at major airports. Demand is between 0.55 and 0.65 of the double-parking capacity of the curbside. Capacity of adjacent through lanes is reduced by approximately 5% due to the increased frequency of double-parking.

**LOS D**

Triple-parking occurs more frequently and vehicle maneuverability is somewhat restricted. Intermittent vehicle queues may form both in the through lanes and at the entrance to the curbside area. Demand is between 0.65 and 0.85 of the double-parking capacity of the curbside. Capacity of adjacent through lanes is reduced by over 20% due to the increased frequency of double- and triple-parking.

**LOS E/F**

LOS E—Motorists experience delays and queues along the length of the curbside. Both congestion and double- or triple-parking are evident throughout the curbside area. Momentary breakdowns in operation occur as traffic in the through lanes is increasingly delayed by vehicle maneuvering in and out of the parking lanes. Demand is between 0.85 and 1.0 of the double-parking capacity of the curbside. Capacity of adjacent through lanes is reduced by over 35% due to the increased frequency of double- and triple-parking.

LOS F—Motorists experience significant delays at the curbside entrance and along the length of the curbside. Parked vehicles are unable to leave the curbside due to stopped vehicles in adjacent lanes. Demand exceeds 1.0 of the double-parking capacity of the curbside. The flow of vehicles in all lanes frequently comes to a halt.

Figure E-2: Level of Service for Terminal Curbsides

SOURCE: ACRP Report 25, Airport Passenger Terminal Planning and Design, 2010.

TABLE E-1 TERMINAL ACCESS/EGRESS ROAD CAPACITY BY FREE-FLOW SPEED

| Free-Flow Speed | Capacity (vphpl) |
|-----------------|------------------|
| 25 mph | 1,010 |
| 30 mph | 1,170 |
| 35 mph | 1,290 |
| 40 mph | 1,410 |
| 45 mph | 1,530 |
| 50 mph | 1,620 |

SOURCE: ACRP Report 40.

LOS for uninterrupted-flow roadways is based on the volume-to-capacity (V/C) ratio, which is obtained by dividing the volume on a roadway by that roadway's capacity. These calculated V/C ratios determine the roadway segment's LOS for a given analysis hour, as defined by ACRP. The LOS thresholds, which are summarized in **Table E-2**, vary based on free-flow speed along a roadway or roadway segment.

TABLE E-2 TERMINAL AREA ROADWAY LOS BY FREE-FLOW SPEED AND V/C RATIO

| LOS | Free-Flow Speed | | | | | |
|-----|-----------------|-------------|-------------|-------------|-------------|-------------|
| | 25 mph | 30 mph | 35 mph | 40 mph | 45 mph | 50 mph |
| A | < 0.25 | < 0.26 | < 0.26 | < 0.26 | < 0.26 | < 0.28 |
| B | 0.25 – 0.40 | 0.26 – 0.41 | 0.26 – 0.42 | 0.26 – 0.42 | 0.26 – 0.43 | 0.28 – 0.45 |
| C | 0.40 – 0.59 | 0.41 – 0.60 | 0.42 – 0.61 | 0.42 – 0.61 | 0.43 – 0.62 | 0.45 – 0.65 |
| D | 0.59 – 0.79 | 0.60 – 0.79 | 0.61 – 0.80 | 0.61 – 0.82 | 0.62 – 0.82 | 0.65 – 0.86 |
| E | 0.79 – 1.0 | 0.79 – 1.0 | 0.80 – 1.0 | 0.82 – 1.0 | 0.82 – 1.0 | 0.86 – 1.0 |
| F | > 1.00 | > 1.00 | > 1.00 | > 1.00 | > 1.00 | > 1.00 |

SOURCE: ACRP Report 40.

The assumed speed limits for the terminal area roadways at St. Pete-Clearwater International Airport (PIE) is 25 mph. Based on this speed, the capacity for the terminal area roadways was set at 1,250 passenger cars per hour per lane (pcphpl), or 1,010 vphpl. The volume-to-capacity (V/C) ratios and maximum flows in vphpl associated with each LOS for terminal area roadways with a speed limit of 25 mph are presented in **Table E-3**.

TABLE E-3 TERMINAL AREA ROADWAYS LEVEL OF SERVICE RANGES (25 MPH SPEED LIMIT)

| LOS | Maximum V/C Ratio | Maximum Flow (vphpl) |
|-----|-------------------|----------------------|
| A | 0.25 | 250 |
| B | 0.40 | 400 |
| C | 0.59 | 600 |
| D | 0.79 | 800 |
| E | 1.00 | 1,010 |

SOURCE: ACRP Report 40.

1.1.3 Terminal Curbfronts

Terminal curbfrights consist of the roadways in front of the terminal buildings that provide marked facilities for passenger drop-off/pick-up. The curbing areas and roadways for private and commercial vehicles makes up the curbside facility for a terminal. The terminal curbfright LOS consists of two components:

Curb LOS: LOS of the designated curbing lanes where vehicles may stop to drop-off and pick-up; determined by curbing capacity and curbing (drop-off/pick-up) volume.

Road LOS: LOS of the through lanes used by vehicles traveling past a section of curbfright lanes; determined by geometry, lane assignments, curbing utilization, and volume of vehicles using the roadway to curbing and/or bypass.

The ACRP methodology involves reporting the worst between the Curb LOS and the Road LOS as the resulting LOS of the terminal curbfright.

Curb LOS

The Curb LOS is based on several factors, including available curbfright length, vehicle size (how much curbing space the vehicle occupies), and average vehicle dwell time (how long each vehicle remains at the curbing front). The curbfright length is measured based on how the curbfright zones are designated. Dwell times are typically different for vehicles curbing in the second lane compared to the first lane, which was accounted for in the capacity calculations. Transit vehicles were provided transit-specific curbing parameters, independent of private auto curbing parameters. Transit specific dwell times, vehicle size, and lane choice are generally different for buses and shuttles compared to private autos and were captured separately.

To calculate the LOS, volume is compared to the available capacity. Consistent with ACRP methodology, the curbing analysis calculates a curbing utilization ratio (CUR) for a given curbing front, which is a measure of average saturation of one curbing lane for the analysis period (peak hour). For example, when double and triple parking are allowed, a CUR of 1.0 means one curbing lane is fully utilized, or two curbing lanes are each half utilized, and corresponds to LOS B. When double

and triple parking are allowed, a CUR of 2.0 means two curbing lanes are fully utilized and corresponds to LOS F. **Table E-4** provides the LOS for each CUR range.

TABLE E-4 CURBFRONT CURB LOS BY CURB UTILIZATION RATIO

| LOS | CUR | |
|-----|---------------------------|-------------------------------|
| | Double Parking Prohibited | Double/Triple Parking Allowed |
| A | <0.70 | <0.90 |
| B | 0.70-0.85 | 0.90 – 1.10 |
| C | 0.85-1.00 | 1.10 – 1.30 |
| D | 1.00-1.20 | 1.30 – 1.70 |
| E | 1.20-1.35 | 1.70 – 2.00 |
| F | >1.35 | >2.00 |

SOURCE: ACRP Report 40.

Road LOS

Road LOS is calculated for terminal area roadways serving vehicles traveling past a section of curbside lanes. The road capacity is based on several factors, including total number of lanes, number of lanes reserved for curbing, and level of curbing activity. The curbing activity (curb utilization) impacts road capacity due to “friction” generated by vehicles slowing to enter the adjacent curbing lanes and by vehicles merging with the traffic stream after curbing. In addition to the curbing activity, pedestrian crossings also impact the travel speeds of the curbside through lanes, thus adding delay and reducing capacity.

The road capacity for total curbside through volume depends on lane configuration and the CUR, which results in a dynamic capacity, as illustrated in **Figure E-3**. As portrayed in the figure, when the curbside experiences more volume (which increases the resulting CUR), there is a corresponding decrease in the available roadway capacity.

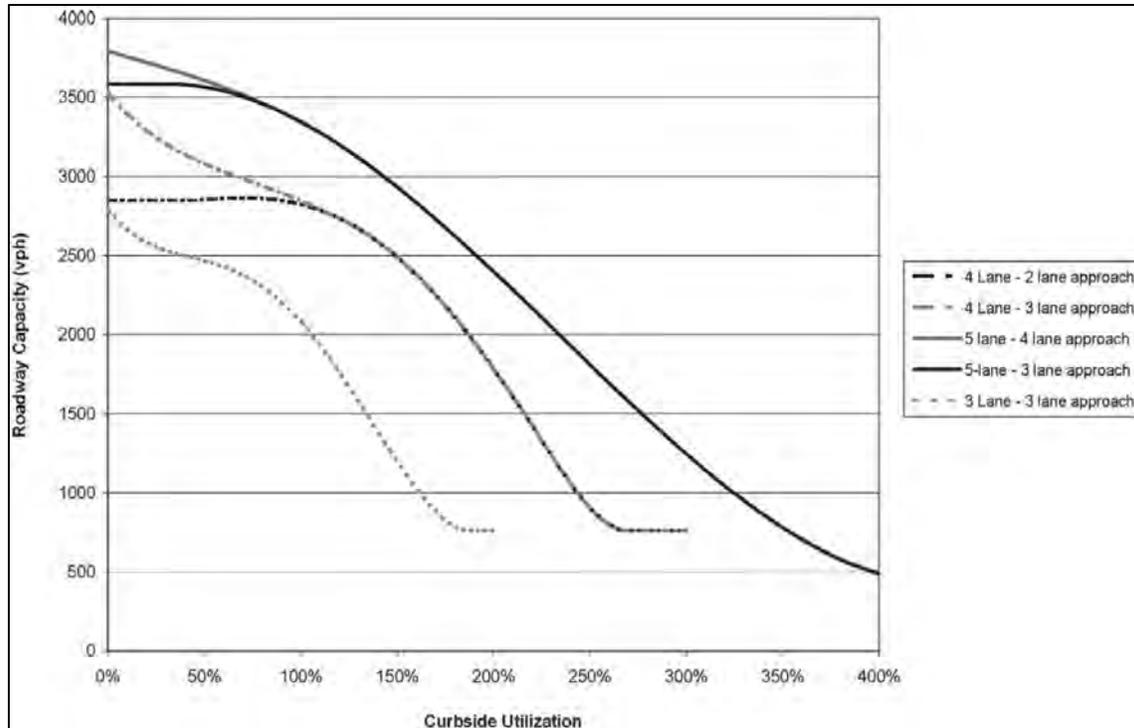


Figure E-3: Curb Roadway Capacity by Lane Configuration and CUR

SOURCE: ACRP Report 25, Airport Passenger Terminal Planning and Design, 2010.

To calculate LOS, vehicular volume is compared to available capacity. **Table E-5** provides the Road LOS for each V/C range.

TABLE E-5 CURBFRONT ROAD LOS BY VOLUME/CAPACITY RATIO

| LOS | V/C Ratio |
|-----|-------------|
| A | <0.25 |
| B | 0.25 – 0.40 |
| C | 0.40 – 0.60 |
| D | 0.60 – 0.80 |
| E | 0.80 – 1.00 |
| F | >1.00 |

SOURCE: ACRP Report 40.

As defined by ACRP 40, LOS C is a desirable planning target for new facilities, whereas LOS D is considered acceptable for existing facilities.

1.2 Terminal Area Roadway Conditions

1.2.1 Existing Conditions

The seven-day automatic traffic counters were used to count the vehicles on the roadways and determine the peak hours for the morning (AM), midday, and afternoon (PM). The count locations are depicted in **Figure E-4**. The morning peak hour was determined to be from 5:00 a.m. to 6:00 a.m. Based on existing flight schedules, it was determined that all passenger activity occurring during the morning peak hour was related to departures (100 percent enplanements, 0 percent deplanements). The midday peak hour was determined to be from 1:00 p.m. to 2:00 p.m. Based on existing flight schedules, it was estimated that approximately 70 percent of the passenger activity was related to departures and 30 percent of the passenger activity was related to arrivals (70 percent enplanements, 30 percent deplanements). The afternoon peak hour was determined to be from 8:00 p.m. to 9:00 p.m. Based on existing flight schedules, it was estimated that all passenger activity was related to arrivals (0 percent enplanements, 100 percent deplanements). Existing flight schedules were provided by airport staff. A sample flight schedule is shown in **Figure E-5**.

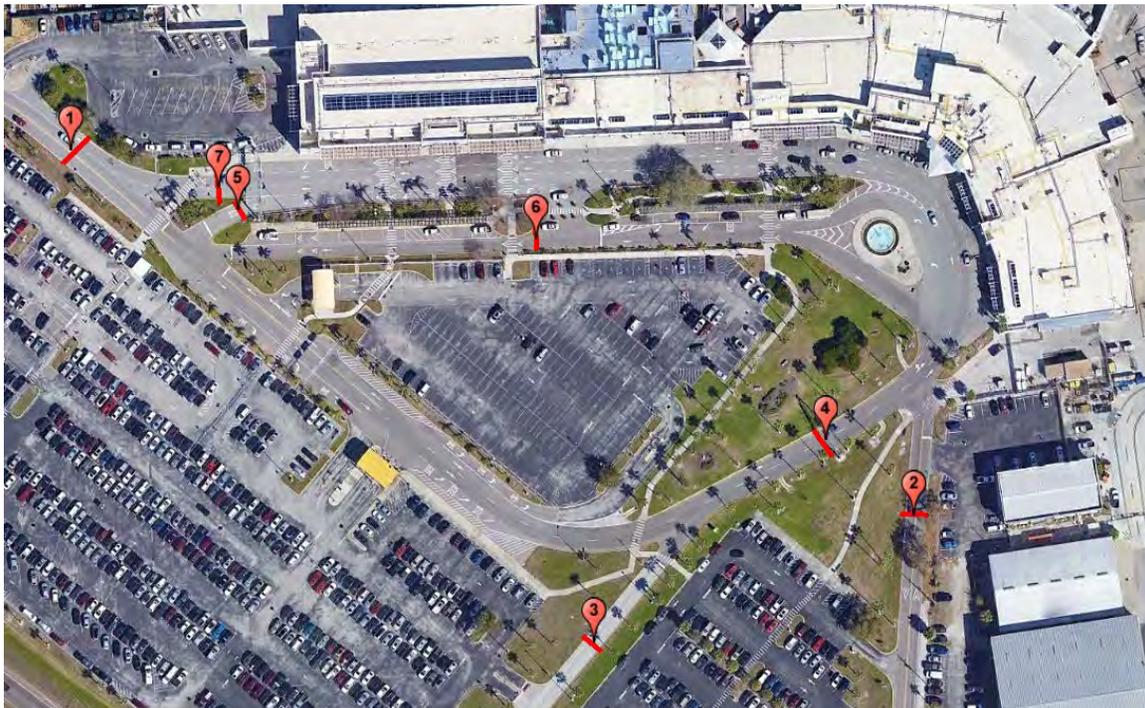


Figure E-4: Traffic Count Locations

SOURCE: Google Earth; Kimley-Horn and Associates, Inc., 2018

The traffic counts collected on Thursday, December 14, 2017 and Thursday, December 21, 2017 were utilized in the volume/capacity analysis. The traffic counts for the peak hours on these days are presented in **Table E-6**. These traffic counts were chosen because they best represent the volume on an average day in December.

| PIE Weekly Flight Schedule | | | | | | | | | |
|-----------------------------|----------|------|------|-----------|------|------|------|---------|--|
| EFFECTIVE 10/24/2017 | | | | | | | | | |
| AIRLINE | Arrivals | | | Departure | | | PARK | REMARKS | |
| | FLT | CITY | ETA | FLT | CITY | ETD | | | |
| Thursday, November 02, 2017 | | | | | | | | | |
| ALLEGiant | | | RON | 832 | TYS | 0635 | | A-SIDE | |
| ALLEGiant | | | RON | 818 | JQF | 0705 | | A-SIDE | |
| ALLEGiant | | | RON | 888 | ABE | 0725 | | B-SIDE | |
| ALLEGiant | | | RON | 908 | FNT | 0735 | | A-SIDE | |
| ALLEGiant | | | RON | 860 | LEX | 0745 | | B-SIDE | |
| ALLEGiant | | | RON | 846 | PIA | 0755 | | A-SIDE | |
| ALLEGiant | | | RON | 854 | SBN | 0805 | | B-SIDE | |
| ALLEGiant | | | RON | 844 | SWF | 0815 | | A-SIDE | |
| ALLEGiant | | | RON | 842 | SYR | 0825 | | B-SIDE | |
| ALLEGiant | | | RON | 836 | IND | 0845 | | A-SIDE | |
| ALLEGiant | | | RON | 814 | RDU | 0855 | | A-SIDE | |
| ALLEGiant | 1202 | AVL | 0940 | 1246 | ROA | 1020 | | A-SIDE | |
| ALLEGiant | 861 | LEX | 1225 | 904 | MCI | 1315 | | A-SIDE | |
| ALLEGiant | 889 | ABE | 1320 | 862 | CID | 1410 | | B-SIDE | |
| ALLEGiant | 909 | FNT | 1345 | 894 | IAG | 1435 | | A-SIDE | |
| ALLEGiant | 855 | SBN | 1345 | 876 | RFD | 1445 | | A-SIDE | |
| ALLEGiant | 847 | PIA | 1330 | 806 | SGF | 1455 | | B-SIDE | |
| ALLEGiant | 1247 | ROA | 1455 | 1203 | AVL | 1540 | | A-SIDE | |
| ALLEGiant | 843 | SYR | 1455 | 892 | YNG | 1550 | | A-SIDE | |
| ALLEGiant | 845 | SWF | 1445 | 800 | TOL | 1600 | | B-SIDE | |
| ALLEGiant | 1302 | CVG | 1600 | 1303 | CVG | 1640 | | A-SIDE | |
| ALLEGiant | 819 | JQF | 1630 | 826 | LCK | 1755 | | A-SIDE | |
| ALLEGiant | 833 | TYS | 1620 | 810 | MEM | 1820 | | A-SIDE | |
| ALLEGiant | 815 | RDU | 1905 | RON | | | | | |
| ALLEGiant | 905 | MCI | 1920 | RON | | | | | |
| ALLEGiant | 837 | IND | 1930 | RON | | | | | |
| ALLEGiant | 863 | CID | 2020 | RON | | | | | |
| ALLEGiant | 807 | SGF | 2020 | RON | | | | | |
| ALLEGiant | 895 | IAG | 2050 | RON | | | | | |
| ALLEGiant | 877 | RFD | 2050 | RON | | | | | |
| ALLEGiant | 893 | YNG | 2120 | RON | | | | | |
| ALLEGiant | 801 | TOL | 2140 | RON | | | | | |
| ALLEGiant | 811 | MEM | 2250 | RON | | | | | |
| ALLEGiant | 827 | LCK | 2300 | RON | | | | | |

Figure E-5: Sample Flight Schedule

SOURCE: Flight schedule from airport records, 2017

TABLE E-6 TRAFFIC VOLUMES USED IN TERMINAL AREA ROADWAY ANALYSIS FOR BASELINE YEAR

| Location | Peak Hour | | |
|-------------------------|-----------|--------|-----|
| | AM | Midday | PM |
| 1: Main Entry (EB) | 221 | 205 | 131 |
| 1: Main Exit (WB) | 395 | 413 | 304 |
| 2: Airport Parkway (NB) | 14 | 103 | 80 |
| 2: Airport Parkway (SB) | 28 | 109 | 66 |
| 3: Terminal Boulevard | 248 | 241 | 122 |
| 4: Curbfront Entry | 501 | 478 | 301 |
| 5: Return to Terminal | 34 | 81 | 63 |
| 6: Second Curbfront | 139 | 140 | 62 |
| 7: Main Curbfront | 281 | 311 | 199 |

Note: Baseline year refers to 2017 as defined in the facility requirements chapter.

SOURCE: Kimley-Horn and Associates, Inc., 2017.

1.2.2 Future Conditions

Since traffic counts cannot be conducted on the future conditions, as they do not yet exist, the traffic counts from the existing conditions were distributed to the future conditions so demands and capacities on corresponding future roadways could be estimated. To develop the demands on the future roadway network, relevant traffic volumes at various points of the existing roadway network were added and subtracted accordingly for corresponding locations. The locations of future volume development are depicted in **Figure E-6** and include Exiting the Terminal (A), Before Rental Car Entrance (B), and Before Parking Lot Entrances (C).

The future, developed peak hour volumes for Locations A, B, and C are presented in **Table E-7**. The baseline vehicle count was calculated as the sum of the vehicles utilizing the primary curbside, the secondary curbside, and recirculating in the existing conditions.

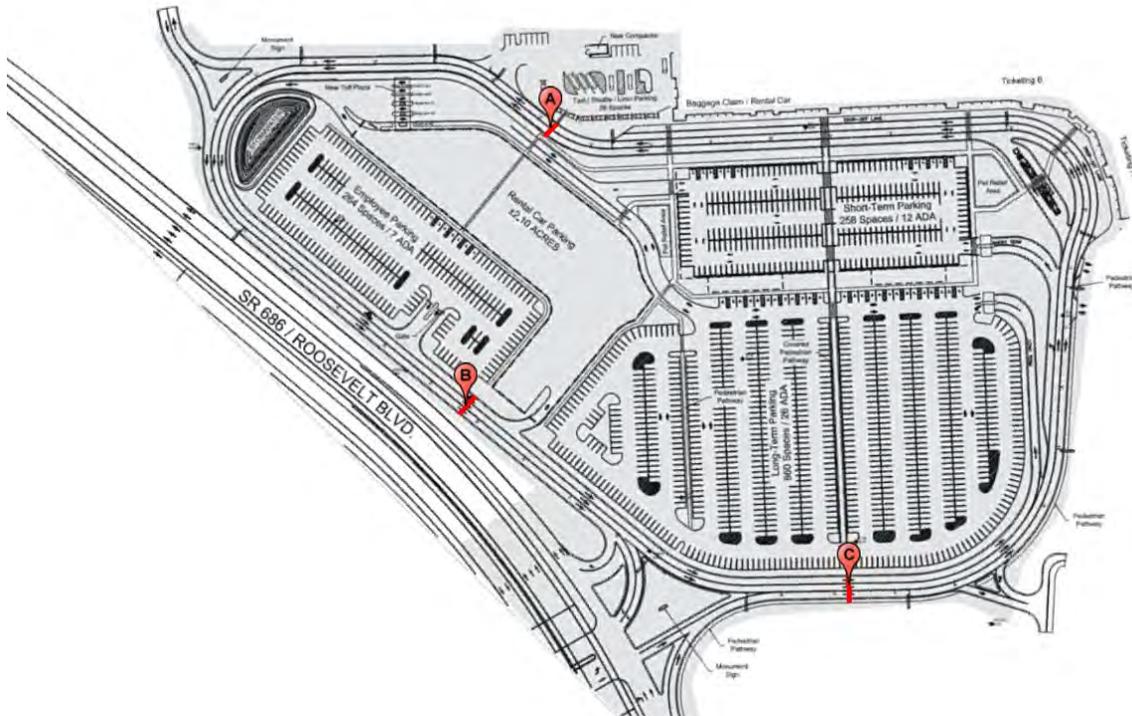


Figure E-6: Future Landside Configuration and Traffic Count Mapping Locations

SOURCE: FDOT Gateway Expressway Reverse Access Road Drawing and Kimley-Horn and Associates, Inc., 2018.

TABLE E-7 BASELINE TRAFFIC VOLUMES USED IN TERMINAL AREA ROADWAY ANALYSIS FOR THE FUTURE ROADWAY NETWORK

| Location | Peak Hour | | |
|------------------------------------|-----------|--------|-----|
| | AM | Midday | PM |
| A: Exiting Terminal Curbfront Area | 471 | 502 | 320 |
| B: Before Rental Car Entrance | 648 | 650 | 483 |
| C: Before Parking Lot Entrances | 501 | 478 | 301 |

SOURCE: Kimley-Horn and Associates, Inc., 2018.

1.3 Terminal Curbfront Conditions

1.3.1 Existing Conditions

The existing terminal curbfront consists of a primary curbfront, a secondary curbfront, and a ground transportation area (GTA). The primary curbfront serves both departing and arriving passengers within their respective zones. The primary curbfront is divided into four zones: Ticketing A, Ticketing B, Unassigned, and Baggage Claim. These zones are defined and visually depicted in the existing conditions chapter.

Ticketing A and B

The Ticketing A curbfront area and Ticketing B curbfront area are located on the primary curbfront and primarily serve as drop-off points for private vehicles, taxis, Transportation Network Companies (TNC's) such as Uber and Lyft, and shuttles (rental car, hotel, courtesy, etc.). The drop-off area is a three-lane road with two lanes used for curbing and one lane exclusively used for through traffic. There is one pedestrian crosswalk in the drop-off area near the end of the Ticketing B curbfront area.

Island 1 is part of the secondary curbfront, located across from Ticketing B. Island 1 is a three-lane road with one lane dedicated to curbing activities for delivery vehicles and airport vehicles. Island 1 has six dedicated vehicle spaces and one pedestrian crosswalk located near the beginning of the curbfront area.

Unassigned Curbfront

There is 130 feet of curbfront in between the ticketing areas and the baggage claim area that does not have any access points to the terminal building. This area is primarily utilized as a staging area for passenger vehicles picking-up. During field observations, it was observed that passenger vehicles parked on the Unassigned curbfront for as long as 29 minutes. This area is a three-lane road with two lanes used for curbing and one lane exclusively used for through traffic. For the remainder of this section, this area will be referred to as the Unassigned curbfront area.

Baggage Claim

The Baggage Claim curbfront areas serve as pick-up points for private vehicles and TNC's. The Baggage Claim curbfront area is a four-lane road with two lanes used for curbing, one lane exclusively used for through traffic, and one lane used for recirculation back to the terminal's entrance. There are three pedestrian crosswalks in the pick-up area that break up the Baggage Claim curbfront area.

Island 2 is part of the secondary curbfront and is located across from Baggage Claim. Island 2 is a two-lane road with one lane dedicated for curbing activities for delivery vehicles and airport vehicles. Island 2 has six dedicated vehicle spaces and two pedestrian crosswalks.

Ground Transportation Area (GTA)

The GTA is located past Baggage Claim and is primarily used for passenger pick-up by taxis and shuttles (rental car, hotel, courtesy, etc.). However, the GTA is also utilized by employees, rental cars, limousine services, and commercial vehicles. The GTA has 110 feet of queue-able space for taxis and additional curbside for shuttles.

1.3.2 Future Conditions

The future curbside area will consist of a primary curbside and a GTA. The curbside lengths of the primary curbside areas in the future are expected to be similar to those in the existing conditions. The vehicles assigned to the secondary curbside in existing conditions are primarily vendors for the airport; vendors were assumed to be relocated to the new vendor lane located between the pet relief area and departures curbside in the future conditions. Aside from the removal of the secondary curbside, the main change from the existing conditions to future conditions are the number of lanes. In the future conditions, it was assumed up to three lanes will be used for curbside and one lane exclusively used for through traffic. The proposed conditions are depicted in **Figure E-7**.

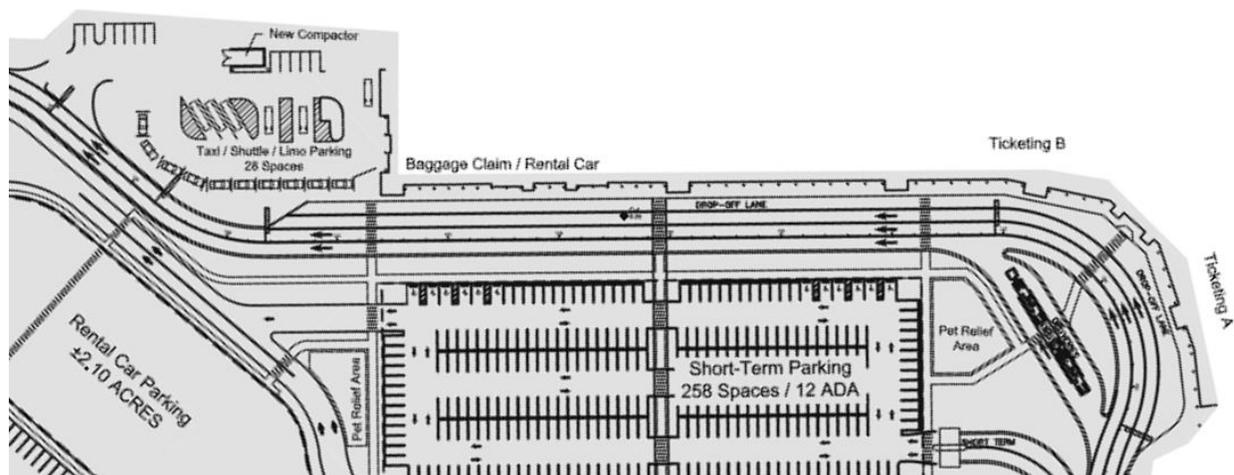


Figure E-7: Future Conditions of Curbside Area

The baseline vehicle count was taken as the sum of the vehicles utilizing the primary curbside, the secondary curbside, and recirculating in the existing conditions. The forecasted volumes were then calculated using the applied growth factors defined in the next section.

1.4 Applied Growth Factors

The applied growth factors shown in **Table E-8** were calculated based on the peak hour calculations presented in the forecast chapter. The growth factors are with respect to the baseline year counts. For example, the estimated number of enplanements during the AM peak hour in Planning Activity Level (PAL) 2 is 1.350 times larger than the number of enplanements during the AM peak hour in the baseline year.

TABLE E-8 APPLIED GROWTH FACTORS FOR TRAFFIC FORECASTS

| Peak Hour | Planning Activity Levels | | | |
|-----------|--------------------------|-------|-------|-------|
| | PAL-1 | PAL-2 | PAL-3 | PAL-4 |
| AM | 1.173 | 1.350 | 1.549 | 1.936 |
| Midday | 1.224 | 1.460 | 1.836 | 2.117 |
| PM | 1.173 | 1.350 | 1.549 | 1.936 |

SOURCE: Kimley-Horn and Associates, Inc., 2018.

1.5 Curbfront Forecasting Methodology

To determine the future vehicular volumes on the curbside, a two-step methodology was used. These steps take into account the passenger forecasts and passenger characteristics collected during the passenger data collection as detailed in the existing conditions chapter.

Step 1: Apply passenger mode split information based on vehicle classification counts.

Step 2: Generate vehicle volumes by mode in their respective curbside zones.

The details of the two-step forecast methodology are discussed in the sections below.

Step 1: Passenger Mode Split

The vehicle mode splits (proportion of private vehicles, taxis, TNC's, shuttle, etc.) that were used to determine the vehicle classifications for the baseline year (2017) were derived from the results of a field survey where vehicle classifications were counted. For the baseline year, the vehicle mode splits for the primary and secondary curbside were analyzed separately using the separate primary and secondary curbside classification counts. However, in the future years there will only be one curbside (as a result of the Gateway Project), so the combined vehicle classification counts for the primary and secondary curbside were used to determine the future vehicle mode splits. The vehicle mode split was assumed to stay constant from PAL-1 through PAL-4. The vehicle mode splits (average for one day) for the baseline and forecast years are presented in **Table E-9**.

The average vehicle mode splits were broken down further to better represent each peak hour and indicate whether a drop-off, pick-up, or staging was occurring. Staging is when a passenger vehicle parks at the curbside while they wait to pick-up one or more passengers. The differentiation

between vehicles that were dropping off, picking up, and staging was necessary for the analysis because there were significant differences in the dwell times.

TABLE E-9 AVERAGE VEHICLE MODE SPLITS

| Vehicle Classification | Baseline (Primary Curbfront) | Baseline (Secondary Curbfront) | PAL-1 through PAL-4 |
|-------------------------|------------------------------------|--------------------------------------|---------------------------|
| Private Vehicle | 92.5% | 82.6% | 92.8% |
| TNC | 3.3% | - | 2.4% |
| Taxi | 2.0% | - | 1.5% |
| Airport Parking Shuttle | - | 8.3% | 2.4% |
| Rental Car Shuttle | 0.3% | 0.4% | 0.3% |
| Hotel/Courtesy Shuttle | 0.5% | - | 0.4% |
| Other | 1.4% | 5.0% | 0.2% |

SOURCE: Kimley-Horn and Associates, Inc., 2018.

The dwell times that were used in the analysis were derived from dwell times recorded during field observations. The average dwell times for each vehicle classification that were recorded are used in the analysis and are presented in **Table E-10**. The vehicle mode splits for the AM, midday, and PM peaks for each vehicle classification are presented in **Table E-11**. It was assumed that during the AM peak hour all vehicles were dropping off, during the midday peak hour 70 percent of the vehicles were dropping off and 30 percent of the vehicles were picking up, and during the PM peak hour all vehicles were picking up. This is consistent with the baseline analysis which considered existing flight schedule activity data.

TABLE E-10 AVERAGE VEHICLE DWELL TIMES

| Vehicle Classification | Length | Dwell Time (minutes) |
|------------------------------------|--------|-------------------------|
| Private Vehicle (staging) | 25 | 6.12 |
| Private Vehicle (pick-up) | 25 | 1.17 |
| TNC (pick-up) | 25 | 0.75 |
| Private Vehicle (drop-off) | 25 | 1.17 |
| Taxi (drop-off) | 25 | 1.02 |
| TNC (drop-off) | 25 | 0.92 |
| Airport Parking Shuttle (drop-off) | 30 | 0.82 |
| Rental Car Shuttle (drop-off) | 30 | 1.30 |
| Hotel/Courtesy Shuttle (drop-off) | 30 | 1.53 |
| All GTA (pick-up) | 30 | 2.17 |
| Other | 30 | 3.50 |

SOURCE: Kimley-Horn and Associates, Inc., 2018.

TABLE E-11 VEHICLE MODE SPLITS SEPARATED BY PEAK HOUR

| Vehicle Classification | Baseline (Primary Curbfront) | | | Baseline (Secondary Curbfront) | | | PAL-1 through PAL-4 | | |
|------------------------------------|---------------------------------|-------|-------|-----------------------------------|-------|-------|---------------------|-------|-------|
| | AM | Mid | PM | AM | Mid | PM | AM | Mid | PM |
| Private Vehicle (staging) | - | 4.3% | 15.8% | - | - | - | - | 3.8% | 13.1% |
| Private Vehicle (pick-up) | - | 23.5% | 80.7% | - | 25.5% | 94.6% | - | 24.3% | 84.5% |
| TNC (pick-up) | - | 1.1% | 3.5% | - | - | - | - | 0.7% | 2.4% |
| Private Vehicle (drop-off) | 92.4% | 65.0% | - | 86.1% | 60.4% | - | 93.3% | 65.4% | - |
| Taxi (drop-off) | 2.1% | 1.9% | - | - | - | - | 1.5% | 1.5% | - |
| TNC (drop-off) | 3.4% | 2.4% | - | - | - | - | 2.4% | 1.6% | - |
| Airport Parking Shuttle (drop-off) | - | - | - | 8.3% | 8.2% | - | 2.2% | 2.1% | - |
| Rental Car Shuttle (drop-off) | 0.6% | 0.5% | - | 0.7% | 0.7% | - | 0.3% | 0.3% | - |
| Hotel/Courtesy Shuttle (drop-off) | 0.6% | 0.5% | - | - | - | - | 0.3% | 0.3% | - |
| Other | 0.9% | 0.8% | - | 4.9% | 5.2% | 5.4% | - | - | - |

Note: Mode splits change due to removal of the secondary curbside and re-distribution of traffic along a single curbside with a larger total percentage to conform to the future layout.

SOURCE: Kimley-Horn and Associates, Inc., 2018.

For the forecast years, it was also assumed that the airport vehicles and law enforcement vehicles that utilized the secondary curbside would relocate to the small portion of curbside at the end of the Baggage Claim area that is separated by a pedestrian crosswalk. This portion of the curbside was considered to be parking for law enforcement and was therefore not considered as part of the curbside length for the purposes of the analysis.

Step 2: Generate Vehicle Volumes

The percent of vehicles that curb in each zone during the peak hours is summarized in **Table E-12**. As previously mentioned, vehicles were assumed to only drop-off during the AM peak hour, both pick-up and drop-off during the midday peak hour, and only pick-up during the PM peak hour. It was assumed that the Unassigned curbside was utilized by vehicles dropping off during the AM peak hour, by both vehicles picking up and dropping off during the midday peak hour, and by vehicles picking up during the PM peak hour.

TABLE E-12 PERCENT OF TOTAL VEHICLES CURBING IN EACH CURBFRONT AREA

| Vehicle Classification | Baseline (Primary Curbfront) | | | Baseline (Secondary Curbfront) | | | PAL-1 through PAL-4 | | |
|------------------------|---------------------------------|-------|-------|-----------------------------------|-----|------|---------------------|-------|-------|
| | AM | Mid | PM | AM | Mid | PM | AM | Mid | PM |
| Ticketing A | 50.0% | 35.6% | - | - | - | - | 50.0% | 35.6% | - |
| Ticketing B | 50.0% | 35.5% | - | 100% | 70% | - | 50.0% | 35.6% | - |
| Unassigned | - | 4.3% | 15.8% | - | - | - | - | 3.8% | 13.1% |
| Baggage Claim | - | 24.6% | 84.2% | - | 30% | 100% | - | 25.0% | 86.9% |

SOURCE: Kimley-Horn and Associates, Inc., 2018.

1.5.1 Terminal Curbfront Capacity

Terminal curbside capacity consists of two components: designated curbside lanes and curbside through lanes. This distinction is illustrated in the QATAR analysis outputs in **Appendix E-1**. The capacity of the curbside lanes is determined based on the available curbside length, average vehicle length, and average vehicle dwell time. In the case of PIE's terminal curbside, vehicles are encouraged to double-park along the primary curbside, providing additional effective curbside length. The physical curbside lengths of each curbside section are presented in **Table E-13**.

TABLE E-13 PHYSICAL CURBFRONT LENGTHS

| Vehicle Classification | Baseline (Primary Curbfront) | Baseline (Secondary Curbfront) | PAL-1 through PAL-4 |
|------------------------|------------------------------------|--------------------------------------|---------------------------|
| Ticketing A | 130' | - | 140' |
| Ticketing B | 250' | 160' | 140' |
| Unassigned | 130' | - | 250' |
| Baggage Claim | 280' | 160' | 260' |

SOURCE: Kimley-Horn and Associates, Inc., 2018.

1.6 QATAR Input Assumptions

The following key input assumptions were captured within ACRP's macroscopic model, Quick Analysis Tool for Airport Roadways (QATAR). An overview of QATAR is provided in the facility requirements chapter.

- ➔ No vehicles were allowed to stop in the crosswalks.
- ➔ In the morning peak hour, all vehicles entering the terminal curbside area curbed in one of the curbside zones (no reduction for recirculation).
- ➔ In the midday peak hour, 7.5 percent of all passenger vehicles that entered the terminal curbside area with the intent of picking-up recirculated and did not curb.

- In the night peak hour, 10 percent of all passenger vehicles that entered the terminal curbside area with the intent of picking-up recirculated and did not curb.
- In the forecast years, law enforcement vehicles and airport vehicles will park on the small length of curbside following the pedestrian crosswalk in the Baggage Claim area. These vehicles were not considered as part of the analysis and the curbside utilized by them was excluded from the total curbside length. This enabled a more conservative analysis.
- In the forecast years, all shuttle and taxi pick-up activity will occur in the GTA. All shuttle and taxi drop-off activity will continue to occur on the main curbside.
- Vehicles began double parking when the first lane in the primary curbside became 50 percent full.
- Double parking was prohibited on the secondary curbside (baseline scenario).
- In the baseline scenarios, triple parking was prohibited.
- In the forecast scenarios, vehicles began triple parking when the second lane became 75 percent full.
- A pedestrian factor of 0.90 was applied, therefore reducing the effective curbside through capacity to 90 percent.
- A regional factor of 0.95 was applied, therefore reducing the effective curbside through and curbing capacity to 95 percent.

The full QATAR analyses results are provided **Appendix E-1**.

APPENDIX E

Appendix E-1

QATAR Analyses

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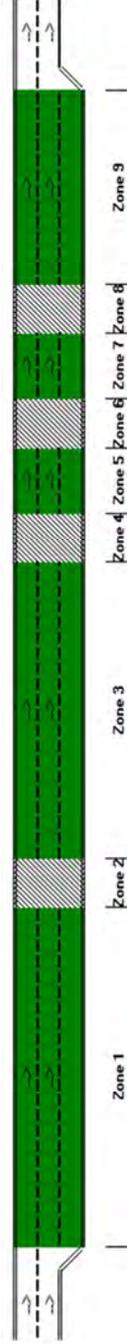
Quick Analysis Tool for Airport Roadways

QATAR v0.6 developed by LeighFisher in association with Dowling Associates, Inc.

Results: Level-of-Service by Zone

Model run by: Kimley-Horn on 6/5/2018

Airport
 Roadway location: Terminal 1
Scenario
 Level / type of roadway: Baseline - Primary (AM)
 Total lanes / approach lanes: Mixed
 Number of curbside zones: 3 / 2
 9



| Zone ID | Name/description | Curb length (feet) | Zone type | Roadway volume (vph) | Roadway capacity (vph) | Roadway V/C ratio | Roadway LOS | Curb demand (# in sys 95% of time) | Curb capacity per lane (vehicles) | Curb utilization ratio | Curb LOS |
|---------|------------------|--------------------|-----------|----------------------|------------------------|-------------------|-------------|------------------------------------|-----------------------------------|------------------------|----------|
| Zone 1 | active | 280 | active | 327 | 1,773 | 0.184 | A | 11.0 | 11.0 | 1.000 | A |
| Zone 2 | xwalk | 20 | xwalk | 327 | 2,391 | 0.137 | A | N/A | N/A | N/A | N/A |
| Zone 3 | active | 250 | active | 327 | 2,362 | 0.137 | A | 0.0 | 0.0 | 0.000 | A |
| Zone 4 | xwalk | 20 | xwalk | 327 | 2,391 | 0.137 | A | N/A | N/A | N/A | N/A |
| Zone 5 | active | 50 | active | 327 | 2,362 | 0.137 | A | 0.0 | 0.0 | 0.000 | A |
| Zone 6 | xwalk | 20 | xwalk | 327 | 2,391 | 0.137 | A | N/A | N/A | N/A | N/A |
| Zone 7 | active | 50 | active | 327 | 2,362 | 0.137 | A | 0.0 | 0.0 | 0.000 | A |
| Zone 8 | xwalk | 20 | xwalk | 327 | 2,391 | 0.137 | A | N/A | N/A | N/A | N/A |
| Zone 9 | active | 160 | active | 327 | 2,362 | 0.137 | A | 0.0 | 0.0 | 0.000 | A |

Level-of-service (LOS) key:



Baseline – Secondary Curbfront – AM

Inputs

Quick Analysis Tool for Airport Roadways
 QATAR v0.6 developed by LeighFisher in association with Dowling Associates, Inc.

Summary of Inputs and Assumptions
 Model run by: Kimley-Horn on 6/5/2018

| | |
|---|------------|
| Airport | PIE |
| Roadway location | Terminal 1 |
| Scenario | |
| Level / type of roadway | Mixed |
| Total lanes / approach lanes | 3 / 2 |
| Number of curbside zones | 8 |
| % of 1st lane full when next vehicle double parks | 0.5 |
| % of 2nd lane full when next vehicle triple parks | 0.75 |
| Crosswalk adjustment factor | 0.9 |
| Regional adjustment factor | 0.95 |

| Frontage and dwell time per curbside operation | | |
|--|----------------|------------------------------|
| Vehicle class | Vehicle parkir | Average dwell time (minutes) |
| Private Vehicle (staging) | 25 | 6.12 |
| Private Vehicle (pickup) | 25 | 1.17 |
| TNC (pickup) | 25 | 0.75 |
| Private Vehicle (drop) | 25 | 1.17 |
| Taxi (drop) | 25 | 1.02 |
| TNC (drop) | 25 | 0.92 |
| Airport Parking Shuttle (drop) | 30 | 0.82 |
| Rental Car Shuttle (drop) | 30 | 1.3 |
| Hotel Shuttle (drop) | 30 | 1.53 |
| Other | 30 | 3.5 |

| Assumptions by zone | | | | | | | | |
|---|--------|--------|--------|---------|--------|--------|--------|--------|
| Zone ID | Zone 1 | Zone 2 | Zone 3 | Zone 4 | Zone 5 | Zone 6 | Zone 7 | Zone 8 |
| Name | | | | | | | | |
| Type | active | swalk | active | no stop | swalk | active | swalk | active |
| Curbside frontage (feet) | 60 | 20 | 100 | 100 | 20 | 35 | 20 | 125 |
| Number of lanes | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Number of approach lanes | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Volume of vehicles using roadway (vph) | | | | | | | | |
| Private Vehicle (staging) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Private Vehicle (pickup) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TNC (pickup) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Private Vehicle (drop) | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 124 |
| Taxi (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TNC (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Airport Parking Shuttle (drop) | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| Rental Car Shuttle (drop) | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Hotel Shuttle (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Volume of vehicles using curbside (vph) | | | | | | | | |
| Private Vehicle (staging) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Private Vehicle (pickup) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TNC (pickup) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Private Vehicle (drop) | 41 | 0 | 83 | 0 | 0 | 0 | 0 | 0 |
| Taxi (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TNC (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Airport Parking Shuttle (drop) | 4 | 0 | 8 | 0 | 0 | 0 | 0 | 0 |
| Rental Car Shuttle (drop) | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Hotel Shuttle (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 6 |

Quick Analysis Tool for Airport Roadways

QATAR v0.6 developed by LeighFisher in association with Dowling Associates, Inc.

Results: Level-of-Service by Zone

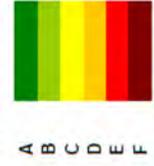
Model run by: Kimley-Horn on 6/5/2018

Airport: Terminal 1
 Roadway location: Mixed
 Scenario: 3 / 2
 Level / type of roadway: 8
 Total lanes / approach lanes:
 Number of curbside zones:



| Zone ID | Zone 1 | Zone 2 | Zone 3 | Zone 4 | Zone 5 | Zone 6 | Zone 7 | Zone 8 |
|------------------------------------|-----------|----------|------------|-------------|----------|-----------|----------|------------|
| Name/description | 60 active | 20 xwalk | 100 active | 100 no stop | 20 xwalk | 35 active | 20 xwalk | 125 active |
| Curb length (feet) | 144 | 144 | 144 | 144 | 144 | 144 | 144 | 144 |
| Zone type | active | xwalk | active | no stop | xwalk | active | xwalk | active |
| Roadway volume (vph) | 1,022 | 2,391 | 1,773 | 2,382 | 2,391 | 1,773 | 2,391 | 2,178 |
| Roadway capacity (vph) | 0.141 | 0.060 | 0.081 | 0.060 | 0.060 | 0.081 | 0.060 | 0.066 |
| Roadway V/C ratio | A | A | A | A | A | A | A | A |
| Roadway LOS | 3.0 | N/A | 4.0 | N/A | N/A | 1.0 | N/A | 1.0 |
| Curb demand (# in sys 95% of time) | 2.0 | N/A | 4.0 | N/A | N/A | 1.0 | N/A | 4.0 |
| Curb capacity per lane (vehicles) | 1,500 | N/A | 1,000 | N/A | N/A | 1,000 | N/A | 0,250 |
| Curb utilization ratio | D | N/A | A | N/A | N/A | A | N/A | A |
| Curb LOS | | | | | | | | |

Level-of-service (LOS) key:



ADJUSTED CONFIGURATION



| Zone ID | Zone 1 | Zone 2 | Zone 3 | Zone 4 | Zone 5 | Zone 6 | Zone 7 | Zone 8 |
|------------------------------------|-----------|----------|------------|-------------|----------|-----------|----------|------------|
| Name/description | 60 active | 20 xwalk | 100 active | 100 no stop | 20 xwalk | 35 active | 20 xwalk | 125 active |
| Curb length (feet) | 144 | 144 | 144 | 144 | 144 | 144 | 144 | 144 |
| Zone type | active | xwalk | active | no stop | xwalk | active | xwalk | active |
| Roadway volume (vph) | 1,022 | 2,391 | 1,773 | 2,382 | 2,391 | 408 | 2,391 | 1,324 |
| Roadway capacity (vph) | 0.141 | 0.060 | 0.081 | 0.060 | 0.060 | 0.353 | 0.060 | 0.109 |
| Roadway V/C ratio | A | A | A | A | A | B | A | A |
| Roadway LOS | | | | | | | | |
| Curb demand (# in sys 95% of time) | 3.00 | N/A | 4.00 | N/A | N/A | 1.00 | N/A | 1.00 |
| Curb capacity per lane (vehicles) | 2.00 | N/A | 4.00 | N/A | N/A | 1.00 | N/A | 4.00 |
| Curb utilization ratio | 1.500 | N/A | 1.000 | N/A | N/A | 1.000 | N/A | 0.250 |
| Curb LOS | F | N/A | C | N/A | N/A | C | N/A | A |

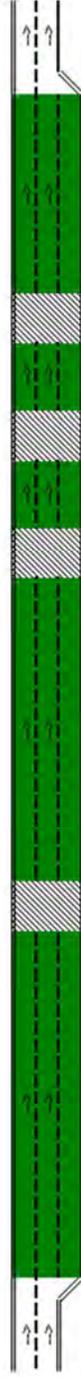
Quick Analysis Tool for Airport Roadways

QATAR v0.6 developed by LeighFisher in association with Dowling Associates, Inc.

Results: Level-of-Service by Zone

Model run by: Kimley-Horn on 6/5/2018

Airport: PE
 Roadway location: Terminal 1
 Scenario: Mixed
 Level / type of roadway: 3 / 2
 Total lanes / approach lanes: 9
 Number of curbside zones: 9



| Zone ID | Name/Description | Curb length (feet) | Zone type | Roadway volume (vph) | Roadway capacity (vph) | Roadway V/C ratio | Roadway LOS | Curb demand (# in sys 95% of time) | Curb capacity per lane (vehicles) | Curb utilization ratio | Curb LOS |
|---------|------------------|--------------------|-----------|----------------------|------------------------|-------------------|-------------|------------------------------------|-----------------------------------|------------------------|----------|
| Zone 1 | | 280 | active | 387 | 1,955 | 0.198 | A | 9.0 | 11.0 | 0.818 | A |
| Zone 2 | | 20 | xwalk | 387 | 2,391 | 0.162 | A | N/A | N/A | N/A | N/A |
| Zone 3 | | 250 | active | 387 | 2,129 | 0.182 | A | 4.0 | 10.0 | 0.400 | A |
| Zone 4 | | 20 | xwalk | 387 | 2,391 | 0.162 | A | N/A | N/A | N/A | N/A |
| Zone 5 | | 50 | active | 387 | 1,773 | 0.218 | A | 2.0 | 2.0 | 1.000 | A |
| Zone 6 | | 20 | xwalk | 387 | 2,391 | 0.162 | A | N/A | N/A | N/A | N/A |
| Zone 7 | | 50 | active | 387 | 1,773 | 0.218 | A | 2.0 | 2.0 | 1.000 | A |
| Zone 8 | | 20 | xwalk | 387 | 2,391 | 0.162 | A | N/A | N/A | N/A | N/A |
| Zone 9 | | 160 | active | 387 | 2,102 | 0.184 | A | 3.0 | 6.0 | 0.500 | A |

Level-of-service (LOS) key:



Baseline – Secondary Curbfront – Midday

Inputs

Quick Analysis Tool for Airport Roadways
 QATAR v0.6 developed by LeighFisher in association with Dowling Associates, Inc.

