

Town Council Meeting March 11, 2024 at 6:00 PM Howey-in the-Hills Town Hall 101 N. Palm Ave., Howey-in-the-Hills, FL 34737

Join Zoom Meeting: <u>https://us06web.zoom.us/j/81408878423?pwd=qK4cd5IfCT7e8AJliowm59GMVdbfF3.1</u> Meeting ID: 814 0887 8423 | Passcode: 667235

AGENDA

Call the Town Council Meeting to order Pledge of Allegiance to the Flag Invocation by Councilor Reneé Lannamañ

ROLL CALL

Acknowledgement of Quorum

AGENDA APPROVAL/REVIEW

CONSENT AGENDA

Routine items are placed on the Consent Agenda to expedite the meeting. If Town Council/Staff wish to discuss any item, the procedure is as follows: (1) Pull the item(s) from the Consent Agenda; (2) Vote on the remaining item(s); and (3) Discuss each pulled item and vote.

- **1.** The approval of the minutes and ratification and confirmation of all Town Council actions at the February 12, 2024 Town Council Meeting.
- 2. Consideration and Approval: Notice of Denial (Asma Project)

PUBLIC HEARING

3. Discussion: (second reading) Ordinance 2024-001 Mission Rise PUD Rezoning

AN ORDINANCE OF THE TOWN OF HOWEY-IN-THE-HILLS, FLORIDA, PERTAINING TO LAND USE; REZONING FOUR PARCELS OF LAND LOCATED GENERALLY IN THE SOUTHWEST PART OF THE TOWN AND COMPRISING THE PROPOSED PLANNED UNIT DEVELOPMENT TO BE KNOWN AS "MISSION RISE" ON AN L-SHAPED AGGREGATE OF ABOUT 243.3 ACRES WEST AND SOUTH OF THE DEVELOPMENT KNOWN AS "THE RESERVE AT HOWEY-IN-THE-HILLS" (NOW ALSO KNOWN AS "HILLSIDE GROVES"), WITH PART OF THE LANDS BEING SOUTH OF NUMBER TWO ROAD AND EAST OF SILVERWOOD LANE AND OTHER PARTS OF THE LAND BEING WEST OF STATE ROAD 19 AND SOUTH OF REVELS ROAD, THE FOUR PARCELS BEING IDENTIFIED WITH LAKE COUNTY PROPERTY APPRAISER ALTERNATE KEY NUMBERS 1780616, 1780811, 1030421, AND 3835991; AMENDING THE TOWN'S ZONING MAP TO APPROVE PLANNED-UNIT-DEVELOPMENT (PUD) ZONING FOR THE PARCELS; PROVIDING FINDINGS OF THE TOWN COUNCIL; APPROVING PUD ZONING FOR THE PARCELS, WITH DEVELOPMENT TO BE GOVERNED BY A DEVELOPMENT AGREEMENT AND A REVISED CONCEPTUAL LAND USE PLAN AND BY THE TOWN'S LAND DEVELOPMENT CODE AND OTHER TOWN ORDINANCES GOVERNING THE DEVELOPMENT OF LAND; REPEALING PRIOR ORDINANCES AND SUPERSEDING CONFLICTING ORDINANCES; PROVIDING FOR SEVERABILITY, CODIFICATION AND AN EFFECTIVE DATE.

- Mayor MacFarlane will read the Ordinance title
- Town Planner will explain Ordinance 2024-001
- Mayor MacFarlane will open Public Comment for this item only.
- Mayor MacFarlane will close Public Comment.
- Council Discussion
- 4. Consideration and Recommendation: Lake Hills Shopping Center Variances
- 5. Consideration and Recommendation: Lake Hills Shopping Center Preliminary Site Plan

OLD BUSINESS

NEW BUSINESS

- 6. Consideration and Approval: Cedar Creek Water Agreement
- 7. Consideration and Approval: (First Reading) **Ordinance 2024-004 Fireworks Regulations**

AN ORDINANCE OF THE TOWN OF HOWEY-IN-THE-HILLS, FLORIDA, PERTAINING TO FIREWORKS; CREATING CHAPTER 93 OF THE TOWN'S CODE OF ORDINANCES, ENTITLED "FIREWORKS"; DECLARING FINDINGS OF THE TOWN COUNCIL; PROVIDING DEFINITIONS; SPECIFYING UNLAWFUL ACTS AND MEANS OF ENFORCEMENT; SPECIFYING THE CONDITIONS AND REQUIREMENTS UNDER WHICH THE TOWN MAY GRANT A PERMIT FOR A PUBLIC DISPLAY OF FIREWORKS; PROVIDING FOR SEVERABILITY, CONFLICTS AMONG ORDINANCES, CODIFICATION, AND AN EFFECTIVE DATE.