Summary of Inputs and Assumptions
 Model run by: Kimley-Horn on 8/5/2018

| | |
|---|------------|
| Airport | PIE |
| Roadway location | Terminal 1 |
| Scenario | |
| Level / type of roadway | Mixed |
| Total lanes / approach lanes | 3 / 2 |
| Number of curbside zones | 8 |
| % of 1st lane full when next vehicle double parks | 0.5 |
| % of 2nd lane full when next vehicle triple parks | 0.75 |
| Crosswalk adjustment factor | 0.9 |
| Regional adjustment factor | 0.95 |

Frontage and dwell time per curbside operation

| Vehicle class | Vehicle parking | Average dwell time (minutes) |
|--------------------------------|-----------------|------------------------------|
| Private Vehicle (staging) | 25 | 6.12 |
| Private Vehicle (pickup) | 25 | 1.17 |
| TNC (pickup) | 25 | 0.75 |
| Private Vehicle (drop) | 25 | 1.17 |
| Taxi (drop) | 25 | 1.02 |
| TNC (drop) | 25 | 0.92 |
| Airport Parking Shuttle (drop) | 30 | 0.82 |
| Rental Car Shuttle (drop) | 30 | 1.3 |
| Hotel Shuttle (drop) | 30 | 1.53 |
| Other | 30 | 3.5 |

Assumptions by zone

| Zone ID | Zone 1 | Zone 2 | Zone 3 | Zone 4 | Zone 5 | Zone 6 | Zone 7 | Zone 8 |
|--------------------------|--------|--------|--------|---------|--------|--------|--------|--------|
| Name | | | | | | | | |
| Type | active | swalk | active | no stop | swalk | active | swalk | active |
| Curbside frontage (feet) | 60 | 20 | 100 | 100 | 20 | 35 | 20 | 125 |
| Number of lanes | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Number of approach lanes | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |

Volume of vehicles using roadway (vph)

| | | | | | | | | |
|--------------------------------|----|----|----|----|----|----|----|----|
| Private Vehicle (staging) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Private Vehicle (pickup) | 34 | 34 | 34 | 34 | 34 | 34 | 34 | 34 |
| TNC (pickup) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Private Vehicle (drop) | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 |
| Taxi (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TNC (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Airport Parking Shuttle (drop) | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
| Rental Car Shuttle (drop) | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Hotel Shuttle (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |

Volume of vehicles using curbside (vph)

| | | | | | | | | |
|--------------------------------|----|---|----|---|---|---|---|----|
| Private Vehicle (staging) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Private Vehicle (pickup) | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 26 |
| TNC (pickup) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Private Vehicle (drop) | 27 | 0 | 54 | 0 | 0 | 0 | 0 | 0 |
| Taxi (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TNC (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Airport Parking Shuttle (drop) | 4 | 0 | 7 | 0 | 0 | 0 | 0 | 0 |
| Rental Car Shuttle (drop) | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Hotel Shuttle (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 6 |

Quick Analysis Tool for Airport Roadways

QATAR v0.6 developed by LeighFisher in association with Dowling Associates, Inc.

Results: Level-of-Service by Zone

Model run by: Kmley-Horn on 6/5/2018

Airport: PE
 Roadway location: Terminal 1
 Scenario: Mixed
 Level / type of roadway: 3 / 2
 Total lanes / approach lanes: 8
 Number of curbside zones: 8



| Zone ID | Zone 1 | Zone 2 | Zone 3 | Zone 4 | Zone 5 | Zone 6 | Zone 7 | Zone 8 |
|------------------------------------|-----------|----------|------------|-------------|----------|-----------|----------|------------|
| Name/description | 60 active | 20 xwalk | 100 active | 100 no stop | 20 xwalk | 35 active | 20 xwalk | 125 active |
| Curb length (feet) | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 |
| Zone type | active | xwalk | active | no stop | xwalk | active | xwalk | active |
| Roadway volume (vph) | 1,773 | 2,391 | 1,996 | 2,382 | 2,391 | 1,773 | 2,391 | 2,070 |
| Roadway capacity (vph) | 0.076 | 0.056 | 0.067 | 0.056 | 0.056 | 0.076 | 0.056 | 0.065 |
| Roadway V/C ratio | A | A | A | A | A | A | A | A |
| Roadway LOS | 2.0 | N/A | 3.0 | N/A | N/A | 1.0 | N/A | 3.0 |
| Curb demand (# in sys 95% of time) | 2.0 | N/A | 4.0 | N/A | N/A | 1.0 | N/A | 5.0 |
| Curb capacity per lane (vehicles) | 1,000 | N/A | 0,750 | N/A | N/A | 1,000 | N/A | 0,600 |
| Curb utilization ratio | A | N/A | A | N/A | N/A | A | N/A | A |
| Curb LOS | A | N/A | A | N/A | N/A | A | N/A | A |

Level-of-service (LOS) key:



ADJUSTED CONFIGURATION



| Zone ID | Zone 1 | Zone 2 | Zone 3 | Zone 4 | Zone 5 | Zone 6 | Zone 7 | Zone 8 |
|------------------------------------|--------|--------|--------|---------|--------|--------|--------|--------|
| Name/description | | | | | | | | |
| Curb length (feet) | 60 | 20 | 100 | 100 | 20 | 35 | 20 | 125 |
| Zone type | active | xwalk | active | no stop | xwalk | active | xwalk | active |
| Roadway volume (vph) | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 |
| Roadway capacity (vph) | 1,773 | 2,391 | 1,996 | 2,382 | 2,391 | 408 | 2,391 | 947 |
| Roadway V/C ratio | 0.076 | 0.056 | 0.067 | 0.056 | 0.056 | 0.329 | 0.056 | 0.142 |
| Roadway LOS | A | A | A | A | A | B | A | A |
| Curb demand (# in sys 95% of time) | 2.00 | N/A | 3.00 | N/A | N/A | 1.00 | N/A | 3.00 |
| Curb capacity per lane (vehicles) | 2.00 | N/A | 4.00 | N/A | N/A | 1.00 | N/A | 5.00 |
| Curb utilization ratio | 1.000 | N/A | 0.750 | N/A | N/A | 1.000 | N/A | 0.600 |
| Curb LOS | C | N/A | B | N/A | N/A | C | N/A | A |

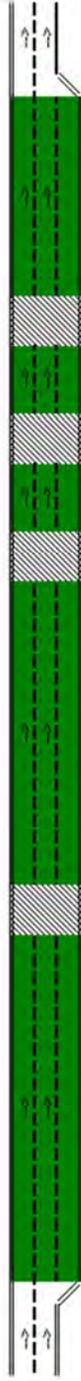
Quick Analysis Tool for Airport Roadways

QATAR v0.6 developed by LeighFisher in association with Dowling Associates, Inc.

Results: Level-of-Service by Zone

Model run by: Kimley-Horn on 6/5/2018

| | |
|------------------------------|------------|
| Airport | PIE |
| Roadway location | Terminal 1 |
| Scenario | Mixed |
| Level / type of roadway | 3 / 2 |
| Total lanes / approach lanes | 9 |
| Number of curbside zones | |



| Zone ID | Name/description | Zone 1 | Zone 2 | Zone 3 | Zone 4 | Zone 5 | Zone 6 | Zone 7 | Zone 8 | Zone 9 |
|------------------------------------|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Curb length (feet) | | 280 | 20 | 250 | 20 | 50 | 20 | 50 | 20 | 160 |
| Zone type | | active | xwalk | active | xwalk | active | xwalk | active | xwalk | active |
| Roadway volume (vph) | | 259 | 259 | 259 | 259 | 259 | 259 | 259 | 259 | 259 |
| Roadway capacity (vph) | | 2,382 | 2,391 | 2,025 | 2,391 | 1,773 | 2,391 | 1,773 | 2,391 | 1,939 |
| Roadway V/C ratio | | 0.109 | 0.108 | 0.128 | 0.108 | 0.146 | 0.108 | 0.146 | 0.108 | 0.134 |
| Roadway LOS | | A | A | A | A | A | A | A | A | A |
| Curb demand (# in sys 95% of time) | | 0.0 | N/A | 7.0 | N/A | 2.0 | N/A | 2.0 | N/A | 5.0 |
| Curb capacity per lane (vehicles) | | 0.0 | N/A | 10.0 | N/A | 2.0 | N/A | 2.0 | N/A | 6.0 |
| Curb utilization ratio | | 0.000 | N/A | 0.700 | N/A | 1.000 | N/A | 1.000 | N/A | 0.833 |
| Curb LOS | | A | N/A | A | N/A | A | N/A | A | N/A | A |

Level-of-service (LOS) key:



Baseline – Secondary Curbfront – PM

Inputs

Quick Analysis Tool for Airport Roadways
 QATAR v0.6 developed by LeighFisher in association with Dowling Associates, Inc.

Summary of Inputs and Assumptions
 Model run by: Kimley-Horn on 6/5/2018

| | |
|---|------------|
| Airport | PIE |
| Roadway location | Terminal 1 |
| Scenario | |
| Level / type of roadway | Mixed |
| Total lanes / approach lanes | 3 / 2 |
| Number of curbside zones | 8 |
| % of 1st lane full when next vehicle double parks | 0.5 |
| % of 2nd lane full when next vehicle triple parks | 0.75 |
| Crosswalk adjustment factor | 0.9 |
| Regional adjustment factor | 0.95 |

| Frontage and dwell time per curbside operation | Vehicle parkin | Average dwell time (minutes) |
|--|----------------|------------------------------|
| Vehicle class | | |
| Private Vehicle (staging) | 25 | 6.12 |
| Private Vehicle (pickup) | 25 | 1.17 |
| TNC (pickup) | 25 | 0.75 |
| Private Vehicle (drop) | 25 | 1.17 |
| Taxi (drop) | 25 | 1.02 |
| TNC (drop) | 25 | 0.92 |
| Airport Parking Shuttle (drop) | 30 | 0.82 |
| Rental Car Shuttle (drop) | 30 | 1.3 |
| Hotel Shuttle (drop) | 30 | 1.53 |
| Other | 30 | 3.5 |

| Assumptions by zone | Zone 1 | Zone 2 | Zone 3 | Zone 4 | Zone 5 | Zone 6 | Zone 7 | Zone 8 |
|---|--------|--------|--------|---------|--------|--------|--------|--------|
| Zone ID | | | | | | | | |
| Name | | | | | | | | |
| Type | active | swalk | active | no stop | swalk | active | swalk | active |
| Curbside frontage (feet) | 60 | 20 | 100 | 100 | 20 | 35 | 20 | 125 |
| Number of lanes | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Number of approach lanes | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Volume of vehicles using roadway (vph) | | | | | | | | |
| Private Vehicle (staging) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Private Vehicle (pickup) | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 |
| TNC (pickup) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Private Vehicle (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Taxi (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TNC (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Airport Parking Shuttle (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rental Car Shuttle (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hotel Shuttle (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Volume of vehicles using curbside (vph) | | | | | | | | |
| Private Vehicle (staging) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Private Vehicle (pickup) | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 40 |
| TNC (pickup) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Private Vehicle (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Taxi (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TNC (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Airport Parking Shuttle (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rental Car Shuttle (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hotel Shuttle (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 |

Quick Analysis Tool for Airport Roadways

QATAR v0.6 developed by LeighFisher in association with Dowling Associates, Inc.

Results: Level-of-Service by Zone

Model run by: Kimley-Horn on 6/5/2018

Airport: PE
 Roadway location: Terminal 1
 Scenario: Mixed
 Level / type of roadway: 3 / 2
 Total lanes / approach lanes: 8
 Number of curbside zones: 8



| Zone ID | Zone 1 | Zone 2 | Zone 3 | Zone 4 | Zone 5 | Zone 6 | Zone 7 | Zone 8 |
|------------------------------------|-----------|----------|------------|-------------|----------|-----------|----------|------------|
| Name/description | 60 active | 20 xwalk | 100 active | 100 no stop | 20 xwalk | 35 active | 20 xwalk | 125 active |
| Curb length (feet) | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 |
| Zone type | active | xwalk | active | no stop | xwalk | active | xwalk | active |
| Roadway volume (vph) | 2,382 | 2,391 | 2,382 | 2,382 | 2,391 | 1,773 | 2,391 | 2,070 |
| Roadway capacity (vph) | 0.024 | 0.023 | 0.024 | 0.024 | 0.023 | 0.032 | 0.023 | 0.027 |
| Roadway V/C ratio | A | A | A | A | A | A | A | A |
| Roadway LOS | A | N/A | A | A | A | A | A | A |
| Curb demand (# in sys 95% of time) | 0.0 | N/A | 0.0 | N/A | N/A | 1.0 | N/A | 3.0 |
| Curb capacity per lane (vehicles) | 0.0 | N/A | 0.0 | N/A | N/A | 1.0 | N/A | 5.0 |
| Curb utilization ratio | 0.000 | N/A | 0.000 | N/A | N/A | 1.000 | N/A | 0.600 |
| Curb LOS | A | N/A | A | N/A | N/A | A | N/A | A |

Level-of-service (LOS) key:



ADJUSTED CONFIGURATION



| Zone ID | Zone 1 | Zone 2 | Zone 3 | Zone 4 | Zone 5 | Zone 6 | Zone 7 | Zone 8 |
|------------------------------------|--------|--------|--------|---------|--------|--------|--------|--------|
| Name/description | | | | | | | | |
| Curb length (feet) | 60 | 20 | 100 | 100 | 20 | 35 | 20 | 125 |
| Zone type | active | xwalk | active | no stop | xwalk | active | xwalk | active |
| Roadway volume (vph) | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 |
| Roadway capacity (vph) | 2,382 | 2,391 | 2,382 | 2,382 | 2,391 | 408 | 2,391 | 947 |
| Roadway V/C ratio | 0.024 | 0.023 | 0.024 | 0.024 | 0.023 | 0.137 | 0.023 | 0.059 |
| Roadway LOS | A | A | A | A | A | A | A | A |
| Curb demand (# in sys 95% of time) | 0.00 | N/A | 0.00 | N/A | N/A | 1.00 | N/A | 3.00 |
| Curb capacity per lane (vehicles) | 0.00 | N/A | 0.00 | N/A | N/A | 1.00 | N/A | 5.00 |
| Curb utilization ratio | 0.000 | N/A | 0.000 | N/A | N/A | 1.000 | N/A | 0.600 |
| Curb LOS | A | N/A | A | N/A | N/A | C | N/A | A |

PAL 1 - AM

Inputs

Quick Analysis Tool for Airport Roadways

QATAR v0.6 developed by LeighFisher in association with Dowling Associates, Inc.

Summary of Inputs and Assumptions

Model run by: Kimley-Horn on 6/5/2018

| | | | | | | | |
|---|----------------|------------------------------|--------|--------|--------|--------|--------|
| Airport | PIE | | | | | | |
| Roadway location | Terminal 1 | | | | | | |
| Scenario | | | | | | | |
| Level / type of roadway | Mixed | | | | | | |
| Total lanes / approach lanes | 4 / 2 | | | | | | |
| Number of curbside zones | 7 | | | | | | |
| % of 1st lane full when next vehicle double parks | 0.5 | | | | | | |
| % of 2nd lane full when next vehicle triple parks | 0.75 | | | | | | |
| Crosswalk adjustment factor | 0.9 | | | | | | |
| Regional adjustment factor | 0.95 | | | | | | |
| Frontage and dwell time per curbside operation | | | | | | | |
| Vehicle class | Vehicle parkin | Average dwell time (minutes) | | | | | |
| Private Vehicle (staging) | 25 | 6.12 | | | | | |
| Private Vehicle (pickup) | 25 | 1.17 | | | | | |
| TNC (pickup) | 25 | 0.75 | | | | | |
| Private Vehicle (drop) | 25 | 1.17 | | | | | |
| Taxi (drop) | 25 | 1.02 | | | | | |
| TNC (drop) | 25 | 0.92 | | | | | |
| Airport Parking Shuttle (drop) | 30 | 0.82 | | | | | |
| Rental Car Shuttle (drop) | 30 | 1.3 | | | | | |
| Hotel Shuttle (drop) | 30 | 1.53 | | | | | |
| Other | 30 | 3.5 | | | | | |
| Assumptions by zone | | | | | | | |
| Zone ID | Zone 1 | Zone 2 | Zone 3 | Zone 4 | Zone 5 | Zone 6 | Zone 7 |
| Name | | | | | | | |
| Type | active | swalk | active | swalk | active | swalk | active |
| Curbside frontage (feet) | 140 | 20 | 140 | 20 | 250 | 20 | 200 |
| Number of lanes | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Number of approach lanes | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Volume of vehicles using roadway (vph) | | | | | | | |
| Private Vehicle (staging) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Private Vehicle (pickup) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TNC (pickup) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Private Vehicle (drop) | 513 | 513 | 513 | 513 | 513 | 513 | 513 |
| Taxi (drop) | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| TNC (drop) | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
| Airport Parking Shuttle (drop) | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| Rental Car Shuttle (drop) | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Hotel Shuttle (drop) | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Other | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Volume of vehicles using curbside (vph) | | | | | | | |
| Private Vehicle (staging) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Private Vehicle (pickup) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TNC (pickup) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Private Vehicle (drop) | 257 | 0 | 256 | 0 | 0 | 0 | 0 |
| Taxi (drop) | 4 | 0 | 4 | 0 | 0 | 0 | 0 |
| TNC (drop) | 7 | 0 | 6 | 0 | 0 | 0 | 0 |
| Airport Parking Shuttle (drop) | 6 | 0 | 6 | 0 | 0 | 0 | 0 |
| Rental Car Shuttle (drop) | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| Hotel Shuttle (drop) | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| Other | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Outputs

Quick Analysis Tool for Airport Roadways

QATAR v0.6 developed by LeighFisher in association with Dowling Associates, Inc.

Results: Detailed Report By Zone

Model run by: Kimley-Horn on 6/5/2018

| ID | Zone 1 | Zone 2 | Zone 3 | Zone 4 | Zone 5 | Zone 6 | Zone 7 |
|---|-------------|-------------|-------------|-------------|-------------|----------|----------|
| Name | | | | | | | |
| Type of zone | active | xwalk | active | xwalk | active | xwalk | active |
| Curbside length (feet) | 140 | 20 | 140 | 20 | 250 | 20 | 200 |
| Number of lanes | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Number of approach lanes | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Roadway volume (vph) | 550 | 550 | 550 | 550 | 550 | 550 | 550 |
| Curbside demand (vph) | 276 | - | 274 | - | - | - | - |
| Average dwell time (minutes) | 1.155652174 | 0 | 1.156459854 | 0 | - | - | - |
| Average vehicle length (feet) | 25.14492754 | 0 | 25.1459854 | 0 | 0 | - | - |
| Average vehicle arrival rate (vph) | 276 | 0 | 274 | 0 | 0 | - | - |
| Estimated service rate | 51.91873589 | 0 | 51.88247546 | 0 | 0 | 0.00E+00 | 0.00E+00 |
| Derived number of servers | 22 | 0 | 22 | 0 | 0 | - | - |
| Utilization factor | 0.241636364 | 0 | 0.24005303 | 0 | 0 | - | - |
| Utilization ratio | 5.316 | 0 | 5.281166667 | 0 | 0 | 0.0% | 0.0% |
| Idle probability | 0.004912364 | 0 | 0.005086493 | 0 | 1 | 0.0% | 100.0% |
| 95th percentile vehicles in system | 9 | | 9 | | 0 | | 0.0% |
| 95th percentile queue length | 0 | | 0 | | 0 | | 0.0% |
| % utilization | 0.409090909 | | 0.409090909 | | | | |
| % of 1st lane full when next vehicle double parks | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.500 | 0.500 |
| % of 2nd lane full when next vehicle triple parks | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.750 | 0.750 |
| Crosswalk adjustment factor | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.900 | 0.900 |
| Regional adjustment factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Through lane roadway capacity | 2491.117726 | 2850 | 2491.117726 | 2850 | 2850 | 2,850.00 | 2,850.00 |
| Adjusted through lane roadway capacity | 2122.237996 | 2436.75 | 2122.237996 | 2436.75 | 2427.9777 | 2,436.75 | 2,427.98 |
| Estimated roadway V/C ratio | 0.259160377 | 0.225710475 | 0.259160377 | 0.225710475 | 0.226525969 | 0.226 | 0.227 |
| Curb capacity per lane (vehicles) | 6 | 0 | 6 | 0 | 0 | 0 | 0 |
| Curb utilization ratio | 1.5 | 0 | 1.5 | 0 | 0 | 0 | 0 |
| % occupancy in lane 1 | 0.995 | 0 | 0.995 | 0 | 0 | 0 | 0 |
| % occupancy in lane 2 | 0.495 | 0 | 0.495 | 0 | 0 | 0 | 0 |
| % occupancy in lane 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| # of cars in curbside lane | 5.97 | 0 | 5.97 | 0 | 0 | 0 | 0 |
| # of double-parked cars | 2.97 | 0 | 2.97 | 0 | 0 | 0 | 0 |
| # of triple-parked cars | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Curbside LOS | D | D | D | A | | | A |
| Roadway LOS | B | A | B | A | | A | A |

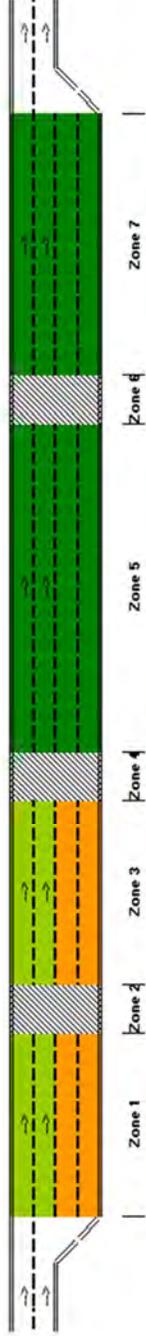
Quick Analysis Tool for Airport Roadways

QATAR v0.6 developed by LeighFisher in association with Dowling Associates, Inc.

Results: Level-of-Service by Zone

Model run by: Kimley-Horn on 6/5/2018

Airport: Terminal 1
 Roadway location: Mixed
 Scenario: 4 / 2
 Level / Type of roadway: 7
 Total lanes / approach lanes:
 Number of curbside zones:



| Zone ID | Name/description | Curb length (feet) | Zone type | Roadway volume (vph) | Roadway capacity (vph) | Roadway V/C ratio | Roadway LOS | Curb demand (# in sys 95% of time) | Curb capacity per lane (vehicles) | Curb utilization ratio | Curb LOS |
|---------|------------------|--------------------|-----------|----------------------|------------------------|-------------------|-------------|------------------------------------|-----------------------------------|------------------------|----------|
| Zone 1 | 140 active | 140 | active | 550 | 2,122 | 0.259 | B | 9.0 | 6.0 | 1.500 | D |
| Zone 2 | 20 xwalk | 20 | xwalk | 550 | 2,437 | 0.226 | A | N/A | N/A | N/A | N/A |
| Zone 3 | 140 active | 140 | active | 550 | 2,122 | 0.259 | B | 9.0 | 6.0 | 1.500 | D |
| Zone 4 | 20 xwalk | 20 | xwalk | 550 | 2,437 | 0.226 | A | N/A | N/A | N/A | N/A |
| Zone 5 | 250 active | 250 | active | 550 | 2,428 | 0.227 | A | 0.0 | 0.0 | 0.000 | A |
| Zone 6 | 20 xwalk | 20 | xwalk | 550 | 2,437 | 0.226 | A | N/A | N/A | N/A | N/A |
| Zone 7 | 200 active | 200 | active | 550 | 2,428 | 0.227 | A | 0.0 | 0.0 | 0.000 | A |

Level-of-service (LOS) key:



PAL 1 - Midday

Inputs

Quick Analysis Tool for Airport Roadways
 QATAR v0.6 developed by LeighFisher in association with Dowling Associates, Inc.

Summary of Inputs and Assumptions
 Model run by: Kimley-Horn on 6/5/2018

| | |
|---|------------|
| Airport | PIE |
| Roadway location | Terminal 1 |
| Scenario | |
| Level / type of roadway | Mixed |
| Total lanes / approach lanes | 4 / 2 |
| Number of curbside zones | 7 |
| % of 1st lane full when next vehicle double parks | 0.5 |
| % of 2nd lane full when next vehicle triple parks | 0.75 |
| Crosswalk adjustment factor | 0.9 |
| Regional adjustment factor | 0.95 |

Frontage and dwell time per curbside operation

| Vehicle class | Vehicle parkin | Average dwell time (minutes) |
|--------------------------------|----------------|------------------------------|
| Private Vehicle (staging) | 25 | 6.12 |
| Private Vehicle (pickup) | 25 | 1.17 |
| TNC (pickup) | 25 | 0.75 |
| Private Vehicle (drop) | 25 | 1.17 |
| Taxi (drop) | 25 | 1.02 |
| TNC (drop) | 25 | 0.92 |
| Airport Parking Shuttle (drop) | 30 | 0.82 |
| Rental Car Shuttle (drop) | 30 | 1.3 |
| Hotel Shuttle (drop) | 30 | 1.53 |
| Other | 30 | 3.5 |

Assumptions by zone

| Zone ID | Zone 1 | Zone 2 | Zone 3 | Zone 4 | Zone 5 | Zone 6 | Zone 7 |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|
| Name | | | | | | | |
| Type | active | swalk | active | swalk | active | swalk | active |
| Curbside frontage (feet) | 140 | 20 | 140 | 20 | 250 | 20 | 200 |
| Number of lanes | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Number of approach lanes | 2 | 2 | 2 | 2 | 2 | 2 | 2 |

Volume of vehicles using roadway (vph)

| | | | | | | | |
|--------------------------------|-----|-----|-----|-----|-----|-----|-----|
| Private Vehicle (staging) | 23 | 23 | 23 | 23 | 23 | 23 | 23 |
| Private Vehicle (pickup) | 148 | 148 | 148 | 148 | 148 | 148 | 148 |
| TNC (pickup) | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Private Vehicle (drop) | 399 | 399 | 399 | 399 | 399 | 399 | 399 |
| Taxi (drop) | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| TNC (drop) | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Airport Parking Shuttle (drop) | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
| Rental Car Shuttle (drop) | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Hotel Shuttle (drop) | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Other | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Volume of vehicles using curbside (vph)

| | | | | | | | |
|--------------------------------|-----|---|-----|---|----|---|-----|
| Private Vehicle (staging) | 0 | 0 | 0 | 0 | 21 | 0 | 0 |
| Private Vehicle (pickup) | 0 | 0 | 0 | 0 | 0 | 0 | 137 |
| TNC (pickup) | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| Private Vehicle (drop) | 200 | 0 | 199 | 0 | 0 | 0 | 0 |
| Taxi (drop) | 5 | 0 | 4 | 0 | 0 | 0 | 0 |
| TNC (drop) | 5 | 0 | 5 | 0 | 0 | 0 | 0 |
| Airport Parking Shuttle (drop) | 7 | 0 | 6 | 0 | 0 | 0 | 0 |
| Rental Car Shuttle (drop) | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| Hotel Shuttle (drop) | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| Other | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Outputs

Quick Analysis Tool for Airport Roadways

QATAR v0.6 developed by LeighFisher in association with Dowling Associates, Inc.

Results: Detailed Report By Zone

Model run by: Kimley-Horn on 6/5/2018

| ID | Zone 1 | Zone 2 | Zone 3 | Zone 4 | Zone 5 | Zone 6 | Zone 7 |
|---|-------------|-------------|-------------|-------------|-------------|----------|----------|
| Name | | | | | | | |
| Type of zone | active | xwalk | active | xwalk | active | xwalk | active |
| Curbside length (feet) | 140 | 20 | 140 | 20 | 250 | 20 | 200 |
| Number of lanes | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Number of approach lanes | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Roadway volume (vph) | 610 | 610 | 610 | 610 | 610 | 610 | 610 |
| Curbside demand (vph) | 219 | - | 216 | - | 21 | - | 141 |
| Average dwell time (minutes) | 1.151917808 | 0 | 1.153981481 | 0 | 6 | - | 1 |
| Average vehicle length (feet) | 25.20547945 | 0 | 25.18518519 | 0 | 25 | - | 25.00 |
| Average vehicle arrival rate (vph) | 219 | 0 | 216 | 0 | 21 | - | 141.00 |
| Estimated service rate | 52.08704959 | 0 | 51.99390195 | 0 | 9.803921569 | 0.00E+00 | 5.18E+01 |
| Derived number of servers | 22 | 0 | 22 | 0 | 40 | - | 32.00 |
| Utilization factor | 0.191113636 | 0 | 0.188833333 | 0 | 0.05355 | - | 0.09 |
| Utilization ratio | 4.2045 | 0 | 4.154333333 | 0 | 2.142 | 0.0% | 272.2% |
| Idle probability | 0.014928248 | 0 | 0.015696252 | 0 | 0.117419768 | 0.0% | 6.6% |
| 95th percentile vehicles in system | 8 | | 8 | | 5 | | 600.0% |
| 95th percentile queue length | 0 | | 0 | | 0 | | 0.0% |
| % utilization | 0.363636364 | | 0.363636364 | | 0.125 | | 0.188 |
| % of 1st lane full when next vehicle double parks | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.500 | 0.500 |
| % of 2nd lane full when next vehicle triple parks | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.750 | 0.750 |
| Crosswalk adjustment factor | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.900 | 0.900 |
| Regional adjustment factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Through lane roadway capacity | 2647.689141 | 2850 | 2647.689141 | 2850 | 2854.066986 | 2,850.00 | 2,865.06 |
| Adjusted through lane roadway capacity | 2255.624628 | 2436.75 | 2255.624628 | 2436.75 | 2431.442455 | 2,436.75 | 2,440.81 |
| Estimated roadway V/C ratio | 0.270435068 | 0.250333436 | 0.270435068 | 0.250333436 | 0.250879884 | 0.250 | 0.250 |
| Curb capacity per lane (vehicles) | 6 | 0 | 6 | 0 | 10 | 0 | 8 |
| Curb utilization ratio | 1.333333333 | 0 | 1.333333333 | 0 | 0.5 | 0 | 0.75 |
| % occupancy in lane 1 | 0.915 | 0 | 0.915 | 0 | 0.49 | 0 | 0.62 |
| % occupancy in lane 2 | 0.415 | 0 | 0.415 | 0 | 0 | 0 | 0.12 |
| % occupancy in lane 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| # of cars in curbside lane | 5.49 | 0 | 5.49 | 0 | 4.9 | 0 | 4.96 |
| # of double-parked cars | 2.49 | 0 | 2.49 | 0 | 0 | 0 | 0.96 |
| # of triple-parked cars | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Curbside LOS | D | | D | | A | | A |
| Roadway LOS | B | B | B | B | B | B | A |

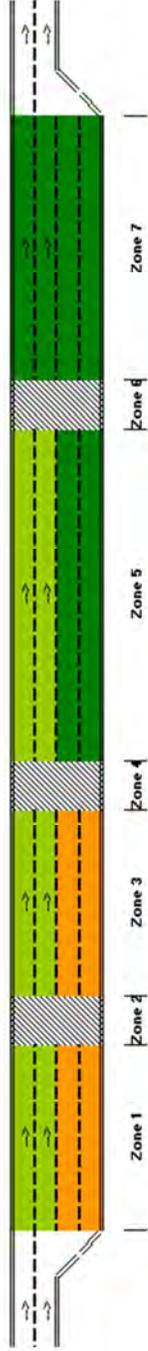
Quick Analysis Tool for Airport Roadways

QATAR v0.6 developed by LeighFisher in association with Dowling Associates, Inc.

Results: Level-of-Service by Zone

Model run by: Kimley-Horn on 6/5/2018

Airport: Terminal 1
 Roadway location: Mixed
 Scenario: 4 / 2
 Level / type of roadway: 7
 Total lanes / approach lanes:
 Number of curbside zones:



| Zone ID | Name/description | Curb length (feet) | Zone type | Roadway volume (vph) | Roadway capacity (vph) | Roadway V/C ratio | Roadway LOS | Curb demand (# in sys 95% of time) | Curb capacity per lane (vehicles) | Curb utilization ratio | Curb LOS |
|---------|------------------|--------------------|-----------|----------------------|------------------------|-------------------|-------------|------------------------------------|-----------------------------------|------------------------|----------|
| Zone 1 | | 140 | active | 610 | 2,256 | 0.270 | B | 8.0 | 6.0 | 1.333 | D |
| Zone 2 | | 20 | xwalk | 610 | 2,437 | 0.250 | B | N/A | N/A | N/A | N/A |
| Zone 3 | | 140 | active | 610 | 2,256 | 0.270 | B | 8.0 | 6.0 | 1.333 | D |
| Zone 4 | | 20 | xwalk | 610 | 2,437 | 0.250 | B | N/A | N/A | N/A | N/A |
| Zone 5 | | 250 | active | 610 | 2,431 | 0.251 | B | 5.0 | 10.0 | 0.500 | A |
| Zone 6 | | 20 | xwalk | 610 | 2,437 | 0.250 | B | N/A | N/A | N/A | N/A |
| Zone 7 | | 200 | active | 610 | 2,441 | 0.250 | A | 6.0 | 8.0 | 0.750 | A |

Level-of-service (LOS) key:



PAL 1 - PM

Inputs

Quick Analysis Tool for Airport Roadways

QATAR v0.6 developed by LeighFisher in association with Dowling Associates, Inc.

Summary of Inputs and Assumptions

Model run by: Kimley-Horn on 6/5/2018

| | |
|---|------------|
| Airport | PIE |
| Roadway location | Terminal 1 |
| Scenario | |
| Level / type of roadway | Mixed |
| Total lanes / approach lanes | 4 / 2 |
| Number of curbside zones | 7 |
| % of 1st lane full when next vehicle double park | 0.5 |
| % of 2nd lane full when next vehicle triple parks | 0.75 |
| Crosswalk adjustment factor | 0.9 |
| Regional adjustment factor | 0.95 |

Frontage and dwell time per curbside operation

| Vehicle class | Vehicle park | Average dwell time (minutes) |
|--------------------------------|--------------|------------------------------|
| Private Vehicle (staging) | 25 | 6.12 |
| Private Vehicle (pickup) | 25 | 1.17 |
| TNC (pickup) | 25 | 0.75 |
| Private Vehicle (drop) | 25 | 1.17 |
| Taxi (drop) | 25 | 1.02 |
| TNC (drop) | 25 | 0.92 |
| Airport Parking Shuttle (drop) | 30 | 0.82 |
| Rental Car Shuttle (drop) | 30 | 1.3 |
| Hotel Shuttle (drop) | 30 | 1.53 |
| Other | 30 | 3.5 |

Assumptions by zone

| Zone ID | Zone 1 | Zone 2 | Zone 3 | Zone 4 | Zone 5 | Zone 6 | Zone 7 |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|
| Name | | | | | | | |
| Type | active | swalk | active | swalk | active | swalk | active |
| Curbside frontage (feet) | 140 | 20 | 140 | 20 | 250 | 20 | 200 |
| Number of lanes | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Number of approach lanes | 2 | 2 | 2 | 2 | 2 | 2 | 2 |

Volume of vehicles using roadway (vph)

| | | | | | | | |
|--------------------------------|-----|-----|-----|-----|-----|-----|-----|
| Private Vehicle (staging) | 49 | 49 | 49 | 49 | 49 | 49 | 49 |
| Private Vehicle (pickup) | 316 | 316 | 316 | 316 | 316 | 316 | 316 |
| TNC (pickup) | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| Private Vehicle (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Taxi (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TNC (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Airport Parking Shuttle (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rental Car Shuttle (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hotel Shuttle (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Volume of vehicles using curbside (vph)

| | | | | | | | |
|--------------------------------|---|---|---|---|----|---|-----|
| Private Vehicle (staging) | 0 | 0 | 0 | 0 | 44 | 0 | 0 |
| Private Vehicle (pickup) | 0 | 0 | 0 | 0 | 0 | 0 | 284 |
| TNC (pickup) | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| Private Vehicle (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Taxi (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TNC (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Airport Parking Shuttle (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rental Car Shuttle (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hotel Shuttle (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Outputs

Quick Analysis Tool for Airport Roadways

QATAR v0.6 developed by LeighFisher in association with Dowling Associates, Inc.

Results: Detailed Report By Zone

Model run by: Kimley-Horn on 6/5/2018

| ID | Zone 1 | Zone 2 | Zone 3 | Zone 4 | Zone 5 | Zone 6 | Zone 7 |
|--|-------------|-------------|-------------|-------------|-------------|----------|----------|
| Name | | | | | | | |
| Type of zone | active | xwalk | active | xwalk | active | xwalk | active |
| Curbside length (feet) | 140 | 20 | 140 | 20 | 250 | 20 | 200 |
| Number of lanes | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Number of approach lanes | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Roadway volume (vph) | 374 | 374 | 374 | 374 | 374 | 374 | 374 |
| Curbside demand (vph) | - | - | - | - | 44 | - | 293 |
| Average dwell time (minutes) | 0 | 0 | 0 | 0 | 6 | - | 1 |
| Average vehicle length (feet) | 0 | 0 | 0 | 0 | 25 | - | 25.00 |
| Average vehicle arrival rate (vph) | 0 | 0 | 0 | 0 | 44 | - | 293.00 |
| Estimated service rate | 0 | 0 | 0 | 0 | 9.803921569 | 0.00E+00 | 5.19E+01 |
| Derived number of servers | 0 | 0 | 0 | 0 | 40 | - | 32.00 |
| Utilization factor | 0 | 0 | 0 | 0 | 0.1122 | - | 0.18 |
| Utilization ratio | 0 | 0 | 0 | 0 | 4.488 | 0.0% | 565.1% |
| Idle probability | 1 | 0 | 1 | 0 | 0.011243108 | 0.0% | 0.4% |
| 95th percentile vehicles in system | 0 | | 0 | | 8 | | 1000.0% |
| 95th percentile queue length | 0 | | 0 | | 0 | | 0.0% |
| % utilization | | | | | 0.2 | | 0.313 |
| % of 1st lane full when next vehicle double park | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.500 | 0.500 |
| % of 2nd lane full when next vehicle triple park | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.750 | 0.750 |
| Crosswalk adjustment factor | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.900 | 0.900 |
| Regional adjustment factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Through lane roadway capacity | 2850 | 2850 | 2850 | 2850 | 2862.298219 | 2,850.00 | 2,705.68 |
| Adjusted through lane roadway capacity | 2427.9777 | 2436.75 | 2427.9777 | 2436.75 | 2438.454824 | 2,436.75 | 2,305.03 |
| Estimated roadway V/C ratio | 0.154037659 | 0.153483123 | 0.154037659 | 0.153483123 | 0.153375817 | 0.153 | 0.162 |
| Curb capacity per lane (vehicles) | 0 | 0 | 0 | 0 | 10 | 0 | 8 |
| Curb utilization ratio | 0 | 0 | 0 | 0 | 0.8 | 0 | 1.25 |
| % occupancy in lane 1 | 0 | 0 | 0 | 0 | 0.645 | 0 | 0.87 |
| % occupancy in lane 2 | 0 | 0 | 0 | 0 | 0.145 | 0 | 0.37 |
| % occupancy in lane 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| # of cars in curbside lane | 0 | 0 | 0 | 0 | 6.45 | 0 | 6.96 |
| # of double-parked cars | 0 | 0 | 0 | 0 | 1.45 | 0 | 2.96 |
| # of triple-parked cars | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Curbside LOS | A | A | A | A | A | A | C |
| Roadway LOS | A | A | A | A | A | A | A |

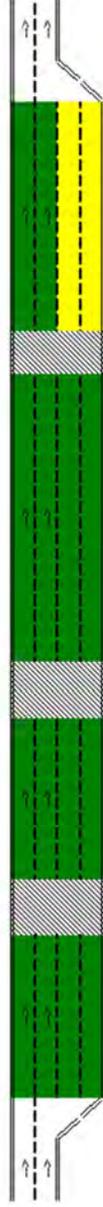
Quick Analysis Tool for Airport Roadways

QATAR v0.6 developed by LeighFisher in association with Dowling Associates, Inc.

Results: Level-of-Service by Zone

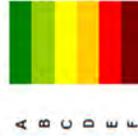
Model run by: Kimley-Horn on 8/5/2018

| | |
|------------------------------|------------|
| Airport | PIE |
| Roadway location | Terminal 1 |
| Scenario | Mixed |
| Level / type of roadway | 4 / 2 |
| Total lanes / approach lanes | 7 |
| Number of curbside zones | 7 |



| Zone ID | Zone 1 | Zone 2 | Zone 3 | Zone 4 | Zone 5 | Zone 6 | Zone 7 |
|------------------------------------|--------|--------|--------|--------|--------|--------|--------|
| Name/description | 140 | 20 | 140 | 20 | 250 | 20 | 200 |
| Curb length (feet) | active | xwalk | active | xwalk | active | k | active |
| Zone type | | | | | | | |
| Roadway volume (vph) | 374 | 374 | 374 | 374 | 374 | 374 | 374 |
| Roadway capacity (vph) | 2,428 | 2,437 | 2,428 | 2,437 | 2,438 | 2,437 | 2,305 |
| Roadway V/C ratio | 0.154 | 0.153 | 0.154 | 0.153 | 0.153 | 0.153 | 0.162 |
| Roadway LOS | A | A | A | A | A | A | A |
| Curb demand (# in sys 95% of time) | 0.0 | N/A | 0.0 | N/A | 8.0 | N/A | 10.0 |
| Curb capacity per lane (vehicles) | 0.0 | N/A | 0.0 | N/A | 10.0 | N/A | 8.0 |
| Curb utilization ratio | 0.000 | N/A | 0.000 | N/A | 0.800 | N/A | 1.250 |
| Curb LOS | A | N/A | A | N/A | A | N/A | C |

Level-of-service (LOS) Key:



PAL 2 - AM

Inputs

Quick Analysis Tool for Airport Roadways
QATAR v0.6 developed by LeighFisher in association with Dowling Associates, Inc.

Summary of Inputs and Assumptions
Model run by: Kimley-Horn on 6/5/2018

| | |
|---|------------|
| Airport | PIE |
| Roadway location | Terminal 1 |
| Scenario | |
| Level / type of roadway | Mixed |
| Total lanes / approach lanes | 4 / 2 |
| Number of curbside zones | 7 |
| % of 1st lane full when next vehicle double park | 0.5 |
| % of 2nd lane full when next vehicle triple park: | 0.75 |
| Crosswalk adjustment factor | 0.9 |
| Regional adjustment factor | 0.95 |

Frontage and dwell time per curbside operation

| Vehicle class | Vehicle part | Average dwell time (minutes) |
|--------------------------------|--------------|------------------------------|
| Private Vehicle (staging) | 25 | 6.12 |
| Private Vehicle (pickup) | 25 | 1.17 |
| TNC (pickup) | 25 | 0.75 |
| Private Vehicle (drop) | 25 | 1.17 |
| Taxi (drop) | 25 | 1.02 |
| TNC (drop) | 25 | 0.92 |
| Airport Parking Shuttle (drop) | 30 | 0.82 |
| Rental Car Shuttle (drop) | 30 | 1.3 |
| Hotel Shuttle (drop) | 30 | 1.53 |
| Other | 30 | 3.5 |

Assumptions by zone

| Zone ID | Zone 1 | Zone 2 | Zone 3 | Zone 4 | Zone 5 | Zone 6 | Zone 7 |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|
| Name | | | | | | | |
| Type | active | walk | active | walk | active | walk | active |
| Curbside frontage (feet) | 140 | 20 | 140 | 20 | 250 | 20 | 200 |
| Number of lanes | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Number of approach lanes | 2 | 2 | 2 | 2 | 2 | 2 | 2 |

Volume of vehicles using roadway (vph)

| | | | | | | | |
|--------------------------------|-----|-----|-----|-----|-----|-----|-----|
| Private Vehicle (staging) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Private Vehicle (pickup) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TNC (pickup) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Private Vehicle (drop) | 590 | 590 | 590 | 590 | 590 | 590 | 590 |
| Taxi (drop) | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| TNC (drop) | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| Airport Parking Shuttle (drop) | 14 | 14 | 14 | 14 | 14 | 14 | 14 |
| Rental Car Shuttle (drop) | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Hotel Shuttle (drop) | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Other | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Volume of vehicles using curbside (vph)

| | | | | | | | |
|--------------------------------|-----|---|-----|---|---|---|---|
| Private Vehicle (staging) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Private Vehicle (pickup) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TNC (pickup) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Private Vehicle (drop) | 295 | 0 | 295 | 0 | 0 | 0 | 0 |
| Taxi (drop) | 5 | 0 | 5 | 0 | 0 | 0 | 0 |
| TNC (drop) | 8 | 0 | 7 | 0 | 0 | 0 | 0 |
| Airport Parking Shuttle (drop) | 7 | 0 | 7 | 0 | 0 | 0 | 0 |
| Rental Car Shuttle (drop) | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| Hotel Shuttle (drop) | 2 | 0 | 1 | 0 | 0 | 0 | 0 |
| Other | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Outputs

Quick Analysis Tool for Airport Roadways

QATAR v0.6 developed by LeighFisher in association with Dowling Associates, Inc.

Results: Detailed Report By Zone

Model run by: Kimley-Horn on 6/5/2018

| ID | Zone 1 | Zone 2 | Zone 3 | Zone 4 | Zone 5 | Zone 6 | Zone 7 |
|--|------------|-----------|------------|-----------|------------|----------|----------|
| Name | | | | | | | |
| Type of zone | active | xwalk | active | xwalk | active | xwalk | active |
| Curbside length (feet) | 140 | 20 | 140 | 20 | 250 | 20 | 200 |
| Number of lanes | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Number of approach lanes | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Roadway volume (vph) | 634 | 634 | 634 | 634 | 634 | 634 | 634 |
| Curbside demand (vph) | 318 | - | 316 | - | - | - | - |
| Average dwell time (minutes) | 1.15632075 | 0 | 1.15588608 | 0 | - | - | - |
| Average vehicle length (feet) | 25.1572327 | 0 | 25.1424051 | 0 | 0 | - | - |
| Average vehicle arrival rate (vph) | 318 | 0 | 316 | 0 | 0 | - | - |
| Estimated service rate | 51.8887167 | 0 | 51.9082298 | 0 | 0 | 0.00E+00 | 0.00E+00 |
| Derived number of servers | 22 | 0 | 22 | 0 | 0 | - | - |
| Utilization factor | 0.27856818 | 0 | 0.27671212 | 0 | 0 | - | - |
| Utilization ratio | 6.1285 | 0 | 6.08766667 | 0 | 0 | 0.0% | 0.0% |
| Idle probability | 0.00217985 | 0 | 0.0022707 | 0 | 1 | 0.0% | 100.0% |
| 95th percentile vehicles in system | 10 | | 10 | | 0 | | 0.0% |
| 95th percentile queue length | 0 | | 0 | | 0 | | 0.0% |
| % utilization | 0.45454545 | | 0.45454545 | | | | |
| % of 1st lane full when next vehicle double p | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.500 | 0.500 |
| % of 2nd lane full when next vehicle triple pa | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.750 | 0.750 |
| Crosswalk adjustment factor | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.900 | 0.900 |
| Regional adjustment factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Through lane roadway capacity | 2302.85179 | 2850 | 2302.85179 | 2850 | 2850 | 2,850.00 | 2,850.00 |
| Adjusted through lane roadway capacity | 1961.8501 | 2436.75 | 1961.8501 | 2436.75 | 2427.9777 | 2,436.75 | 2,427.98 |
| Estimated roadway V/C ratio | 0.32316434 | 0.2601826 | 0.32316434 | 0.2601826 | 0.26112266 | 0.260 | 0.261 |
| Curb capacity per lane (vehicles) | 6 | 0 | 6 | 0 | 0 | 0 | 0 |
| Curb utilization ratio | 1.66666667 | 0 | 1.66666667 | 0 | 0 | 0 | 0 |
| % occupancy in lane 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| % occupancy in lane 2 | 0.66 | 0 | 0.66 | 0 | 0 | 0 | 0 |
| % occupancy in lane 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| # of cars in curbside lane | 6 | 0 | 6 | 0 | 0 | 0 | 0 |
| # of double-parked cars | 3.96 | 0 | 3.96 | 0 | 0 | 0 | 0 |
| # of triple-parked cars | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Curbside LOS | D | | D | | A | | A |
| Roadway LOS | B | B | B | B | B | B | B |

Quick Analysis Tool for Airport Roadways

QATAR v0.6 developed by LeighFisher in association with Dowling Associates, Inc.

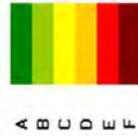
Results: Level-of-Service by Zone
 Model run by: Kimley-Horn on 6/5/2018

Airport: **PIE**
 Roadway location: **Terminal 1**
 Scenario: **Mixed**
 Level / type of roadway: **412**
 Total lanes / approach lanes: **7**
 Number of curbside zones: **7**



| Zone ID | Zone 1 | Zone 2 | Zone 3 | Zone 4 | Zone 5 | Zone 6 | Zone 7 |
|------------------------------------|--------|--------|--------|--------|--------|--------|--------|
| Name/description | 140 | 20 | 140 | 20 | 250 | 20 | 200 |
| Curb length (feet) | active | xwal | active | xwal | active | xwal | active |
| Zone type | active | k | active | k | active | k | active |
| Roadway volume (vph) | 634 | 634 | 634 | 634 | 634 | 634 | 634 |
| Roadway capacity (vph) | 1,962 | 2,437 | 1,962 | 2,437 | 2,428 | 2,437 | 2,428 |
| Roadway V/C ratio | 0.323 | 0.260 | 0.323 | 0.260 | 0.261 | 0.260 | 0.261 |
| Roadway LOS | B | B | B | B | B | B | B |
| Curb demand (# in sys 95% of time) | 10.0 | N/A | 10.0 | N/A | 0.0 | N/A | 0.0 |
| Curb capacity per lane (vehicles) | 6.0 | N/A | 6.0 | N/A | 0.0 | N/A | 0.0 |
| Curb utilization ratio | 1.667 | N/A | 1.667 | N/A | 0.000 | N/A | 0.000 |
| Curb LOS | D | N/A | D | N/A | A | N/A | A |

Level-of-service (LOS) key.



PAL 2 - Midday

Inputs

Quick Analysis Tool for Airport Roadways
QATAR v0.6 developed by LeighFisher in association with Dowling Associates, Inc.

Summary of Inputs and Assumptions
Model run by: Kimley-Horn on 6/5/2018

| | |
|--|------------|
| Airport | PIE |
| Roadway location | Terminal 1 |
| Scenario | |
| Level / type of roadway | Mixed |
| Total lanes / approach lanes | 4 / 2 |
| Number of curbside zones | 7 |
| % of 1st lane full when next vehicle double p | 0.5 |
| % of 2nd lane full when next vehicle triple pa | 0.75 |
| Crosswalk adjustment factor | 0.9 |
| Regional adjustment factor | 0.95 |

Frontage and dwell time per curbside operation

| Vehicle class | Vehicle parking length | Average dwell time (minutes) |
|--------------------------------|------------------------|------------------------------|
| Private Vehicle (staging) | 25 | 6.12 |
| Private Vehicle (pickup) | 25 | 1.17 |
| TNC (pickup) | 25 | 0.75 |
| Private Vehicle (drop) | 25 | 1.17 |
| Taxi (drop) | 25 | 1.02 |
| TNC (drop) | 25 | 0.92 |
| Airport Parking Shuttle (drop) | 30 | 0.82 |
| Rental Car Shuttle (drop) | 30 | 1.3 |
| Hotel Shuttle (drop) | 30 | 1.53 |
| Other | 30 | 3.5 |

Assumptions by zone

| Zone ID | Zone 1 | Zone 2 | Zone 3 | Zone 4 | Zone 5 | Zone 6 | Zone 7 |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|
| Name | | | | | | | |
| Type | active | swalk | active | swalk | active | swalk | active |
| Curbside frontage (feet) | 140 | 20 | 140 | 20 | 250 | 20 | 200 |
| Number of lanes | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Number of approach lanes | 2 | 2 | 2 | 2 | 2 | 2 | 2 |

Volume of vehicles using roadway (vph)

| | | | | | | | |
|--------------------------------|-----|-----|-----|-----|-----|-----|-----|
| Private Vehicle (staging) | 28 | 28 | 28 | 28 | 28 | 28 | 28 |
| Private Vehicle (pickup) | 176 | 176 | 176 | 176 | 176 | 176 | 176 |
| TNC (pickup) | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Private Vehicle (drop) | 476 | 476 | 476 | 476 | 476 | 476 | 476 |
| Taxi (drop) | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
| TNC (drop) | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| Airport Parking Shuttle (drop) | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| Rental Car Shuttle (drop) | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Hotel Shuttle (drop) | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Other | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Volume of vehicles using curbside (vph)

| | | | | | | | |
|--------------------------------|-----|---|-----|---|----|---|-----|
| Private Vehicle (staging) | 0 | 0 | 0 | 0 | 26 | 0 | 0 |
| Private Vehicle (pickup) | 0 | 0 | 0 | 0 | 0 | 0 | 163 |
| TNC (pickup) | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| Private Vehicle (drop) | 238 | 0 | 238 | 0 | 0 | 0 | 0 |
| Taxi (drop) | 6 | 0 | 5 | 0 | 0 | 0 | 0 |
| TNC (drop) | 6 | 0 | 6 | 0 | 0 | 0 | 0 |
| Airport Parking Shuttle (drop) | 8 | 0 | 8 | 0 | 0 | 0 | 0 |
| Rental Car Shuttle (drop) | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| Hotel Shuttle (drop) | 2 | 0 | 1 | 0 | 0 | 0 | 0 |
| Other | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Outputs

Quick Analysis Tool for Airport Roadways

QATAR v0.6 developed by LeighFisher in association with Dowling Associates, Inc.

Results: Detailed Report By Zone

Model run by: Kimley-Horn on 6/5/2018

| ID | Zone 1 | Zone 2 | Zone 3 | Zone 4 | Zone 5 | Zone 6 | Zone 7 |
|---|-------------|-------------|-------------|-------------|-------------|----------|----------|
| Name | | | | | | | |
| Type of zone | active | xwalk | active | xwalk | active | xwalk | active |
| Curbside length (feet) | 140 | 20 | 140 | 20 | 250 | 20 | 200 |
| Number of lanes | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Number of approach lanes | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Roadway volume (vph) | 729 | 729 | 729 | 729 | 729 | 729 | 729 |
| Curbside demand (vph) | 261 | - | 259 | - | 26 | - | 168 |
| Average dwell time (minutes) | 1.153333333 | 0 | 1.152393822 | 0 | 6 | - | 1 |
| Average vehicle length (feet) | 25.21072797 | 0 | 25.19305019 | 0 | 25 | - | 25.00 |
| Average vehicle arrival rate (vph) | 261 | 0 | 259 | 0 | 26 | - | 168.00 |
| Estimated service rate | 52.02312139 | 0 | 52.06553422 | 0 | 9.803921569 | 0.00E+00 | 5.18E+01 |
| Derived number of servers | 22 | 0 | 22 | 0 | 40 | - | 32.00 |
| Utilization factor | 0.228045455 | 0 | 0.226113636 | 0 | 0.0663 | - | 0.10 |
| Utilization ratio | 5.017 | 0 | 4.9745 | 0 | 2.652 | 0.0% | 324.1% |
| Idle probability | 0.00662437 | 0 | 0.006911974 | 0 | 0.070510052 | 0.0% | 3.9% |
| 95th percentile vehicles in system | 9 | | 9 | | 6 | | 600.0% |
| 95th percentile queue length | 0 | | 0 | | 0 | | 0.0% |
| % utilization | 0.409090909 | | 0.409090909 | | 0.15 | | 0.188 |
| % of 1st lane full when next vehicle double p | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.500 | 0.500 |
| % of 2nd lane full when next vehicle triple p | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.750 | 0.750 |
| Crosswalk adjustment factor | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.900 | 0.900 |
| Regional adjustment factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Through lane roadway capacity | 2491.117726 | 2850 | 2491.117726 | 2850 | 2862.11283 | 2,850.00 | 2,865.06 |
| Adjusted through lane roadway capacity | 2122.237996 | 2436.75 | 2122.237996 | 2436.75 | 2438.296887 | 2,436.75 | 2,440.81 |
| Estimated roadway V/C ratio | 0.3435053 | 0.299168975 | 0.3435053 | 0.299168975 | 0.298979178 | 0.299 | 0.299 |
| Curb capacity per lane (vehicles) | 6 | 0 | 6 | 0 | 10 | 0 | 8 |
| Curb utilization ratio | 1.5 | 0 | 1.5 | 0 | 0.6 | 0 | 0.75 |
| % occupancy in lane 1 | 0.995 | 0 | 0.995 | 0 | 0.545 | 0 | 0.62 |
| % occupancy in lane 2 | 0.495 | 0 | 0.495 | 0 | 0.045 | 0 | 0.12 |
| % occupancy in lane 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| # of cars in curbside lane | 5.97 | 0 | 5.97 | 0 | 5.45 | 0 | 4.96 |
| # of double-parked cars | 2.97 | 0 | 2.97 | 0 | 0.45 | 0 | 0.96 |
| # of triple-parked cars | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Curbside LOS | D | | D | | A | | A |
| Roadway LOS | B | B | B | B | B | B | B |

Quick Analysis Tool for Airport Roadways

QATAR v0.6 developed by LeighFisher in association with Dowling Associates, Inc.

Results: Level-of-Service by Zone

Model run by: Kimiey-Horn on 6/5/2018

Airport: Terminal 1
 PIE: PAL 2, Midday
 Scenario: Mixed
 Level / type of roadway: 4 / 2
 Total lanes / approach lanes: 7
 Number of curbside zones: 7



| Zone ID | Zone 1 | Zone 2 | Zone 3 | Zone 4 | Zone 5 | Zone 6 | Zone 7 |
|------------------------------------|-------------|--------|-------------|--------|------------|--------|---------------|
| Name/description | Ticketing A | | Ticketing B | | Unassigned | | Baggage Claim |
| Curb length (feet) | 140 | 20 | 140 | 20 | 250 | 20 | 200 |
| Zone type | active | xwalk | active | xwalk | active | xwalk | active |
| Roadway volume (vph) | 729 | 729 | 729 | 729 | 729 | 729 | 729 |
| Roadway capacity (vph) | 2,122 | 2,437 | 2,122 | 2,437 | 2,438 | 2,437 | 2,441 |
| Roadway V/C ratio | 0.344 | 0.299 | 0.344 | 0.299 | 0.299 | 0.299 | 0.299 |
| Roadway LOS | B | B | B | B | B | B | B |
| Curb demand (# in sys 95% of time) | 9.0 | N/A | 9.0 | N/A | 6.0 | N/A | 6.0 |
| Curb capacity per lane (vehicles) | 6.0 | N/A | 6.0 | N/A | 10.0 | N/A | 8.0 |
| Curb utilization ratio | 1.500 | N/A | 1.500 | N/A | 0.600 | N/A | 0.750 |
| Curb LOS | D | N/A | D | N/A | A | N/A | A |

Level-of-service (LOS) key:



PAL 2 - PM

Inputs

Quick Analysis Tool for Airport Roadways
 QATAR v0.6 developed by LeighFisher in association with Dowling Associates, Inc.

Summary of Inputs and Assumptions
 Model run by: Kimley-Horn on 6/5/2018

| | |
|--|------------|
| Airport | PIE |
| Roadway location | Terminal 1 |
| Scenario | |
| Level / type of roadway | Mixed |
| Total lanes / approach lanes | 4 / 2 |
| Number of curbside zones | 7 |
| % of 1st lane full when next vehicle double park | 0.5 |
| % of 2nd lane full when next vehicle triple park | 0.75 |
| Crosswalk adjustment factor | 0.9 |
| Regional adjustment factor | 0.95 |

Frontage and dwell time per curbside operation

| Vehicle class | Vehicle park | Average dwell time (minutes) |
|--------------------------------|--------------|------------------------------|
| Private Vehicle (staging) | 25 | 6.12 |
| Private Vehicle (pickup) | 25 | 1.17 |
| TNC (pickup) | 25 | 0.75 |
| Private Vehicle (drop) | 25 | 1.17 |
| Taxi (drop) | 25 | 1.02 |
| TNC (drop) | 25 | 0.92 |
| Airport Parking Shuttle (drop) | 30 | 0.82 |
| Rental Car Shuttle (drop) | 30 | 1.3 |
| Hotel Shuttle (drop) | 30 | 1.53 |
| Other | 30 | 3.5 |

Assumptions by zone

| Zone ID | Zone 1 | Zone 2 | Zone 3 | Zone 4 | Zone 5 | Zone 6 | Zone 7 |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|
| Name | | | | | | | |
| Type | active | swalk | active | swalk | active | swalk | active |
| Curbside frontage (feet) | 140 | 20 | 140 | 20 | 250 | 20 | 200 |
| Number of lanes | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Number of approach lanes | 2 | 2 | 2 | 2 | 2 | 2 | 2 |

Volume of vehicles using roadway (vph)

| | | | | | | | |
|--------------------------------|-----|-----|-----|-----|-----|-----|-----|
| Private Vehicle (staging) | 56 | 56 | 56 | 56 | 56 | 56 | 56 |
| Private Vehicle (pickup) | 364 | 364 | 364 | 364 | 364 | 364 | 364 |
| TNC (pickup) | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
| Private Vehicle (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Taxi (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TNC (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Airport Parking Shuttle (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rental Car Shuttle (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hotel Shuttle (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Volume of vehicles using curbside (vph)

| | | | | | | | |
|--------------------------------|---|---|---|---|----|---|-----|
| Private Vehicle (staging) | 0 | 0 | 0 | 0 | 50 | 0 | 0 |
| Private Vehicle (pickup) | 0 | 0 | 0 | 0 | 0 | 0 | 328 |
| TNC (pickup) | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| Private Vehicle (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Taxi (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TNC (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Airport Parking Shuttle (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rental Car Shuttle (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hotel Shuttle (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Outputs

Quick Analysis Tool for Airport Roadways

QATAR v0.6 developed by LeighFisher in association with Dowling Associates, Inc.

Results: Detailed Report By Zone

Model run by: Kimley-Horn on 6/5/2018

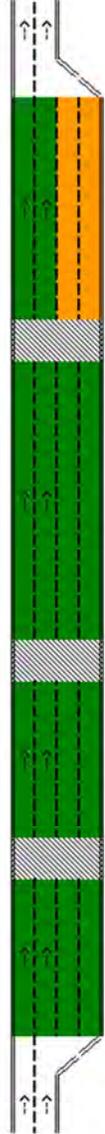
| ID | Zone 1 | Zone 2 | Zone 3 | Zone 4 | Zone 5 | Zone 6 | Zone 7 |
|---|------------|------------|------------|------------|------------|----------|----------|
| Name | | | | | | | |
| Type of zone | active | xwalk | active | xwalk | active | xwalk | active |
| Curbside length (feet) | 140 | 20 | 140 | 20 | 250 | 20 | 200 |
| Number of lanes | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Number of approach lanes | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Roadway volume (vph) | 431 | 431 | 431 | 431 | 431 | 431 | 431 |
| Curbside demand (vph) | - | - | - | - | 50 | - | 339 |
| Average dwell time (minutes) | 0 | 0 | 0 | 0 | 6 | - | 1 |
| Average vehicle length (feet) | 0 | 0 | 0 | 0 | 25 | - | 25.00 |
| Average vehicle arrival rate (vph) | 0 | 0 | 0 | 0 | 50 | - | 339.00 |
| Estimated service rate | 0 | 0 | 0 | 0 | 9.80392157 | 0.00E+00 | 5.19E+01 |
| Derived number of servers | 0 | 0 | 0 | 0 | 40 | - | 32.00 |
| Utilization factor | 0 | 0 | 0 | 0 | 0.1275 | - | 0.20 |
| Utilization ratio | 0 | 0 | 0 | 0 | 5.1 | 0.0% | 653.4% |
| Idle probability | 1 | 0 | 1 | 0 | 0.00609675 | 0.0% | 0.1% |
| 95th percentile vehicles in system | 0 | | 0 | | 9 | | 1100.0% |
| 95th percentile queue length | 0 | | 0 | | 0 | | 0.0% |
| % utilization | | | | | 0.225 | | 0.344 |
| % of 1st lane full when next vehicle double p | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.500 | 0.500 |
| % of 2nd lane full when next vehicle triple p | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.750 | 0.750 |
| Crosswalk adjustment factor | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.900 | 0.900 |
| Regional adjustment factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Through lane roadway capacity | 2850 | 2850 | 2850 | 2850 | 2849.46395 | 2,850.00 | 2,614.94 |
| Adjusted through lane roadway capacity | 2427.9777 | 2436.75 | 2427.9777 | 2436.75 | 2427.52102 | 2,436.75 | 2,227.72 |
| Estimated roadway V/C ratio | 0.17751399 | 0.17687494 | 0.17751399 | 0.17687494 | 0.17754738 | 0.177 | 0.193 |
| Curb capacity per lane (vehicles) | 0 | 0 | 0 | 0 | 10 | 0 | 8 |
| Curb utilization ratio | 0 | 0 | 0 | 0 | 0.9 | 0 | 1.375 |
| % occupancy in lane 1 | 0 | 0 | 0 | 0 | 0.695 | 0 | 0.935 |
| % occupancy in lane 2 | 0 | 0 | 0 | 0 | 0.195 | 0 | 0.435 |
| % occupancy in lane 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| # of cars in curbside lane | 0 | 0 | 0 | 0 | 6.95 | 0 | 7.48 |
| # of double-parked cars | 0 | 0 | 0 | 0 | 1.95 | 0 | 3.48 |
| # of triple-parked cars | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Curbside LOS | A | | A | | A | | D |
| Roadway LOS | A | A | A | A | A | A | A |

Quick Analysis Tool for Airport Roadways

QATAR v0.6 developed by LeighFisher in association with Dowling Associates, Inc.

Results: Level-of-Service by Zone
 Model run by: Kimley-Horn on 6/5/2018

Airport: PIE
 Roadway location: Terminal 1
 Scenario: Mixed
 Level / type of roadway: 4/2
 Total lanes / approach lanes: 7
 Number of curbside zones: 7



| Zone ID | Zone 1 | Zone 2 | Zone 3 | Zone 4 | Zone 5 | Zone 6 | Zone 7 |
|------------------------------------|--------|--------|--------|--------|--------|--------|--------|
| Name/description | 140 | 20 | 140 | 20 | 250 | 20 | 200 |
| Curb length (feet) | 140 | 20 | 140 | 20 | 250 | 20 | 200 |
| Zone type | active | xwalk | active | xwalk | active | xwalk | active |
| Roadway volume (vph) | 431 | 431 | 431 | 431 | 431 | 431 | 431 |
| Roadway capacity (vph) | 2,428 | 2,437 | 2,428 | 2,437 | 2,428 | 2,437 | 2,228 |
| Roadway V/C ratio | 0.178 | 0.177 | 0.178 | 0.177 | 0.178 | 0.177 | 0.193 |
| Roadway LOS | A | A | A | A | A | A | A |
| Curb demand (# in sys 95% of time) | 0.0 | N/A | 0.0 | N/A | 9.0 | N/A | 11.0 |
| Curb capacity per lane (vehicles) | 0.0 | N/A | 0.0 | N/A | 10.0 | N/A | 8.0 |
| Curb utilization ratio | 0.000 | N/A | 0.000 | N/A | 0.900 | N/A | 1.375 |
| Curb LOS | A | N/A | A | N/A | A | N/A | D |

Level-of-service (LOS) key:



PAL 3 - AM

Inputs

Quick Analysis Tool for Airport Roadways
 QATAR v0.6 developed by LeighFisher in association with Dowling Associates, Inc.

Summary of Inputs and Assumptions
 Model run by: Kimley-Horn on 6/5/2018

| | |
|--|------------|
| Airport | PIE |
| Roadway location | Terminal 1 |
| Scenario | |
| Level / type of roadway | Mixed |
| Total lanes / approach lanes | 4 / 2 |
| Number of curbside zones | 7 |
| % of 1st lane full when next vehicle double park | 0.5 |
| % of 2nd lane full when next vehicle triple park | 0.75 |
| Crosswalk adjustment factor | 0.9 |
| Regional adjustment factor | 0.95 |

Frontage and dwell time per curbside operation

| Vehicle class | Vehicle park | Average dwell time (minutes) |
|--------------------------------|--------------|------------------------------|
| Private Vehicle (staging) | 25 | 6.12 |
| Private Vehicle (pickup) | 25 | 1.17 |
| TNC (pickup) | 25 | 0.75 |
| Private Vehicle (drop) | 25 | 1.17 |
| Taxi (drop) | 25 | 1.02 |
| TNC (drop) | 25 | 0.92 |
| Airport Parking Shuttle (drop) | 30 | 0.82 |
| Rental Car Shuttle (drop) | 30 | 1.3 |
| Hotel Shuttle (drop) | 30 | 1.53 |
| Other | 30 | 3.5 |

Assumptions by zone

| Zone ID | Zone 1 | Zone 2 | Zone 3 | Zone 4 | Zone 5 | Zone 6 | Zone 7 |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|
| Name | | | | | | | |
| Type | active | swalk | active | swalk | active | swalk | active |
| Curbside frontage (feet) | 140 | 20 | 140 | 20 | 250 | 20 | 200 |
| Number of lanes | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Number of approach lanes | 2 | 2 | 2 | 2 | 2 | 2 | 2 |

Volume of vehicles using roadway (vph)

| | | | | | | | |
|--------------------------------|-----|-----|-----|-----|-----|-----|-----|
| Private Vehicle (staging) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Private Vehicle (pickup) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TNC (pickup) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Private Vehicle (drop) | 677 | 677 | 677 | 677 | 677 | 677 | 677 |
| Taxi (drop) | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
| TNC (drop) | 18 | 18 | 18 | 18 | 18 | 18 | 18 |
| Airport Parking Shuttle (drop) | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| Rental Car Shuttle (drop) | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Hotel Shuttle (drop) | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Other | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Volume of vehicles using curbside (vph)

| | | | | | | | |
|--------------------------------|-----|---|-----|---|---|---|---|
| Private Vehicle (staging) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Private Vehicle (pickup) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TNC (pickup) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Private Vehicle (drop) | 339 | 0 | 338 | 0 | 0 | 0 | 0 |
| Taxi (drop) | 6 | 0 | 5 | 0 | 0 | 0 | 0 |
| TNC (drop) | 9 | 0 | 9 | 0 | 0 | 0 | 0 |
| Airport Parking Shuttle (drop) | 8 | 0 | 8 | 0 | 0 | 0 | 0 |
| Rental Car Shuttle (drop) | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| Hotel Shuttle (drop) | 2 | 0 | 1 | 0 | 0 | 0 | 0 |
| Other | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Outputs

Quick Analysis Tool for Airport Roadways

QATAR v0.6 developed by LeighFisher in association with Dowling Associates, Inc.

Results: Detailed Report By Zone

Model run by: Kimley-Horn on 6/5/2018

| ID | Zone 1 | Zone 2 | Zone 3 | Zone 4 | Zone 5 | Zone 6 | Zone 7 |
|---|------------|-----------|------------|-----------|------------|----------|----------|
| Name | | | | | | | |
| Type of zone | active | xwalk | active | xwalk | active | xwalk | active |
| Curbside length (feet) | 140 | 20 | 140 | 20 | 250 | 20 | 200 |
| Number of lanes | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Number of approach lanes | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Roadway volume (vph) | 727 | 727 | 727 | 727 | 727 | 727 | 727 |
| Curbside demand (vph) | 365 | - | 362 | - | - | - | - |
| Average dwell time (minutes) | 1.1560274 | 0 | 1.15533149 | 0 | - | - | - |
| Average vehicle length (feet) | 25.1506849 | 0 | 25.1381215 | 0 | 0 | - | - |
| Average vehicle arrival rate (vph) | 365 | 0 | 362 | 0 | 0 | - | - |
| Estimated service rate | 51.9018841 | 0 | 51.9331468 | 0 | 0 | 0.00E+00 | 0.00E+00 |
| Derived number of servers | 22 | 0 | 22 | 0 | 0 | - | - |
| Utilization factor | 0.31965909 | 0 | 0.31684091 | 0 | 0 | - | - |
| Utilization ratio | 7.0325 | 0 | 6.9705 | 0 | 0 | 0.0% | 0.0% |
| Idle probability | 0.00088272 | 0 | 0.00093918 | 0 | 1 | 0.0% | 100.0% |
| 95th percentile vehicles in system | 12 | | 12 | | 0 | | 0.0% |
| 95th percentile queue length | 0 | | 0 | | 0 | | 0.0% |
| % utilization | 0.54545455 | | 0.54545455 | | | | |
| % of 1st lane full when next vehicle double p | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.500 | 0.500 |
| % of 2nd lane full when next vehicle triple p | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.750 | 0.750 |
| Crosswalk adjustment factor | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.900 | 0.900 |
| Regional adjustment factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Through lane roadway capacity | 1786.48894 | 2850 | 1786.48894 | 2850 | 2850 | 2,850.00 | 2,850.00 |
| Adjusted through lane roadway capacity | 1521.94923 | 2436.75 | 1521.94923 | 2436.75 | 2427.9777 | 2,436.75 | 2,427.98 |
| Estimated roadway V/C ratio | 0.47767691 | 0.2983482 | 0.47767691 | 0.2983482 | 0.29942614 | 0.298 | 0.299 |
| Curb capacity per lane (vehicles) | 6 | 0 | 6 | 0 | 0 | 0 | 0 |
| Curb utilization ratio | 2 | 0 | 2 | 0 | 0 | 0 | 0 |
| % occupancy in lane 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| % occupancy in lane 2 | 0.87 | 0 | 0.87 | 0 | 0 | 0 | 0 |
| % occupancy in lane 3 | 0.12 | 0 | 0.12 | 0 | 0 | 0 | 0 |
| # of cars in curbside lane | 6 | 0 | 6 | 0 | 0 | 0 | 0 |
| # of double-parked cars | 5.22 | 0 | 5.22 | 0 | 0 | 0 | 0 |
| # of triple-parked cars | 0.72 | 0 | 0.72 | 0 | 0 | 0 | 0 |
| Curbside LOS | E | | E | | A | | A |
| Roadway LOS | C | B | C | B | B | B | B |

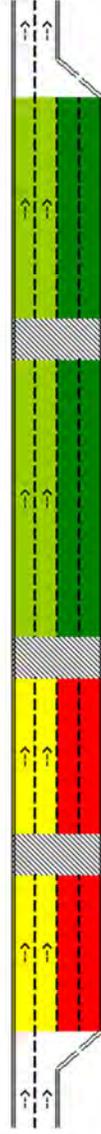
Quick Analysis Tool for Airport Roadways

QATAR v0.6 developed by LeighFisher in association with Dowling Associates, Inc.

Results: Level-of-Service by Zone

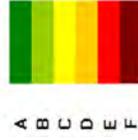
Model run by: Kimley-Horn on 6/5/2018

Airport: PIE
 Roadway location: Terminal 1
 Scenario: Mixed
 Level / type of roadway: 4/2
 Total lanes / approach lanes: 7
 Number of curbside zones: 7



| Zone ID | Zone Name/description | Zone 1 | Zone 2 | Zone 3 | Zone 4 | Zone 5 | Zone 6 | Zone 7 |
|------------------------------------|-----------------------|--------|--------|--------|--------|--------|--------|--------|
| Name/description | | 140 | 20 | 140 | 20 | 250 | 20 | 200 |
| Curb length (feet) | | 140 | 20 | 140 | 20 | 250 | 20 | 200 |
| Zone type | | active | xwal | active | xwal | active | xwal | active |
| Roadway volume (vph) | | 727 | 727 | 727 | 727 | 727 | 727 | 727 |
| Roadway capacity (vph) | | 1,522 | 2,437 | 1,522 | 2,437 | 2,438 | 2,437 | 2,428 |
| Roadway V/C ratio | | 0.478 | 0.298 | 0.478 | 0.298 | 0.299 | 0.298 | 0.299 |
| Roadway LOS | | C | B | C | B | B | B | B |
| Curb demand (# in sys 95% of time) | | 12.0 | N/A | 12.0 | N/A | 0.0 | N/A | 0.0 |
| Curb capacity per lane (vehicles) | | 6.0 | N/A | 6.0 | N/A | 0.0 | N/A | 0.0 |
| Curb utilization ratio | | 2.000 | N/A | 2.000 | N/A | 0.000 | N/A | 0.000 |
| Curb LOS | | E | N/A | E | N/A | A | N/A | A |

Level-of-service (LOS) key:



PAL 3 - Midday

Inputs

Quick Analysis Tool for Airport Roadways
 QATAR v0.6 developed by LeighFisher in association with Dowling Associates, Inc.

Summary of Inputs and Assumptions
 Model run by: Kimley-Horn on 6/5/2018

| | |
|---|------------|
| Airport | PIE |
| Roadway location | Terminal 1 |
| Scenario | |
| Level / type of roadway | Mixed |
| Total lanes / approach lanes | 4 / 2 |
| Number of curbside zones | 7 |
| % of 1st lane full when next vehicle double parks | 0.5 |
| % of 2nd lane full when next vehicle triple parks | 0.75 |
| Crosswalk adjustment factor | 0.9 |
| Regional adjustment factor | 0.95 |

Frontage and dwell time per curbside operation

| Vehicle class | Vehicle parking length | Average dwell time (minutes) |
|--------------------------------|------------------------|------------------------------|
| Private Vehicle (staging) | 25 | 6.12 |
| Private Vehicle (pickup) | 25 | 1.17 |
| TNC (pickup) | 25 | 0.75 |
| Private Vehicle (drop) | 25 | 1.17 |
| Taxi (drop) | 25 | 1.02 |
| TNC (drop) | 25 | 0.92 |
| Airport Parking Shuttle (drop) | 30 | 0.82 |
| Rental Car Shuttle (drop) | 30 | 1.3 |
| Hotel Shuttle (drop) | 30 | 1.53 |
| Other | 30 | 3.5 |

Assumptions by zone

| Zone ID | Zone 1 | Zone 2 | Zone 3 | Zone 4 | Zone 5 | Zone 6 | Zone 7 | |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|-----|
| Name | | | | | | | | |
| Type | active | swalk | active | swalk | active | swalk | active | |
| Curbside frontage (feet) | | 140 | 20 | 140 | 20 | 250 | 20 | 200 |
| Number of lanes | | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Number of approach lanes | | 2 | 2 | 2 | 2 | 2 | 2 | 2 |

Volume of vehicles using roadway (vph)

| | | | | | | | |
|--------------------------------|-----|-----|-----|-----|-----|-----|-----|
| Private Vehicle (staging) | 35 | 35 | 35 | 35 | 35 | 35 | 35 |
| Private Vehicle (pickup) | 222 | 222 | 222 | 222 | 222 | 222 | 222 |
| TNC (pickup) | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Private Vehicle (drop) | 599 | 599 | 599 | 599 | 599 | 599 | 599 |
| Taxi (drop) | 14 | 14 | 14 | 14 | 14 | 14 | 14 |
| TNC (drop) | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| Airport Parking Shuttle (drop) | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| Rental Car Shuttle (drop) | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Hotel Shuttle (drop) | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Other | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Volume of vehicles using curbside (vph)

| | | | | | | | |
|--------------------------------|-----|---|-----|---|----|---|-----|
| Private Vehicle (staging) | 0 | 0 | 0 | 0 | 32 | 0 | 0 |
| Private Vehicle (pickup) | 0 | 0 | 0 | 0 | 0 | 0 | 205 |
| TNC (pickup) | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| Private Vehicle (drop) | 300 | 0 | 299 | 0 | 0 | 0 | 0 |
| Taxi (drop) | 7 | 0 | 7 | 0 | 0 | 0 | 0 |
| TNC (drop) | 8 | 0 | 7 | 0 | 0 | 0 | 0 |
| Airport Parking Shuttle (drop) | 10 | 0 | 10 | 0 | 0 | 0 | 0 |
| Rental Car Shuttle (drop) | 2 | 0 | 1 | 0 | 0 | 0 | 0 |
| Hotel Shuttle (drop) | 2 | 0 | 2 | 0 | 0 | 0 | 0 |
| Other | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Outputs

Quick Analysis Tool for Airport Roadways

QATAR v0.6 developed by LeighFisher in association with Dowling Associates, Inc.

Results: Detailed Report By Zone

Model run by: Kimley-Horn on 6/5/2018

| ID | Zone 1 | Zone 2 | Zone 3 | Zone 4 | Zone 5 | Zone 6 | Zone 7 |
|--|-------------|-------------|------------|------------|------------|----------|----------|
| Name | | | | | | | |
| Type of zone | active | xwalk | active | xwalk | active | xwalk | active |
| Curbside length (feet) | 140 | 20 | 140 | 20 | 250 | 20 | 200 |
| Number of lanes | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Number of approach lanes | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Roadway volume (vph) | 919 | 919 | 919 | 919 | 919 | 919 | 919 |
| Curbside demand (vph) | 329 | - | 326 | - | 32 | - | 212 |
| Average dwell time (minutes) | 1.153069909 | 0 | 1.15328221 | 0 | 6 | - | 1 |
| Average vehicle length (feet) | 25.21276596 | 0 | 25.1993865 | 0 | 25 | - | 25.00 |
| Average vehicle arrival rate (vph) | 329 | 0 | 326 | 0 | 32 | - | 212.00 |
| Estimated service rate | 52.03500633 | 0 | 52.0254276 | 0 | 9.80392157 | 0.00E+00 | 5.19E+01 |
| Derived number of servers | 22 | 0 | 22 | 0 | 40 | - | 32.00 |
| Utilization factor | 0.287393939 | 0 | 0.28482576 | 0 | 0.0816 | - | 0.13 |
| Utilization ratio | 6.322666667 | 0 | 6.26616667 | 0 | 3.264 | 0.0% | 408.5% |
| Idle probability | 0.00179515 | 0 | 0.0018995 | 0 | 0.03823515 | 0.0% | 1.7% |
| 95th percentile vehicles in system | 11 | | 11 | | 6 | | 800.0% |
| 95th percentile queue length | 0 | | 0 | | 0 | | 0.0% |
| % utilization | 0.5 | | 0.5 | | 0.15 | | 0.250 |
| % of 1st lane full when next vehicle double pa | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.500 | 0.500 |
| % of 2nd lane full when next vehicle triple parl | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.750 | 0.750 |
| Crosswalk adjustment factor | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.900 | 0.900 |
| Regional adjustment factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Through lane roadway capacity | 2062.440901 | 2850 | 2062.4409 | 2850 | 2862.11283 | 2,850.00 | 2,825.29 |
| Adjusted through lane roadway capacity | 1757.038777 | 2436.75 | 1757.03878 | 2436.75 | 2438.29689 | 2,436.75 | 2,406.93 |
| Estimated roadway V/C ratio | 0.523039111 | 0.377141685 | 0.52303911 | 0.37714168 | 0.37690242 | 0.377 | 0.382 |
| Curb capacity per lane (vehicles) | 6 | 0 | 6 | 0 | 10 | 0 | 8 |
| Curb utilization ratio | 1.833333333 | 0 | 1.83333333 | 0 | 0.6 | 0 | 1 |
| % occupancy in lane 1 | 1 | 0 | 1 | 0 | 0.545 | 0 | 0.745 |
| % occupancy in lane 2 | 0.79 | 0 | 0.79 | 0 | 0.045 | 0 | 0.245 |
| % occupancy in lane 3 | 0.04 | 0 | 0.04 | 0 | 0 | 0 | 0 |
| # of cars in curbside lane | 6 | 0 | 6 | 0 | 5.45 | 0 | 5.96 |
| # of double-parked cars | 4.74 | 0 | 4.74 | 0 | 0.45 | 0 | 1.96 |
| # of triple-parked cars | 0.24 | 0 | 0.24 | 0 | 0 | 0 | 0 |
| Curbside LOS | E | | E | | A | | A |
| Roadway LOS | C | B | C | B | B | B | B |

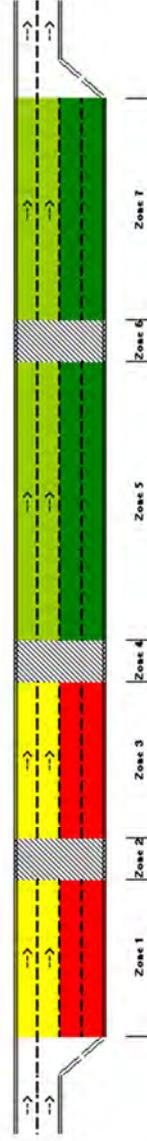
Quick Analysis Tool for Airport Roadways

QATAR v0.6 developed by LeighFisher in association with Dowling Associates, Inc.

Results: Level-of-Service by Zone

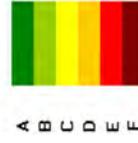
Model run by: Kimley-Horn on 6/5/2018

| | |
|------------------------------|------------|
| Airport | PIE |
| Roadway location | Terminal 1 |
| Scenario | |
| Level / type of roadway | Mixed |
| Total lanes / approach lanes | 4 / 2 |
| Number of curbside zones | 7 |



| Zone ID | Zone 1 | Zone 2 | Zone 3 | Zone 4 | Zone 5 | Zone 6 | Zone 7 |
|------------------------------------|--------|--------|--------|--------|--------|--------|--------|
| Name/description | 140 | 20 | 140 | 20 | 250 | 20 | 200 |
| Curb length (feet) | active | xwal | active | xwal | active | xwal | active |
| Zone type | active | k | active | k | active | k | active |
| Roadway volume (vph) | 919 | 919 | 919 | 919 | 919 | 919 | 919 |
| Roadway capacity (vph) | 1,757 | 2,437 | 1,757 | 2,437 | 2,438 | 2,437 | 2,407 |
| Roadway V/C ratio | 0.523 | 0.377 | 0.523 | 0.377 | 0.377 | 0.377 | 0.382 |
| Roadway LOS | C | B | C | B | B | B | B |
| Curb demand (# in sys 95% of time) | 11.0 | N/A | 11.0 | N/A | 6.0 | N/A | 8.0 |
| Curb capacity per lane (vehicles) | 6.0 | N/A | 6.0 | N/A | 10.0 | N/A | 8.0 |
| Curb utilization ratio | 1.833 | N/A | 1.833 | N/A | 0.600 | N/A | 1.000 |
| Curb LOS | E | N/A | E | N/A | A | N/A | A |

Level-of-service (LOS) key:



PAL 3 - PM

Inputs

Quick Analysis Tool for Airport Roadways
 QATAR v0.6 developed by LeighFisher in association with Dowling Associates, Inc.

Summary of Inputs and Assumptions
 Model run by: Kimley-Horn on 6/5/2018

| | |
|---|------------|
| Airport | PIE |
| Roadway location | Terminal 1 |
| Scenario | |
| Level / type of roadway | Mixed |
| Total lanes / approach lanes | 4 / 2 |
| Number of curbside zones | 7 |
| % of 1st lane full when next vehicle double parks | 0.5 |
| % of 2nd lane full when next vehicle triple parks | 0.75 |
| Crosswalk adjustment factor | 0.9 |
| Regional adjustment factor | 0.95 |

Frontage and dwell time per curbside operation

| Vehicle class | Vehicle park | Average dwell time (minutes) |
|--------------------------------|--------------|------------------------------|
| Private Vehicle (staging) | 25 | 6.12 |
| Private Vehicle (pickup) | 25 | 1.17 |
| TNC (pickup) | 25 | 0.75 |
| Private Vehicle (drop) | 25 | 1.17 |
| Taxi (drop) | 25 | 1.02 |
| TNC (drop) | 25 | 0.92 |
| Airport Parking Shuttle (drop) | 30 | 0.82 |
| Rental Car Shuttle (drop) | 30 | 1.3 |
| Hotel Shuttle (drop) | 30 | 1.53 |
| Other | 30 | 3.5 |

Assumptions by zone

| Zone ID | Zone 1 | Zone 2 | Zone 3 | Zone 4 | Zone 5 | Zone 6 | Zone 7 |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|
| Name | | | | | | | |
| Type | active | walk | active | walk | active | walk | active |
| Curbside frontage (feet) | 140 | 20 | 140 | 20 | 250 | 20 | 200 |
| Number of lanes | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Number of approach lanes | 2 | 2 | 2 | 2 | 2 | 2 | 2 |

Volume of vehicles using roadway (vph)

| | | | | | | | |
|--------------------------------|-----|-----|-----|-----|-----|-----|-----|
| Private Vehicle (staging) | 67 | 67 | 67 | 67 | 67 | 67 | 67 |
| Private Vehicle (pickup) | 417 | 417 | 417 | 417 | 417 | 417 | 417 |
| TNC (pickup) | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
| Private Vehicle (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Taxi (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TNC (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Airport Parking Shuttle (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rental Car Shuttle (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hotel Shuttle (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Volume of vehicles using curbside (vph)

| | | | | | | | |
|--------------------------------|---|---|---|---|----|---|-----|
| Private Vehicle (staging) | 0 | 0 | 0 | 0 | 60 | 0 | 0 |
| Private Vehicle (pickup) | 0 | 0 | 0 | 0 | 0 | 0 | 375 |
| TNC (pickup) | 0 | 0 | 0 | 0 | 0 | 0 | 13 |
| Private Vehicle (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Taxi (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TNC (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Airport Parking Shuttle (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rental Car Shuttle (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hotel Shuttle (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Outputs

Quick Analysis Tool for Airport Roadways

QATAR v0.6 developed by LeighFisher in association with Dowling Associates, Inc.

Results: Detailed Report By Zone

Model run by: Kimley-Horn on 6/5/2018

| ID | Zone 1 | Zone 2 | Zone 3 | Zone 4 | Zone 5 | Zone 6 | Zone 7 |
|--|-----------|------------|-----------|------------|------------|----------|----------|
| Name | | | | | | | |
| Type of zone | active | xwalk | active | xwalk | active | xwalk | active |
| Curbside length (feet) | 140 | 20 | 140 | 20 | 250 | 20 | 200 |
| Number of lanes | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Number of approach lanes | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Roadway volume (vph) | 497 | 497 | 497 | 497 | 497 | 497 | 497 |
| Curbside demand (vph) | - | - | - | - | 60 | - | 388 |
| Average dwell time (minutes) | 0 | 0 | 0 | 0 | 6 | - | 1 |
| Average vehicle length (feet) | 0 | 0 | 0 | 0 | 25 | - | 25.00 |
| Average vehicle arrival rate (vph) | 0 | 0 | 0 | 0 | 60 | - | 388.00 |
| Estimated service rate | 0 | 0 | 0 | 0 | 9.80392157 | 0.00E+00 | 5.19E+01 |
| Derived number of servers | 0 | 0 | 0 | 0 | 40 | - | 32.00 |
| Utilization factor | 0 | 0 | 0 | 0 | 0.153 | - | 0.23 |
| Utilization ratio | 0 | 0 | 0 | 0 | 6.12 | 0.0% | 747.5% |
| Idle probability | 1 | 0 | 1 | 0 | 0.00219846 | 0.0% | 0.1% |
| 95th percentile vehicles in system | 0 | | 0 | | 10 | | 1200.0% |
| 95th percentile queue length | 0 | | 0 | | 0 | | 0.0% |
| % utilization | | | | | 0.25 | | 0.375 |
| % of 1st lane full when next vehicle double park | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.500 | 0.500 |
| % of 2nd lane full when next vehicle triple park | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.750 | 0.750 |
| Crosswalk adjustment factor | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.900 | 0.900 |
| Regional adjustment factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Through lane roadway capacity | 2850 | 2850 | 2850 | 2850 | 2825.29171 | 2,850.00 | 2,491.12 |
| Adjusted through lane roadway capacity | 2427.9777 | 2436.75 | 2427.9777 | 2436.75 | 2406.92816 | 2,436.75 | 2,122.24 |
| Estimated roadway V/C ratio | 0.2046971 | 0.20396019 | 0.2046971 | 0.20396019 | 0.20648726 | 0.204 | 0.234 |
| Curb capacity per lane (vehicles) | 0 | 0 | 0 | 0 | 10 | 0 | 8 |
| Curb utilization ratio | 0 | 0 | 0 | 0 | 1 | 0 | 1.5 |
| % occupancy in lane 1 | 0 | 0 | 0 | 0 | 0.745 | 0 | 0.995 |
| % occupancy in lane 2 | 0 | 0 | 0 | 0 | 0.245 | 0 | 0.495 |
| % occupancy in lane 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| # of cars in curbside lane | 0 | 0 | 0 | 0 | 7.45 | 0 | 7.96 |
| # of double-parked cars | 0 | 0 | 0 | 0 | 2.45 | 0 | 3.96 |
| # of triple-parked cars | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Curbside LOS | A | | A | | A | | D |
| Roadway LOS | A | A | A | A | A | A | A |

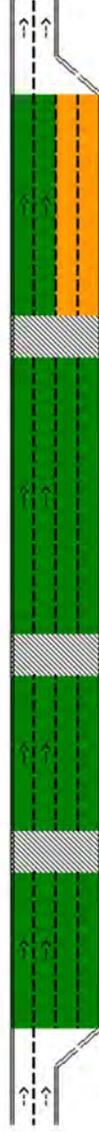
Quick Analysis Tool for Airport Roadways

QATAR v0.6 developed by LeighFisher in association with Dowling Associates, Inc.

Results: Level-of-Service by Zone

Model run by: Kimley-Horn on 6/5/2018

| | |
|------------------------------|------------|
| Airport | PIE |
| Roadway location | Terminal 1 |
| Scenario | Mixed |
| Level / type of roadway | 4/2 |
| Total lanes / approach lanes | 7 |
| Number of curbside zones | 7 |



| Zone ID | Zone 1 | Zone 2 | Zone 3 | Zone 4 | Zone 5 | Zone 6 | Zone 7 |
|------------------------------------|--------|--------|--------|--------|--------|--------|--------|
| Name/description | 140 | 20 | 140 | 20 | 250 | 20 | 200 |
| Curb length (feet) | 140 | 20 | 140 | 20 | 250 | 20 | 200 |
| Zone type | active | xwalk | active | xwalk | active | xwalk | active |
| Roadway volume (vph) | 497 | 497 | 497 | 497 | 497 | 497 | 497 |
| Roadway capacity (vph) | 2,428 | 2,437 | 2,428 | 2,437 | 2,407 | 2,437 | 2,122 |
| Roadway V/C ratio | 0.205 | 0.204 | 0.205 | 0.204 | 0.206 | 0.204 | 0.234 |
| Roadway LOS | A | A | A | A | A | A | A |
| Curb demand (# in sys 95% of time) | 0.0 | N/A | 0.0 | N/A | 10.0 | N/A | 12.0 |
| Curb capacity per lane (vehicles) | 0.0 | N/A | 0.0 | N/A | 10.0 | N/A | 8.0 |
| Curb utilization ratio | 0.000 | N/A | 0.000 | N/A | 1.000 | N/A | 1.500 |
| Curb LOS | A | N/A | A | N/A | A | N/A | D |

Level-of-service (LOS) key:



PAL 4 - AM

Inputs

Quick Analysis Tool for Airport Roadways
 QATAR v0.6 developed by LeighFisher in association with Dowling Associates, Inc.

Summary of Inputs and Assumptions
 Model run by: Kimley-Horn on 6/5/2018

| | |
|---|------------|
| Airport | PIE |
| Roadway location | Terminal 1 |
| Scenario | |
| Level / type of roadway | Mixed |
| Total lanes / approach lanes | 4 / 2 |
| Number of curbside zones | 7 |
| % of 1st lane full when next vehicle double parks | 0.5 |
| % of 2nd lane full when next vehicle triple parks | 0.75 |
| Crosswalk adjustment factor | 0.9 |
| Regional adjustment factor | 0.95 |

Frontage and dwell time per curbside operation

| Vehicle class | Vehicle park | Average dwell time (minutes) |
|--------------------------------|--------------|------------------------------|
| Private Vehicle (staging) | 25 | 6.12 |
| Private Vehicle (pickup) | 25 | 1.17 |
| TNC (pickup) | 25 | 0.75 |
| Private Vehicle (drop) | 25 | 1.17 |
| Taxi (drop) | 25 | 1.02 |
| TNC (drop) | 25 | 0.92 |
| Airport Parking Shuttle (drop) | 30 | 0.82 |
| Rental Car Shuttle (drop) | 30 | 1.3 |
| Hotel Shuttle (drop) | 30 | 1.53 |
| Other | 30 | 3.5 |

Assumptions by zone

| Zone ID | Zone 1 | Zone 2 | Zone 3 | Zone 4 | Zone 5 | Zone 6 | Zone 7 |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|
| Name | | | | | | | |
| Type | active | swalk | active | swalk | active | swalk | active |
| Curbside frontage (feet) | 140 | 20 | 140 | 20 | 250 | 20 | 200 |
| Number of lanes | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Number of approach lanes | 2 | 2 | 2 | 2 | 2 | 2 | 2 |

Volume of vehicles using roadway (vph)

| | | | | | | | |
|--------------------------------|-----|-----|-----|-----|-----|-----|-----|
| Private Vehicle (staging) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Private Vehicle (pickup) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TNC (pickup) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Private Vehicle (drop) | 846 | 846 | 846 | 846 | 846 | 846 | 846 |
| Taxi (drop) | 14 | 14 | 14 | 14 | 14 | 14 | 14 |
| TNC (drop) | 22 | 22 | 22 | 22 | 22 | 22 | 22 |
| Airport Parking Shuttle (drop) | 19 | 19 | 19 | 19 | 19 | 19 | 19 |
| Rental Car Shuttle (drop) | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Hotel Shuttle (drop) | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Other | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Volume of vehicles using curbside (vph)

| | | | | | | | |
|--------------------------------|-----|---|-----|---|---|---|---|
| Private Vehicle (staging) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Private Vehicle (pickup) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TNC (pickup) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Private Vehicle (drop) | 423 | 0 | 423 | 0 | 0 | 0 | 0 |
| Taxi (drop) | 7 | 0 | 7 | 0 | 0 | 0 | 0 |
| TNC (drop) | 11 | 0 | 11 | 0 | 0 | 0 | 0 |
| Airport Parking Shuttle (drop) | 10 | 0 | 9 | 0 | 0 | 0 | 0 |
| Rental Car Shuttle (drop) | 2 | 0 | 1 | 0 | 0 | 0 | 0 |
| Hotel Shuttle (drop) | 2 | 0 | 2 | 0 | 0 | 0 | 0 |
| Other | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Outputs

Quick Analysis Tool for Airport Roadways

QATAR v0.6 developed by LeighFisher in association with Dowling Associates, Inc.

Results: Detailed Report By Zone

Model run by: Kimley-Horn on 6/5/2018

| ID | Zone 1 | Zone 2 | Zone 3 | Zone 4 | Zone 5 | Zone 6 | Zone 7 |
|---|------------|------------|------------|------------|------------|----------|----------|
| Name | | | | | | | |
| Type of zone | active | xwalk | active | xwalk | active | xwalk | active |
| Curbside length (feet) | 140 | 20 | 140 | 20 | 250 | 20 | 200 |
| Number of lanes | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Number of approach lanes | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Roadway volume (vph) | 908 | 908 | 908 | 908 | 908 | 908 | 908 |
| Curbside demand (vph) | 455 | - | 453 | - | - | - | - |
| Average dwell time (minutes) | 1.15610989 | 0 | 1.15653422 | 0 | - | - | - |
| Average vehicle length (feet) | 25.1538462 | 0 | 25.1324503 | 0 | 0 | - | - |
| Average vehicle arrival rate (vph) | 455 | 0 | 453 | 0 | 0 | - | - |
| Estimated service rate | 51.8981807 | 0 | 51.8791395 | 0 | 0 | 0.00E+00 | 0.00E+00 |
| Derived number of servers | 22 | 0 | 22 | 0 | 0 | - | - |
| Utilization factor | 0.39850758 | 0 | 0.39690152 | 0 | 0 | - | - |
| Utilization ratio | 8.76716667 | 0 | 8.73183333 | 0 | 0 | 0.0% | 0.0% |
| Idle probability | 0.00015576 | 0 | 0.00016137 | 0 | 1 | 0.0% | 100.0% |
| 95th percentile vehicles in system | 14 | | 14 | | 0 | | 0.0% |
| 95th percentile queue length | 0 | | 0 | | 0 | | 0.0% |
| % utilization | 0.63636364 | | 0.63636364 | | | | |
| % of 1st lane full when next vehicle double park | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.500 | 0.500 |
| % of 2nd lane full when next vehicle triple parks | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.750 | 0.750 |
| Crosswalk adjustment factor | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.900 | 0.900 |
| Regional adjustment factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Through lane roadway capacity | 1181.37628 | 2850 | 1181.37628 | 2850 | 2850 | 2,850.00 | 2,850.00 |
| Adjusted through lane roadway capacity | 1006.44044 | 2436.75 | 1006.44044 | 2436.75 | 2427.9777 | 2,436.75 | 2,427.98 |
| Estimated roadway V/C ratio | 0.9021895 | 0.37262748 | 0.9021895 | 0.37262748 | 0.37397378 | 0.373 | 0.374 |
| Curb capacity per lane (vehicles) | 6 | 0 | 6 | 0 | 0 | 0 | 0 |
| Curb utilization ratio | 2.33333333 | 0 | 2.33333333 | 0 | 0 | 0 | 0 |
| % occupancy in lane 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| % occupancy in lane 2 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| % occupancy in lane 3 | 0.33 | 0 | 0.33 | 0 | 0 | 0 | 0 |
| # of cars in curbside lane | 6 | 0 | 6 | 0 | 0 | 0 | 0 |
| # of double-parked cars | 6 | 0 | 6 | 0 | 0 | 0 | 0 |
| # of triple-parked cars | 1.98 | 0 | 1.98 | 0 | 0 | 0 | 0 |
| Curbside LOS | F | | F | | A | | A |
| Roadway LOS | E | B | E | B | B | B | B |

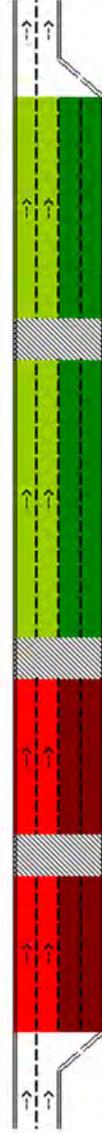
Quick Analysis Tool for Airport Roadways

QATAR v0.6 developed by LeighFisher in association with Dowling Associates, Inc.

Results: Level-of-Service by Zone

Model run by: Kimley-Horn on 6/5/2018

| | |
|------------------------------|------------|
| Airport | PIE |
| Roadway location | Terminal 1 |
| Scenario | |
| Level / type of roadway | Mixed |
| Total lanes / approach lanes | 4/2 |
| Number of curbside zones | 7 |



| Zone ID | Zone 1 | Zone 2 | Zone 3 | Zone 4 | Zone 5 | Zone 6 | Zone 7 |
|------------------------------------|--------|--------|--------|--------|--------|--------|--------|
| Name/description | | | | | | | |
| Curb length (feet) | 140 | 20 | 140 | 20 | 250 | 20 | 200 |
| Zone type | active | xwal | active | xwal | active | xwal | active |
| Roadway volume (vph) | 908 | 908 | 908 | 908 | 908 | 908 | 908 |
| Roadway capacity (vph) | 1,006 | 2,437 | 1,006 | 2,437 | 2,428 | 2,437 | 2,428 |
| Roadway V/C ratio | 0.902 | 0.373 | 0.902 | 0.373 | 0.374 | 0.373 | 0.374 |
| Roadway LOS | E | B | E | B | B | B | B |
| Curb demand (# in sys 95% of time) | 14.0 | N/A | 14.0 | N/A | 0.0 | N/A | 0.0 |
| Curb capacity per lane (vehicles) | 6.0 | N/A | 6.0 | N/A | 0.0 | N/A | 0.0 |
| Curb utilization ratio | 2.333 | N/A | 2.333 | N/A | 0.000 | N/A | 0.000 |
| Curb LOS | F | N/A | F | N/A | A | N/A | A |

Level-of-service (LOS) key:



PAL 4 - Midday

Inputs

Quick Analysis Tool for Airport Roadways
 QATAR v0.6 developed by LeighFisher in association with Dowling Associates, Inc.

Summary of Inputs and Assumptions
 Model run by: Kimley-Horn on 6/5/2018

| | |
|---|------------|
| Airport | PIE |
| Roadway location | Terminal 1 |
| Scenario | |
| Level / type of roadway | Mixed |
| Total lanes / approach lanes | 4 / 2 |
| Number of curbside zones | 7 |
| % of 1st lane full when next vehicle double parks | 0.5 |
| % of 2nd lane full when next vehicle triple parks | 0.75 |
| Crosswalk adjustment factor | 0.9 |
| Regional adjustment factor | 0.95 |

Frontage and dwell time per curbside operation

| Vehicle class | Vehicle parking length | Average dwell time (minutes) |
|--------------------------------|------------------------|------------------------------|
| Private Vehicle (staging) | 25 | 6.12 |
| Private Vehicle (pickup) | 25 | 1.17 |
| TNC (pickup) | 25 | 0.75 |
| Private Vehicle (drop) | 25 | 1.17 |
| Taxi (drop) | 25 | 1.02 |
| TNC (drop) | 25 | 0.92 |
| Airport Parking Shuttle (drop) | 30 | 0.82 |
| Rental Car Shuttle (drop) | 30 | 1.3 |
| Hotel Shuttle (drop) | 30 | 1.53 |
| Other | 30 | 3.5 |

Assumptions by zone

| Zone ID | Zone 1 | Zone 2 | Zone 3 | Zone 4 | Zone 5 | Zone 6 | Zone 7 |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|
| Name | | | | | | | |
| Type | active | walk | active | walk | active | walk | active |
| Curbside frontage (feet) | 140 | 140 | 20 | 140 | 20 | 250 | 20 |
| Number of lanes | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Number of approach lanes | 2 | 2 | 2 | 2 | 2 | 2 | 2 |

Volume of vehicles using roadway (vph)

| | | | | | | | |
|--------------------------------|-----|-----|-----|-----|-----|-----|-----|
| Private Vehicle (staging) | 41 | 41 | 41 | 41 | 41 | 41 | 41 |
| Private Vehicle (pickup) | 255 | 255 | 255 | 255 | 255 | 255 | 255 |
| TNC (pickup) | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Private Vehicle (drop) | 690 | 690 | 690 | 690 | 690 | 690 | 690 |
| Taxi (drop) | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| TNC (drop) | 18 | 18 | 18 | 18 | 18 | 18 | 18 |
| Airport Parking Shuttle (drop) | 22 | 22 | 22 | 22 | 22 | 22 | 22 |
| Rental Car Shuttle (drop) | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Hotel Shuttle (drop) | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Other | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Volume of vehicles using curbside (vph)

| | | | | | | | |
|--------------------------------|-----|---|-----|---|----|---|-----|
| Private Vehicle (staging) | 0 | 0 | 0 | 0 | 38 | 0 | 0 |
| Private Vehicle (pickup) | 0 | 0 | 0 | 0 | 0 | 0 | 236 |
| TNC (pickup) | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| Private Vehicle (drop) | 345 | 0 | 345 | 0 | 0 | 0 | 0 |
| Taxi (drop) | 8 | 0 | 8 | 0 | 0 | 0 | 0 |
| TNC (drop) | 9 | 0 | 9 | 0 | 0 | 0 | 0 |
| Airport Parking Shuttle (drop) | 11 | 0 | 11 | 0 | 0 | 0 | 0 |
| Rental Car Shuttle (drop) | 2 | 0 | 1 | 0 | 0 | 0 | 0 |
| Hotel Shuttle (drop) | 2 | 0 | 2 | 0 | 0 | 0 | 0 |
| Other | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Outputs

Quick Analysis Tool for Airport Roadways

QATAR v0.6 developed by LeighFisher in association with Dowling Associates, Inc.

Results: Detailed Report By Zone

Model run by: Kimley-Horn on 6/5/2018

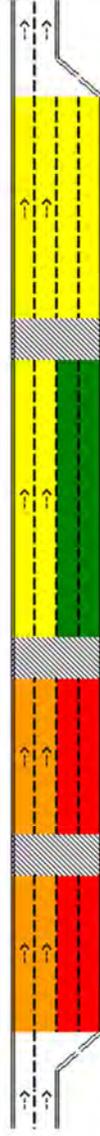
| ID | Zone 1 | Zone 2 | Zone 3 | Zone 4 | Zone 5 | Zone 6 | Zone 7 |
|---|-------------|-------------|------------|------------|------------|----------|----------|
| Name | | | | | | | |
| Type of zone | active | xwalk | active | xwalk | active | xwalk | active |
| Curbside length (feet) | 140 | 20 | 140 | 20 | 250 | 20 | 200 |
| Number of lanes | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Number of approach lanes | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Roadway volume (vph) | 1,057 | 1,057 | 1,057 | 1,057 | 1,057 | 1,057 | 1,057 |
| Curbside demand (vph) | 377 | - | 376 | - | 38 | - | 244 |
| Average dwell time (minutes) | 1.153236074 | 0 | 1.15284574 | 0 | 6 | - | 1 |
| Average vehicle length (feet) | 25.19893899 | 0 | 25.1861702 | 0 | 25 | - | 25.00 |
| Average vehicle arrival rate (vph) | 377 | 0 | 376 | 0 | 38 | - | 244.00 |
| Estimated service rate | 52.0275088 | 0 | 52.0451242 | 0 | 9.80392157 | 0.00E+00 | 5.19E+01 |
| Derived number of servers | 22 | 0 | 22 | 0 | 40 | - | 32.00 |
| Utilization factor | 0.329371212 | 0 | 0.32838636 | 0 | 0.0969 | - | 0.15 |
| Utilization ratio | 7.246166667 | 0 | 7.2245 | 0 | 3.876 | 0.0% | 470.2% |
| Idle probability | 0.000712902 | 0 | 0.00072852 | 0 | 0.02073359 | 0.0% | 0.9% |
| 95th percentile vehicles in system | 12 | | 12 | | 7 | | 900.0% |
| 95th percentile queue length | 0 | | 0 | | 0 | | 0.0% |
| % utilization | 0.545454545 | | 0.54545455 | | 0.175 | | 0.281 |
| % of 1st lane full when next vehicle double parks | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.500 | 0.500 |
| % of 2nd lane full when next vehicle triple parks | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.750 | 0.750 |
| Crosswalk adjustment factor | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.900 | 0.900 |
| Regional adjustment factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Through lane roadway capacity | 1786.48894 | 2850 | 1786.48894 | 2850 | 2865.74513 | 2,850.00 | 2,779.10 |
| Adjusted through lane roadway capacity | 1521.949231 | 2436.75 | 1521.94923 | 2436.75 | 2441.39133 | 2,436.75 | 2,367.58 |
| Estimated roadway V/C ratio | 0.694504113 | 0.433774495 | 0.69450411 | 0.43377449 | 0.43294985 | 0.434 | 0.446 |
| Curb capacity per lane (vehicles) | 6 | 0 | 6 | 0 | 10 | 0 | 8 |
| Curb utilization ratio | 2 | 0 | 2 | 0 | 0.7 | 0 | 1.125 |
| % occupancy in lane 1 | 1 | 0 | 1 | 0 | 0.595 | 0 | 0.81 |
| % occupancy in lane 2 | 0.87 | 0 | 0.87 | 0 | 0.095 | 0 | 0.31 |
| % occupancy in lane 3 | 0.12 | 0 | 0.12 | 0 | 0 | 0 | 0 |
| # of cars in curbside lane | 6 | 0 | 6 | 0 | 5.95 | 0 | 6.48 |
| # of double-parked cars | 5.22 | 0 | 5.22 | 0 | 0.95 | 0 | 2.48 |
| # of triple-parked cars | 0.72 | 0 | 0.72 | 0 | 0 | 0 | 0 |
| Curbside LOS | E | | E | | A | | C |
| Roadway LOS | D | C | D | C | C | C | C |

Quick Analysis Tool for Airport Roadways

QATAR v0.6 developed by LeighFisher in association with Dowling Associates, Inc.

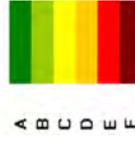
Results: Level-of-Service by Zone
 Model run by: Kimley-Horn on 6/5/2018

Airport: PIE
 Roadway location: Terminal 1
 Scenario: Mixed
 Level / type of roadway: 412
 Total lanes / approach lanes: 7
 Number of curbside zones: 7



| Zone ID | Name/description | Zone 1 | Zone 2 | Zone 3 | Zone 4 | Zone 5 | Zone 6 | Zone 7 |
|------------------------------------|------------------|--------|--------|--------|--------|--------|--------|--------|
| Curb length (feet) | | 140 | 20 | 140 | 20 | 250 | 20 | 200 |
| Zone type | | active | xwalk | active | xwalk | active | xwalk | active |
| Roadway volume (vph) | | 1,057 | 1,057 | 1,057 | 1,057 | 1,057 | 1,057 | 1,057 |
| Roadway capacity (vph) | | 1,522 | 2,437 | 1,522 | 2,437 | 2,441 | 2,437 | 2,368 |
| Roadway V/C ratio | | 0.695 | 0.434 | 0.695 | 0.434 | 0.433 | 0.434 | 0.446 |
| Roadway LOS | | D | C | D | C | C | C | C |
| Curb demand (# in sys 95% of time) | | 12.0 | N/A | 12.0 | N/A | 7.0 | N/A | 9.0 |
| Curb capacity per lane (vehicles) | | 6.0 | N/A | 6.0 | N/A | 10.0 | N/A | 8.0 |
| Curb utilization ratio | | 2,000 | N/A | 2,000 | N/A | 0.700 | N/A | 1.125 |
| Curb LOS | | E | N/A | E | N/A | A | N/A | C |

Level-of-service (LOS) key:



PAL 4 - PM

Inputs

Quick Analysis Tool for Airport Roadways
 QATAR v0.6 developed by LeighFisher in association with Dowling Associates, Inc.

Summary of Inputs and Assumptions
 Model run by: Kimley-Horn on 6/5/2018

| | |
|---|------------|
| Airport | PIE |
| Roadway location | Terminal 1 |
| Scenario | |
| Level / type of roadway | Mixed |
| Total lanes / approach lanes | 4 / 2 |
| Number of curbside zones | 7 |
| % of 1st lane full when next vehicle double park | 0.5 |
| % of 2nd lane full when next vehicle triple park: | 0.75 |
| Crosswalk adjustment factor | 0.9 |
| Regional adjustment factor | 0.95 |

Frontage and dwell time per curbside operation

| Vehicle class | Vehicle park | Average dwell time (minutes) |
|--------------------------------|--------------|------------------------------|
| Private Vehicle (staging) | 25 | 6.12 |
| Private Vehicle (pickup) | 25 | 1.17 |
| TNC (pickup) | 25 | 0.75 |
| Private Vehicle (drop) | 25 | 1.17 |
| Taxi (drop) | 25 | 1.02 |
| TNC (drop) | 25 | 0.92 |
| Airport Parking Shuttle (drop) | 30 | 0.82 |
| Rental Car Shuttle (drop) | 30 | 1.3 |
| Hotel Shuttle (drop) | 30 | 1.53 |
| Other | 30 | 3.5 |

Assumptions by zone

| Zone ID | Zone 1 | Zone 2 | Zone 3 | Zone 4 | Zone 5 | Zone 6 | Zone 7 |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|
| Name | | | | | | | |
| Type | active | walk | active | walk | active | walk | active |
| Curbside frontage (feet) | 140 | 20 | 140 | 20 | 250 | 20 | 200 |
| Number of lanes | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Number of approach lanes | 2 | 2 | 2 | 2 | 2 | 2 | 2 |

Volume of vehicles using roadway (vph)

| | | | | | | | |
|--------------------------------|-----|-----|-----|-----|-----|-----|-----|
| Private Vehicle (staging) | 83 | 83 | 83 | 83 | 83 | 83 | 83 |
| Private Vehicle (pickup) | 521 | 521 | 521 | 521 | 521 | 521 | 521 |
| TNC (pickup) | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| Private Vehicle (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Taxi (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TNC (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Airport Parking Shuttle (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rental Car Shuttle (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hotel Shuttle (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Volume of vehicles using curbside (vph)

| | | | | | | | |
|--------------------------------|---|---|---|---|----|---|-----|
| Private Vehicle (staging) | 0 | 0 | 0 | 0 | 75 | 0 | 0 |
| Private Vehicle (pickup) | 0 | 0 | 0 | 0 | 0 | 0 | 469 |
| TNC (pickup) | 0 | 0 | 0 | 0 | 0 | 0 | 16 |
| Private Vehicle (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Taxi (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TNC (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Airport Parking Shuttle (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rental Car Shuttle (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hotel Shuttle (drop) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Outputs

Quick Analysis Tool for Airport Roadways

QATAR v0.6 developed by LeighFisher in association with Dowling Associates, Inc.

Results: Detailed Report By Zone

Model run by: Kimley-Horn on 6/5/2018

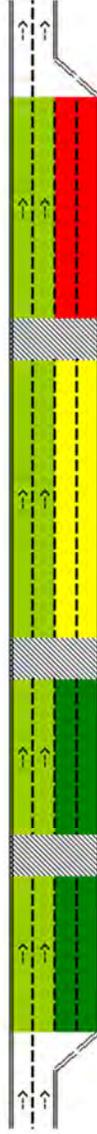
| ID | Zone 1 | Zone 2 | Zone 3 | Zone 4 | Zone 5 | Zone 6 | Zone 7 |
|---|------------|------------|------------|------------|------------|------------|------------|
| Name | | | | | | | |
| Type of zone | active | xwalk | active | xwalk | active | xwalk | active |
| Curbside length (feet) | 140 | 20 | 140 | 20 | 250 | 20 | 200 |
| Number of lanes | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Number of approach lanes | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Roadway volume (vph) | 620 | 620 | 620 | 620 | 620 | 620 | 620 |
| Curbside demand (vph) | - | - | - | - | 75 | - | 485 |
| Average dwell time (minutes) | 0 | 0 | 0 | 0 | 6.12 | 0 | 1.15614433 |
| Average vehicle length (feet) | 0 | 0 | 0 | 0 | 25 | 0 | 25 |
| Average vehicle arrival rate (vph) | 0 | 0 | 0 | 0 | 75 | 0 | 485 |
| Estimated service rate | 0 | 0 | 0 | 0 | 9.80392157 | 0 | 51.8966347 |
| Derived number of servers | 0 | 0 | 0 | 0 | 40 | 0 | 32 |
| Utilization factor | 0 | 0 | 0 | 0 | 0.19125 | 0 | 0.29204688 |
| Utilization ratio | 0 | 0 | 0 | 0 | 7.65 | 0 | 9.3455 |
| Idle probability | 1 | 0 | 1 | 0 | 0.00047604 | 0 | 8.7358E-05 |
| 95th percentile vehicles in system | 0 | | 0 | | 12 | | 15 |
| 95th percentile queue length | 0 | | 0 | | 0 | | 0 |
| % utilization | | | | | 0.3 | | 0.46875 |
| % of 1st lane full when next vehicle double p | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| % of 2nd lane full when next vehicle triple p | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 |
| Crosswalk adjustment factor | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| Regional adjustment factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Through lane roadway capacity | 2850 | 2850 | 2850 | 2850 | 2736.91864 | 2850 | 2000.41929 |
| Adjusted through lane roadway capacity | 2427.9777 | 2436.75 | 2427.9777 | 2436.75 | 2331.6412 | 2436.75 | 1704.2012 |
| Estimated roadway V/C ratio | 0.25535655 | 0.25443726 | 0.25535655 | 0.25443726 | 0.26590712 | 0.25443726 | 0.36380681 |
| Curb capacity per lane (vehicles) | 0 | 0 | 0 | 0 | 10 | 0 | 8 |
| Curb utilization ratio | 0 | 0 | 0 | 0 | 1.2 | 0 | 1.875 |
| % occupancy in lane 1 | 0 | 0 | 0 | 0 | 0.845 | 0 | 1 |
| % occupancy in lane 2 | 0 | 0 | 0 | 0 | 0.345 | 0 | 0.81 |
| % occupancy in lane 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0.06 |
| # of cars in curbside lane | 0 | 0 | 0 | 0 | 8.45 | 0 | 8 |
| # of double-parked cars | 0 | 0 | 0 | 0 | 3.45 | 0 | 6.48 |
| # of triple-parked cars | 0 | 0 | 0 | 0 | 0 | 0 | 0.48 |
| Curbside LOS | A | | A | | C | | E |
| Roadway LOS | B | B | B | B | B | B | B |

Quick Analysis Tool for Airport Roadways

QATAR v0.6 developed by LeighFisher in association with Dowling Associates, Inc.

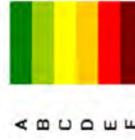
Results: Level-of-Service by Zone
 Model run by: Kimley-Horn on 6/5/2018

Airport: P/E
 Roadway/location: Terminal 1
 Scenario: Mixed
 Level / type of roadway: 4/2
 Total lanes / approach lanes: 7
 Number of curbside zones: 7



| Zone ID | Zone 1 | Zone 2 | Zone 3 | Zone 4 | Zone 5 | Zone 6 | Zone 7 |
|------------------------------------|--------|------------|--------|------------|--------|------------|--------|
| Name/description | | | | | | | |
| Curb length (feet) | 140 | 20 | 140 | 20 | 250 | 20 | 200 |
| Zone type | active | x/wal k | active | x/wal k | active | x/wal k | active |
| Roadway volume (vph) | 620 | 620 | 620 | 620 | 620 | 620 | 620 |
| Roadway capacity (vph) | 2,428 | 2,437 | 2,428 | 2,437 | 2,332 | 2,437 | 1,704 |
| Roadway V/C ratio | 0.255 | 0.254 | 0.255 | 0.254 | 0.266 | 0.254 | 0.364 |
| Roadway LOS | B | B | B | B | B | B | B |
| Curb demand (# in sys 95% of time) | 0.0 | N/A | 0.0 | N/A | 12.0 | N/A | 15.0 |
| Curb capacity per lane (vehicles) | 0.0 | N/A | 0.0 | N/A | 10.0 | N/A | 8.0 |
| Curb utilization ratio | 0.000 | N/A | 0.000 | N/A | 1.200 | N/A | 1.875 |
| Curb LOS | A | N/A | A | N/A | C | N/A | E |

Level-of-service (LOS) key:



APPENDIX F

Recycling, Reuse, and Waste Reduction Plan

APPENDIX F

Recycling, Reuse, and Waste Reduction Plan

In 2012, the *Federal Aviation Administration (FAA) Modernization and Reform Act of 2012* was issued and included a new requirement for airport master plans to address recycling by:

- Assessing the feasibility of solid waste recycling at the airport;
- Minimizing the generation of waste at the airport;
- Identifying operations and maintenance requirements;
- Reviewing waste management contracts; and
- Identifying the potential for cost savings or generation of revenue.

Subsequent to the passing of the 2012 FAA Reauthorization bill, the FAA issued guidance¹ on preparing recycling, reuse, and waste reduction plans as part of airport master plans. This appendix provides detailed information regarding the management of St. Pete-Clearwater International Airport's (PIE) waste and recycling programs. This Recycling, Reuse, and Waste Reduction Plan (RRWRP) includes a waste audit, a review of PIE's waste management and recycling operations throughout the terminal and airfield, and a review of tenant practices.

F.1 Airport Description and Background

Recycling was initiated at PIE approximately seven years ago, and currently includes cardboard only. The airport has direct control over waste disposed of in the parking lots, public and passenger terminal spaces (e.g., terminal areas and offices), and the airfield. Pinellas County does not mandate recycling. Solid waste and recycling collection are provided by several contractors, including Waste Pro and Waste Management, as well as pickups by Pinellas County.

PIE owns a significant amount of property that is leased, which also includes property outside the aircraft operating area (AOA) fence line. PIE has more than 20 commercial business tenants located either within the AOA fence line, including several that have informal recycling programs. For example, there are tenants that currently recycle fluorescent light bulbs and scrap metals. Working with these tenants could improve the airport's overall recycling practices, including additional recycling activities by tenants.

The majority of waste at an airport is generated by passengers, tenants, and airport users. Common waste disposed of at PIE, including that by tenants, consists of:

- Common office/terminal waste: paper, plastic (hard plastic containers and film plastics), cans and bottles, food and food-packaging waste, and cardboard boxes.
- Deplaned waste (e.g., beverage cups and newspapers).

¹ FAA. *Guidance on Airport Recycling, Reuse, and Waste Reduction Plans*. September 30, 2014.
<http://www.faa.gov/airports/environmental/media/airport-recycling-reuse-waste-reduction-plans-guidance.pdf>

- Construction and demolition waste from construction projects.
- Hazardous waste such as batteries, fluorescent light tubes, solvents, and paint.

The airport is responsible for collecting waste generated by the passenger terminal users and airport employees. The tenants are responsible for their own trash and recycling disposal. In addition to municipal solid waste, the airport and some of the tenants have hazardous waste, spill waste, and project-related construction and demolition waste, which are typically managed by a contractor.

Containers used to contain the airport’s waste for collection and cardboard recycling are located at various areas around the airport property (see **Figure F-1**). **Figure F-2** depicts the typical combination waste/recycling receptacles that are located throughout the public spaces in the terminal building.

Figure F-1

Examples of PIE Waste and Recycling Containers



Figure F-2

Typical Waste/Recycling Receptacle



The local landfill and recycling facility (Bridgeway Acres Landfill, located on 110th Avenue North in St. Petersburg) is approximately 1.5 miles south of PIE. The primary commodity markets in this area are for scrap metals (e.g., steel, aluminum); presently, several tenants retain these materials for sale in the marketplace.

Most of the waste generated by the airport staff is from the office areas; however, this is a small volume relative to the overall waste airport-wide, which is generated by tenants and other airport users. The airport administrative office has paper recycling bins located throughout the office areas. Employees are encouraged to use less paper through the use of electronic files as well as double-sided printing, and all printing occurs on one centralized printer. Recycling bins are co-located with waste bins throughout the passenger terminal areas.

Some of the waste minimization efforts undertaken by one or more tenants include:

- Double-sided printing and electronic document usage/storage.
- Recycling of fluorescent light bulbs, oil, and cleaning solvents.
- Conversion from fluorescent light bulbs to light emitting diode (LED) light bulbs.
- Recycling of scrap metal.

PIE does not have a formalized recycling/waste reduction program; however, the airport has taken steps to reduce waste and increase recycling. There are no formalized goals or targets for recycling and no tracking or reporting on the performance of the solid waste recycling programs at PIE. Due to the way solid waste and recycling services are billed (i.e., flat rate billing rather than by volume), it is difficult to track and monitor the airport's performance. A formalized recycling program could be established, but staff time requirements are commonly a challenge to such programs and limited resources are available to implement waste-reduction initiatives.

F.2 Waste Audit

A waste audit was conducted in October 2018. The waste audit included sorting through the contents of the refuse dumpsters and recycling dumpster for contamination (e.g., recyclables in waste bins and vice versa, hazardous materials, etc.), a walk-through of the passenger terminal facilities to identify current practices, and a similar walk-through of select tenant facilities. As previously mentioned, PIE only recycles cardboard, and a visual inspection of the recycling dumpster did not reveal any contamination; however, it was noted that some cardboard was present in the waste dumpsters.

Sorting the waste that was discarded in the dumpsters revealed that at least 65 percent of this trash (by volume) could have been diverted from the landfill through recycling or composting (see **Figure F-3**), which included paper, plastic, and aluminum. Additionally, sorting revealed a large amount of food waste (presumably from the airport restaurant) that would have been compostable. In addition to recyclables, some materials that should not have been discarded included garage door openers, wallets, and a wheel/tire combination (assumed from rental car operations).

Figure F-3
Examples of Sorted Waste



Contractors responsible for waste removal at PIE (i.e., Waste Pro, Waste Management) bill PIE based on container volumes and do not track the actual volume or weight of waste and recycling. Currently, PIE has four waste containers (eight cubic yards each) picked up six days per week (every day but Sunday); and one eight cubic yard container for cardboard that is also picked up six days per week.

There are no set requirements for construction and demolition materials; however, recycling efforts include recycling scrap metals when possible.

The airport is responsible for collecting waste generated by passengers and airport employees. Additionally, the airport is responsible for the ramp agents that collect trash from several on-airfield tenants as well as the airlines. Many of the other tenants are responsible for their own trash and recycling disposal. In addition to municipal solid waste, the airport and some of the tenants may have hazardous waste (typically waste oil/fuel and cleaning solvents) and spill waste, as described above. Project-related construction and demolition waste is managed by a contractor, typically under contract to the airport or one of its tenants. Landscaping waste is managed similarly.

F.3 Review of Recycling Feasibility

PIE currently experiences factors that impact the airport’s ability to recycle. There is limited financial incentive to recycle because the volume of waste and recycled materials at PIE is low. PIE is also an airport with limited staff resources, which would make recycling programs challenging to implement. PIE has a large footprint with many tenants and it is logistically challenging to coordinate with each and every tenant. Continual coordination with all of the tenants would be time consuming for the limited administrative staff.

Additionally, discussions with airport staff revealed that contamination due to airport users incorrectly disposing of trash (i.e., placing recyclables in trash receptacles) is one of the greatest barriers to an effective recycling program.

F.4 Operation and Maintenance (O&M) Requirements

PIE janitorial staff are responsible for collecting in-house waste from the passenger terminal and airport office spaces, which typically occurs hourly in the terminal spaces and daily throughout the airport administrative areas. Janitorial staff are also responsible for transporting waste to the disposal containers. Pinellas County is responsible for tracking and paying bills related to waste management services at the airport.

F.5 Review of Waste Management Contracts

As previously mentioned, two private contractors (Waste Pro and Waste Management) as well as Pinellas County are responsible for providing recycling and waste removal services at PIE. The airport is charged a flat rate for solid waste services and volume information was not available. There is no requirement for, or impediment to, the use of environmentally-preferred products.

PIE has more than 20 commercial business tenants located either within the AOA fence. Each company has its own lease, with its own time frame. Individual tenant leases were requested; however, this information was unavailable.

F.6 Potential for Cost Savings or Revenue Generation

The airport may be able to sell scrap metal, particularly from construction and demolition projects. Some of the current tenants sell scrap metals, proving the commodity market is present in the area. However, the low volume of waste limits the potential for savings or a reliable revenue generation option.

F.7 Plan to Minimize Solid Waste Generation

PIE does not have a formalized recycling and waste reduction program, but does encourage and support recycling in the administrative offices and the passenger terminal. The airport and many tenants have been actively recycling municipal solid waste for several years.

Many initiatives were identified for this RRWRP that would advance PIE's waste reduction and recycling efforts. These initiatives include the following.

- **Broaden the Recycling Program:** Work with Pinellas County, as well as the City of St. Petersburg and City of Clearwater, to embrace a top-down approach to the recycling program to be implemented by the County/Cities and encourage employee participation. The program should incentivize waste reduction, diversion, and recycling. Identify relevant waste reduction goals as well as recycling methods (e.g., reusable toner cartridges, rechargeable batteries, reusable packaging, etc.) to further this program.
- **Develop Environmentally Preferable Purchasing Procedures:** Work with the County and Cities to establish procedures for purchasing materials with recycled/bio-based content, low toxicity, or other environmentally-friendly products. Consider Green Label

- equipment in purchasing guidelines or other equipment that has low emissions and/or low sound levels.
- **Provide Additional Recycling Bins:** Collocate recycling receptacles with waste receptacles throughout the passenger terminal and airport offices, and use same-sized receptacles where practical.
 - **Develop an Awareness Campaign:** Educate employees, tenants, and passengers about proper recycling practices; this could include posters and additional signage.
 - **Periodic Monitoring:** Conduct a monthly walk-through of passenger terminal and airport offices to monitor the progress of the waste reduction and recycling program.
 - **Provide Hand Dryers:** For restrooms that don't already have them, install high-efficiency hand dryers, and reposition towel dispensers to reduce paper towel use.
 - **Charitable Donations:** Collect lost and found items (e.g., jackets, sunglasses), as well as materials abandoned at the security checkpoints, and donate these materials to a local charity, as allowable.
 - **Improve Handling of Deplaned Waste:** Work with airlines to ensure deplaned waste is appropriately recycled. Provide bins and signage where needed.
 - **Enhance Tenant Engagement:** Coordinate with tenants to consolidate materials and improve economies of scale.
 - **Update Contract Language:** Revise existing contract language to establish waste diversion or recycling goals for all tenants, with annual audits and training provided by Pinellas County; or potentially the City of St. Petersburg, City of Clearwater, or a qualified third party.
 - **Host a Periodic Universal Waste Collection Day:** Coordinate with the solid waste departments of Pinellas County, the City of St. Petersburg, or City of Clearwater to host a periodic (recommend quarterly or semi-annually) collection day for universal waste. Provide an opportunity to airport employees, tenants, and the local community to drop off materials such as batteries, lightbulbs, electronics, pesticides, and more.

This plan would not require any significant capital improvements. The most significant investment would be providing additional in-house recycling receptacles and signage which could be added when there is available operating budget. The airport should consider future development projects, and whether any of the initiatives would become obsolete or if there would be synergy in implementing the initiative as part of a future project (e.g., develop recycling signage when replacing other airport signs).

The recommended plan is flexible and would allow PIE to implement initiatives when it is financially and logistically feasible. Many of the initiatives could be implemented in phases or in conjunction with other projects, such as installing high efficiency hand dryers when renovating or constructing new restroom facilities.

It is recommended that PIE review their waste reduction initiatives annually to identify whether they need to be revised or updated to meet current goals or new goals established in the future. The

airport's plan should document the process and requirements for including waste reduction in new development projects as well as establishing goals for utilizing recycled/repurposed materials for new development projects (as applicable).

Additional Resources

Leadership in Energy and Environmental Design (LEED) is a rating system which evaluates the sustainability / environmental performance of building development projects. The LEED rating criteria provide valuable ideas for waste reduction techniques during construction and operation of new facilities, and *LEED for Existing Building O&M* (LEED EBOM)² provides ideas for waste reduction at existing facilities. The Sustainable Aviation Guidance Alliance³ also provides ideas for advancing airport sustainability efforts, including waste reduction and recycling.

² <https://www.usgbc.org/articles/getting-know-lead-building-operations-and-maintenance-om>

³ <http://airportsustainability.org/>

APPENDIX G

Sustainability Elements



Memorandum

To: Doug DiCarlo (ESA)

Date: August 13, 2018

Project #: 66165.00

From: Ben Siwinski (VHB)

Re: TASK 5.3.1 - St. Pete-Clearwater International Airport (PIE)
Sustainability Baseline Assessment Overview

This memorandum provides the sustainability baseline assessment for the St. Pete-Clearwater International Airport (PIE or the Airport) in support of the ongoing Airport Master Plan. Comprehension of the sustainability performance and information provided will facilitate evaluation and measurement of sustainability metrics and initiatives for prospective implementation. Where applicable, resource use is correlated with the number of passengers using the Airport. Historical passenger use is listed in **Table 1-1**. Figures referenced throughout the memorandum are provided in **Attachment 1**.

The Sustainability Baseline Assessment includes the following topics:

- Water Resources
- Energy
- Economic Impact and Community
- Procurement and Operational Policies
- Tenant Sustainability

Table 1-1 St Pete-Clearwater International Airport Annual Passengers (2015-2017)

| Month | 2015 | 2016 | 2017 |
|--------------------------------|------------------|------------------|------------------|
| January | 109,628 | 124,742 | 150,112 |
| February | 116,483 | 137,907 | 151,795 |
| March | 167,263 | 184,454 | 206,806 |
| April | 143,657 | 146,723 | 181,649 |
| May | 135,022 | 150,421 | 166,314 |
| June | 157,220 | 175,787 | 195,060 |
| July | 173,743 | 194,243 | 204,853 |
| August | 133,846 | 142,458 | 156,983 |
| September | 91,607 | 118,304 | 100,249 |
| October | 136,718 | 153,677 | 178,372 |
| November | 134,860 | 144,394 | 171,040 |
| December | 145,355 | 163,925 | 192,036 |
| Total Annual Passengers | 1,645,402 | 1,837,035 | 2,055,269 |

Source: PIE Total Passengers Spreadsheet, St. Pete-Clearwater International Airport. (2018, April).

Water Resources

Introduction

Water resources are categorized into water use, stormwater and water quality, and water-based natural resources. The Airport implements potable water reduction practices and uses reclaimed water for irrigation to conserve local water resources. The Airport minimizes potential stormwater and pollution impacts by implementing a Stormwater Management Plan; Stormwater Pollution Prevention Plan (SWPPP); and Spill Prevention, Control, and Countermeasure (SPCC) Plan.

Water Use

Pinellas County provides potable water to the Airport through fourteen (14) meters divided into Terminal and Other Buildings¹ categories (see data table in **Attachment 4**). Irrigation is conducted with reclaimed water from the City of Largo (see data table in **Attachment 4**). Tracking of water use data in this baseline assessment starts December 2015 through February 2018. Overall water usage has decreased at the Airport during this time period (see **Attachment 1, Figure 1-1**).

The Terminal (passenger use) average daily water usage fluctuated monthly with an overall decrease, in comparison to the constant average daily water usage for Irrigation (reclaimed water) and Other Buildings (see **Attachment 1, Figure 1-2**). Daily potable water usage in the Terminal averaged 14.47 kilogallons (kgal), with daily Irrigation water usage averaging 8.68 kgal, and water usage in Other Buildings averaging 0.46 kgal daily. Passenger traffic fluctuates seasonally; therefore, historical passenger data was used to determine Terminal building water usage per passenger (see **Attachment 1, Figure 1-3**).

Water Quality

Maintaining and enhancing water quality plays a vital role in the Airport's sustainability performance. The Airport has formed several plans that aim to protect and enhance water quality, including:

- Stormwater Pollution Prevention Plan (SWPPP)
 - › Erosion and sediment control
 - › Structural development to prevent exposed soil, and divert pollutant discharge (drainage fixtures, silt fences, lining of existing culvers to seal cracks at pipe joint dislocations, etc.)
 - › Stormwater management
- Spill Prevention, Control, and Countermeasure Plan (SPCC)
 - › Prevention of oil discharge of oil into waterbodies
 - › Control measures to prevent oil spills from entering waterbodies
 - › Countermeasure procedures to clean, restrain, and mitigate areas affected by oil spills
- Stormwater Management Plan

¹ Term refers to all buildings other than the terminal. This includes Fixed Base Operator buildings, Aircraft Rescue and Firefighting facility, and others.

- › Maintenance of safe, economic, and efficient stormwater operations separate storm sewer system
- › Treatment of stormwater runoff before it leaves the storm drainage system and enters waterbodies
- Surface Water Management Plan
 - › Addresses flooding, water quality, and county-owned stormwater systems
 - › Includes assessment of impervious surfaces which increase stormwater runoff and cause pollution and flooding issues

As part of its commitment to develop the Airport in a manner that protects the built environment and natural resources, a stormwater management plan is being developed as part of this Master Plan.

Water-based Natural Resources

Southwest Florida Water Management District provided the Airport with a Seagrass Permit (see **Attachment 1, Figure 1-4.**), which allowed for completion of the Seagrass Marsh Habitat Oyster Bar Mitigation effort. The mitigation effort allowed the Airport to conduct grading and excavation for development north of the T-Hangar area.

Energy

Introduction

A review of historic energy use was conducted for the following areas:

- Terminal
- Airfield lighting
- Landside lighting
- Other buildings²

Electric energy usage was evaluated using billing data from Duke Energy for the period of January through December 2017. Overall average daily electrical energy use at the Airport increased slightly since 2017 (see **Attachment 1, Figure 1-6**). Average electrical energy use per month fluctuated, with an aggregate increase over time (see **Attachment 1, Figure 1-5**). To account for seasonal changes in passenger use of the Terminal facility, the average monthly electric energy use per passenger in the Terminal is provided in **Attachment 1, Figure 1-7**. A notable increase of average monthly energy use per passenger in the Terminal occurred in September 2017, likely due to the fact that the Airport was closed to passenger traffic during Hurricane Irma (resulting in overall reduction in passengers; see **Table 1-1** above) while continuing to use energy with cooling and lighting. Average daily energy use in the Terminal fluctuated monthly, with an overall increase over time (see **Attachment 1, Figure 1-7**), which could be due to increases in passenger use (see **Table 1-1** above).

The Airport has reduced energy usage in the passenger terminal facility through use of a Building Energy Management system. Energy reduction is attributed to, but is not limited to, a system-controlling HVAC system and room occupancy light sensors. There is currently one Airport-owned hybrid vehicle, the GemCar,³ which is used for

² Term refers to all buildings other than the terminal. This includes Fixed Base Operator buildings, Aircraft Rescue and Firefighting facility, and any unidentified buildings.

³ <https://gem.polaris.com/en-us/>

traffic enforcement within Airport property. Additionally, two gates use 400Hz connections and/or pre-conditioned air, which increase terminal energy use but decrease air emissions from idling aircraft.

Economic Impact and Community

The Airport is home to a variety of businesses and organizations that result in an important employment center for the region. A recent Airport Economic Activity and Economic Impact Study⁴ noted that PIE contributed to 7,020 full-time equivalent (FTE) jobs in 2016, including the following: direct airport, visitor spending, new domestic routes, new international routes, non-airline aviation operations, and non-airline (General and Military Aviation) jobs.

In addition to aeronautical activity, PIE provides a variety of non-aeronautical facilities and services, attributing to the economy and tourism of Pinellas County. The total economic impact of non-aeronautical activity is approximated at 1,417.1 FTE, an estimated \$1.044 billion, and labor income of \$81.275 million per FTE of \$59,355.⁵

The Airport is involved in an array of community activities. Example community services activities include:

- Big Brothers Big Sisters Workplace Monitoring Program (since 2016);
- Pinellas County Schools Lunch Pal Mentors;
- Food & Supply Drive for Hispanic Outreach Network Puerto Rico Evacuee Families (since 2017);
- Pinellas County Schools Executive Internship Program;
- Quarterly Mobile Blood Drive;
- Airport Employee Food Drives (various charities);
- World War II Veterans Honor Flights; and,
- Tony Jannus Distinguished Aviation Society members.

Procurement and Operational Policies

Procurement and Purchasing

The Airport seeks opportunities for cooperative purchases with government entities, adhere to County recycled product procurement policies, and to decrease volume of paperwork (moving to electronic documentation). Procurement policies for recycled materials is encouraged under the Pinellas County guidelines.⁶ The Pinellas County Director of Purchasing requires bidders to specify products made of recycled materials.

The Airport diversity program includes consideration of Disadvantaged Business Enterprises (DBE), Small Business Enterprises (SBE), and Airport Concession Disadvantaged Business Enterprises (ACDBE), which is encouraged by the

⁴ St. Pete-Clearwater International (PIE). (2018, May). St. Pete-Clearwater International (PIE) Economic Impact ... Retrieved May 20, 2018, from http://fly2pie.com/docs/default-source/news/press-releases/2018/pie-economic-impact-report.pdf?sfvrsn=23cb4ddb_2&p=DevEx.LB.1,5037.1

⁵ Ibid.

⁶ Pinellas County. (n.d.). Purchasing Policies - Existing Procurement Procedures [PDF]. Pinellas County. [http://www.pinellascounty.org/purchase/PolicyandProcedureManual%2008-2017%20\(Section%2015%20Revised\).pdf](http://www.pinellascounty.org/purchase/PolicyandProcedureManual%2008-2017%20(Section%2015%20Revised).pdf)

County for employee hiring diversity practices, as well as seeking to do business with companies who are owned by historically disadvantaged populations.⁷

Operations

Minimum standards apply to any person or entity that provides one or more commercial aeronautical services or operates a private or commercial hangar at the Airport. These include minimum standards of fair and reasonable opportunity without discrimination and honoring the noise abatement and mitigation procedures.⁸ Minimum standards are implemented to ensure a consistent standard and quality for all Airport tenants. All tenants are required to enter into an agreement, permit, license, or lease with the County in order to operate on the Airport. These standards support sustainability efforts of the Airport through policies that foster promotion of orderly development of airport land, protection from unlicensed and unauthorized products and services, and provision of service providers with a satisfactory level of service.

Tenant Sustainability

Introduction

An online Sustainability Planning Questionnaire Survey was distributed by email to PIE's tenants on April 6, 2018. The survey was intended to gain information on current tenant sustainability practices, and to solicit ideas regarding the Airport's prospective sustainability efforts which could be leveraged by tenants (see **Attachment 2**).

Tenants were surveyed on current sustainability practices, initiatives, activities, and were asked to provide any useful documentation or suggestions to the Consultant Team.

The survey results reflected the following:

- Two tenants have formalized sustainability programs/policies.
- All survey participants implement initiatives to contribute to the sustainability of their business or the Airport.
- Two tenants provided various suggestions to enhance the sustainability of PIE facilities:
 - › LED lights in all the parking locations;
 - › Electric charging stations;
 - › Alternative fuel vehicles for the shuttle programs;
 - › Upgrade fixtures and motion activated on/off switches;
 - › Waterless/"flushless" toilets;
 - › Drought tolerant landscaping;
 - › Energy Efficient windows;
 - › Solar panels on airport roofs; and,

⁷ Pinellas County. (n.d.). Training & Development. Retrieved May 19, 2018, from http://www.pinellascounty.org/hr/training_development.htm

⁸ St. Pete-Clearwater international Airport (PIE). (n.d.). Airport Projects Information [PDF]. St. Pete-Clearwater International Airport (PIE). http://www.fly2pie.com/docs/default-source/news/airport-projects-information/1628-pie - airport_min_stand_5-01-12_final.pdf?sfvrsn=2

- › Favorable lease terms and rent credits for sustainable renovation/construction.

Tenant Sustainability Highlight

In the survey, tenants were offered the opportunity to showcase their sustainability programs, activities, and policies. Below are the tenants' sustainability programs, activities and policies:

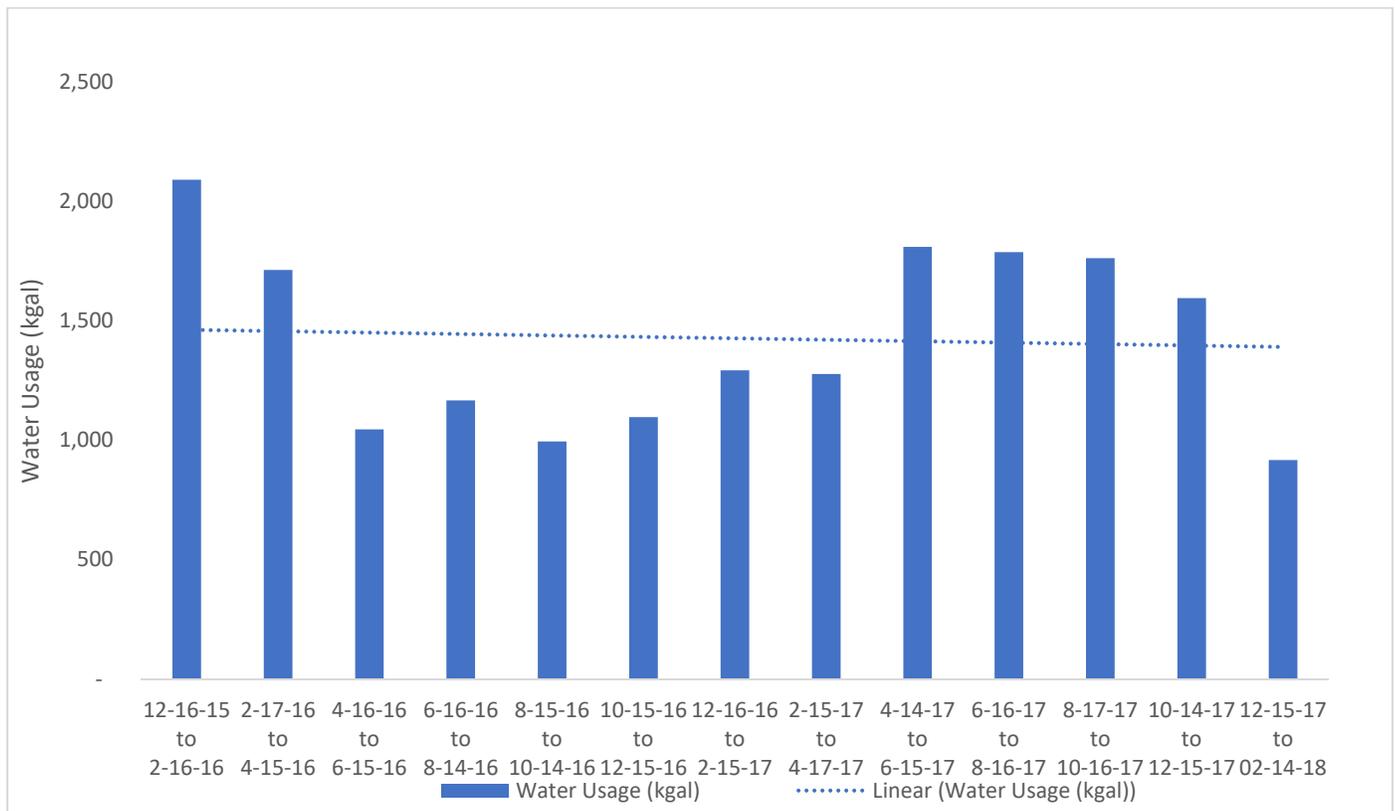
- BBA Aviation
 - › Sustainability is embedded in their Corporate Social Responsibility (CSR) Approach:
 - Management of societal and environmental impacts by taking the responsible approach to the operations and conduct of the company.
 - Commitment to limiting business activity impacts on the environment.
 - Commitment to continuous improvement in environmental performance each year, including elimination of environmental incidents.
 - Reduction of environmental impact through use of resources.
 - Use of technology that supports business objectives in conjunction with environmental benefits.
 - Commitment to reducing and preventing pollution and reducing emissions.
 - Work with customers and supply chains that develop effective and sustainable products.
 - Compliance with international and local environmental legislation.
 - Provision of information to personnel in order to meet the company's environmental goals.
- Signature Flight Support⁹
 - › Sustainability is embedded in the company's Corporate Responsibility Policy:
 - Commitment to innovation in both local community and environmental aspects.
 - Eco-friendly facility design, construction, and operations (\$100 million dollars spent towards the design over a period of five years).
 - Ecological responsibility achievements include being the first LEED-certified FBO and LEED-certified hangar,¹⁰ conscious purchase of low emissions equipment, and a network wide recycling initiative.
 - Positive impact on society and environment through delivery of services, and personnel conduct.
 - Participation in the Carbon Disclosure Project.
 - Commitment to monitoring and reporting efficiency to improve environmental performance.
 - Use of electric crew cars and charge stations.

⁹ Expressed interest in submitting additional information. Current information retrieved from company website.

¹⁰ LEED-certified FBO and LEED-certified hangar currently at San Francisco International Airport and Norman Y. Mineta San Jose International Airport only.

ATTACHMENT 1: Figures and Graphs

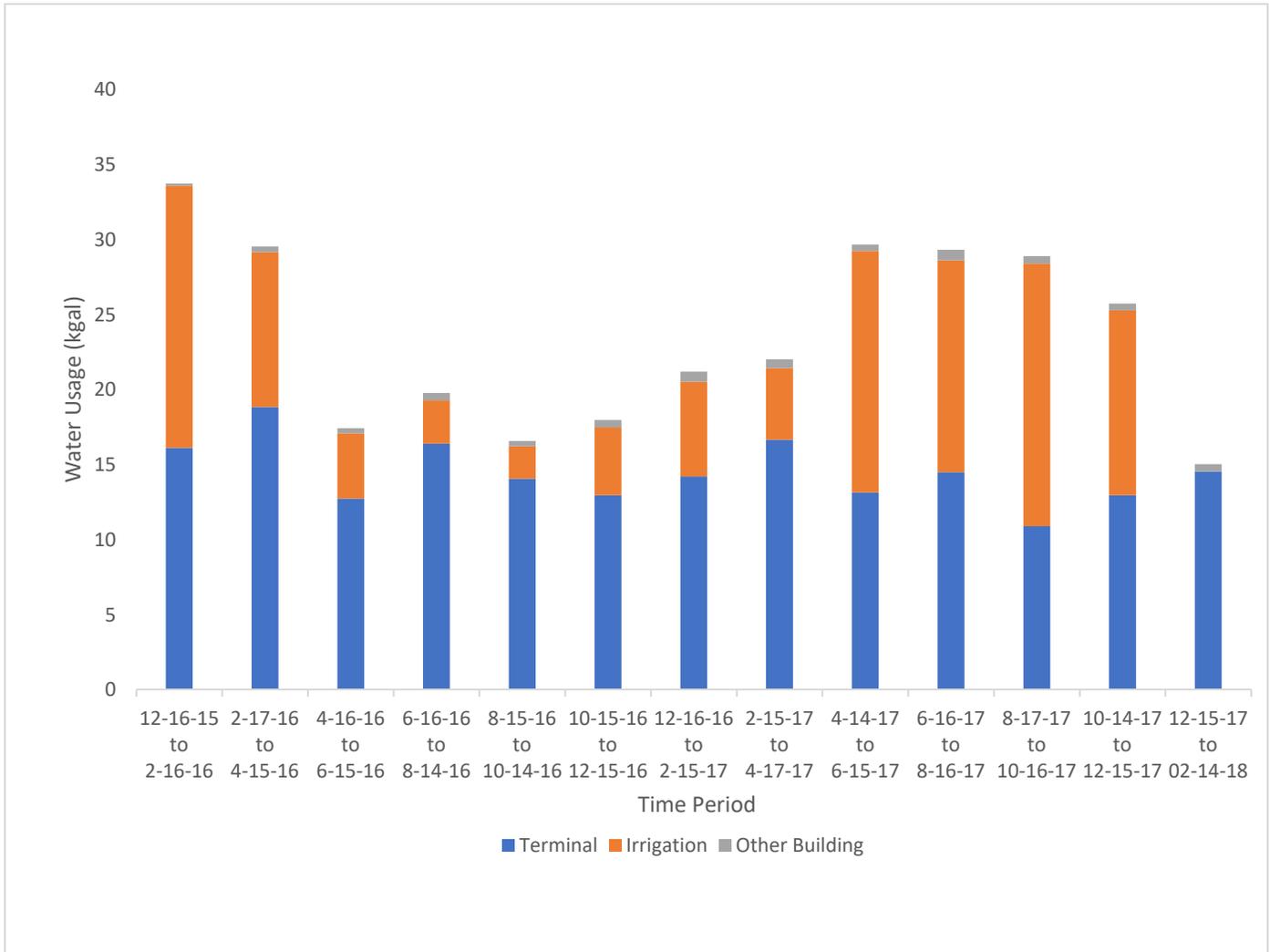
Figure 1-1 Overall Water Use at PIE (December 2015 through February 2018)



Source: Pinellas County, City of Largo. [PIE Energy and Water Input Spreadsheet].

Note: Two months of data were used for each time period within the water usage graphs. The exception was July – October 2017, which was adjusted proportionally due to missing July utility bills and overlapping billing periods.

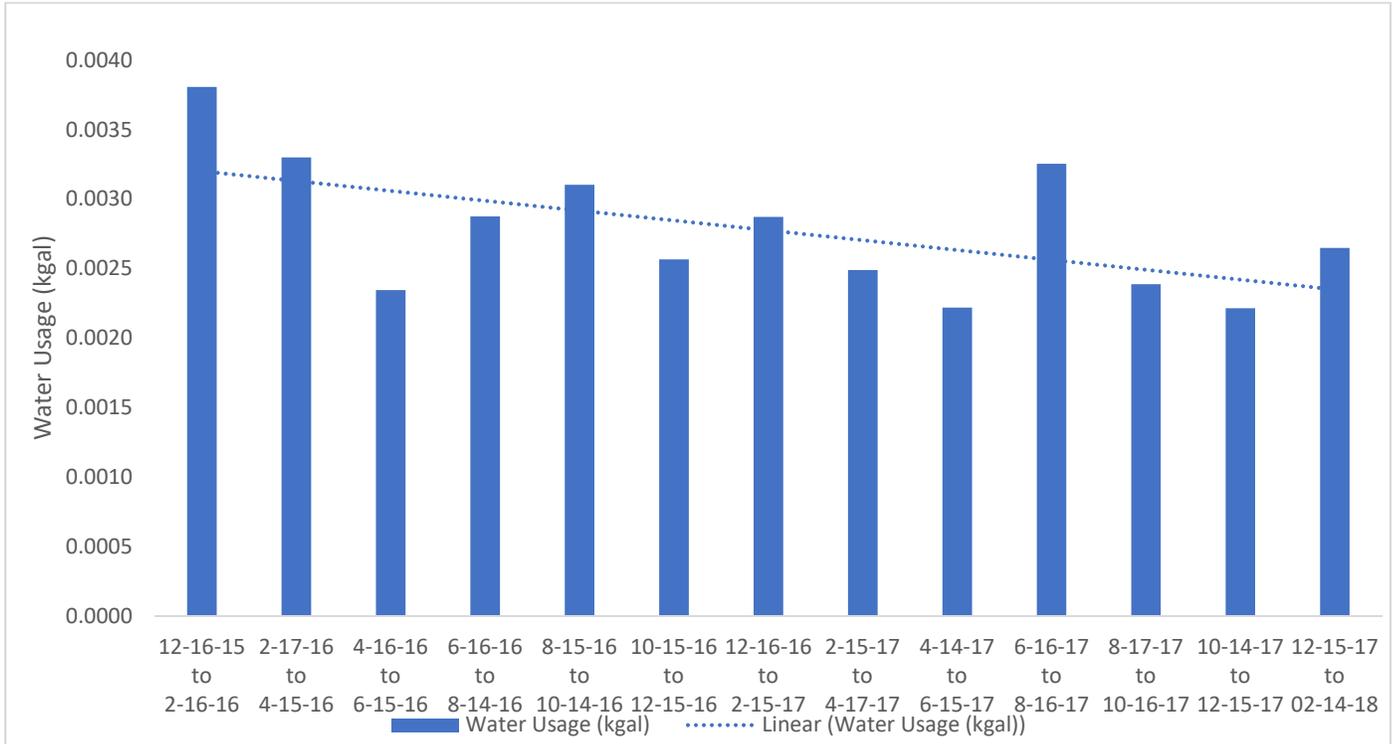
Figure 1-2 Average Daily Water Use at PIE (December 2015 through February 2018)- Terminal, Irrigation, Other Buildings



Source: Pinellas County, City of Largo. (2018, April). [PIE Energy and Water Input Spreadsheet].

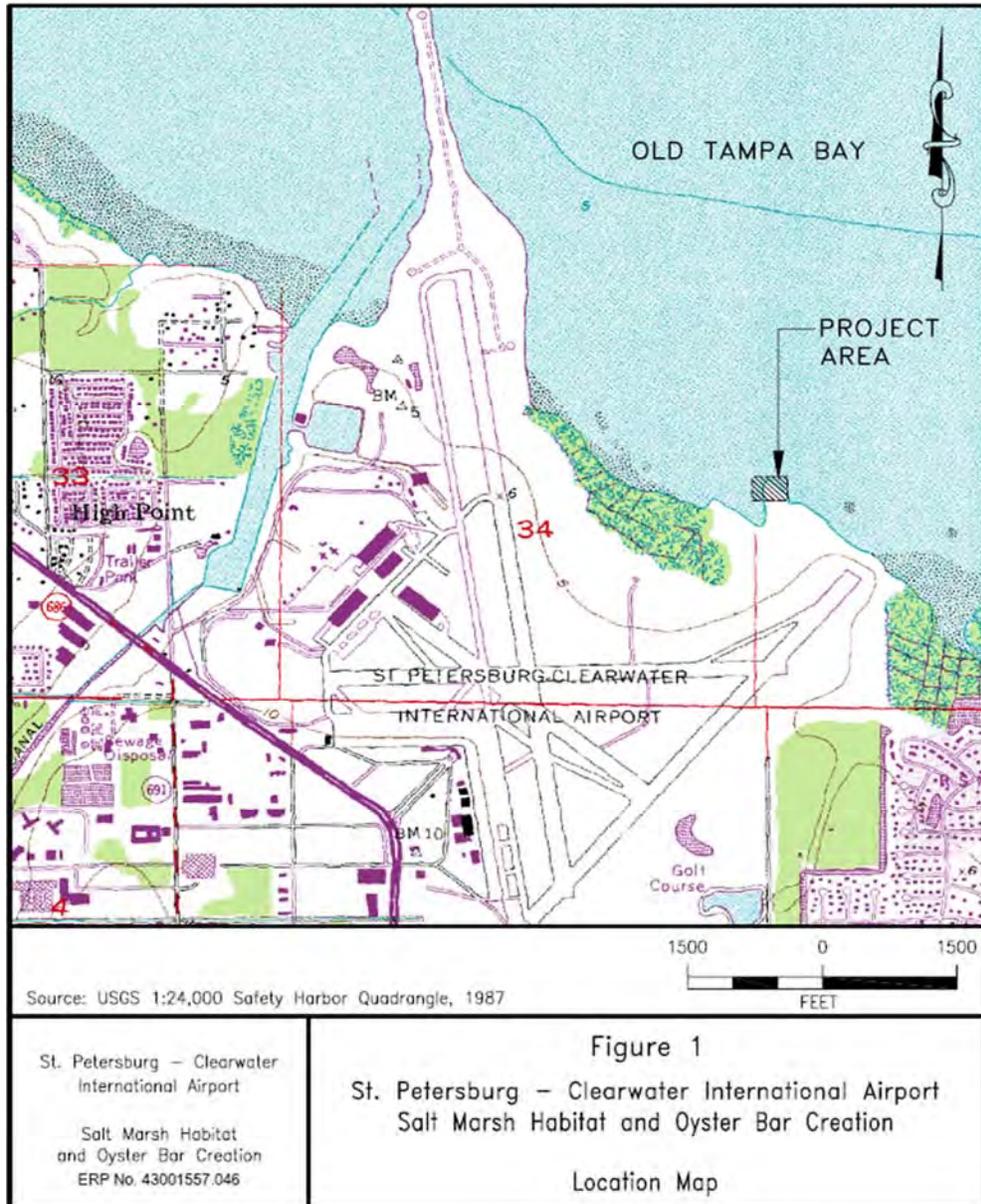
Note: Two months of data were used for each time period within the water usage graphs. The exception was July – October 2017, which was adjusted proportionally due to missing July utility bills and overlapping billing periods.

Figure 1-3 Average Daily Water Use per Passenger at PIE (December 2015 through February 2018)-Terminal



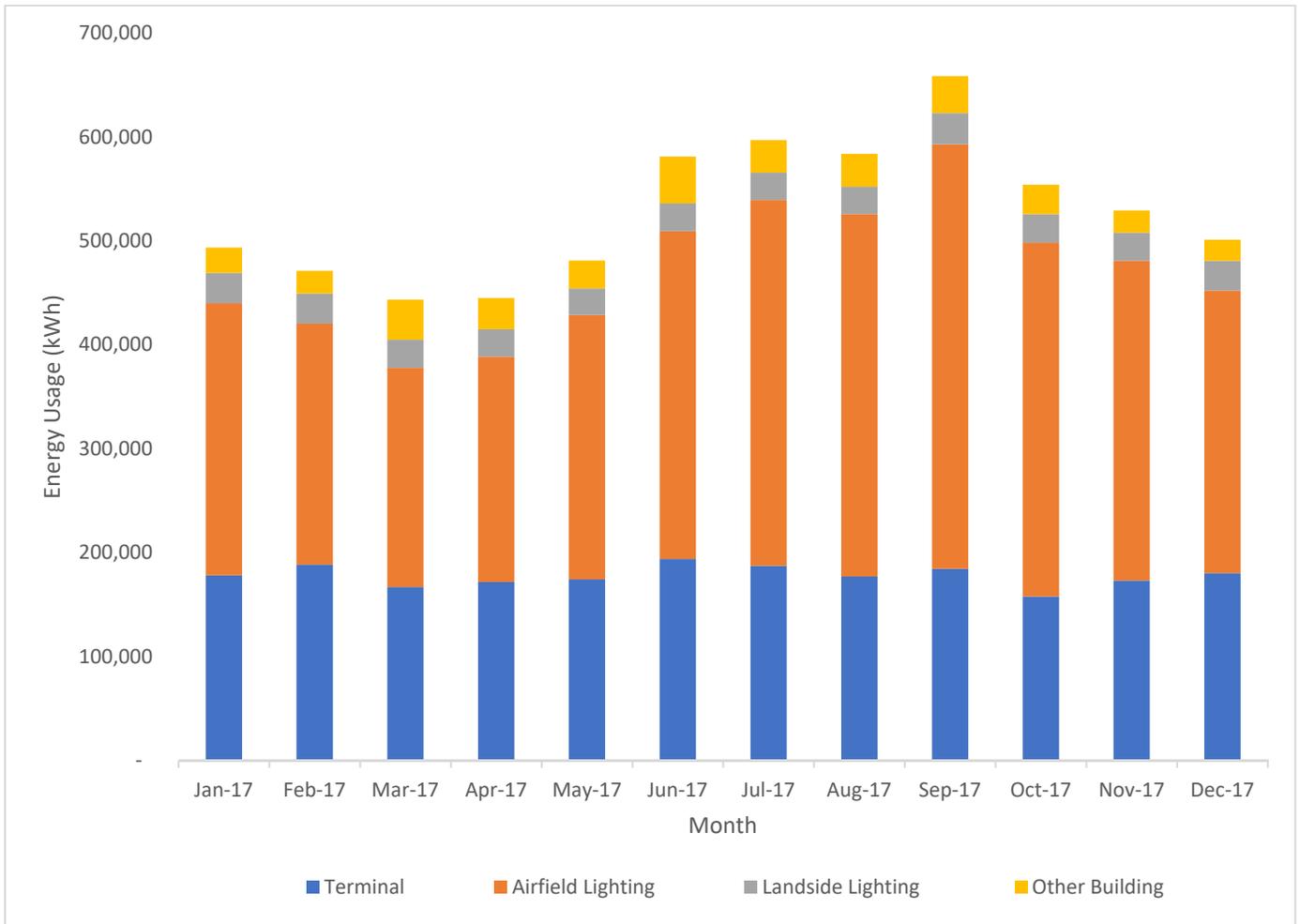
Source: Pinellas County, St. Pete-Clearwater International Airport. (2018, April). [PIE Total Passengers Spreadsheet]. Unpublished raw data.
 Note: Two months of data were used for each time period within the water usage graphs. The exception was July – October 2017, which was adjusted proportionally due to missing July utility bills and overlapping billing periods.

Figure 1-4 St. Pete-Clearwater International Airport (PIE) Salt Marsh-Oyster Bar Mitigation Area



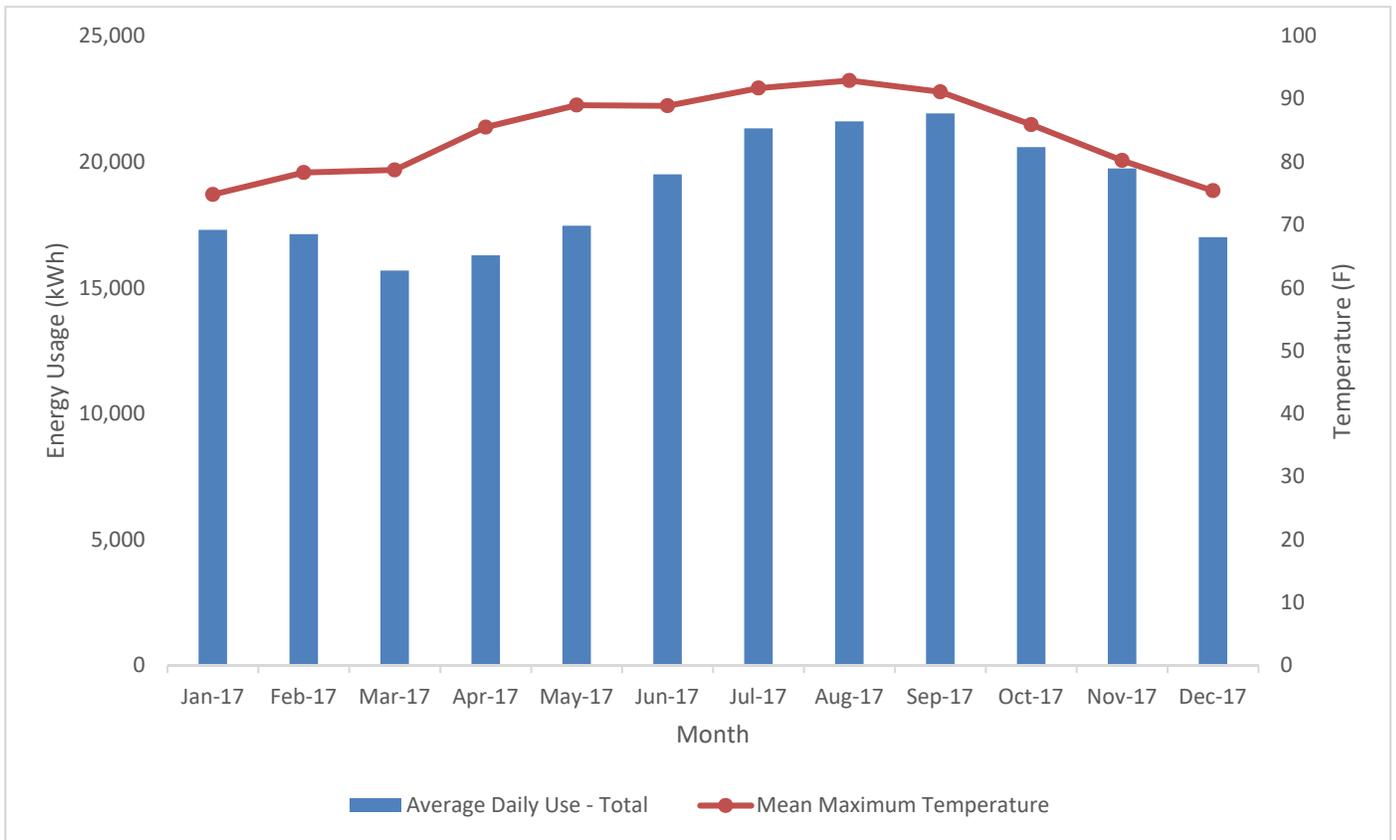
Source: St. Pete-Clearwater International Airport (1987). Salt Marsh-Oyster Bar Mitigation Area Completion Report [PDF].

Figure 1-5 Electrical Energy Use per Month at PIE (January 2017 through December 2017)- Terminal, Airfield Lighting, Landside Lighting, Other Building



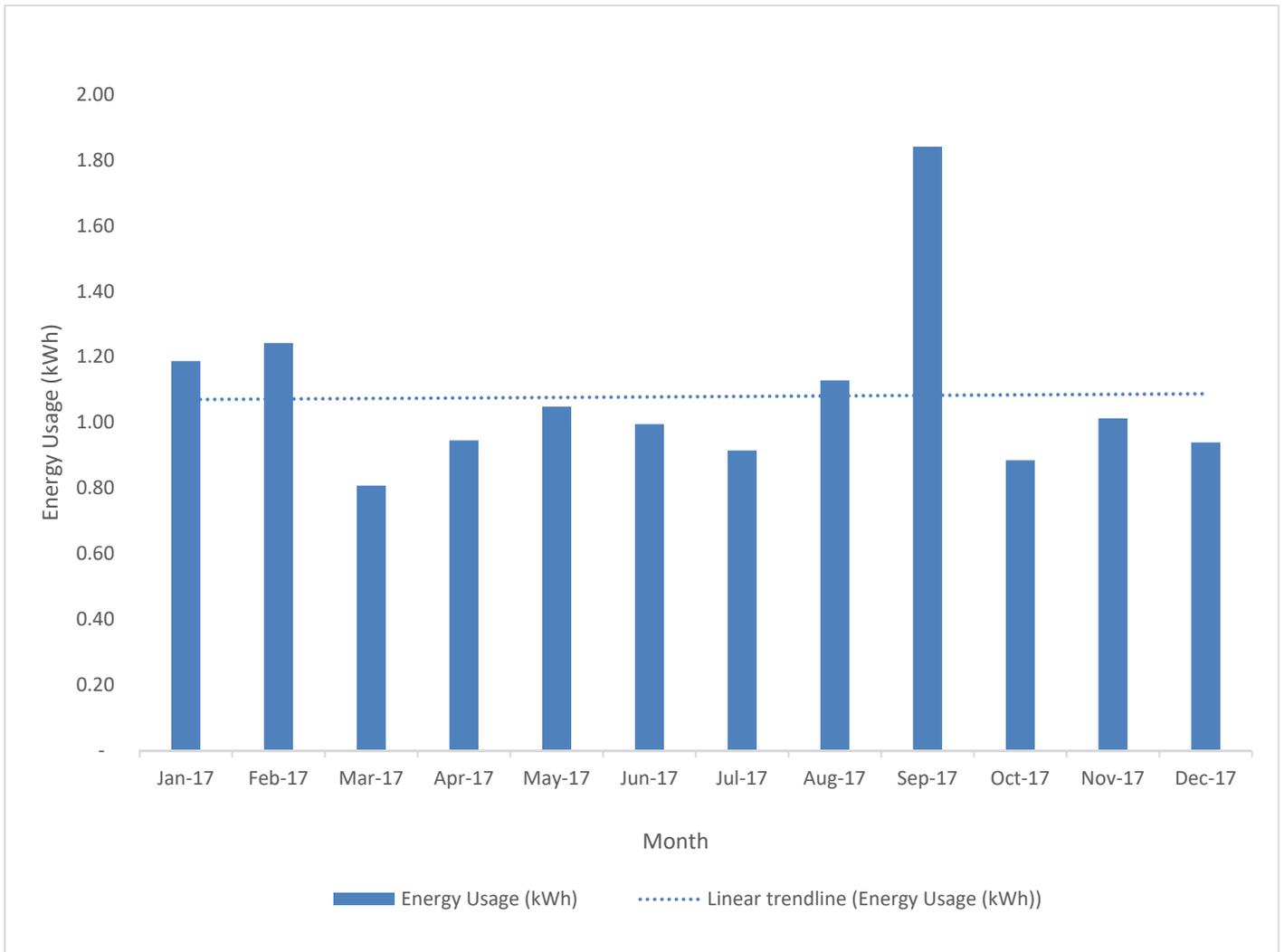
Source: Duke Energy. (2018, April). [PIE Energy and Water Input Spreadsheet]. Unpublished raw data.

Figure 1-6 Overall Average Daily Electrical Energy Use at PIE (January 2017 through December 2017)



Source: Duke Energy. (2018, April). [PIE Energy and Water Input Spreadsheet]. Unpublished raw data.

Figure 1-7 Average Daily Electrical Energy Use per Passenger at PIE (Terminal - January 2017 through December 2017)



Source: Duke Energy. (2018, April). [PIE Energy and Water Input Spreadsheet]. Unpublished raw data.
Note: Passenger data obtained from St. Pete-Clearwater International Airport (2018, April).



ATTACHMENT 2: St. Pete-Clearwater International Airport (PIE) Master Plan Sustainability Questionnaire

St. Pete-Clearwater International Airport (PIE) Master Plan- Sustainability Planning Questionnaire

Purpose and Background

As part of the ongoing PIE Master Plan (piemasterplan.com), sustainability is being considered. Sustainability is generally defined as a holistic approach to managing an airport so as to ensure the integrity of the economic viability, operational efficiency, natural resource conservation and social responsibility of the airport.

Purpose of this Questionnaire:

1. To collect information on any sustainability activities your company is planning or has initiated.
2. To better understand if there are opportunities for the Airport's sustainability initiatives to support your efforts.

PIE Sustainability Study Background:

Due to rising concerns regarding resource conservation, environmental protection, and fiscal responsibility, airports worldwide are part of a growing debate regarding airport growth and the environmental consequences of aviation. To address these issues, the ongoing PIE Master Plan includes a sustainability and resiliency planning aspect. The sustainability planning portion of the Master Plan is generally comprised of the following components:

- Baseline Assessment
- Sustainability Goals & Objectives
- Identification and evaluation of potential sustainability strategies at PIE
- Implementation Strategy

PIE Master Plan Background:

PIE and the Pinellas County Board of County Commissioners are preparing for a comprehensive Airport Master Plan. The primary goal is to create a 20-year airport development program to maintain a safe, efficient, economical, and environmentally acceptable airport facility for the Tampa Bay community. To achieve this goal, it is essential to receive input from key stakeholders, including the interested public, surrounding community, and users and tenants of the airport's facilities.

The following questionnaire is an important component of the PIE Master Plan, and should take approximately 5 - 15 minutes to complete.

You can assist PIE with this effort by completing the questionnaire by Friday, April 27.

It is important to understand that sustainability does not only address environmental issues. The most effective sustainability strategies have varying levels of economic, social *and* environmental benefits. Please keep this in mind when completing the questionnaire.

Thank you in advance for your participation.

For questions or concerns, please contact *Ben Siwinski* at BSiwinski@VHB.com. Ben is with VHB, a sub consultant to ESA- the prime consultant conducting the Master Plan.

1. Does your organization have a formalized sustainability program / policy / goals?

- Yes
- No

If yes, please describe below and/or provide relevant documents to Ben Siwinski at BSiwinski@VHB.com

2. Is your organization implementing any initiatives to contribute to the sustainability of your business or of the airport?

- Yes
- No

If yes, please describe below and/or provide relevant documents to Ben Siwinski at BSiwinski@VHB.com

3. Is your organization considering any other potential sustainability-related activities?

- Yes
- No

If yes, please describe below and/or provide relevant documents to Ben Siwinski at BSiwinski@VHB.com.

4. Please provide any ideas/suggestions to enhance the energy efficiency of PIE facilities (including passenger terminal, airfield, and other airport buildings).

5. Please describe any ways in which the St. Pete-Clearwater International Airport could aid your organization in accomplishing its sustainability goals.

6. PIE would like to acknowledge the sustainability efforts of its tenants. Would you be willing to have your sustainability projects or activities identified in the sustainability planning portion of the PIE Master Plan? If so, whom shall we contact to get further information?

| | |
|-----------------|--|
| Name | <input type="text"/> |
| Company | <input type="text"/> |
| Address | <input type="text"/> |
| Address 2 | <input type="text"/> |
| City/Town | <input type="text"/> |
| State/Province | <input type="text" value="-- select state --"/> <input type="button" value="v"/> |
| ZIP/Postal Code | <input type="text"/> |
| Country | <input type="text"/> |
| Email Address | <input type="text"/> |
| Phone Number | <input type="text"/> |

Source: Survey Monkey, Vanasse Hangen Brustlin, Inc. (2018, April 6). St. Pete-Clearwater International Airport (PIE) Master Plan- Sustainability Planning Questionnaire.



ATTACHMENT 3: References

Memorandum

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Survey Monkey, Vanasse Hangen Brustlin, Inc. (2018, April 6). St. Pete-Clearwater International Airport (PIE) Master Plan- Sustainability Planning Questionnaire. Retrieved May 24, 2018, from https://www.surveymonkey.com/summary/H82ud5Lr_2FSGm9nCjsvE645uGX6xu6sFTc_2BftzbLKbCV23KwKAQeAWGg1CXvtiN8h

[External] FW: PIE Master Plan - Sustainability Questionnaire [E-mail from BBA Aviation]. (2018, April 17).

Attachment 4: Water Usage Spreadsheet and Calculations

| Account Number | Meter Number | Service Address | Monthly Totals (kgal) | | | | | | | | | | | | | Calendar Total (kgal) |
|----------------|--------------|-------------------------|-----------------------|--------------------|--------------------|--------------------|---------------------|----------------------|---------------------|--------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| | | | 12-16-15 to 2-16-16 | 2-17-16 to 4-15-16 | 4-16-16 to 6-15-16 | 6-16-16 to 8-14-16 | 8-15-16 to 10-14-16 | 10-15-16 to 12-15-16 | 12-16-16 to 2-15-17 | 2-15-17 to 4-17-17 | 4-14-17 to 6-15-17 | 6-16-17 to 8-16-17 | 8-17-17 to 10-16-17 | 10-14-17 to 12-15-17 | 12-15-17 to 02-14-18 | |
| 100103652113 | | 3650 Old Roosevelt Blvd | N/A | N/A | N/A | N/A | N/A | N/A | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100107491996 | | 4401 144th Ave N | N/A | N/A | N/A | N/A | N/A | N/A | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100115919983 | | 4455 144th Ave N | N/A | N/A | N/A | N/A | N/A | N/A | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100106554130 | 47576993 | 4600 142nd Ave N | 7 | 20 | 8 | 6 | 8 | 7 | 6 | 7 | 7 | 8 | 8 | 8 | 6 | 106 |
| 100104903312 | 60831401 | 4660 Rescue Way | 19 | 18 | 17 | 19 | 16 | 16 | 15 | 15 | 14 | 15 | 19 | 17 | 15 | 215 |
| 100106177749 | 52865272 | 15295 Fairchild Drive | 95 | 46 | 34 | 28 | 123 | 26 | 42 | 27 | 21 | 16 | 14 | 15 | 14 | 501 |
| 100106555039 | 60810840 | 0 St Pete CLW Airport | 437 | 518 | 293 | 433 | 334 | 352 | 396 | 499 | 424 | 459 | 319 | 383 | 409 | 5256 |
| 100108182518 | 60810885 | 14700 Terminal Blvd | 163 | 187 | 155 | 183 | 127 | 134 | 142 | 149 | 110 | 136 | 96 | 130 | 153 | 1865 |
| 100116989108 | 60839537 | 14700 Terminal Blvd | 277 | 301 | 256 | 296 | 234 | 253 | 264 | 268 | 225 | 248 | 207 | 250 | 289 | 3368 |
| 100118862622 | 91920732 | 14700 Terminal Blvd | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 27 |
| 100123228733 | 52865276 | 14695 Airport Pkwy | 8 | 20 | 18 | 26 | 18 | 29 | 41 | 32 | 23 | 26 | 24 | 26 | 27 | 318 |
| 100108069754 | 52865279 | 0 St Pete CLW Airport | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |

| Account Number | Meter Number | Service Address | Monthly Totals (kgal) | | | | | | | | | | | | | Calendar Total (kgal) |
|---------------------------|--------------|------------------------|-----------------------|--------------------|--------------------|--------------------|---------------------|----------------------|---------------------|--------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| | | | 12-16-15 to 2-16-16 | 2-17-16 to 4-15-16 | 4-16-16 to 6-15-16 | 6-16-16 to 8-14-16 | 8-15-16 to 10-14-16 | 10-15-16 to 12-15-16 | 12-16-16 to 2-15-17 | 2-15-17 to 4-17-17 | 4-14-17 to 6-15-17 | 6-16-17 to 8-16-17 | 8-17-17 to 10-16-17 | 10-14-17 to 12-15-17 | 12-15-17 to 02-14-18 | |
| 100106445309 | 94442500 | 4501 42nd St N | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 14 | 1 | 0 | 1 | 18 |
| 100102271073 | 52865277 | 13746 Stoney Brook Dr. | 0 | 2 | 2 | 2 | 3 | 2 | 0 | 2 | 2 | 3 | 5 | 2 | 1 | 26 |
| 00000000174 0000371526 | | Roosevelt Blvd | 275.2 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 275.2 |
| 00000001248 0000280008 | | 13690 Stoney Brook Dr. | 0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 0 |
| 00000000174 0000520163 | | Roosevelt Blvd | 808 | N/A | N/A | N/A | N/A | N/A | 385.3 | N/A | N/A | N/A | N/A | N/A | N/A | 1193.3 |
| 00000001248 0000350009 | | 13690 Stoney Brook Dr. | 0 | N/A | N/A | N/A | N/A | N/A | 0 | N/A | N/A | N/A | N/A | N/A | N/A | 0 |
| 00000000174 0000373282 | | Roosevelt Blvd | N/A | 598.7 | N/A | N/A | N/A | N/A | N/A | 276.5 | N/A | N/A | N/A | N/A | N/A | 875.2 |
| 00000001248 0000420000 | | 13690 Stoney Brook Dr. | N/A | 0 | N/A | N/A | N/A | N/A | N/A | 0 | N/A | N/A | N/A | N/A | N/A | 0 |
| 00000000174 0001326115 | | Roosevelt Blvd | N/A | N/A | 260.9 | N/A | N/A | N/A | N/A | N/A | 982.3 | N/A | N/A | N/A | N/A | 1243.2 |
| 00000001248 0000070003 | | 13690 Stoney Brook Dr. | N/A | N/A | 0 | N/A | N/A | N/A | N/A | N/A | 0 | N/A | N/A | N/A | N/A | 0 |
| 00000000174 0001441534 | | Roosevelt Blvd | N/A | N/A | N/A | 170.1 | N/A | N/A | N/A | N/A | N/A | N/A | 1067.8 | N/A | N/A | 1237.9 |
| 00000001248 0000700003 | | 13690 Stoney Brook Dr. | N/A | N/A | N/A | 0 | N/A | N/A | N/A | N/A | N/A | 0 | 0 | N/A | N/A | 0 |
| 00000000174 0001161686 | | Roosevelt Blvd | N/A | N/A | N/A | N/A | 130.2 | N/A | N/A | N/A | N/A | 860.5 | 0 | N/A | N/A | 990.7 |
| 00000000174 0001031004 | | Roosevelt Blvd | N/A | N/A | N/A | N/A | N/A | 275.2 | N/A | N/A | N/A | N/A | N/A | 763.7 | N/A | 1038.9 |
| All Meters (Total) | | | 2,091 | 1,714 | 1,046 | 1,167 | 995 | 1,097 | 1,293 | 1,278 | 1,810 | 1,789 | 1,763 | 1,596 | 917 | 18,555 |

Water Use Calculations

| | 12-16-15 to 2-16-16 | 2-17-16 to 4-15-16 | 4-16-16 to 6-15-16 | 6-16-16 to 8-14-16 | 8-15-16 to 10-14-16 | 10-15-16 to 12-15-16 | 12-16-16 to 2-15-17 | 2-15-17 to 4-17-17 | 4-14-17 to 6-15-17 | 6-16-17 to 8-16-17 | 8-17-17 to 10-16-17 | 10-14-17 to 12-15-17 | 12-15-17 to 02-14-18 | Calendar Total (kgal) |
|--|------------------------|-----------------------|-----------------------|-----------------------|------------------------|-------------------------|------------------------|-----------------------|-----------------------|-----------------------|------------------------|-------------------------|-------------------------|---------------------------|
| Days | 62 | 58 | 60 | 59 | 60 | 61 | 61 | 58 | 61 | 61 | 61 | 62 | 61 | 785 |
| Average Daily Use - Total (gallons) | 34 | 30 | 17 | 20 | 17 | 18 | 21 | 22 | 30 | 29 | 29 | 30 | 15 | 24¹ |
| Terminal (kgal) | 1,000 | 1,093 | 765 | 968 | 844 | 791 | 867 | 967 | 802 | 885 | 665 | 804 | 888 | 11,339 |
| Irrigation (kgal) | 1,083 | 599 | 261 | 170 | 130 | 275 | 385 | 277 | 982 | 861 | 1,068 | 1,039 | 0 | 6,854 |
| Other Building (kgal) | 8 | 22 | 20 | 29 | 21 | 31 | 41 | 34 | 26 | 43 | 30 | 28 | 29 | 362 |
| Average Daily Use (kgal) - Terminal | 16 | 19 | 13 | 16 | 14 | 13 | 14 | 17 | 13 | 15 | 11 | 13 | 15 | 14.47¹ |
| Average Daily Use (kgal) - Irrigation | 17 | 10 | 4 | 3 | 2 | 5 | 6 | 5 | 16 | 14 | 18 | 17 | 0 | 8.68¹ |
| Average Daily Use (kgal) - Other Building | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0.46¹ |
| Passengers | 262,649 | 331,177 | 326,208 | 336,701 | 271,981 | 308,319 | 301,907 | 388,455 | 361,374 | 271,981 | 278,621 | 363,076 | 335,298 | 4,137,747 |
| Dates used from Total PAX | Jan-Feb 2016 | Mar-Apr 2016 | May-Jun 2016 | Jul-Aug 2016 | Sep-Oct 2016 | Nov - Dec 2016 | Jan-Feb 2017 | Mar-Apr 2017 | May-Jun 2017 | Jul-Aug 2017 | Aug-Oct 2017 | Nov-Dec 2017 | Jan-Feb 2018 | -- |
| Average Use (kgal) per PAX - Terminal | 0.0038 | 0.0033 | 0.0023 | 0.0029 | 0.0031 | 0.0026 | 0.0029 | 0.0025 | 0.0022 | 0.0033 | 0.0024 | 0.0022 | 0.0026 | 0.0027¹ |

¹ These values are the average of the row total.



To: Doug DiCarlo (ESA)

Date: April 12, 2019

Memorandum

Project #: 66165.00

From: VHB Team

Re: TASK 5.3.2 - St. Pete-Clearwater International Airport (PIE)
Sustainability Goals

Goal-setting is an essential step of the sustainability planning process and follows the development of the baseline assessment. Developing an overall vision statement as well as more specific goals serves to guide the process of alternatives evaluation and preferred alternative selection for the St. Pete-Clearwater International Airport (PIE) Master Plan.

Pinellas County Mission Statement and Values

Pinellas County (as owner and operator of PIE) has already established a mission statement and values that will serve as the backdrop for the sustainability vision and goals developed for PIE. In its latest Strategic Plan¹, the County has defined its mission statement and values, which guide the way it operates and serves the community.

Mission Statement

Pinellas County Government is committed to progressive public policy, superior public service, courteous public contact, judicious exercise of authority and responsible management of public resources, to meet the needs and concerns of our citizens today and tomorrow.

Values

- We will be respectful of the needs of individuals while recognizing our responsibility to the community as a whole.
- We will be community-centric, embracing the individuality of partners working together as one, toward the community's vitality.
- We believe it is our responsibility to improve the overall quality of life through the management and preservation of the natural and built environment.
- We will provide open and accountable governance.
- We will foster a diverse work culture, a safe workplace, and opportunity for professional and personal growth.

The County's mission statement and values align with a general sustainability vision by incorporating the following terms, among others:

- "responsible management of public resources"
- "meet the needs and concerns of our citizens today and tomorrow"
- "improve the overall quality of life through the management and preservation of the natural and built environment"

¹ <http://www.pinellascounty.org/strategicplan/mission.htm>

PIE Sustainability Vision Statement

Based on the Project Team and PIE staff coordination in a visioning exercise, and subsequent sustainability and resiliency-focused discussions, the following vision (or mission) statement is identified to guide the Airport's sustainability and resiliency efforts:

PIE will serve as a sustainable catalyst for economic growth in the region by providing convenient air service options and aviation-related business opportunities while maintaining its resiliency to changing environmental and economic conditions.

PIE Sustainability Goals

As part of the Sustainable Master Plan process, the Project Team has identified a manageable set of sustainability goals. These goals are intended to inform the development of sustainability alternatives screening criteria for the Master Plan as well as guide future sustainability efforts at PIE. The PIE sustainability goals are consistent with the County's mission and values described previously in this memorandum. The goals are listed with a brief further explanation of their meaning provided below each:

- Maximize the economic potential of PIE
 - Enhanced air service offerings
 - Developing business and employment opportunities
- Conserve resources through effective design and operation of facilities
 - Reduce energy and water use in buildings
 - Closely monitor spending on electricity and water
- Plan future facilities and infrastructure to be resilient to changing conditions
 - Incorporate all available scientific data on sea level rise and storm surge in future planning
 - Diversify revenue streams to withstand changing economic conditions or other events

APPENDIX H

Vulnerability Assessment



To: Doug DiCarlo, ESA

Date: April 16, 2019

Memorandum

Project #: 66165.00

From: VHB Team

Re: TASK 5.5 - St. Pete-Clearwater International Airport (PIE) Master Plan Vulnerability Assessment and Resiliency Planning

1. Introduction

This memo summarizes preliminary findings from the Vulnerability Assessment workshop and Resiliency Planning for St. Pete-Clearwater International Airport (PIE), as part of its Master Planning process. This document summarizes the findings of the Vulnerability Assessment and the Resiliency Plan.

2. Vulnerability Assessment

A Vulnerability Assessment Workshop was held on Monday, October 22, 2018 at PIE. The following PIE staff participated in the workshop:

- › Tom Jewsbury, Airport Director
- › Yvette Aehle, Deputy Director of Finance
- › Jeff Carrington, Airport Fire Chief
- › Jeff Claus, Air Service Development and Marketing
- › Jeff Gilquist, Signature (via telephone)
- › Kathleen Good, Director of Properties
- › Michael Iguina, Facilities
- › Scott Yarley, Airport Engineer
- › Michele Routh, Public Relations
- › Erin Johnson, Airport Operations Manager

The following individuals from the ESA Team facilitated and provided support for the workshop:

- › Neale Stralow, VHB
- › Van Du, VHB
- › Sierra LePore, VHB
- › Michael Arnold, ESA
- › Joe Halisky, ESA

During the workshop, the ESA Team presented the vulnerability assessment approach as well as a summary of the local and regional climate change projections and impacts (see **Attachment 1**). Workshop participants were then divided into small groups to review the Impacts Matrix, and to evaluate sensitivity, adaptive capacity, and overall vulnerability for the identified airport functional areas and their critical assets and operational requirements. See the Vulnerability Assessment Matrix (**Attachment 2**) for the scoring results.

Critical assets and operational components at PIE were categorized into the following functional areas for the vulnerability assessment exercise:

- › Aircraft Operation Areas
- › Airspace and Airport Traffic Control
- › Airfield Lighting
- › Takeoff and Landing Aids
- › Passenger Terminal Facilities
- › Passenger Terminal Landside Facilities

- › Airport Facilities
- › Utility Systems
- › Information Technology and Telecommunications
- › Passengers, Employees, and Human Resources

Vulnerability refers to the overall sensitivity and adaptive capacity of assets to respond to anticipated climate change impacts. The Project Team facilitated an exercise in which workshop participants assessed the current vulnerabilities of assets within each functional area under the four (4) projected climate change impact scenarios (Sea Level Rise, Increase in Temperature, Changing Precipitation, and Increase in Hurricane/Extreme Storm Events). The following section summarizes the sensitivity, adaptive capacity, and overall vulnerability of these functional areas. Understanding the criticality and vulnerability of these functional areas will inform the framework for adaptive planning and action at PIE.

Based on the vulnerability assessment workshop discussions, the ESA Team developed the following list of key findings:

- › Of the four (4) projected climate scenarios, sea level rise and increase in hurricanes/extreme storm events are the two major concerns. Most of functional areas at PIE are highly vulnerable to the potential impacts from these projected conditions.
- › There is uncertainty regarding what aspects of the Pinellas County hurricane recovery plan apply to PIE, but it is assumed that there will be substantial flight traffic and recovery staging.
- › System redundancies should be made a goal in the PIE Master Plan to ensure quick recovery and increased operational effectiveness.

2.1 Aircraft Operation Areas

Identified critical assets and operational requirements for this functional area include:

- › Runways (18-36 and 4-22)
- › Taxiways and taxilanes
- › Ramp/apron areas (for aircraft parking, GSE storage)

Overall Vulnerability:

Based on PIE staff's input and feedback, Aircraft Operation Areas have a relatively high vulnerability to projected sea level rise. To date, runways have already been shut down due to flooding that is not caused by extreme weather events. These events typically occur on Runway 4-22 and surrounding taxiways closest to Tampa Bay. The perimeter road is also frequently inundated with water. This functional area is also highly vulnerable to flooding associated with the projected increase in frequency and volume of extreme rainfall events. In fact, taxiways are often closed 1-2 times a year due to flooding from heavy rain. Currently, the only solution is to wait until floodwater retreats to resume operations on the affected taxiways.

PIE staff indicated that Aircraft Operation Areas have moderately low vulnerability to projected increase in temperature. While the pavement at the end of Runway 36 has experienced bulking and/or shifting, and the taxiway and ramp have incurred minor damage, participants determined the system would be minimally affected by increases in temperature. There is an ongoing project to fix Taxiway A pavement issues at the ramp. Overall, PIE adheres to standard FAA requirements for pavement maintenance and renovation, and contractors that have been at the airport for existing projects have been able to immediately repair any emergency pavement distresses. However, PIE has had to request emergency purchase orders when a contractor was not readily available to repair a pavement issue. Therefore, the airport plans to advertise a Request for Proposal (RFP) to have a contractor on "stand-by" for emergency pavement and lighting repairs.

PIE staff indicated that lightning strikes are a top concern for the Airport. Lightning strikes have previously affected airport operations and required patching of the airfield's pavement at least four times in the past. Lightning strikes also posed a safety risk to the ground crew. Participants reported that in recent years, the Airport has closed runways and taxiways 1-2 times annually due to lightning strikes from extreme thunderstorms.

Given its geographic location, the risk of more frequent and intense hurricanes/extreme storms is also a major concern. However, the Airport has experience responding to frequent afternoon thunderstorms between July and September and has a hurricane plan and after-hurricane plan in place for emergency responses. As a result, while Aircraft Operation Areas may be moderately sensitive to the projected increase in hurricanes and extreme storm events, the Airport also has moderate adaptive capacity in place to accommodate or adjust to potential impacts.

2.2 Airspace and Airport Traffic Control

Identified critical assets and operational requirements for this functional area include:

- › PIE Airport Traffic Control Tower

Overall Vulnerability:

Overall, Airspace and Airport Traffic Control are highly vulnerable to projected sea level rise and the projected increase in hurricanes/extreme storms. Under these scenarios, critical assets will be highly susceptible to the potential impacts. Disruption of the Airport's operations is inevitable during hurricanes or extreme storm events, when airport personnel are typically required to evacuate due to high wind speeds.

This functional area has a moderately low vulnerability to the projected increase in temperature scenarios. Participants noted that the increase in temperature or increase in precipitation would not affect Airport Traffic Control (ATC) function or structure. The Airport has not experienced operational delays due to high temperatures.

2.3 Airfield Lighting

Critical assets and operational requirements under this functional area include:

- › Runway lighting systems

- › Identification lighting beacon
- › Taxiway lighting
- › Airfield signage

Overall Vulnerability:

Overall, Airfield Lighting has medium to low vulnerability to the projected sea level rise, and moderately high vulnerability to the projected increase in hurricanes/extreme storm events. Based on PIE staff's input and feedback, this functional area does not have adaptive capacity to accommodate and adjust to potential impacts under the projected sea level rise scenario. Participants also noted that although impacts from lightning strikes and storm surges are major concerns at PIE, generators are able to restart the lighting systems within minutes. Additionally, if only a portion of the airfield lights are unavailable, the Airport will issue a Notice to Airmen (NOTAM) until the lighting system can be restored. The Airport expressed that it does not experience or anticipate airfield lighting issues due to increased temperatures. However, as noted in Section 2.1, the airport plans to advertise a Request for Proposal (RFP) to have a contractor on "stand-by" for emergency pavement and lighting repairs.

2.4 Takeoff and Landing Aids

Identified critical assets and operational requirements under this functional area include:

- › Runway end identification lights
- › Runway Alignment Indicator Lights (MALSR)
- › Precision Approach Path Indicator (PAPI) systems
- › Runway Visual Range (RVR) sensor units
- › Automated Surface Observing System (ASOS) equipment
- › Remote transmitter/receiver (RTR) facility
- › Instrument Landing Systems (ILS)

Overall Vulnerability:

Overall, Takeoff and Landing Aids are considered highly vulnerable to the projected sea level rise as well as the projected increase in extreme rainfall events. In general, however, NAVAID equipment under this functional area are under FAA control and maintenance; therefore, PIE staff cannot speak to the sensitivity and adaptive capacity levels of this equipment. For example, while PIE staff check NAVAIDs during airfield and perimeter inspections, the Airport could not provide input on their adaptive capacity because FAA is responsible for maintaining and fixing NAVAIDs at airports. Participants noted that under extreme circumstances during large storm events, the FAA has the right to dismantle NAVAIDS to protect them from potential damage. The Airport expressed that it does not experience or anticipate issues to NAVAIDS due to increased temperatures.

2.5 Passenger Terminal Facilities

Identified critical assets and operational requirements under this functional area include:

- › Terminal building
- › Emergency/Severe weather shelter locations
- › TSA equipment/operations
- › Baggage handling equipment
- › Concessionaires and other non-airline tenants

Overall Vulnerability:

This functional area has a moderately high vulnerability to the projected sea level rise. Participants indicated that there is currently no official plan in place, in the event that sea water reaches the terminal building (potentially due to storm surge based on end-of-the-century projection for sea level rise). Similarly, these terminal facilities are highly vulnerable to damages during hurricanes and extreme storm events. Currently, the Airport is closed for hurricanes for mandatory evacuation, and sandbags are used to reduce potential structural impacts from flooding to these facilities.

Conversely, this functional area has moderately low vulnerability to the projected increase in temperature. PIE staff noted that increased HVAC demand and duration can put stress on the existing chiller. However, a new back-up chiller was recently installed and can provide redundancy support for long durations.

2.6 Passenger Terminal Landside Facilities

Identified critical assets and operational requirements for this functional area include:

- › Terminal access roadways
- › Curb front areas (access for ticketing/check-in/departure area, and baggage claim/arrival area)
- › Ground transportation area (GTA)
- › Parking lots (short-term, long-term, employee, economy/remote #1, overflow, remote #2) and cell phone lot
- › Rental car facilities

Overall Vulnerability:

Overall, Passenger Terminal Landside Facilities are highly vulnerable to the projected sea level rise and increase in hurricanes/extreme storms, with minimal adaptive capacity to respond to or accommodate the potential climate change impacts associated with these projected conditions. PIE staff voiced concern that flooding or salt water intrusion due to sea level rise will more frequently impact regular operations. They expressed uncertainty regarding long-term and incremental capital improvement budgeting that would enable the Airport to enhance these critical assets and operational requirements and improve their response. While staff indicated that the Airport has a hurricane

plan in place, they were unsure if the infrastructure under this functional area would be able to withstand more frequent and intense impacts due to extreme storm events.

This functional area has moderately minimal vulnerability to the projected increase in temperature and changing precipitation patterns. Participants did not consider extreme temperature and extreme rain events to be major issues when compared to potential extreme storm damage and flooding. It is unclear, however, whether there are adequate redundancy systems in place to ensure that disruption to infrastructure will not affect other functional areas and overall Airport operations.

2.7 Airport Facilities

Identified critical assets and operational requirements for this functional area include:

- › General aviation facilities (FBOs, National Aviation Academy, Pinellas County Sheriff's Hangar, the Landings Hangar Area)
- › Support and service facilities (airfield electrical vault, Aircraft Rescue and Fire Fighting (ARFF) department, airport maintenance equipment storage area, fuel farm)

Overall Vulnerability:

Overall, Airport Facilities are highly vulnerable to the projected sea level rise and increase in hurricanes/extreme storms, with minimal adaptive capacity to respond to or accommodate the potential climate change impacts associated with these projected conditions. While there is a hurricane plan in place for emergencies, PIE staff recognized that additional hardened facilities might improve protection and recovery ability.

On the other hand, this functional area received a low vulnerability score relative to the projected increase in temperature and changing precipitation. PIE staff noted that extreme temperature and precipitation events would minimally impact identified critical assets under this functional area, and that the Airport would be somewhat able to accommodate or adjust to the potential climate impacts associated with these projected conditions. The major focus would be to ensure the safety of passengers, employees, and others working at the Airport.

2.8 Utility Systems

Identified critical assets and operational requirements for this functional area include:

- › Grid-connected power
- › Potable water system
- › Sanitary sewer system
- › Back-up generators
- › Stormwater management/flood control systems

Overall Vulnerability:

Utility Systems are highly vulnerable to projected sea level rise, and the current systems would be minimally able to accommodate or adjust to potential impacts. PIE staff noted that stormwater outfalls are surcharged and get further backfilled at current high tides and are also subject to oyster growth/clogging. As a result, when the pipes and ponds are filled, stormwater backs up into open airfield space. There is opportunity for increased subterranean stormwater storage to reduce/control airfield effects.

PIE staff indicated that the major utility systems at the Airport are located underground and in good condition. Extreme storm events may more substantially affect above ground systems (e.g., towers, poles, etc.), however, which would require longer recovery. Overall, while underground utilities are in good condition, and while PIE staff anticipated a quick recovery process from hurricanes or extreme storm events, Utility Systems are still considered to have moderately high vulnerability to the projected increase in hurricanes and extreme storm events.

Potential issues or impacts to this functional area are not anticipated for the projected increase in temperature and changing precipitation scenarios. PIE staff noted that the Airport has not previously experienced long power interruption (usually restored within a couple of hours) during extreme hot days, or even during severe storms or hurricane events.

2.9 Information Technology and Telecommunications

Identified critical assets and operational requirements for this functional area include:

- › IT infrastructure
- › Internet, network, and communications systems (phones/radios)
- › Emergency, communications/warning systems
- › Communications (passenger to outside)

Overall Vulnerability:

Like Utility Systems, Information Technology and Telecommunications are considered moderately vulnerable to the projected sea level rise and increase in hurricanes/extreme storm events. While infrastructure is mostly underground and in good condition, above ground towers and pole mounts are more susceptible to damage from extreme storm events and may require longer recovery.

Overall, PIE staff did not anticipate potential issues or impacts to this functional area under the projected increase in temperature and changing precipitation scenarios. They noted that the Airport has not experienced substantial telecommunications or IT interruption during extreme hot days, or even during severe storms or hurricane events.

2.10 Passengers, Employees, and Human Resources

Identified critical assets and operational requirements for this functional area include:

- › Employees' health and well-being

- › Irregular Operations (IROPS) procedures
- › Alternative operation locations
- › Family support strategies
- › Employee accessibility/mobility
- › Staff training/education
- › Financial resources (insurance, access to cash, etc.)
- › Passenger assistance staff

Overall Vulnerability:

Overall, this functional area has a moderate to high vulnerability to the projected climate change scenarios. Major concerns associated with this functional area focused on the safety of airport employees and passengers. Projected sea level rise will result in temporary and even permanent flooding of airport terminals and access areas, and therefore will also affect the Airport operations more regularly. This will inevitably compromise how PIE can accommodate passengers during extreme storm events. Similarly, safety risks to passenger and employees (particularly outdoor crews) due to high winds, debris, flooding, and lightning strikes during heavy rain, hurricanes and/or extreme storm events will increase, and will require enhanced weather protection to ensure safety.

3. Resiliency Planning

In general, it is recommended that PIE participate in the recently formed Tampa Bay Regional Resiliency Coalition (TBRRC) for access to the most up-to-date climate projections and connections with regional partners that can provide expertise in variety of different climate change-preparedness areas. The TBRRC was officially formed in October 2018 to regionally address sea level rise, climate change, and resiliency in the Tampa Bay region. Original membership is comprised of five counties (including Pinellas) and 23 municipalities.

Based on the findings of the Vulnerability Assessment, the following recommendations are provided to enhance the resiliency of PIE from climate change. The recommendations include a prioritization estimate (short, medium and long-term) and identification of key external stakeholders.

RECOMMENDED RESILIENCY MEASURES BY AIRPORT FUNCTIONAL AREA

| Functional Area | Resiliency Recommendation | Recommended Priority | External Stakeholders and Resources |
|---|---|---|---|
| Aircraft Operation Areas | Gradual raising of most vulnerable aircraft operation areas to avoid flooding | Long-term (integrated into ongoing maintenance activities) | TBRRC (sea-level rise predictions) |
| | Contract mechanism for on-call emergency pavement repairs | Short-term | Florida Airports Council (advertisement of RFP) |
| Airspace and Airport Traffic Control | n/a | n/a | Federal Aviation Administration (FAA) |
| Airfield Lighting | Back-up generator system that can accommodate airfield lighting redundancy | On-going | n/a |
| | Contract mechanism for on-call emergency lighting repairs | Short-term | Florida Airports Council (advertisement of RFP) |
| Takeoff and Landing Aids | n/a | n/a | FAA |
| Passenger Terminal Facilities | New terminal facilities constructed to withstand demands of Coastal High Hazard Area (CHHA) and hurricane storm impacts | Long-term (integrated into future terminal development program) | FAA Advisory Circular (AC) 150/5360-13 |
| Passenger Terminal Landside Facilities | Future design of parking facilities to account for more severe storm events | Long-term (integrated into future parking facility development) | US Green Building Council (USGBC) Parksmart certification program |
| Airport Facilities | Integration of design and construction criteria to accommodate for sea-level rise and increased storm events | Long-term (integrated into future FBO and support facility development and redevelopment) | Climate Resilience Design Guidelines – Port Authority of New York and New Jersey (PANYNJ) |
| Utility Systems | Increase in underground stormwater storage (to reduce/control back up to airfield areas) | Medium-term | n/a |
| Information Technology and Telecommunications | n/a | n/a | n/a |
| Passengers, Employees and Human Resources | n/a | n/a | n/a |

Notes: Short-term = 0-3 years, Medium-term = 4-6 years; Long-term = 7+ years
 n/a = not applicable or not available

Source: VHB, 2019.

ATTACHMENT 1

St. Pete-Clearwater International Airport Climate Vulnerability Assessment Workshop

Presented by



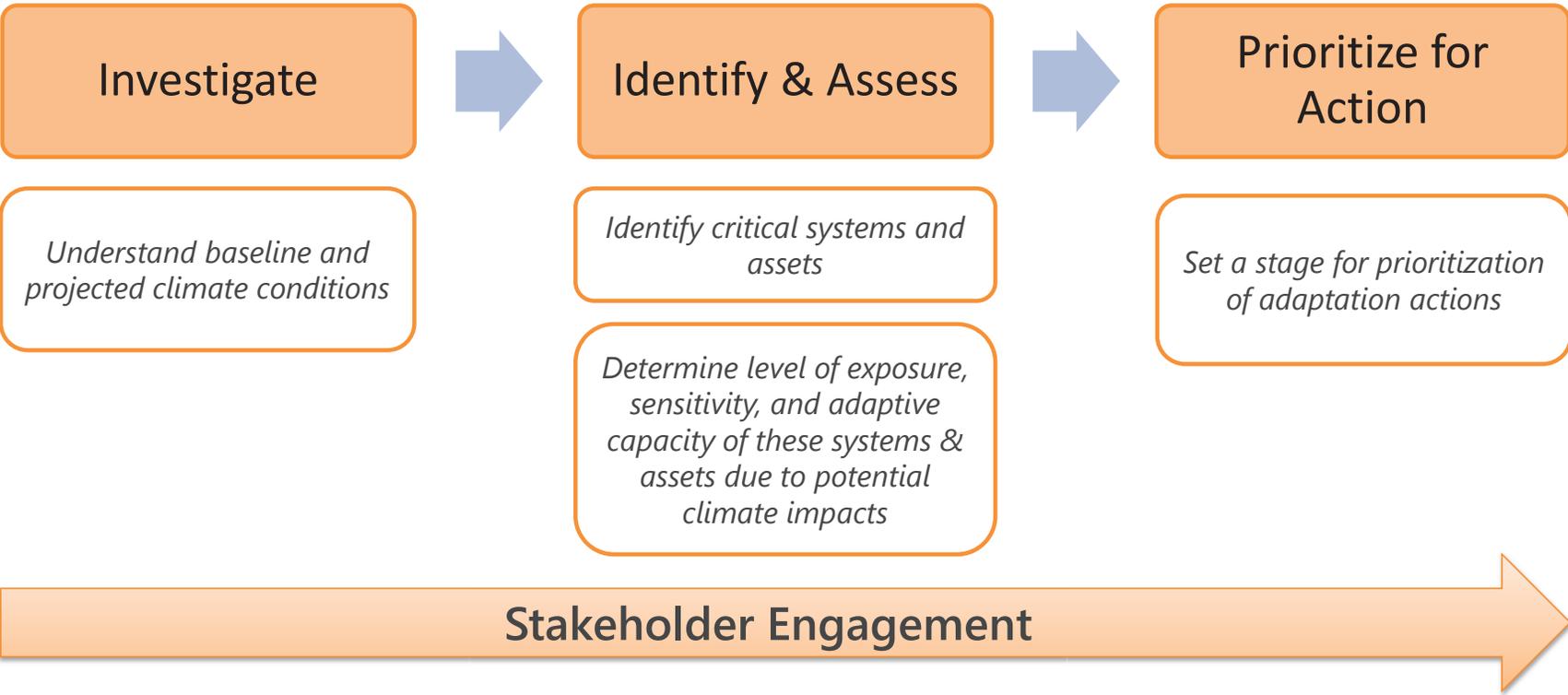
October 22, 2018



Workshop Agenda

- I. Welcome & Introductions
- II. Overview of the climate vulnerability assessment approach
- III. Review of climate trends & projections
- IV. Recommended critical systems and assets for PIE
- V. Small-group discussions: sensitivity and adaptive capacity evaluation
- VI. Report back, open discussion, Q&A
- VII. Confirmation of PIE's Sustainability Mission and Goals
- VIII. Wrap up & next steps

Climate Vulnerability Assessment Approach



Climate Trends and Projections



Climate change scenarios

- Sea Level Rise (SLR)
- Increased Temperatures
- Changing Precipitation
- Hurricanes & Extreme Storms



Photo credit Getty Images

Sea Level Rise (SLR): trends & projections

- Local water levels (recorded at St. Petersburg tide station) have increased by 0.89 feet over the past century—approximately one inch per decade.
- Local average historical sea level rise rate is faster than the global average rate.
- By 2100, the range of likely sea level rise scenarios is 1.4 to 8.5 feet, with an extreme scenario extending the upper range to 10.5 feet (2017 NOAA study).
- It is estimated that today's 100-year (1-percent annual chance of occurring) magnitude flood elevation will begin to occur every 20 years at the projected mean sea level in 2050.

Sources:

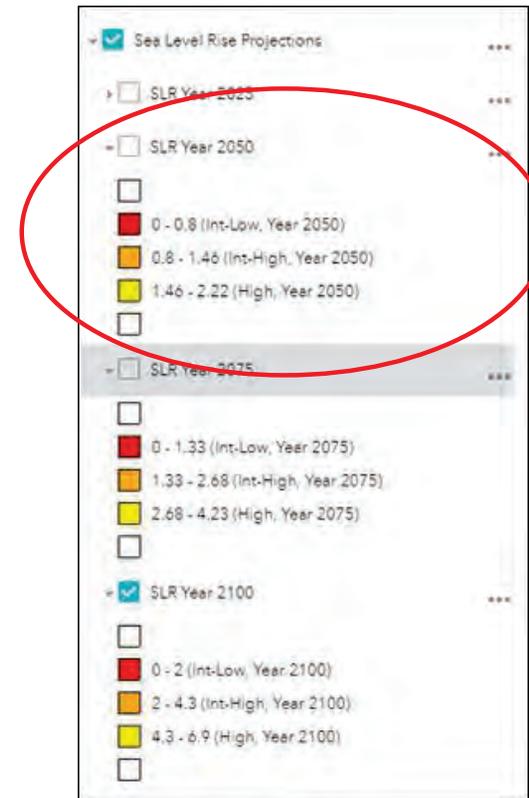
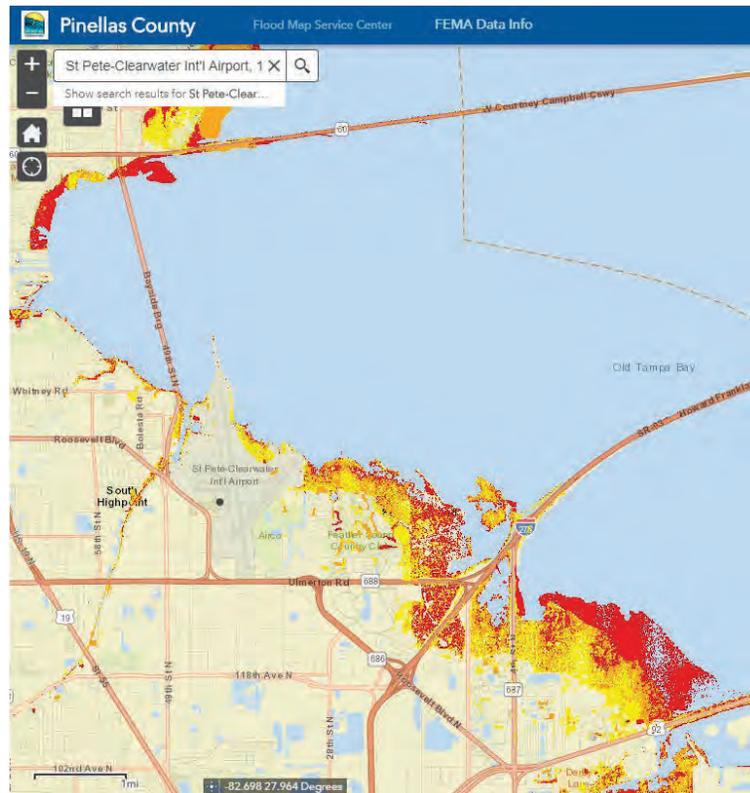
NOAA Sea Level Trends Online, <https://tidesandcurrents.noaa.gov/sltrends>

Valle-Levinson, A., A. Dutton, and J.B. Marin. 2017. *Spatial and Temporal Variability of Sea Level Rise Hot Spots Over the Eastern United States*. *Geophysical Research Letters*. Volume 44, Issue 15. Pages 7876-7882. Available at: <http://onlinelibrary.wiley.com/doi/10.1002/2017GL073926/abstract>

USGCRP, 2017: *Climate Science Special Report: Fourth National Climate Assessment, Volume I* [Wuebbles, D.J., D.W. Fahey, K.A. Hibbard, D.J. Dokken, B.C. Stewart, and T.K. Maycock (eds.)]. U.S. Global Change Research Program, Washington, DC, USA, 470 pp, doi: 10.7930/J0J964J6. Available at: https://tidesandcurrents.noaa.gov/publications/techrpt83_Global_and_Regional_SLR_Scenarios_for_the_US_final.pdf

Sea Level Rise (SLR): trends & projections

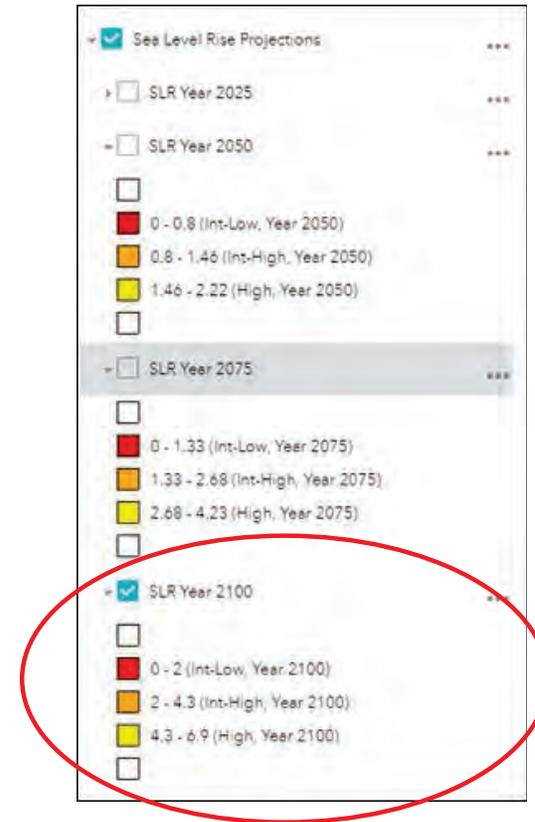
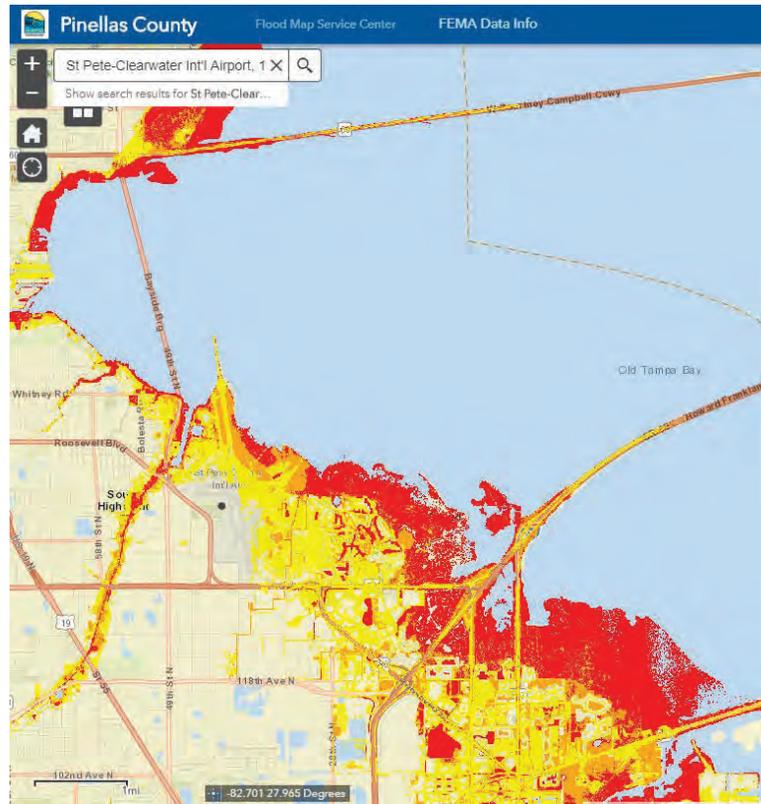
Year 2050



Source: Pinellas County 2018. Pinellas County Flood Map Information Service Center, <https://arcg.is/PGLua>

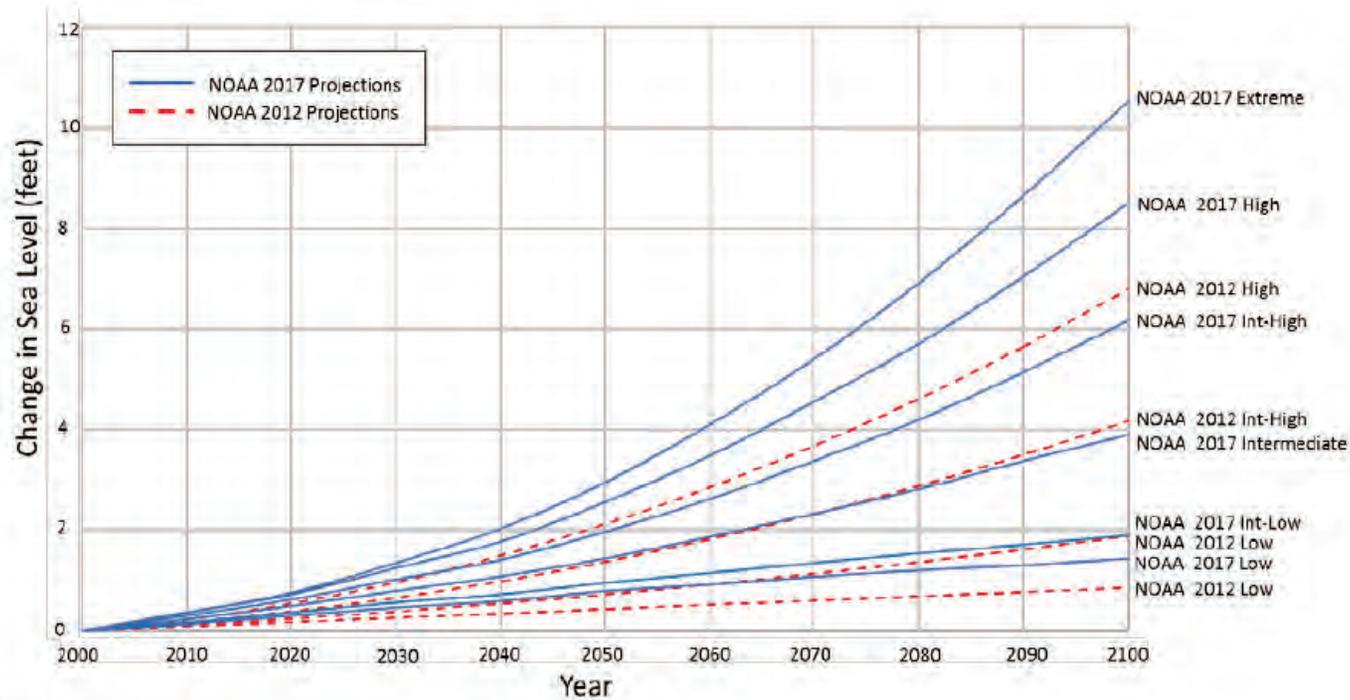
Sea Level Rise (SLR): trends & projections

Year 2100



Source: Pinellas County 2018. Pinellas County Flood Map Information Service Center, <https://arcg.is/PGLua>

Sea Level Rise: trends & projections



Notes:

-Projections are relative to the year 2000.

-Data retrieved from the USACE Sea Level Change Curve Calculator for the St. Petersburg tide station:

<http://www.corpsclimate.us/ccaceslcurves.cfm>

Sea Level Rise: trends & projections

| NOAA 2017 local mean sea level rise (SLR) projections for Tampa Bay Region | | | | | | |
|--|----------|------------------|--------------|-------------------|------|---------|
| | Scenario | | | | | |
| Year | Low | Intermediate-Low | Intermediate | Intermediate-High | High | Extreme |
| 2040 | 0.59 | 0.72 | 1.08 | 1.41 | 1.77 | 2.03 |
| 2060 | 0.92 | 1.15 | 1.87 | 2.62 | 3.48 | 4.1 |
| 2070 | 1.08 | 1.35 | 2.33 | 3.38 | 4.56 | 5.41 |
| 2100 | 1.44 | 1.9 | 3.9 | 6.17 | 8.5 | 10.53 |

Note: Seal level rise projections are measured in feet and relative to the year 2000.

Sources:

USGCRP, 2017: *Climate Science Special Report: Fourth National Climate Assessment, Volume I* [Wuebbles, D.J., D.W. Fahey, K.A. Hibbard, D.J. Dokken, B.C. Stewart, and T.K. Maycock (eds.)]. U.S. Global Change Research Program, Washington, DC, USA, 470 pp, doi: 10.7930/J0J964J6. Available at: https://tidesandcurrents.noaa.gov/publications/techrpt83_Global_and_Regional_SLR_Scenarios_for_the_US_final.pdf

Sea Level Rise: potential impacts

- Temporary or permanent inundation of airport infrastructure
- Erosion of runways & reduced equipment lifecycle due to saltwater intrusion
- Closure or reduced access to roadways and airport facilities due to flooding
- Waste containment issues



Precipitation: historic trends & projections

- Average rainfall in Pinellas County (between 1981-2010) is 54.70 inches
 - Florida receives an average of 55 inches of rain each year, but rainfall pattern is highly variable, both spatially and temporally.
- St. Pete area's long-term precipitation records (1892-2008) indicate a delay in the onset of the wet season and a decrease in summer precipitation.
 - Increased frequency of extreme rainfall events in St. Pete area
 - Since the 1950s, the Southwest Florida region has experienced a pattern of increasing extreme 1-, 2-, 3-, 6-, 12- and 24-hour precipitation events.
- Heavy rainfall events (1" or more of rainfall volume) are anticipated to occur more frequently.
- Seasonal shift of the wet season may result in localized drought conditions, particularly when combined with high atmospheric temperatures

Sources:

Florida Climate Center, Florida State University, <https://climatecenter.fsu.edu/products-services/data/1981-2010-normals/st-petersburg>

Mahjabin, Tasnuva, "Long-term Trends in Magnitude and Frequency of Extreme Rainfall Events in Florida" (2015). FIU Electronic Theses and Dissertations. 2257. <http://digitalcommons.fiu.edu/etd/2257>

Changing Precipitation: potential impacts

- Increased risk of flooding and standing water
- Reduced durability of exterior building envelopes or equipment due to weathering (e.g., driving rain and wind)
- Reduced visibility and navigability
- Erosion, scouring and undermining of pavement
- Failure of building envelope, mold vulnerability
- Limitation to outdoor maintenance and services



Photo credit: Richmond Airport RIC/Twitter. Temporary closure of RIC in June 2018 due to more than 7" of rain.

Hurricanes/Extreme Storms: trends & projections

- Since the early 1980s, there has been an increase in the intensity, frequency, and duration of Atlantic hurricanes.
 - Between 1900 and 2015, 63 tropical systems made landfall in Tampa Bay area.
 - Hurricane Irma was the most recent Category 4 storm to make landfall (southwest Florida), Cat 2 when reaching Tampa Bay.
- Tampa Bay area is one of the ten “most at-risk areas” globally for catastrophic damage from hurricanes and extreme storm events.
- By end-of-century, a decrease is projected in the overall number of storms in Florida, but severity may increase (Category 4 and 5).

Sources:

Bell, G. D., E. S. Blake, C. W. Landsea, T. B. Kimberlain, S. B. Goldenberg, J. Schemm, and R. J. Pasch, 2012: [Tropical cyclones] Atlantic basin [in "State of the Climate in 2011"]. *Bulletin of the American Meteorological Society*, 93, S99-S105, doi:10.1175/2012BAMSStateoftheClimate.1

Landsea, C. W., and J. L. Franklin, 2013: Atlantic hurricane database uncertainty and presentation of a new database format. *Monthly Weather Review*, 141, 3576-3592, doi:10.1175/MWR-D-12-00254.1.

Melillo, Jerry M., Terese (T.C.) Richmond, and Gary W. Yohe, Eds., 2014: *Climate Change Impacts in the United States: The Third National Climate Assessment*. U.S. Global Change Research Program, 841 pp. doi:10.7930/J0Z31WJ2

Hurricanes/Extreme Storms – Potential impacts

- Debris and foreign object damage to facilities, ground service equipment, lighting, navigation equipment, etc.
- Damage to airport terminal and facilities due to high wind, hail, lightning strikes, etc.
- Increased risk of power outage, or electrical voltage spikes.
- Disruptions/delays in emergency/fire service response
- Safety risk to airport employees and passengers

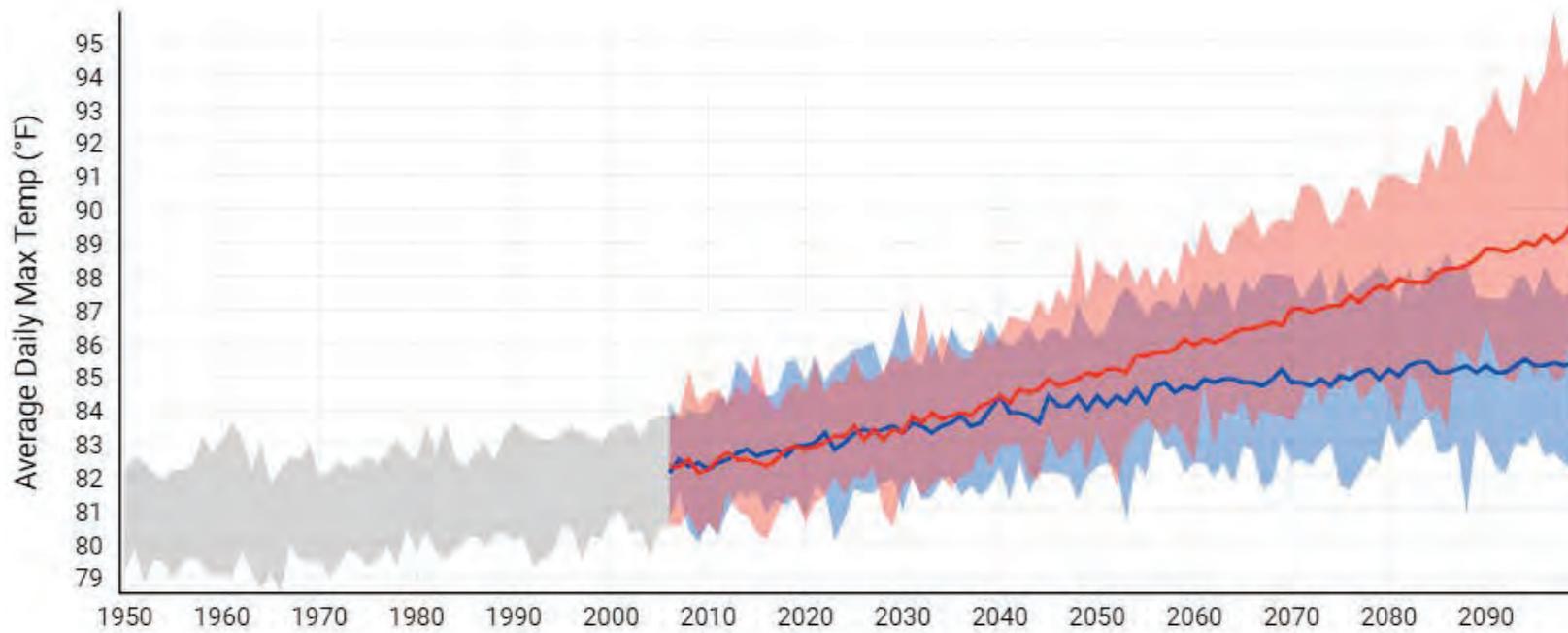


Photo Credit: jetBlue. At JFK during Hurricane Sandy.



Temperature: trends & projections

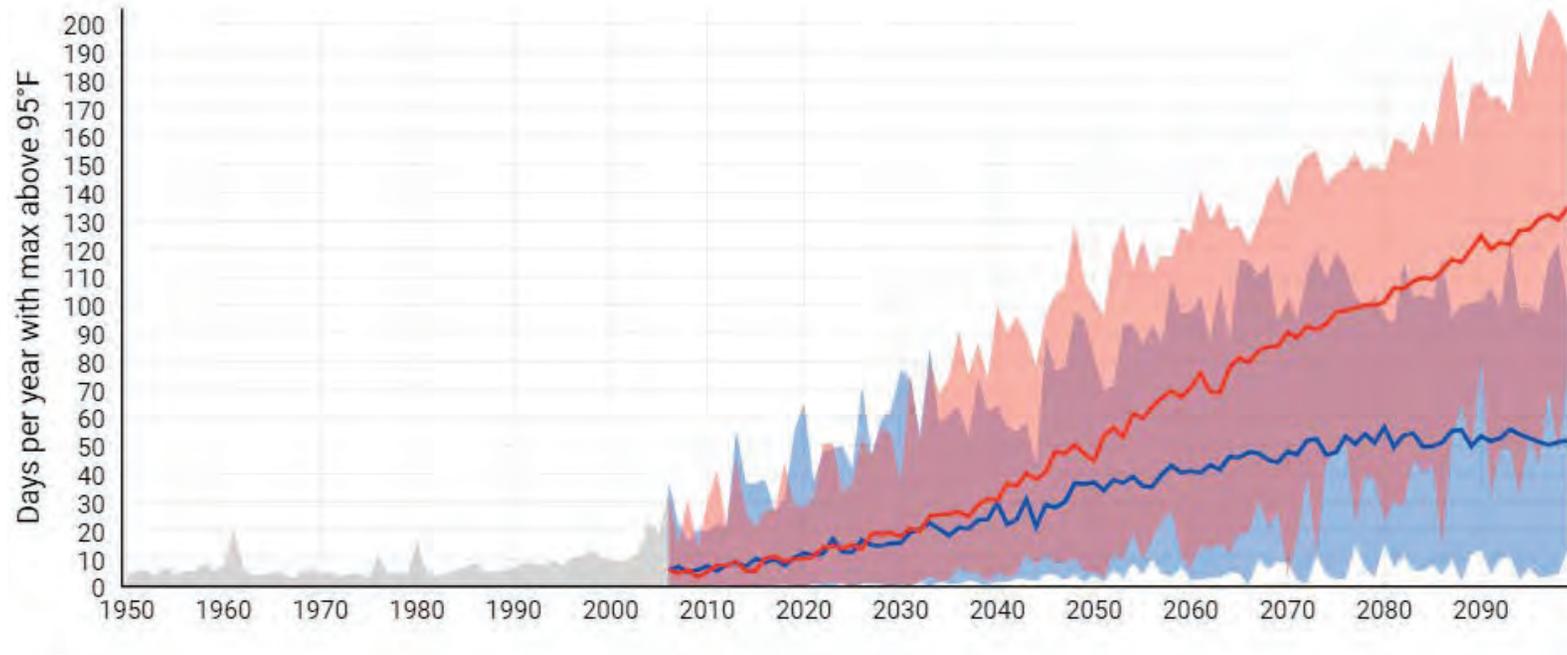
- Average Annual Maximum Temperature – Pinellas County



Sources: U.S. Federal Government, 2014: U.S. Climate Resilience Toolkit. [Online] <http://toolkit.climate.gov>.

Temperature: trends & projections

- Days per year with maximum above 95°F
 - Annual average of 9 days above 95°F; Mid-century – 30-50 days; End of century – 50-130 days



Sources: U.S. Federal Government, 2014: U.S. Climate Resilience Toolkit. [Online] <http://toolkit.climate.gov>.

Temperature: potential impacts

- Loss of pavement integrity/utility
- Reduced aircraft performance
- Stress on energy grid due to increased demand for cooling
- Increased fuel consumption and costs—resizing of fuel storage facilities
- Transformer failure due to high temperatures
- Heat exposure & safety risk for airport employees and passengers



Critical Systems and Assets

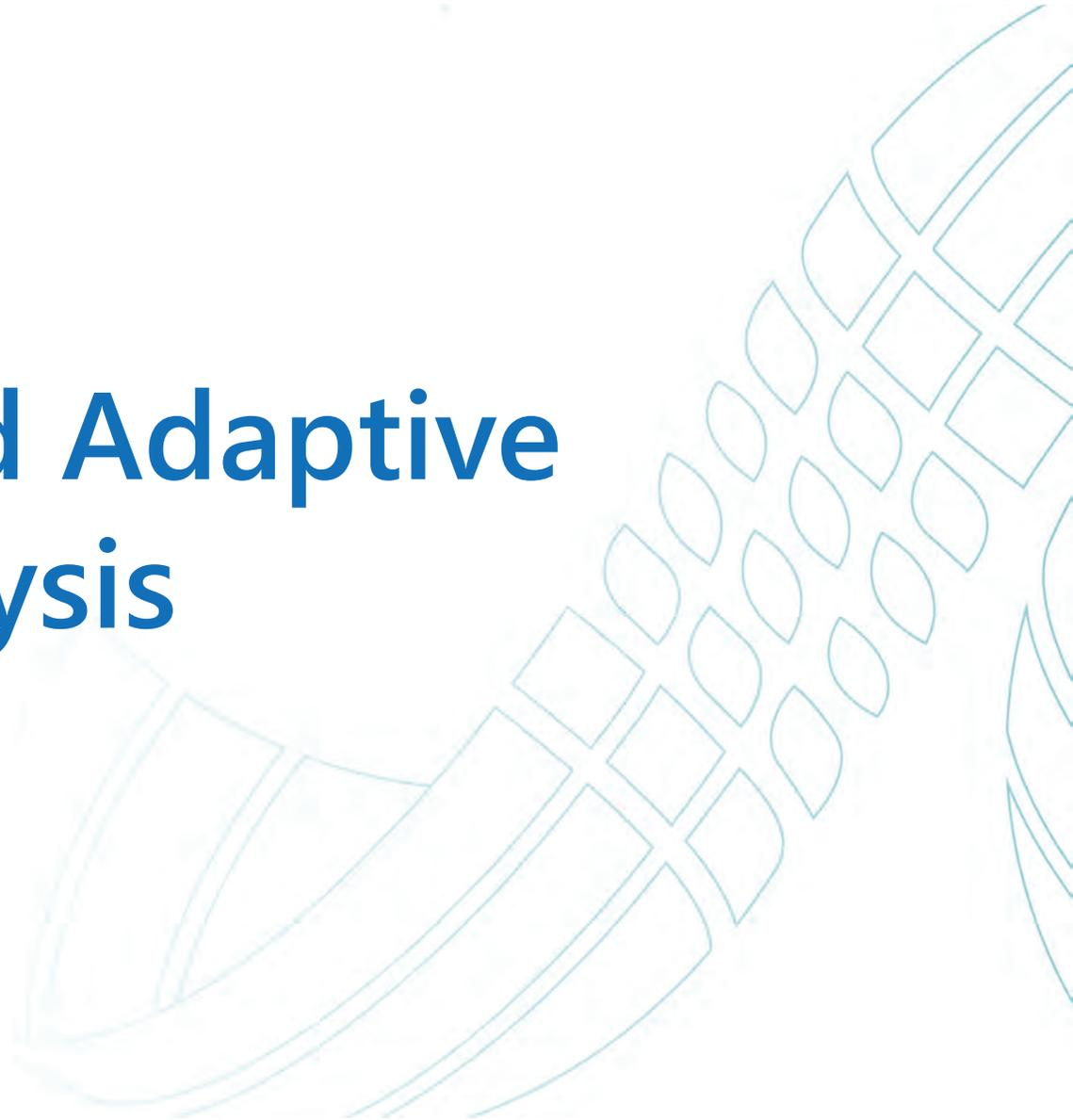
A decorative graphic on the right side of the slide, consisting of a grid of squares and circles, with some squares containing smaller circles, all rendered in a light blue color. The graphic is partially obscured by the text.

Functional Areas

- Aircraft Operation Areas
- Airfield Lighting
- Airport Facilities
- Passenger Terminal Facilities
- Information Technology and Telecommunications
- Airspace and Airport Traffic Control
- Takeoff and Landing Aids
- Utility Systems
- Passenger Terminal Landside Facilities
- Passengers, Employees, and Human Resources



Sensitivity and Adaptive Capacity Analysis



Sensitivity Assessment

How a system or sub-system might be affected by the climate impacts to which it is exposed:

| Sensitivity Levels | |
|--------------------|--|
| S0 | System will not be affected by the impact |
| S1 | System will be minimally affected by the impact |
| S2 | System will be moderately affected by the impact |
| S3 | System will be largely affected by the impact |
| S4 | System will be entirely affected by the impact |

Adaptive Capacity Evaluation

A system's ability to accommodate changes, manage damages, take advantage of opportunities, or cope with various climate impacts:

| Adaptive Capacity Levels | |
|--------------------------|---|
| AC0 | System is not able to accommodate or adjust to impact |
| AC1 | System is minimally able to accommodate or adjust to impact |
| AC2 | System is somewhat able to accommodate or adjust to impact |
| AC3 | System is mostly able to accommodate or adjust to impact |
| AC4 | System is able to accommodate or adjust to impact in a beneficial way |

Vulnerability Ranking

How vulnerable a system is to the effects of climate change based on rankings of sensitivity and adaptive capacity:

| | | Sensitivity (Low to High) | | | | | |
|---|-----|---|-------------|-------------|--------|--------|--------|
| | |  | | | | | |
| Adaptive Capacity (High to Low)  | | S0 | S1 | S2 | S3 | S4 | |
| | AC4 | Green | Green | Light Green | Yellow | Yellow | Yellow |
| | AC3 | Green | Light Green | Yellow | Yellow | Orange | Orange |
| | AC2 | Light Green | Light Green | Yellow | Orange | Orange | Orange |
| | AC1 | Light Green | Yellow | Orange | Orange | Red | Red |
| | AC0 | Yellow | Yellow | Orange | Red | Red | Red |

| Vulnerability Ranking Table |
|-----------------------------|
| Potential Opportunity |
| Low Vulnerability |
| Medium-Low Vulnerability |
| Medium-High Vulnerability |
| High Vulnerability |

Breakout/Discussion & Next Steps



Proposed PIE Sustainability Vision Statement and Goals



Proposed PIE Sustainability Vision Statement

PIE will serve as a sustainable catalyst for economic growth in the region by providing convenient air service options and aviation-related business opportunities while maintaining its resiliency to changing environmental and economic conditions.

Proposed PIE Sustainability Goals

- **Maximize the economic potential of PIE**
 - Enhance air service offerings
 - Develop business and employment opportunities
- **Conserve resources through effective design and operation of facilities**
 - Reduce energy and water use in buildings
 - Closely monitor spending on electricity and water
- **Plan future facilities and infrastructure to be resilient to changing conditions**
 - Incorporate all available scientific data on sea level rise and storm surge in future planning
 - Diversify revenue streams to withstand changing economic conditions or other events.

Example Sustainability Evaluation Criteria

| Criteria | Alternative A1 | Alternative A2 | Alternative B3 | Alternative D4 |
|--|----------------|----------------|----------------|----------------|
| Sustainability | | | | |
| Reuses the existing facilities to the extent practical | | | | |
| Use of existing infrastructure investment vs. new construction | | | | |
| Stormwater management | | | | |
| Consistent with airport's resiliency initiatives | | | | |
| Promotes natural light/sense of space | | | | |
| Opportunities to create landscaped areas/public spaces | | | | |
| Promotes positive economic feedback | | | | |

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Offices located throughout the east coast

ATTACHMENT 2

PIE Vulnerability Assessment - Critical Assets

| Functional Area | Critical assets and/or operational requirements |
|---|--|
| Aircraft Operation Areas | Runways (18-36, 4-22) Taxiways and taxilanes |
| Airspace & Airport Traffic Control | PIE Airport Traffic Control Tower Instrument Landing Systems (ILS) |
| Airfield Lighting | Runway lighting systems Identification lighting beacon Taxiway lighting Airfield signage |
| Takeoff and Landing Aids | Runway end identification lights Runway Alignment Indicator Lights (MALSR) Precision Approach Path Indicator (PAPI) systems Runway Visual Range (RVR) sensor units Automated Surface Observing System (ASOS) equipment Remote transmitter/receiver (RTR) facility |
| Passenger Terminal Facilities | Terminal building Terminal aprons/ramps (for aircraft parking, GSE storage) Emergency/Severe Weather Shelter Locations TSA equipment/operations Baggage handling Concessionaires and Other Non-Airline Tenants |
| Passenger Terminal Landside Facilities | Terminal access roadways Curbfront areas - providing access to the ticketing/check-in (departures) area and baggage claim (arrivals) area Ground transportation area (GTA) Parking lots (short-term, long-term, employee, economy/remote#1, overflow, remote#2) and cell phone lot Rental car facilities |
| Airport Facilities | General aviation facilities (FBOs, National Aviation Academy, Pinellas County Sheriff's Hangar, The Landings Hangar Area) Support & service facilities (airfield electrical vault, Aircraft Rescue and Fire Fighting (ARFF) department, airport maintenance equipment storage area, fuel farm) |
| Utility systems | Grid-connected power Potable water system Sanitary sewer system Backup generators Stormwater management/flood control systems |
| Information Technology and Telecommunications | IT infrastructure Internet, network, and communications systems (phones/radios) Emergency communications/warning systems Communications (passenger to outside) |
| Passengers, Employees, and Human Resources | Employees' health and well-being Irregular Operations (IROPS) procedures Alternative operation locations Family support strategies Employee accessibility/mobility Staff training/education Financial resources (insurance, access to cash, etc.) Passenger assistance staff |

This list of critical systems and assets were developed using the "St Pete-Clearwater International Airport Master Plan Working Paper #1" document developed by ESA.

APPENDIX I

Parking Structure Study



MEMORANDUM

To: Tom Jewsbury
Director, St. Pete-Clearwater International Airport

From: William Schmitz and Jill Capelli
Kimley-Horn and Associates, Inc.

Date: 4/10/2019

Subject: Parking Structure Study

Introduction

St. Pete-Clearwater International Airport (Airport) staff requested that Kimley-Horn perform an additional parking study in support of the new Master Plan and the proposed parking structure development. This study has two primary purposes:

1. Identify the demand for short-duration parking and assess how peer airports are accommodating short-duration parking to inform the parking structure programming
2. Develop concepts for structured parking development that account for the Airport's budget, preferred short-duration parking operation, and consider future expansion

This study builds on the analysis completed as part of the new Master Plan regarding parking demand and preferred parking development locations. The following sections outline the study work completed, the coordination with the Airport, and the recommended next steps.

Short-Duration Parking Demand

Short-duration parking demand was assessed for October 2017 and the week of Thanksgiving 2017. These periods were used because:

- 2017 represents a period prior to construction impacting airport parking lots – construction causes changes in customer behavior and impacts the validity of results
- October represents a busy month for airport activity, but not the busiest month for parking demand
- The week of Thanksgiving reflects an extremely busy period

The Airport's parking manager, Republic Parking, provided Kimley-Horn with parking transaction data for October 2017 and the week of Thanksgiving. The parking transaction data included the entry and exit time for each vehicle. The parking transaction data was for all airport parking lots, not limited to

only the Short Term Lot. This is important because during peak periods when walking distance lots are full, Republic parking indicated that short-duration parkers utilize shuttle lots. Not accounting for this demand would underestimate the demand for short-duration parking.

Kimley-Horn processed the raw data provided to approximate the short-duration parking demand. Vehicles that parked in the facilities for over four hours were first removed from the analysis; customers parking over four hours are assumed to be long-duration parkers. An analysis was then run on the under four-hour transactions to determine the short-duration vehicle occupancy in each hour of October 2017 and Thanksgiving week 2017. Graphs showing the facility occupancy of short-duration parkers is included in **Appendix 1**. Based on the analysis, the occupancy for each time interval was similar. **Figure 1** and **Figure 2** illustrate the number of occurrences within each range of short-duration parking occupancy per hour. These graphs show that the short-duration demand is typically less than 100 vehicles. During peak periods, such as Thanksgiving, there were approximately 30 one-hour periods where the demand for short-duration parking exceeded 100 vehicles.

Figure 1 – October 2017 Facility Vehicle Occupation Histogram (1-Hour Periods)

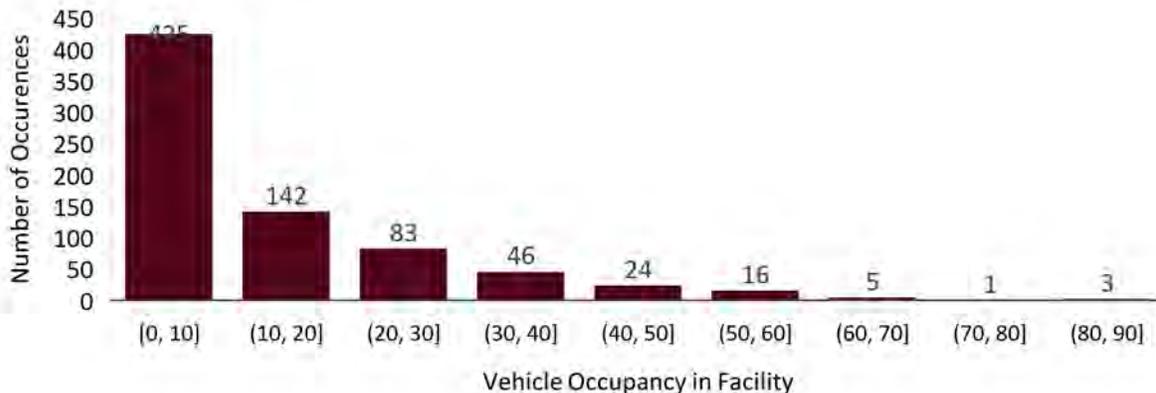
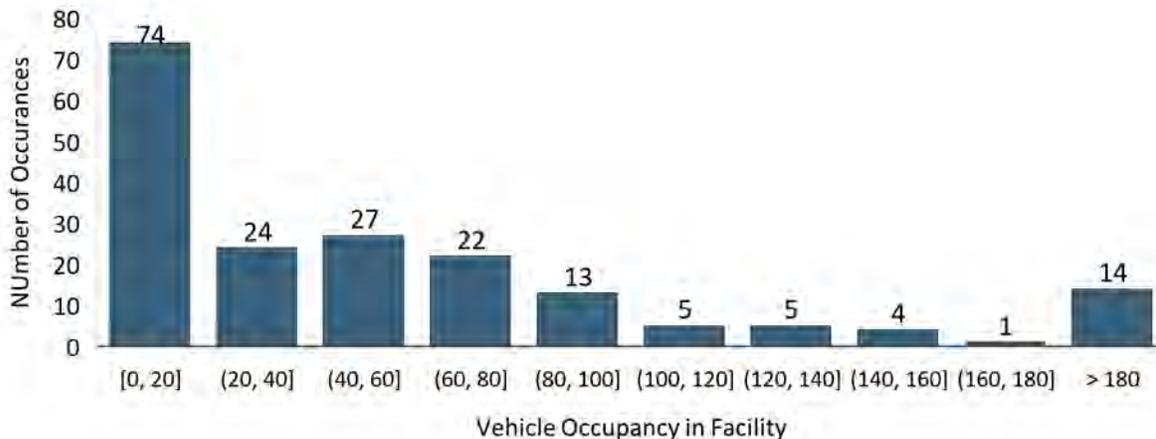


Figure 2 – Week of Thanksgiving 2017 Facility Vehicle Occupation Histogram (1-Hour Periods)



Parking Benchmarking Study

A parking benchmarking study was conducted to identify the use of separate short-duration parking facilities from long-duration parking and rates for parking lots within walking distance of the terminal at Florida and similarly-sized airports. The airports studied provided a mix of results to which the Airport may compare itself. Some of the airports studied provided both short-duration and long-duration parking rates, while others only provided a single consolidated daily parking rate. Also, some airports provided separate facilities for short-duration and long-duration parking, while others did not separate the two user groups.

The information gathered as part of the benchmarking study is summarized in **Table 1** and **Table 2**. Key takeaways from the study are:

- Half of the benchmark airports had a separate parking lot for short-duration parking versus an integrated short-duration/long-duration lot. Utilizing short-duration parking incorporated with long-duration parking is not outside of the mainstream.
- Short-duration parking rates at PIE are comparable to peer airports
- Long-duration, walking distance parking rates at PIE are comparable to peer airports
- Airports with a parking garage can charge a higher rate for parking in the structure in closer proximity to the terminal. The rate averaged between 25% and 50% greater than the current rate for the Long Term Lot at PIE.

Table 1 – Short-Duration Parking Benchmarking Study Summary

| Airport LOCID | Location | Enplanements CY 2017 | Separate Short- Duration Parking Lot | Short Duration Parking Stalls | Parking Rate |
|--------------------------|-----------------------|---------------------------------|---|--|--|
| SAN | San Diego, CA | 11,193,993 | No | N/A | 30 min. - \$2.50 31-60 min. - \$6 \$2 per additional hr. \$32 daily maximum |
| TPA | Tampa, FL | 9,548,541 | Yes | 3,542 | 60 min. – Free 61-80 min. - \$4 \$2 per 20 min. over 80 \$22 daily maximum |
| RSW | Fort Myers, FL | 4,364,224 | Yes | 2,432 | 20 min. – Free 21- 59 min. - \$2 \$3 per additional hr. \$18 daily maximum |
| JAX | Jacksonville, FL | 2,701,861 | Yes | 1,317 | \$2 per 30 min. \$20 daily maximum |
| CHS | Charleston, SC | 1,945,699 | No | N/A | \$1 per 20 min. \$15 daily maximum |
| SDF | Louisville, KY | 1,684,728 | No* | N/A | 60 min. - \$1 \$1 per 30 min. \$19 daily maximum |
| GEG | Spokane, WA | 1,570,652 | No | 1,200 | \$2 per hour \$10 daily maximum |
| SFB | Sanford, FL | 1,434,990 | Yes | 450 | 15 min. – Free \$2 per 20 min. \$28 daily maximum |
| MYR | Myrtle Beach, SC | 1,131,959 | Yes | 185 | 15 min. – Free 16 – 30 min. - \$3 \$1 per 15 min. \$21 daily maximum |
| GSP | Greenville, SC | 1,051,085 | Yes | 2,627 | \$1 per 30 min. \$15 daily maximum |
| PIE | Clearwater, FL | 1,021,361 | Yes | 275 (Planned) | 1 hour - \$2 \$1 per 20 min. \$18 per day |
| PNS | Pensacola, FL | 839,238 | No | N/A | \$1 per 30 min. \$11 per day |

* The short-term parking product is in the process of being eliminated

Table 2 – Long Duration Walking Distance Parking Benchmarking Study Summary

| Airport LOCID | Location | Enplanements CY 2017 | Long-Duration Walking Distance Spaces | Parking Rate per Day |
|--------------------------|-----------------------|---------------------------------|--|--|
| SAN | San Diego, CA | 11,193,993 | 5,400* | \$32 |
| TPA | Tampa, CA | 9,548,541 | 6,584 | \$18 |
| RSW | Fort Myers, FL | 4,364,224 | N/A | N/A |
| JAX | Jacksonville, FL | 2,701,861 | 2,323 Garage 1,722 Surface | \$17 Garage \$11 Surface |
| CHS | Charleston, SC | 1,945,699 | 2,323 Garage* 1,722 Surface | \$15 Garage \$10 Surface |
| SDF | Louisville, KY | 1,684,728 | 3,229 Garage*^ 1,440 Surface 391 Credit Card | \$13 Garage \$9 Surface \$8 Credit |
| GEG | Spokane, WA | 1,570,652 | 2,600 Garage* 1,200 Surface | \$10 Garage \$8 Surface |
| SFB | Sanford, FL | 1,434,990 | 800 Garage 830 Surface | \$17 Garage \$14 Surface |
| MYR | Myrtle Beach, SC | 1,131,959 | 800 Surface 370 Credit Card | \$12 Surface \$9 Credit |
| GSP | Greenville, SC | 1,051,085 | 400 (New Garage in Planning^) | \$9 |
| PIE | Clearwater, FL | 1,021,361 | 866 (Planned) | \$12 |
| PNS | Pensacola, FL | 839,238 | 1,300 Garage^ 2,000 Surface | \$11 Garage \$9 Surface |

* Includes short-duration parking stalls

^Rental car operations within garage

Parking Structure Study

The results of the short-duration parking study and benchmarking study were reviewed with Airport staff on January 9, 2019. Based on the discussion, the Airport provided the following direction to Kimley-Horn for use in concept development:

- The short-duration parking demands identified above are consistent with observations. Due to the low demand for short-duration parking, a dedicated area for short-duration parking is not required in the parking structure.
- Structured parking should be located close to the terminal to reduce customer walking distance.
- Flexibility is important in the functional layout to allow flexing the use of space or reallocating to different uses over time as customer preferences change.
- Consideration needs to be given to future expansion of structured parking to meet growing demand for parking at the Airport as identified in the new Master Plan.
- The Airport budget for the parking structure is approximately \$20 million dollars, which includes design and construction costs.

Using the input from Airport staff, Kimley-Horn developed four structured parking concepts. The concepts represent a range of strategies to meet the goals of the Airport. Where compatible, preferred elements from the individual concepts can be combined to address preferences of the Airport.

The following common parking structure elements were assumed in the development of concepts:

- Higher floor to ceiling between ground level and the first structured level
- Public parking exit plaza planned for the current landside construction project to remain
- New public parking entry plaza
- Public parking entry to generally remain on the east side of the parking structure
- Accommodations for separate structured parking and surface lot parking products
- No specific separate parking product within the structure
- 90-degree parking with 60' column spacing perpendicular to the direction of vehicle drive aisles within the parking structure

Detailed graphics of the concepts developed can be found in **Appendix 2**. The approach taken in each concept is to show a first phase of development (Phase 1) in greater detail regarding vehicle access to the facility, vehicle vertical circulation, and interaction with existing facilities. Each concept also includes a conceptual graphic describing long-term parking development and conceptual facility modifications to meet future functional circulation needs.

In addition to graphic plans, estimates of probable construction cost were prepared for each concept. The following were assumed for developing estimates of probable construction cost:

- Parking structure with flat floor plates
- Structure cost includes structure, code required egress stairs, perimeter barrier, wayfinding signage, code required lighting, code required standpipes, and code required drainage
- Standalone elevator core that is an open structure with garage level finishes, two elevators, and a stairwell
- Replacement of the existing watermain that crosses under the existing Short Term Lot
- Repaving of the Short Term Lot at the completion of construction
- New public parking entry plaza
- Limited architectural finishes
- 15% of construction cost for project development and contingency

CONCEPT 1

Phase 1 Development Description

The following are major elements that describe this concept:

- Four structured levels of parking located on east side of the Short Term Lot footprint
- Approximately 800 total parking stalls within the footprint of the parking structure (approximately 160 stalls per level), which results in a net increase of approximately 650 stalls to the Airport parking supply
- Parking drive aisles oriented in an east-west direction
- Vehicle vertical circulation via express ramps that require a customer to circulate on a floor level to reach the level of parking above or below
- A new public parking entry plaza located in approximately the same location as the proposed Short Term Lot entry plaza, only with lanes oriented in a north-south direction

Long-Term Parking Development Description

To meet future parking operational needs, the speed ramps installed in Phase 1 are removed and replaced with two single threaded helices with the capacity to serve higher volumes of traffic. The helices are also positioned to better serve the facility. The exit helix is positioned at the western limit of the structure to increase the ground level area that is unimpeded by vehicles exiting from levels above. Future expansion to the west would likely require an additional elevator core to both meet increasing customer demand for vertical circulation and to provide a higher level of customer service in terms of walking distance.

Estimate of Probable Construction Cost

The estimate of probable construction cost in **Table 3** assumes a precast concrete structure. The cost for a post-tensioned concrete structure would be approximately 20% more for the garage structure line item.

Table 3 – Concept 1: Estimate of Probable Construction Cost

| Element | Cost Range | |
|-----------------------------|-------------------|----------------|
| Garage Structure | \$9.7M | \$10.8M |
| Elevator Core | \$2.0M | \$2.5M |
| Speed Ramp Up | \$1.5M | \$1.8M |
| Speed Ramp Down | \$1.5M | \$1.8M |
| Site Civil | \$0.8M | \$1.0M |
| Sub-Total | \$15.5M | \$17.9M |
| | | |
| Total (Includes 15%) | \$17.8M | \$20.6M |

The approximate cost per stall of this concept is between \$22,250 and \$25,750. Much of this cost is driven by the limited number of at-grade stalls, which can be provided at a lower cost, and the cost of vehicle vertical circulation independent of the structure.

Concept Evaluation

The relative advantages associated with this concept include:

- Development footprint limited to the Short Term Lot, which reduces construction impacts to the Long Term Lot
- Phase 1 is the most cost-effective concept

The relative challenges associated with this concept include:

- Reduction in stall count on ground level due to speed ramp configuration
- Express ramp circulation on the parking level increases the potential for incidents due to intersecting traffic movements
- Limited operational flexibility to separate functions on ground level in Phase 1 due to the location of vehicle exiting
- Limited operational flexibility to separate functions on elevated levels in Phase 1 due to the need for vehicles to circulation on a level to access or exit the levels above
- Future development may be more expensive as it could require removal and replacement of the speed ramps with alternate vehicle vertical circulation to meet demand

CONCEPT 2

Phase 1 Development Description

The following are major elements that describe this concept:

- Four structured levels of parking located in the same location as Concept 1
- Approximately the same number of stalls as Concept 1
- Parking drive aisles oriented in an east-west direction
- Vehicle vertical circulation up via a single threaded helix
- Vehicle vertical circulation down via an express ramp that requires a customer to circulate from Level 5 to Level 4 and then provides access from each level below directly to the exit without circulating on the below floor level
- A new public parking entry plaza located in approximately the same location as the proposed Short Term Lot entry plaza, only with lanes oriented in a north-south direction

Long-Term Parking Development Description

This concept would not require new vehicle vertical circulation to meet future parking operational needs. The facility could be expanded to the west or south and be served by the vehicle vertical circulation provided in Phase 1. Future expansion to the west would likely require an additional elevator core to both meet increasing customer demand for vertical circulation and to provide a higher level of customer service in terms of walking distance.

Estimate of Probable Construction Cost

The estimate of probable construction cost in **Table 4** assumes a precast concrete structure. The cost for a post-tensioned concrete structure would be approximately 20% more for the garage structure line item.

Table 4 – Concept 2: Estimate of Probable Construction Cost

| <i>Element</i> | <i>Cost Range</i> | |
|-----------------------------|-------------------|----------------|
| Garage Structure | \$9.7M | \$10.8M |
| Elevator Core | \$2.0M | \$2.5M |
| Helix Up | \$3.0M | \$3.5M |
| Speed Ramp Down | \$1.5M | \$1.8M |
| Site Civil | \$0.8M | \$1.0M |
| <i>Sub-Total</i> | <i>\$17.0M</i> | <i>\$19.6M</i> |
| | | |
| Total (Includes 15%) | \$19.6M | \$22.5M |

The approximate cost per stall of this concept is between \$24,500 and \$28,125. Much of this cost is driven by the limited number of at-grade stalls, which can be provided at a lower cost, and the cost of vehicle vertical circulation independent of the structure.

Concept Evaluation

The relative advantages associated with this concept include:

- Development footprint limited to the Short Term Lot, which reduces construction impacts to the Long Term Lot
- Vehicle vertical circulation allows flexibility in accommodating variable user groups in the facility, although Levels 4 and 5 would be challenging to differentiate due to the shared exit circulation
- Vehicle vertical circulation is not replaced in future phases, which reduces potential future costs
- Ground level in the area closest to the terminal is not impacted by vehicle circulation from levels above, which enhances this area as a potential premium product or some other means of enhancing revenue

The relative challenges associated with this concept include:

- The interface of the up helix and the down speed ramp on Levels 4 and 5 is less desirable than separating these movements as some customers may be confused and the concentration of traffic increases the potential for an incident
- Exit speed ramp limits the consistency and the quality of the connection between Phase 1 and future phases of parking development
- The exit speed ramp position to serve Phase 1 requires customers on upper levels to traverse the full length of the parking structure, east to west, to exit the facility – this sends the driver in the opposite direction of where they want to go to exit
- The upper end of the cost range exceeds the Airport's current budget

CONCEPT 3

Phase 1 Development Description

The following are major elements that describe this concept:

- Four structured levels of parking located in the same location as Concept 1
- Approximately the same number of stalls provided as Concept 1, but the net increase would be less due to helix placement
- Parking drive aisles oriented in a north-south direction
- Vehicle vertical circulation up via a single threaded helix
- Vehicle vertical circulation down via express ramps that require a customer to circulate on a floor level to reach the level of parking below
- A new public parking entry plaza located in approximately the same location as the proposed Short Term Lot entry plaza, only with lanes oriented in a north-south direction

Long-Term Parking Development Description

To meet future parking operation needs, the exit express ramp in Phase 1 is removed and replaced with a single threaded helix with the capacity to serve higher volumes of traffic. The exit helix is positioned at the western limit of the structure to increase the ground level area that is unimpeded by vehicles exiting from levels above. The facility could be expanded to the west or south. Future expansion to the west would likely require an additional elevator core to both meet increasing customer demand for vertical circulation and to provide a higher level of customer service in terms of walking distance.

Estimate of Probable Construction Cost

The estimate of probable construction cost for Concept 3 is consistent with the estimate of probable construction cost for Concept 2.

Concept Evaluation

The relative advantages associated with this concept include:

- The north-south drive aisles provide the Airport with multiple, reasonable options for phased parking expansion.
- The position of the exit from structured parking on ground level offers multiple options for multiple uses of the ground level.
- The positioning of vehicle vertical circulation in Phase 1 provides an efficient parking floor plate with the potential for more stalls per level than in other concepts.

The relative challenges associated with this concept include:

- A lower number of net new stalls is available due to helix placement within areas that are currently parking spaces.
- The exit express ramp configuration impacts the ability to have multiple user groups on different levels in Phase 1.
- The position of the exit from structured parking in Phase 1 could negatively impact the flow of customers from the terminal to parking and the existing rental car area.
- The configuration of the Phase 1 project would have significant impacts to the Long-Term Lot during construction and would likely require construction of a temporary entry plaza to maintain parking operations during construction.
- The upper end of the cost range exceeds the Airport's current budget

CONCEPT 4

This concept was prepared at the request of Airport staff to show the parking structure layout from Concept 3 with an up helix position more consistent with Concept 2. As such, the description of the concept is substantially the same as Concept 3. The estimated cost for Concept 4 is substantially the same as Concept 3, although there is some additional cost associated with the helix configuration shown. The relative challenges associated with this concept are substantially the same as Concept 3, although this configuration would have a lesser impact on the Long Term Lot. The relative

advantages associated with this concept are substantially the same as Concept 3, although this concept more efficiently utilizes the area near the Short Term Lot entry plaza.

ADDITIONAL STUDY REQUESTED BY THE AIRPORT

During a workshop on January 24, 2019, Airport staff requested that Kimley-Horn explore reducing the number of parking levels developed in Phase 1. The goal of this reduction is to increase the number of stalls provided by building additional flat structured and surface parking floor area and less height of vehicle and pedestrian circulation. Kimley-Horn explored this with Concept 1 and Concept 3 as they are representative of other concepts. The Airport should strongly consider any perceived near-term increases in the number of parking stalls versus potential long-range impacts to parking development to meet demand anticipated in the new Master Plan. An approach focused on a shorter structure also forgoes the potential development for a higher number of stalls in close proximity to the terminal.

Concept 1B

This concept provides approximately 1,000 parking stalls within the footprint of the Short Term Lot. This configuration results in a net increase of approximately 725 stalls. For this concept, the express ramps were shifted to the east and west sides of the structure to remove future expansion impediments. This shift enhances the flexibility and functionality of the ground level.

The estimate of probable construction cost in **Table 5** assumes a precast concrete structure. The cost for a post-tensioned concrete structure would be approximately 20% more for the garage structure line item.

Table 5 – Concept 1B: Estimate of Probable Construction Cost

| <i>Element</i> | <i>Cost Range</i> | |
|-----------------------------|--------------------------|----------------|
| Garage Structure | \$11.4M | \$12.7M |
| Elevator Core | \$1.6M | \$2.0M |
| Speed Ramp Up | \$1.2M | \$1.4M |
| Speed Ramp Down | \$1.2M | \$1.4M |
| Site Civil | \$0.8M | \$1.0M |
| <i>Sub-Total</i> | <i>\$16.2M</i> | <i>\$18.5M</i> |
| | | |
| Total (Includes 15%) | \$18.6M | \$21.3M |

The approximate cost per stall of this concept is between \$18,600 and \$21,300.

Concept 3B

This concept provides approximately 1,000 parking stalls, which results in a net increase of approximately 725 stalls. For this concept, the exit express ramp was shifted to the south side of the structure to enhance ground level circulation and open a larger area for future expansion to the west.

The estimate of probable construction cost in **Table 6** assumes a precast concrete structure. The cost for a post-tensioned concrete structure would be approximately 20% more for the garage structure line item.

Table 6 – Concept 3B: Estimate of Probable Construction Cost

| <i>Element</i> | <i>Cost Range</i> | |
|-----------------------------|-------------------|----------------|
| Garage Structure | \$11.4M | \$12.7M |
| Elevator Core | \$1.6M | \$2.0M |
| Helix Up | \$2.4M | \$2.8M |
| Speed Ramp Down | \$1.2M | \$1.4M |
| Site Civil | \$0.8M | \$1.0M |
| <i>Sub-Total</i> | <i>\$17.4M</i> | <i>\$19.9M</i> |
| | | |
| Total (Includes 15%) | \$20.0M | \$22.9M |

The approximate cost per stall of this concept is between \$20,000 and \$22,900.

Additional Cost Information Requested by the Airport

Airport staff requested information on costs related to enhancements to the base estimates of probable construction cost presented above. The following are approximate costs for items requested:

- Parking Guidance System: \$500 to \$600 per stall
- Distributed Antenna System: \$30,000 to \$60,000 for setting up infrastructure to accommodate a system, with the physical infrastructure be provided by a vendor who would request rent free space in exchange for providing service
- Architectural Façade Enhancements: \$5 to \$75 per square foot of total garage exposed vertical area, depending on the quality and detail of finishes

Recommendations

Based on the analysis above and discussions with Airport staff, Kimley-Horn offers the following recommendations:

- The anticipated short-duration parking demand is considerably below the 275 stall capacity of the new Short Term Lot. Consideration should be given to developing a premium parking product in the new Short Term Lot to enhance utilization and revenue from the parking lot in closest proximity to the terminal. Providing this product may depend on the amount of time between opening the new lot and construction of the parking structure. Creating a new product to only take it away when the parking structure is built could frustrate customers.
- Short-duration parking should be accommodated as part of a larger parking product rather than as a separate nested area in the proposed parking structure.
- Structured parking development should be focused close to the terminal to enhance the attractiveness of these parking stalls to customers due to the convenience provided. The configuration of the structured parking can vary depending on the priorities of the Airport.
- Where short-duration parking is shared with long-duration parking, a strategy to assign parking spaces to be available at most times to short-duration parkers should be explored. Signage has been successfully employed at other airports to designate short-duration stalls in mixed use parking facilities.
- The concepts included in this study represent a sampling of feasible facilities for the proposed site given the constraints of the site and Airport funding. The concept work should be further refined as part of a program definition document to provide direction to a design team regarding the Airport's preference for facility function which includes considerations for long range development.
- During the meeting on January 24, 2019, there was discussion regarding how to enhance revenue, particularly related to employee parking in spaces that could be revenue generating long-duration parking spaces. A landside revenue study could be conducted to assist the Airport in determining the optimal pricing and operational location for parking and ground transportation offerings. The study should consider the rates for services, the revenue generated by each service, expenses associated with each service, and total net revenue.

Construction operations related to the current landside reconstruction program have caused impacts to numerous parking lots which have resulted in decreased parking transactions and increased use of other transportation modes. PIE was particularly successful with using an advertising campaign during the 2018 holiday season encouraging customers to plan for alternatives to parking at PIE due to the construction and the parking lots did not approach capacity. Additional study work should be performed following completion of the landside reconstruction program to validate current passenger mode choice and parking demand to inform the timeline and scope of structured parking development.

Closure

We appreciate the opportunity to support the Airport in advancing their parking program. Please contact Bill Schmitz (651-643-0440) or Jill Capelli (954-535-5107) if you have any questions.

Appendix 1

Short-Duration Parking Analysis

Figure 1.1 - 2017 Overnight Occupancy: All Airport Parking Facilities

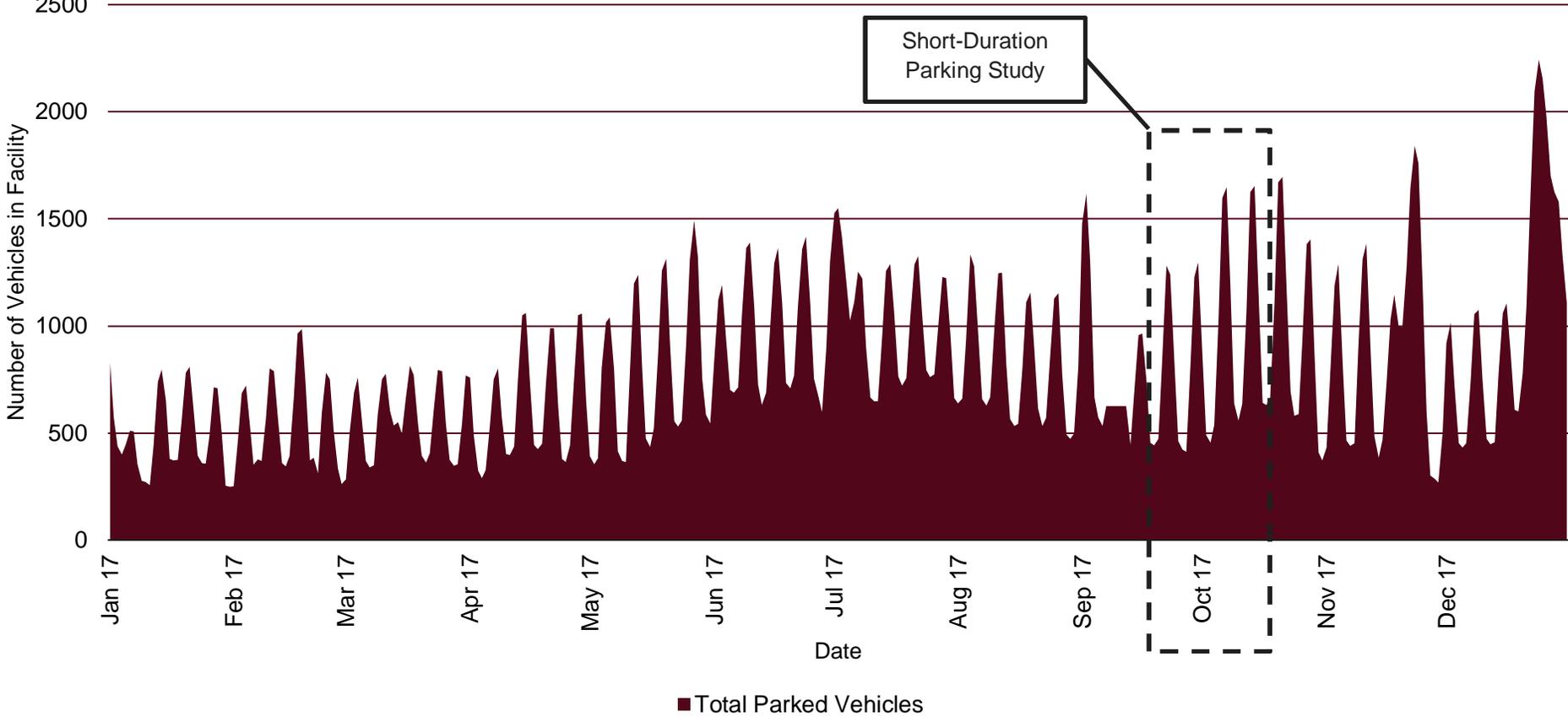


Figure 1.2 - Short-Duration Parking Activity: October 2017 (1-Hour Intervals)

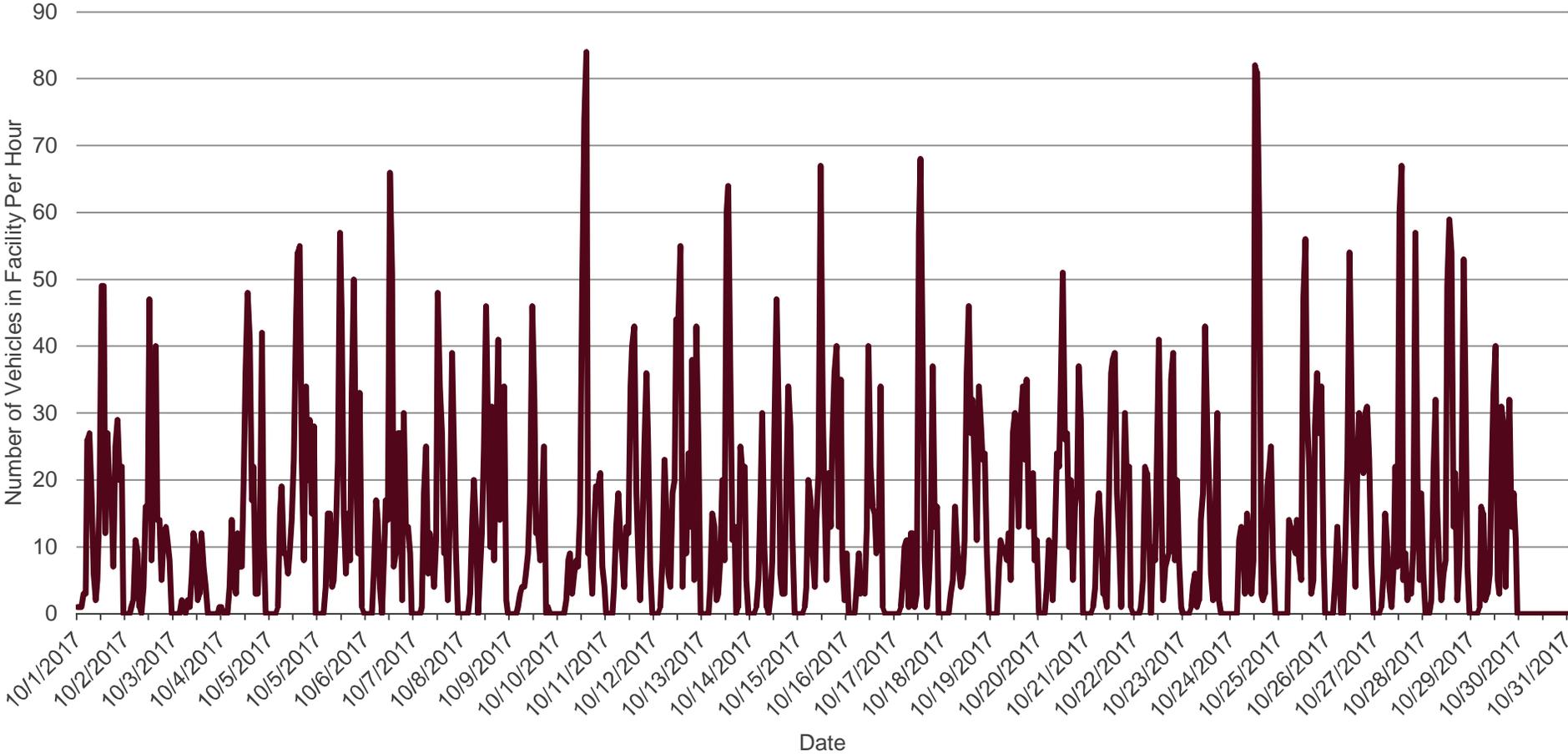


Figure 1.3 - Short-Duration Activity: October 2017 (Activity by Week)

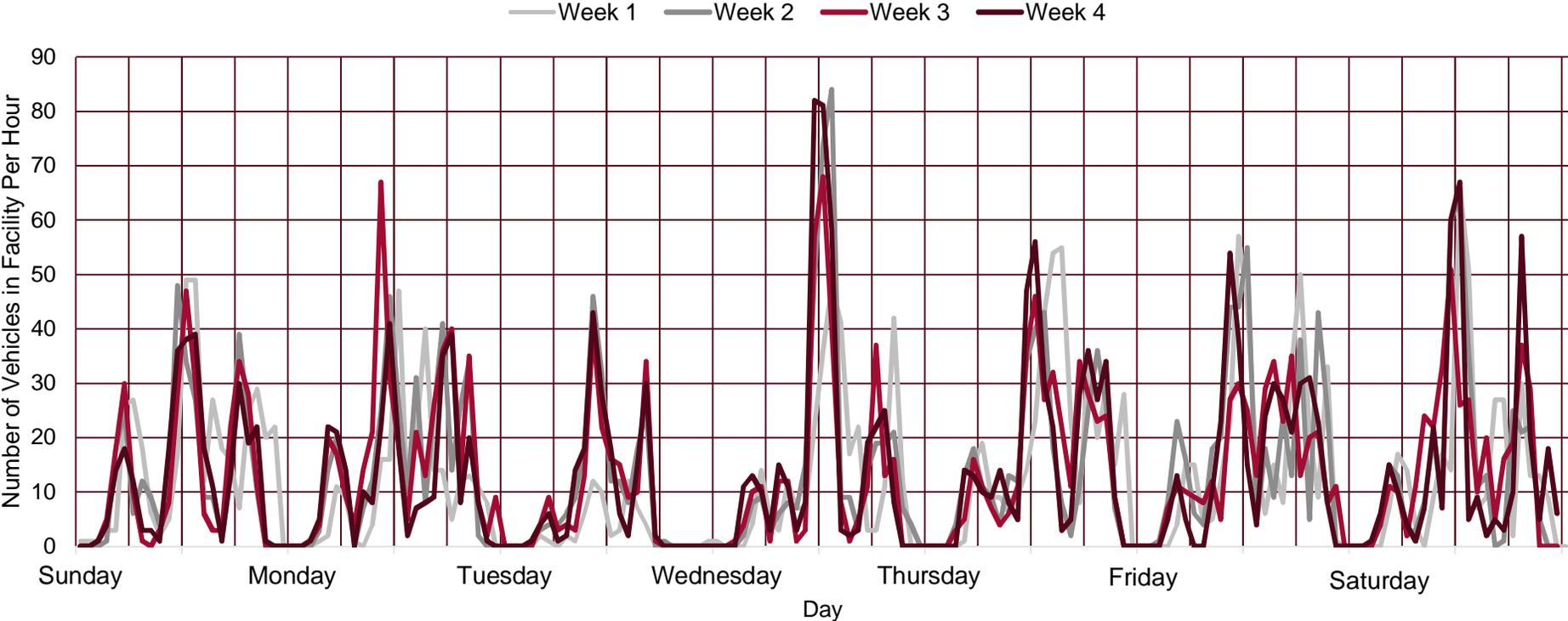


Figure 1.4 - Short-Duration vs Long-Duration Activity (Typical Week October 2017)

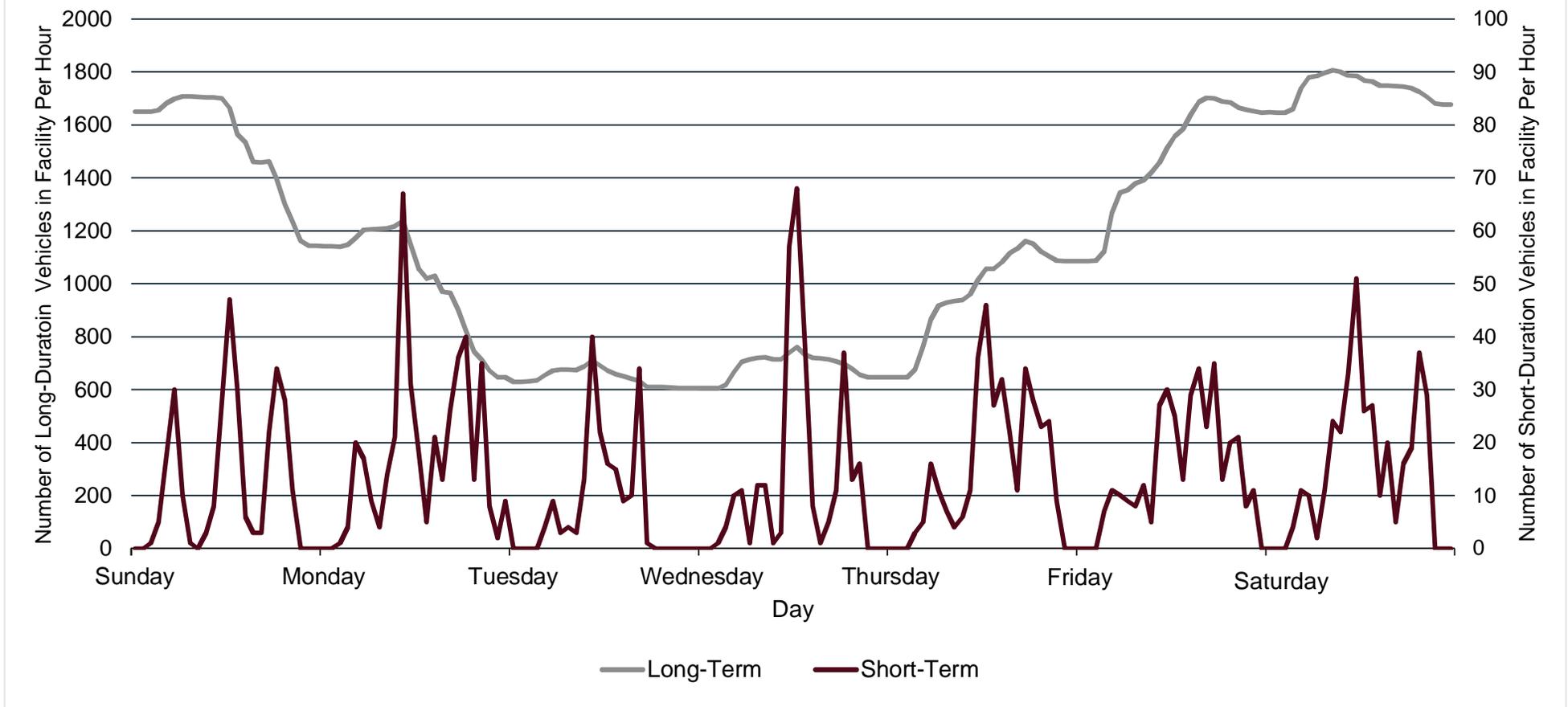
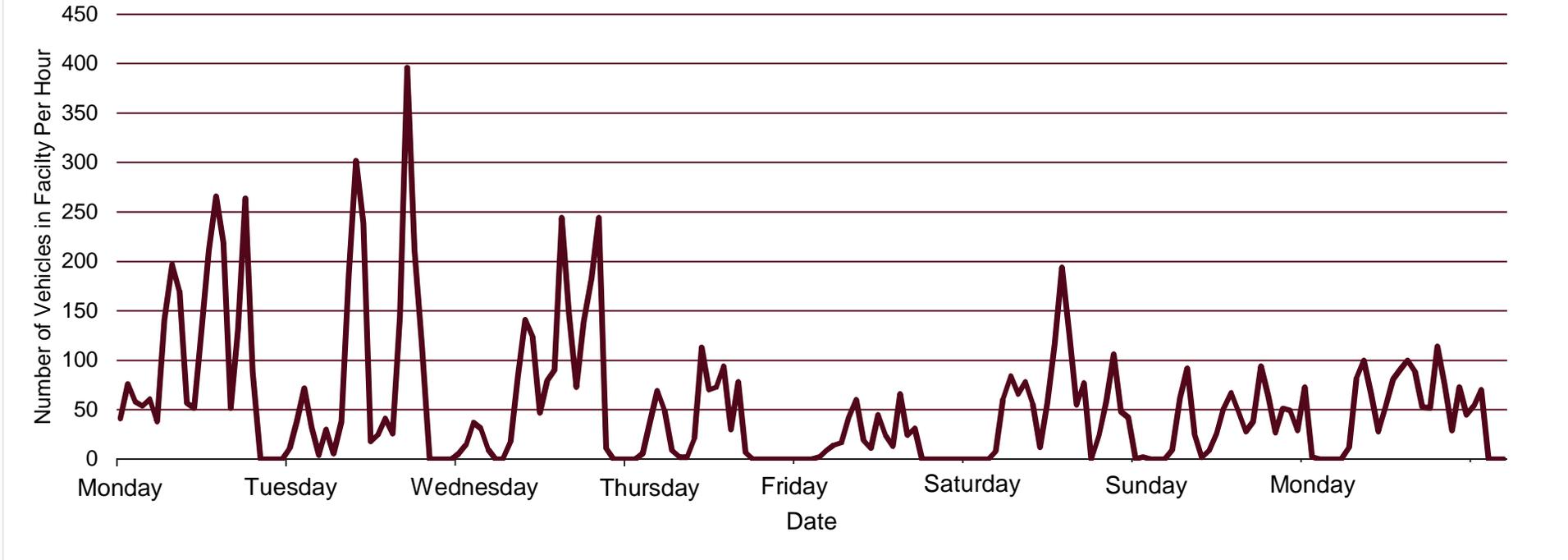
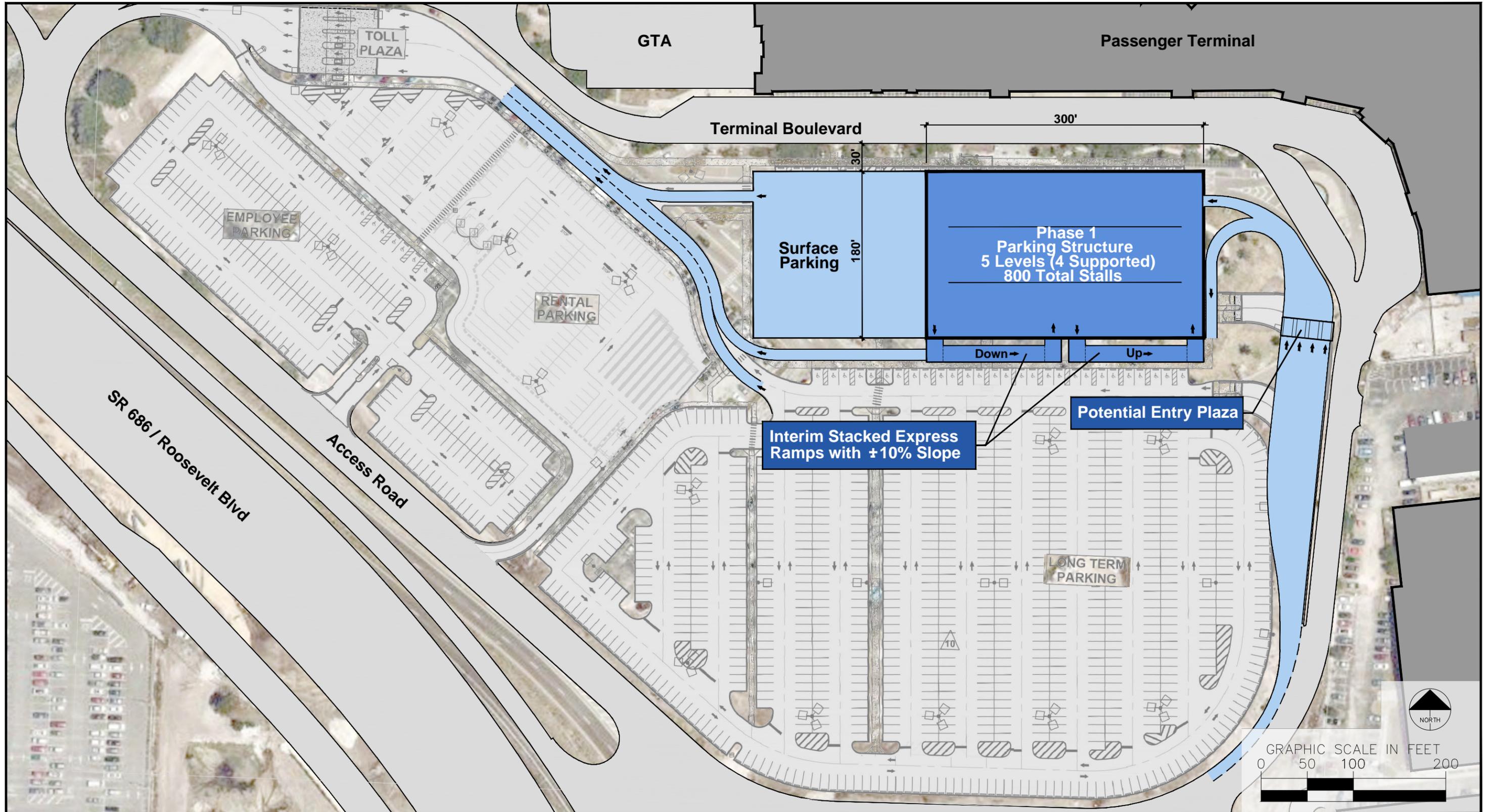


Figure 1.5 - Short-Duration Parking Activity: Thanksgiving 2017



Appendix 2

Concept Graphics



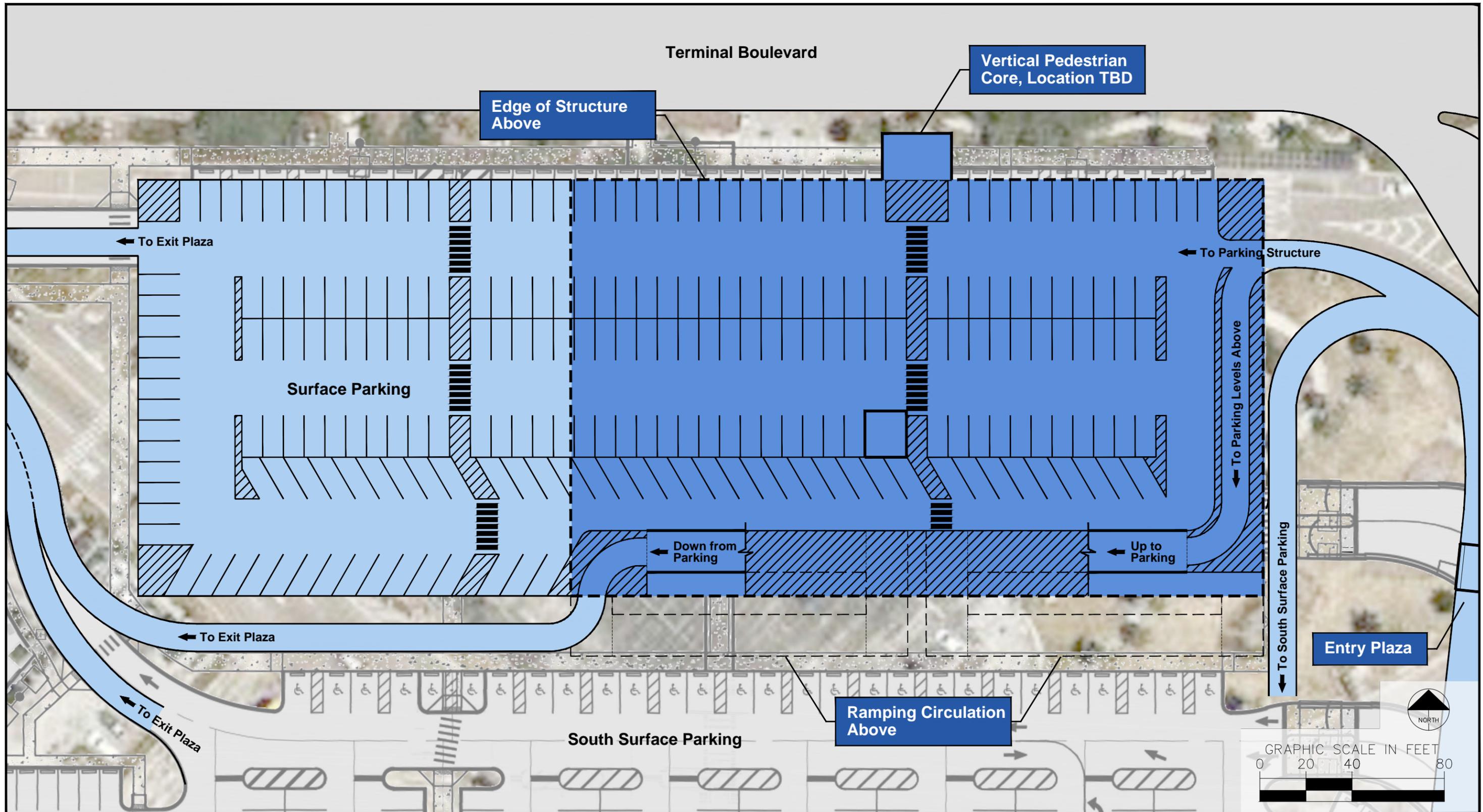
Kimley»Horn

Parking Structure Study

**Concept 1
Phase 1**

Figure:
1

St. Petersburg-Clearwater International Airport

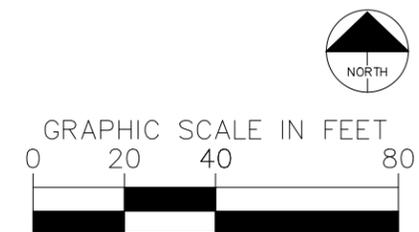
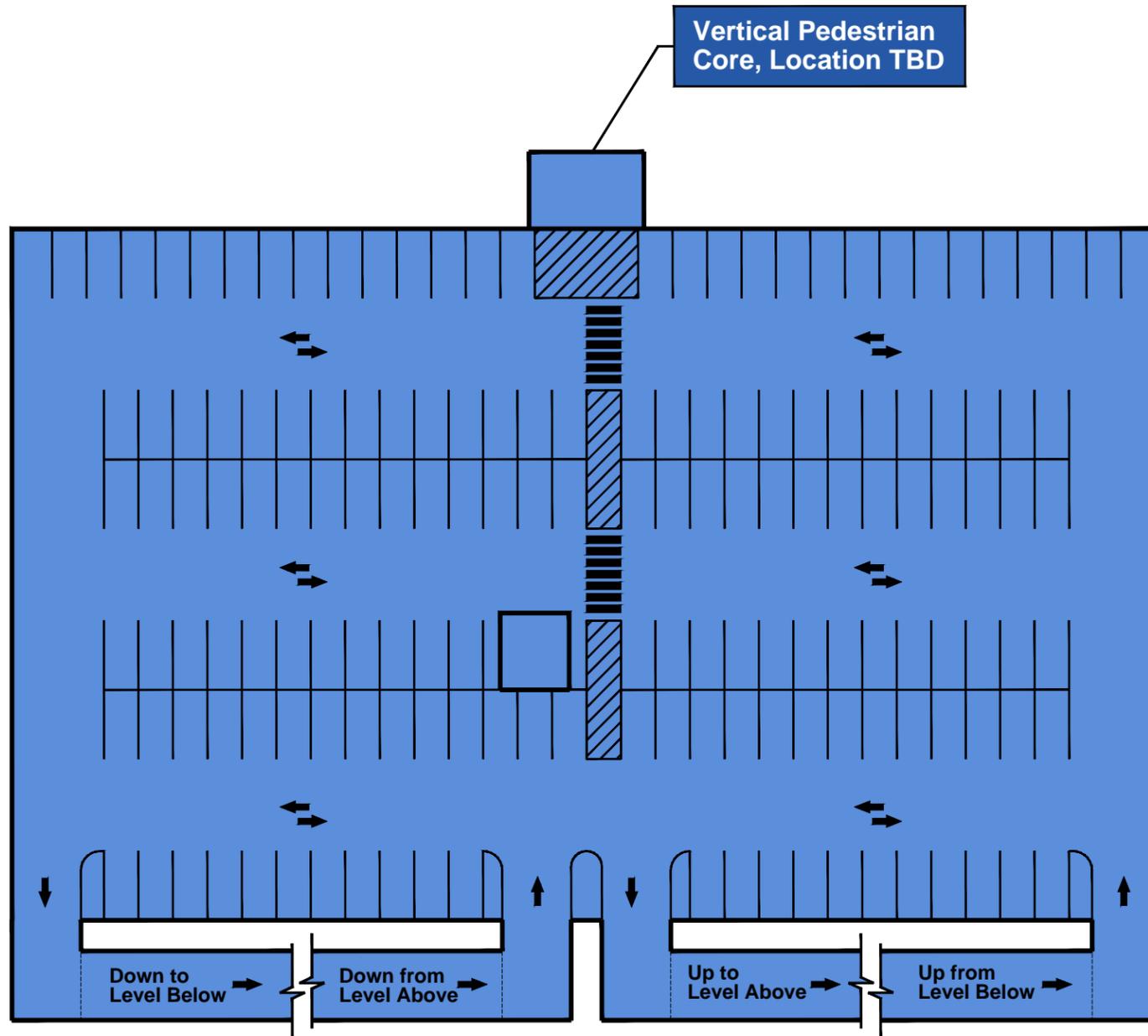


Kimley»Horn

Parking Structure Study - Grade Level

**Concept 1
Phase 1**

**Figure:
2**

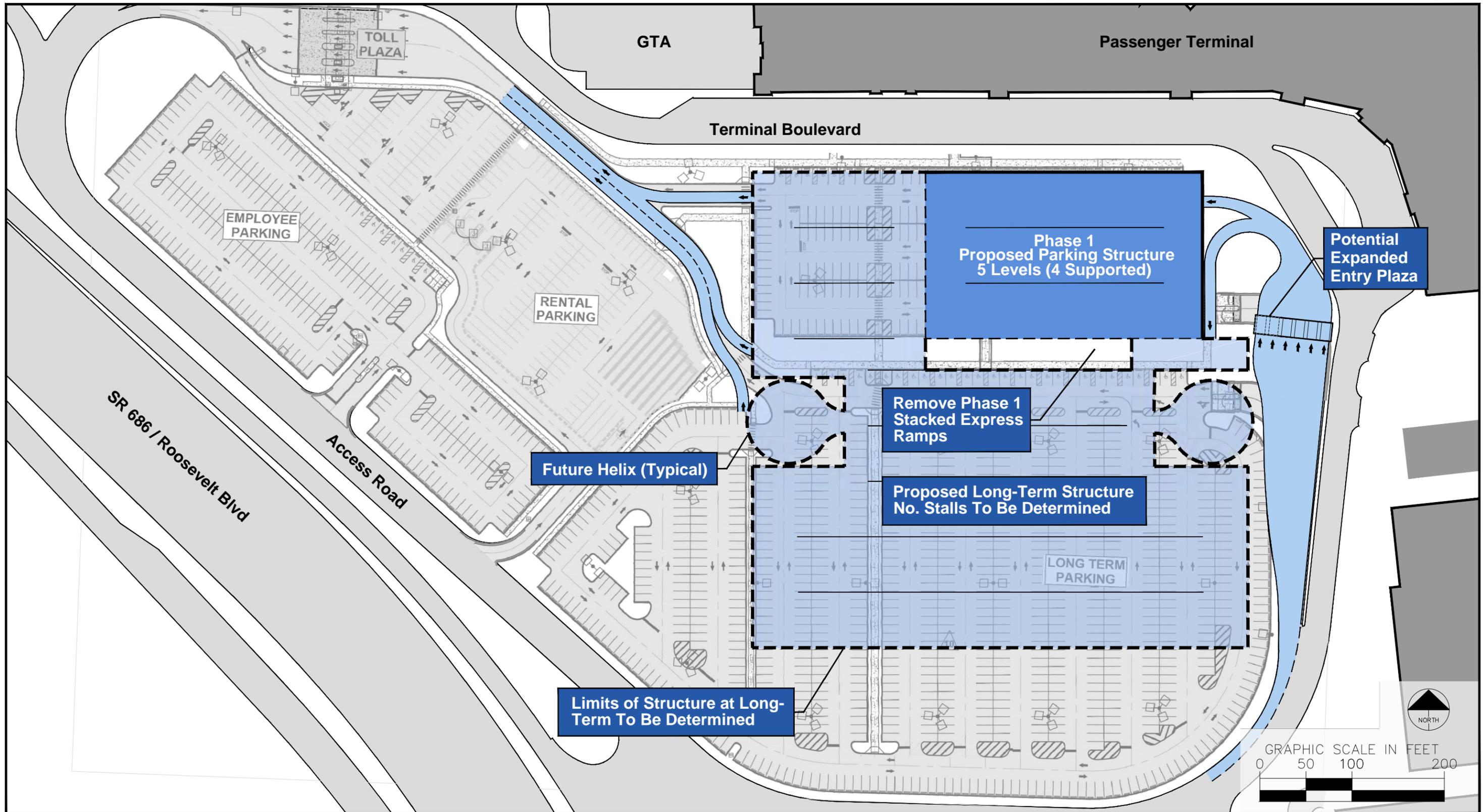


Kimley»Horn

Parking Structure Study - Typical Structured Level

**Concept 1
Phase 1**

**Figure:
3**

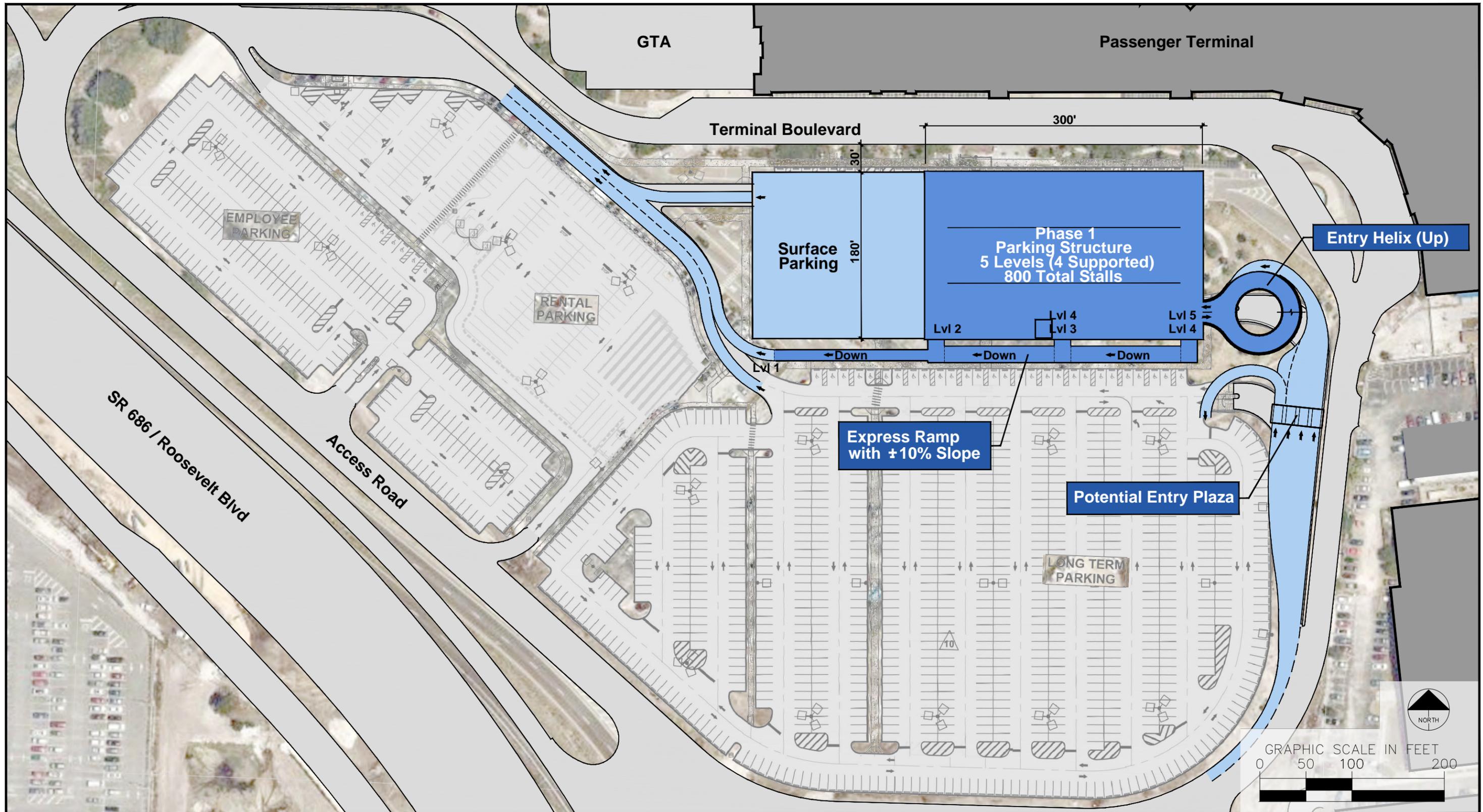


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Parking Structure Study

**Concept 1
Long-Term**

Figure:
4

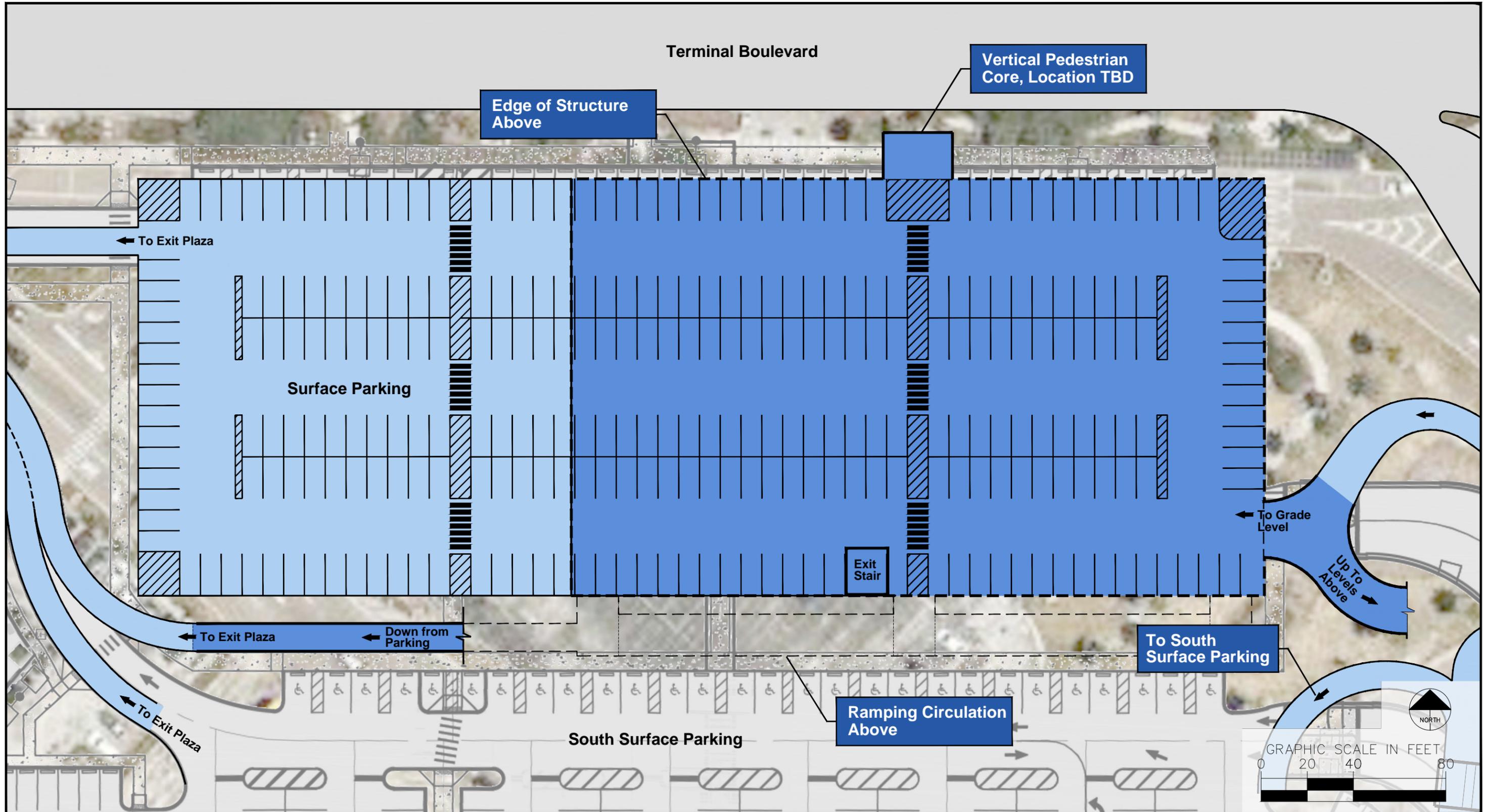


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Parking Structure Study

**Concept 2
Phase 1**

**Figure:
5**

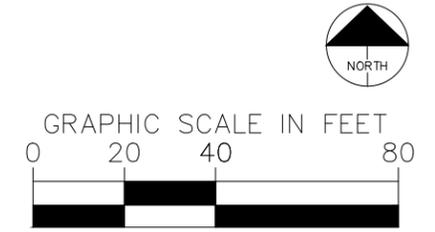
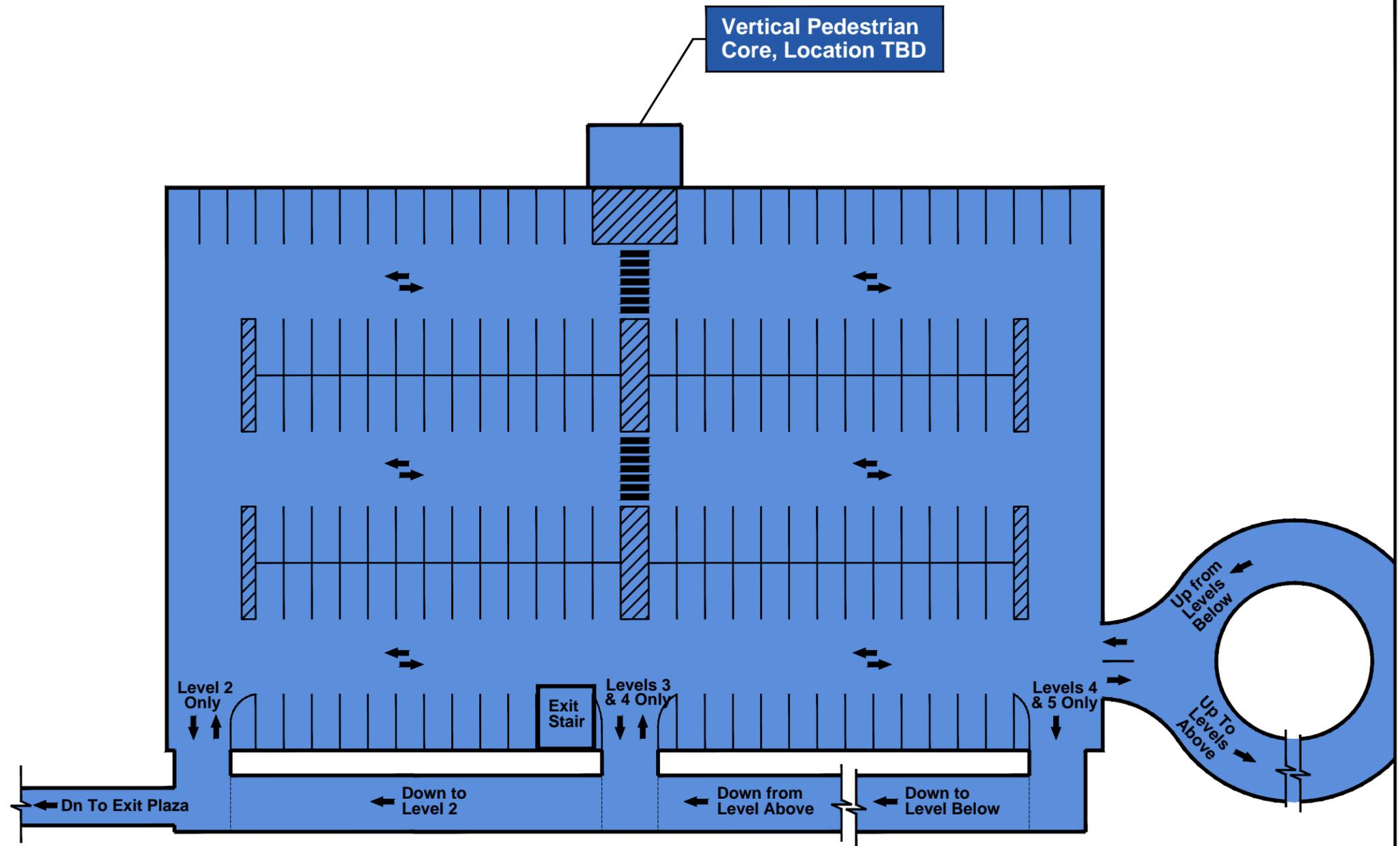


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Parking Structure Study - Grade Level

**Concept 2
Phase 1**

**Figure:
6**

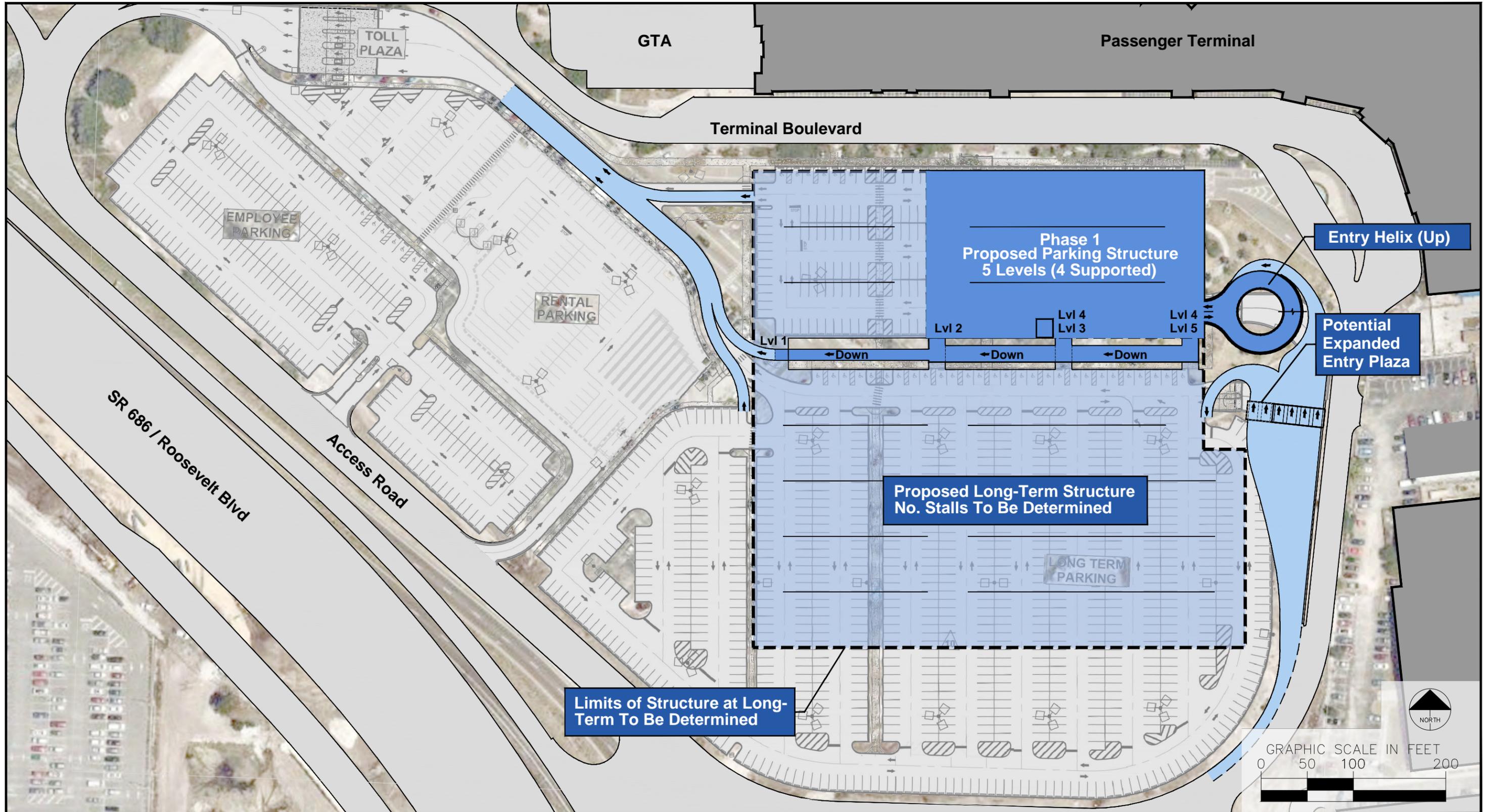


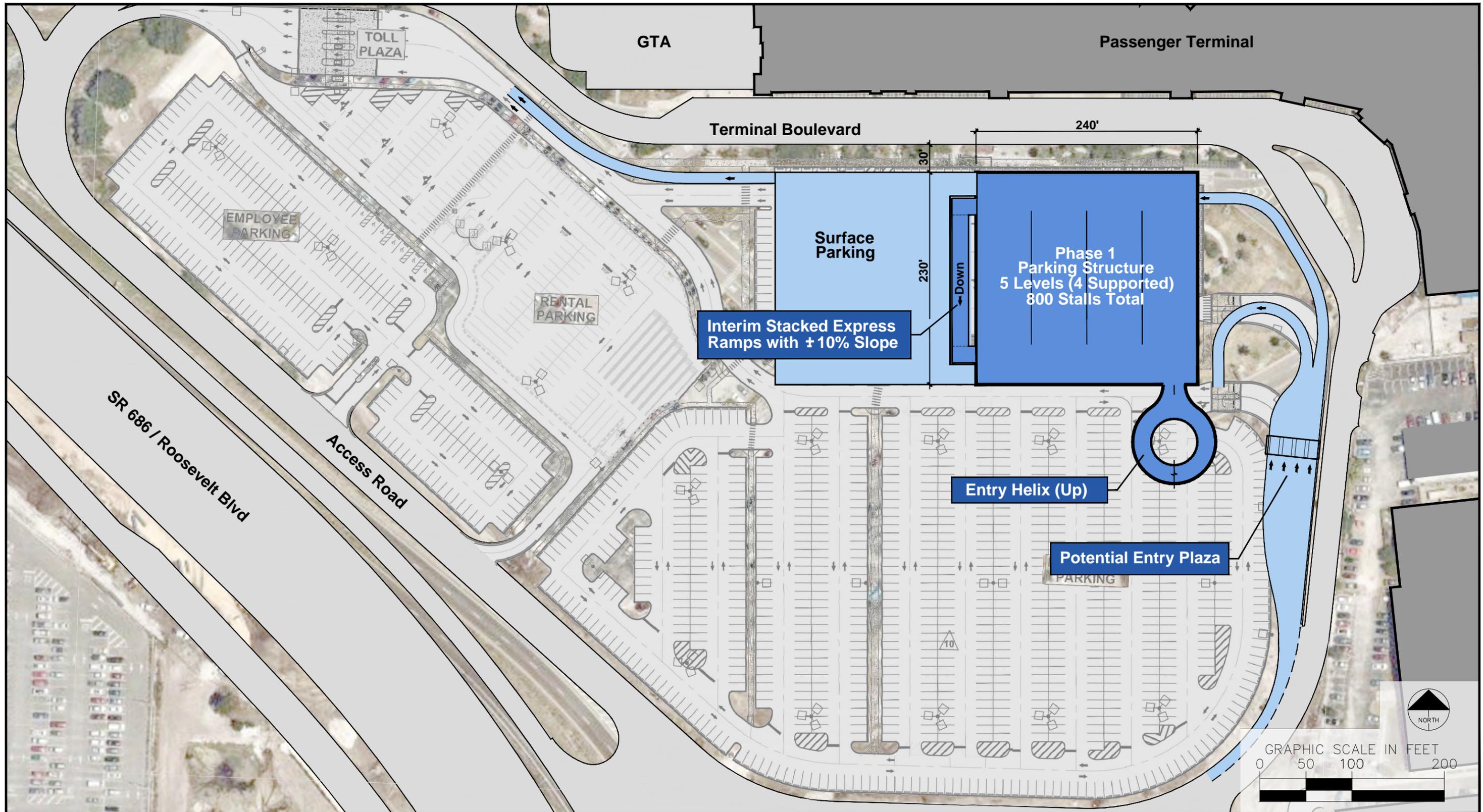
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Parking Structure Study - Typical Structured Level

**Concept 2
Phase 1**

**Figure:
7**





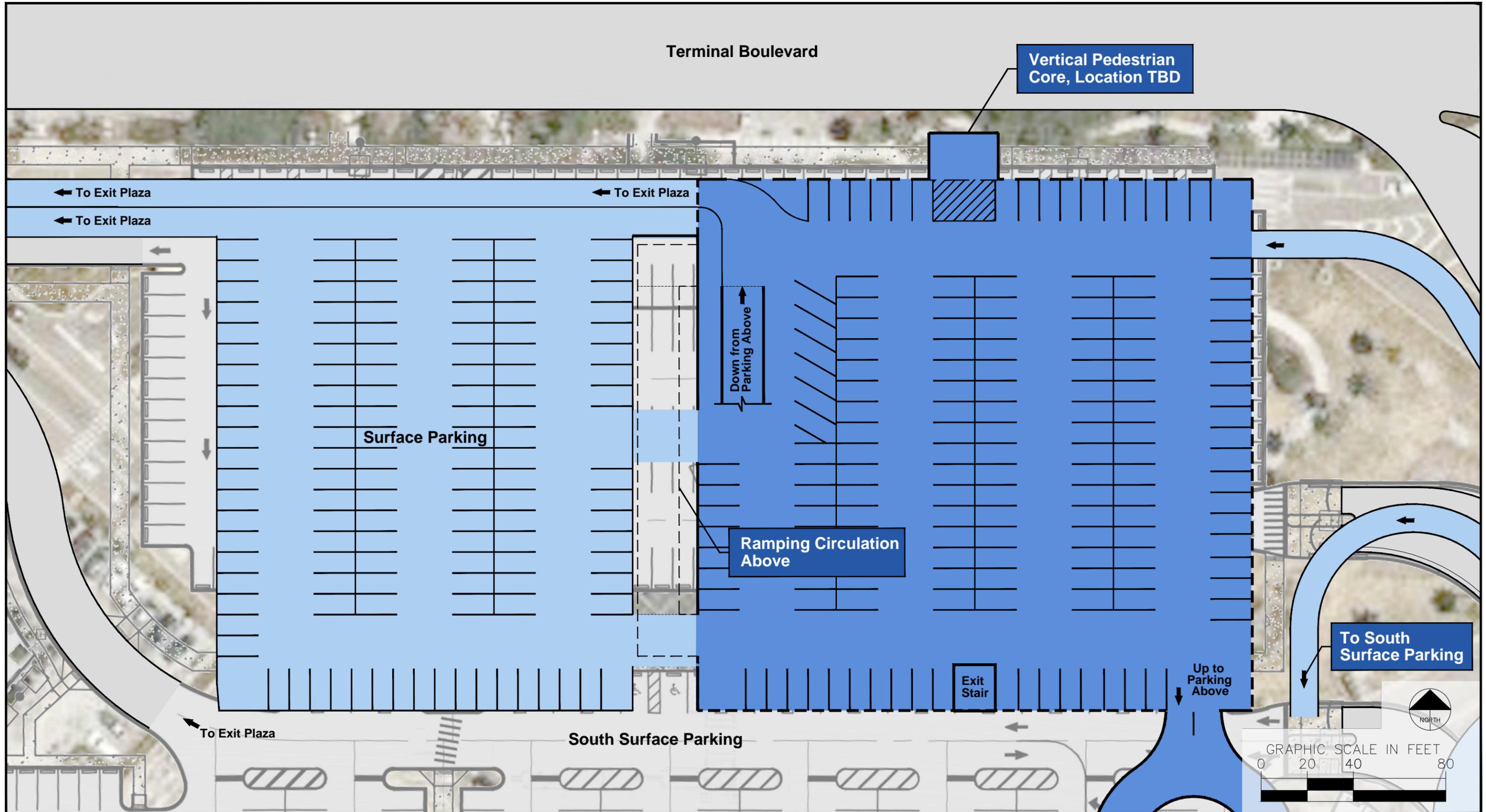
Kimley»Horn

Parking Structure Study

**Concept 3
Phase 1**

**Figure:
9**

St. Petersburg-Clearwater International Airport

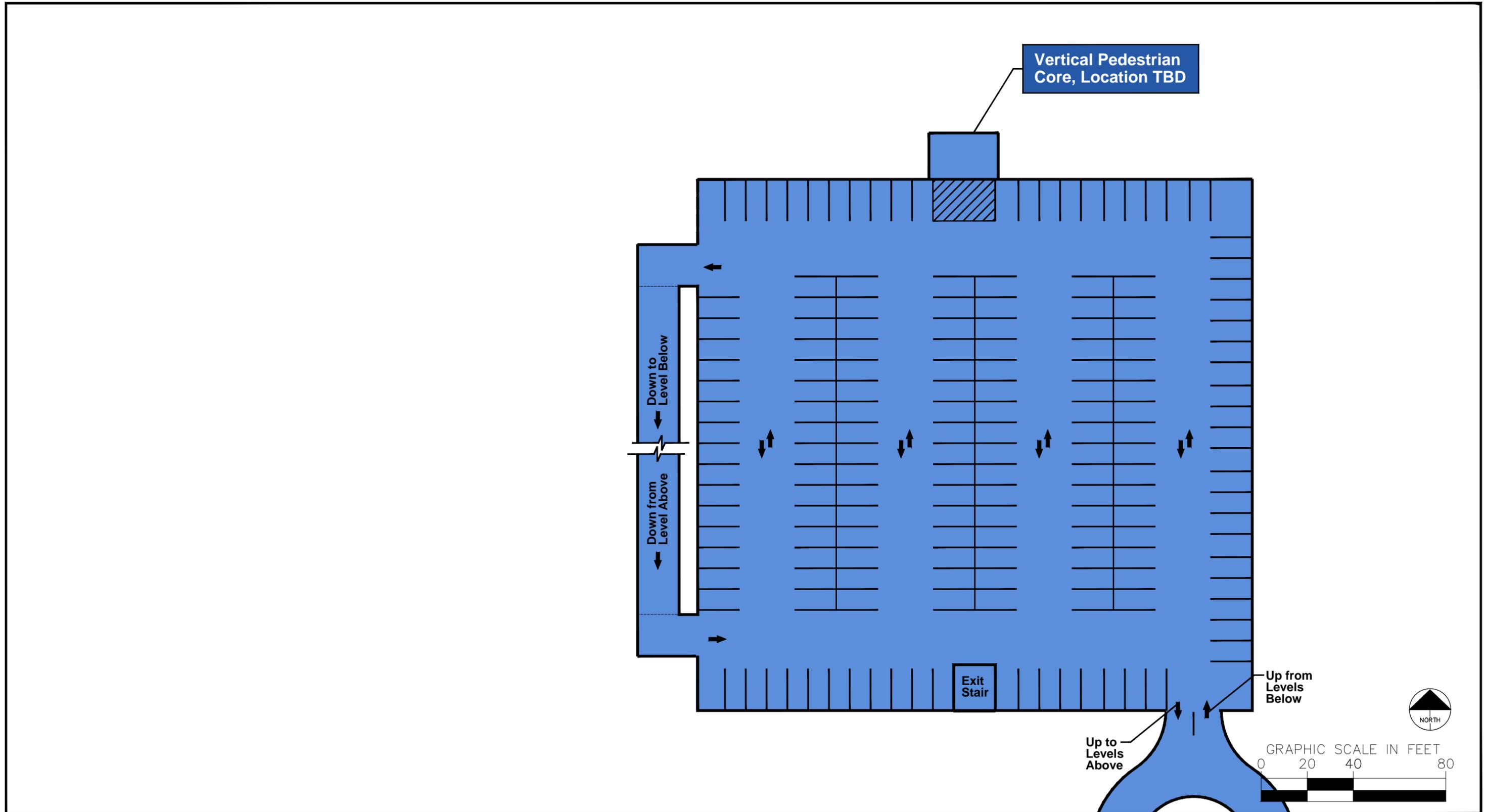


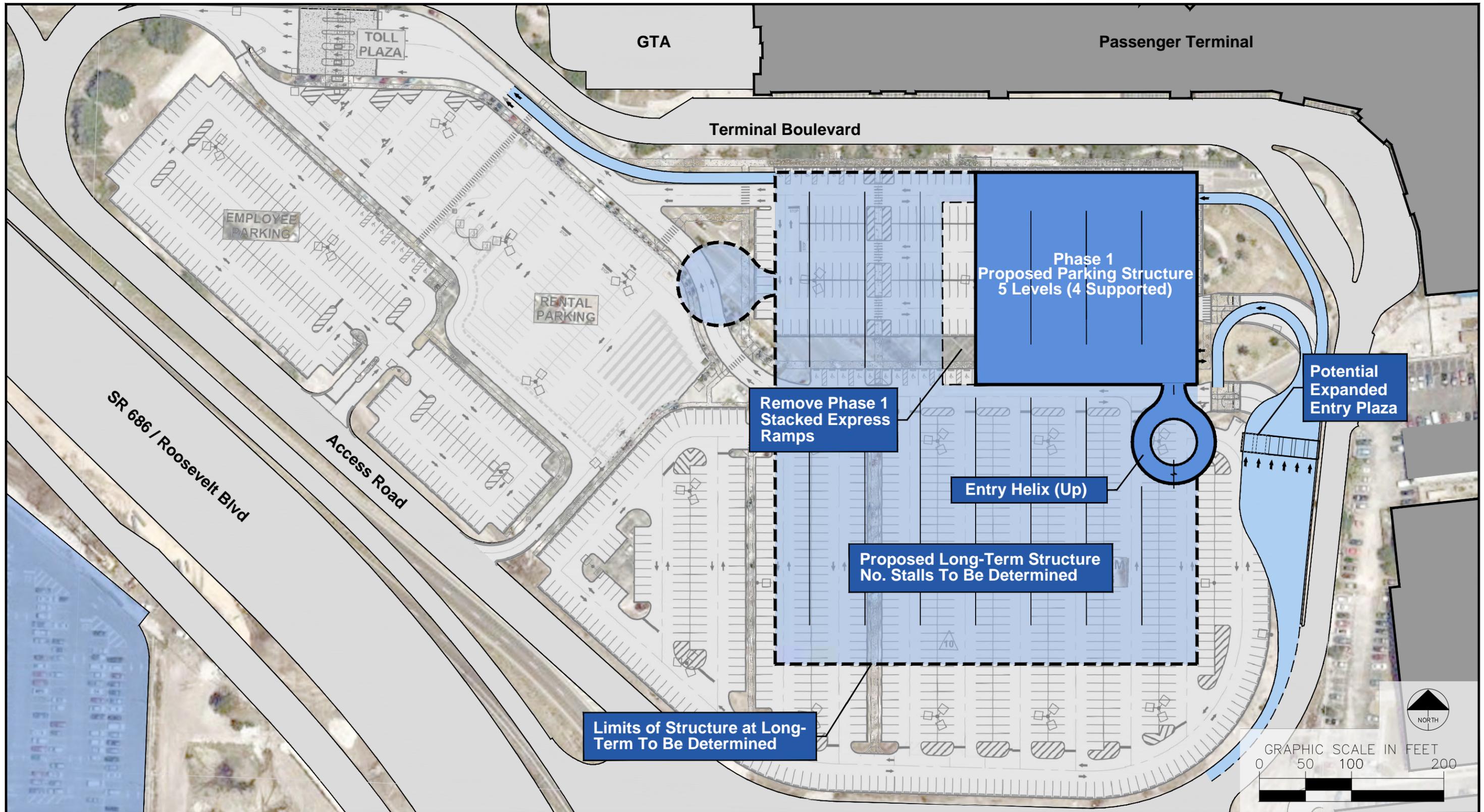
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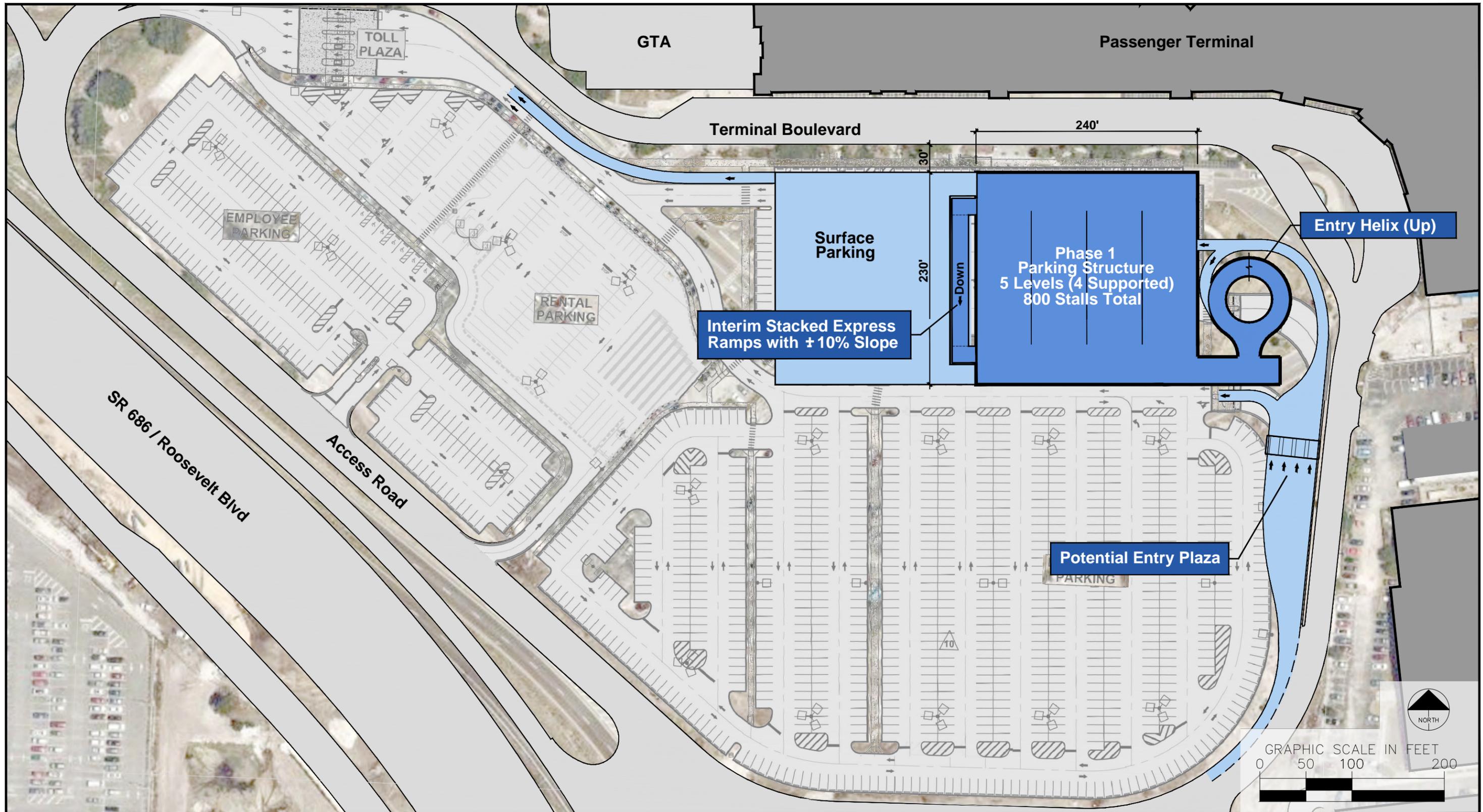
Parking Structure Study - Grade Level

**Concept 3
Phase 1**

**Figure:
10**







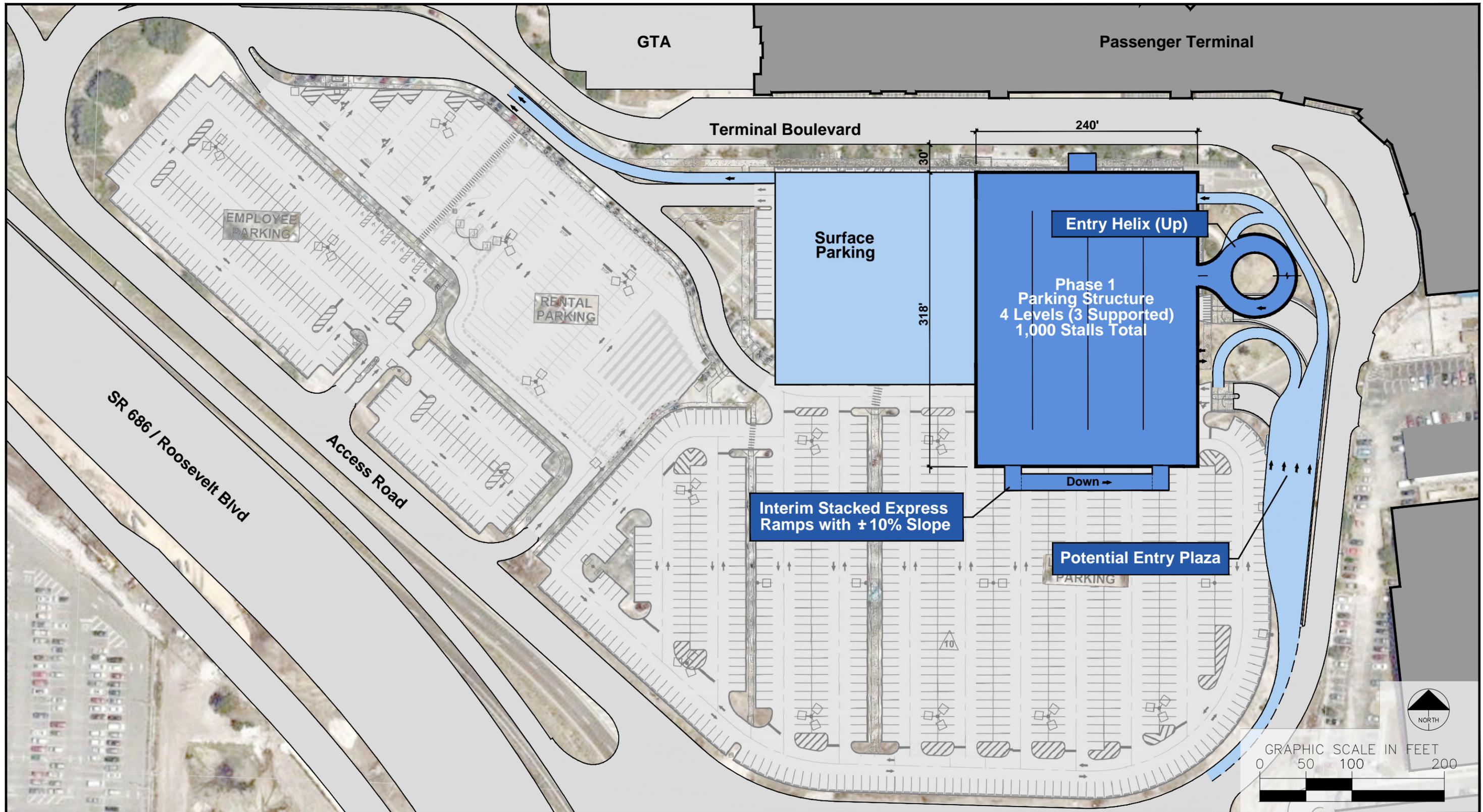
Kimley»Horn

Parking Structure Study

**Concept 4
Phase 1**

**Figure:
13**

St. Petersburg-Clearwater International Airport

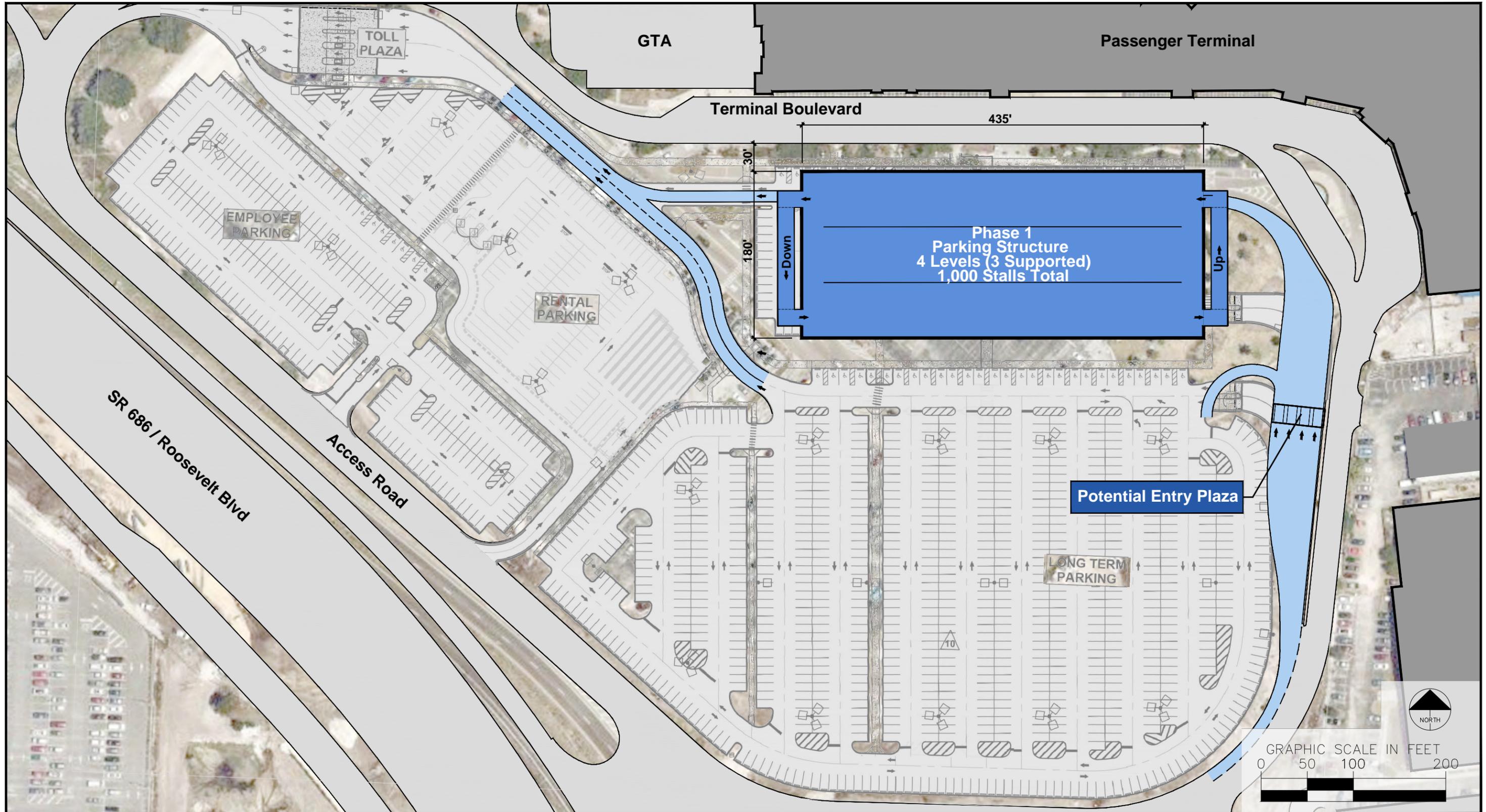


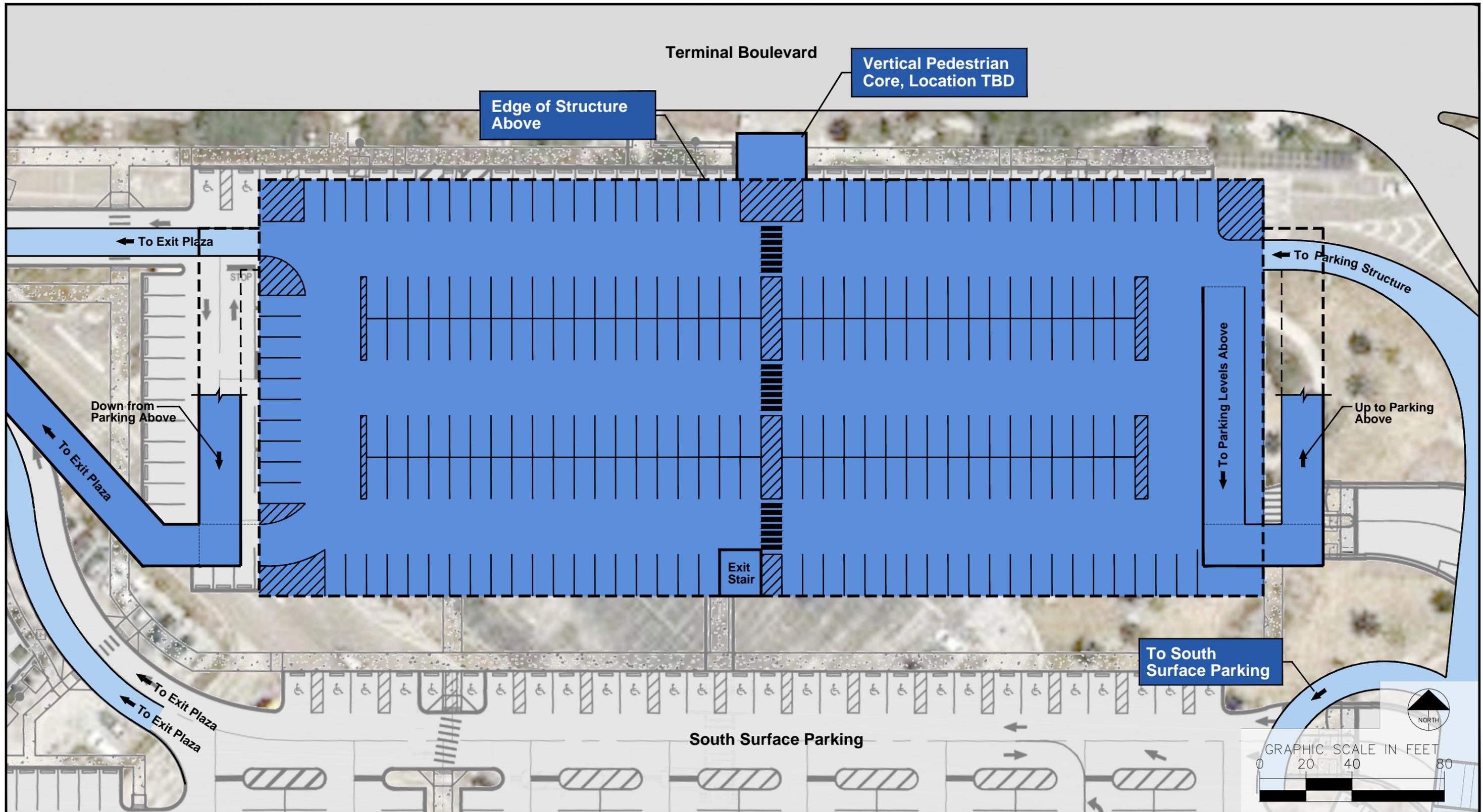
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Parking Structure Study

**Concept 3B
Phase 1**

**Figure:
14**



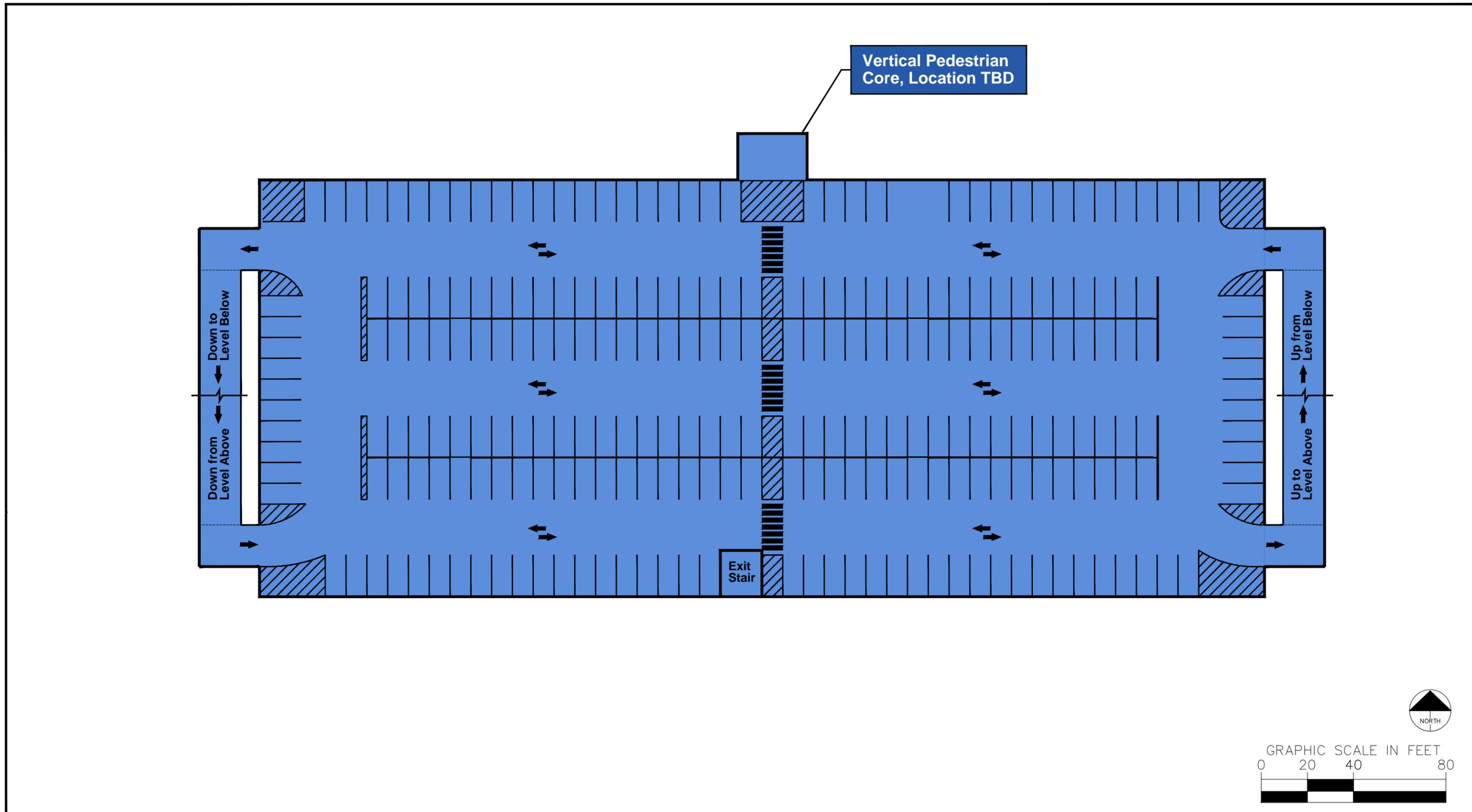


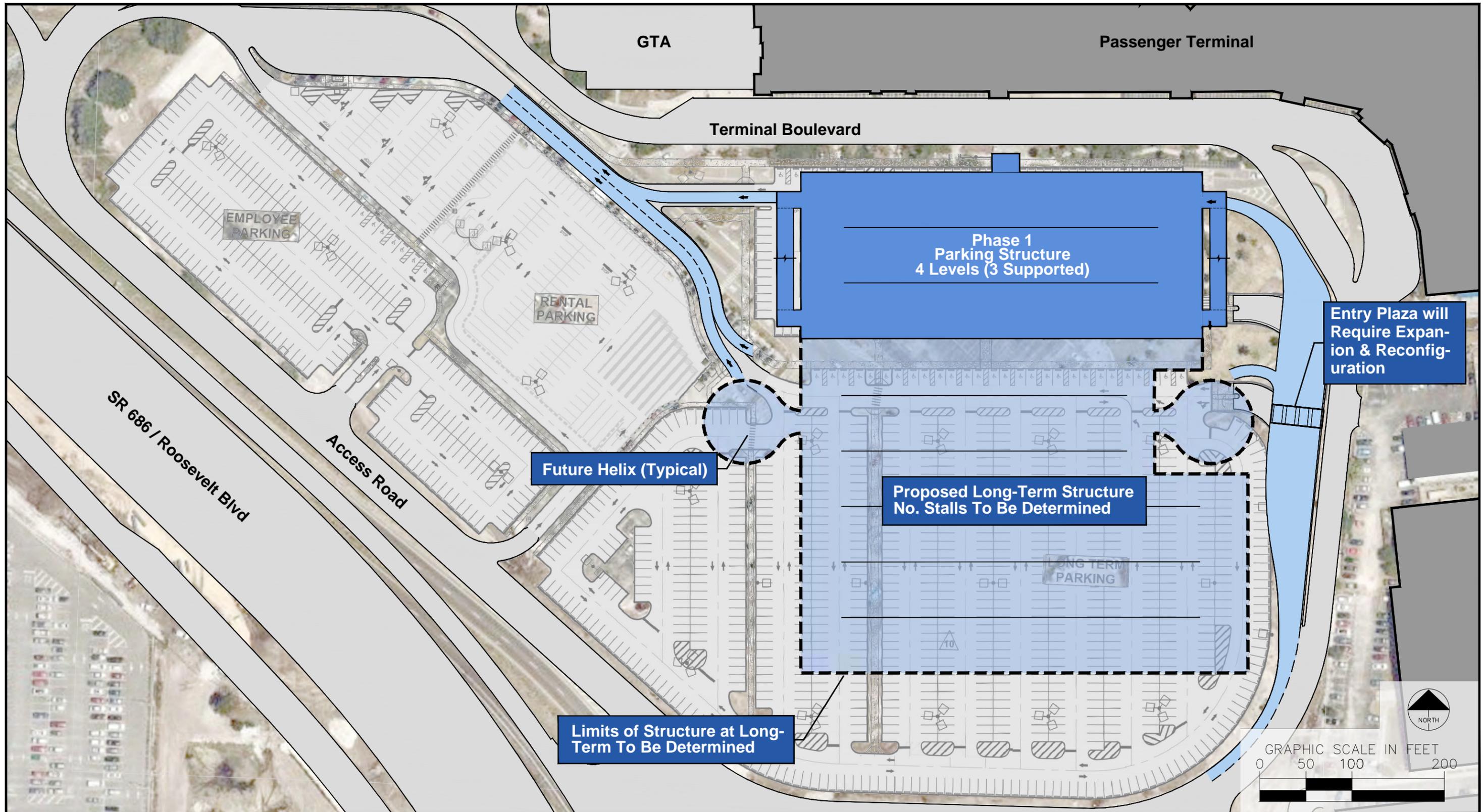
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Parking Structure Study - Grade Level

**Concept 1B
Phase 1**

**Figure:
16**





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Parking Structure Study

**Concept 1B
Long Term**

**Figure:
18**