- Mayor MacFarlane will read the Ordinance title
- Town Administrator will explain Ordinance 2024-004
- Mayor MacFarlane will open Public Comment and Questions for this item only.
- Mayor MacFarlane will close Public Comment.
- Motion to approve Ordinance 2024-004
- Council Discussion
- Roll Call Vote
- 8. Consideration and Approval: Scheduling the Second May 2024 Town Council Meeting

DEPARTMENT REPORTS

- 9. Town Hall
- **10.** Police Department
- 11. Code Enforcement
- **12.** Public Works
- 13. Library

- 14. Parks & Recreation Advisory Board / Special Events
- 15. Town Attorney
- **16.** Finance Supervisor
- 17. Town Manager

COUNCIL MEMBER REPORTS

- 18. Mayor Pro Tem Gallelli
- 19. Councilor Lehning
- 20. Councilor Miles
- 21. Councilor Lannamañ
- 22. Mayor MacFarlane

PUBLIC COMMENTS

Any person wishing to address the Mayor and Town Council and who is not on the agenda is asked to speak their name and address. Three (3) minutes is allocated per speaker.

ADJOURNMENT

To Comply with Title II of the Americans with Disabilities Act (ADA):

Qualified individuals may get assistance through the Florida Relay Service by dialing 7-1-1. Florida Relay is a service provided to residents in the State of Florida who are Deaf, Hard of Hearing, Deaf/Blind, or Speech Disabled that connects them to standard (voice) telephone users. They utilize a wide array of technologies, such as Text Telephone (TTYs) and ASCII, Voice Carry-Over (VCO), Speech to Speech (STS), Relay Conference Captioning (RCC), CapTel, Voice, Hearing Carry-Over (HCO), Video Assisted Speech to Speech (VA-STS) and Enhanced Speech to Speech.

Howey Town Hall is inviting you to a scheduled Zoom meeting. Topic: Town Council Meeting Time: Mar 11, 2024 06:00 PM Eastern Time (US and Canada) Join Zoom Meeting https://us06web.zoom.us/j/81408878423?pwd=qK4cd5IfCT7e8AJliowm59GMVdbfF3.1 Meeting ID: 814 0887 8423 Passcode: 667235 Dial by your location +1 646 558 8656 US (New York) +1 346 248 7799 US (Houston) Meeting ID: 814 0887 8423 Passcode: 667235 Find your local number: https://us06web.zoom.us/u/kos9VB06H

Please Note: In accordance with F.S. 286.0105: Any person who desires to appeal any decision or recommendation at this meeting will need a record of the proceedings, and that for such purposes may need to ensure that a verbatim record of the proceedings is made, which includes the testimony and evidence upon which the appeal is based. The

Town of Howey-in-the-Hills does not prepare or provide this verbatim record. Note: In accordance with the F.S. 286.26: Persons with disabilities needing assistance to participate in any of these proceedings should contact Town Hall, 101 N. Palm Avenue, Howey-in-the-Hills, FL 34737, (352) 324-2290 at least 48 business hours in advance of the meeting.



Town Council Meeting February 12, 2024 at 6:00 PM Howey-in the-Hills Town Hall 101 N. Palm Ave., Howey-in-the-Hills, FL 34737

MINUTES

Mayor MacFarlane called the Town Council Meeting to order at 6:00 p.m. Mayor MacFarlane led the attendees in the Pledge of Allegiance to the Flag. Mayor MacFarlane asked for a moment of silence.

ROLL CALL

Acknowledgement of Quorum

Motion made by Mayor MacFarlane to allow Councilor Lannamañ to participate and vote remotely via Zoom; seconded by Mayor Pro Tem Gallelli. Motion approved unanimously by voice vote.

Voting

Yea: Councilor Miles, Councilor Lehning, Mayor Pro Tem Gallelli, Mayor MacFarlane Nay: None

MEMBERS PRESENT:

Councilor Reneé Lannamañ (via Zoom) | Councilor David Miles | Councilor George Lehning | Mayor Pro Tem Marie V. Gallelli | Mayor Martha MacFarlane

STAFF PRESENT:

Sean O'Keefe, Town Manager | Tom Harowski, Town Planner | Tom Wilkes, Town Attorney | John Brock, Town Clerk

AGENDA APPROVAL/REVIEW

Motion made by Councilor Miles to approve the meeting's agenda; seconded by Mayor Pro Tem Gallelli. Motion approved unanimously by voice vote.

Voting

Yea: Councilor Lannamañ, Councilor Miles, Councilor Lehning, Mayor Pro Tem Gallelli, Mayor MacFarlane Nay: None

CONSENT AGENDA

Routine items are placed on the Consent Agenda to expedite the meeting. If Town Council/Staff wish to discuss any item, the procedure is as follows: (1) Pull the item(s) from the Consent Agenda; (2) Vote on the remaining item(s); and (3) Discuss each pulled item and vote.

- 1. The approval of the minutes and ratification and confirmation of all Town Council actions at the January 22, 2024 Town Council Meeting.
- 2. The approval of the minutes and ratification and confirmation of all Town Council actions at the January 22, 2024 Town Council Workshop Meeting.

Motion made by Councilor Miles to table both Consent Agenda items to the next meeting; seconded by Mayor Pro Tem Gallelli. Motion approved unanimously by voice vote.

Voting

Yea: Councilor Lannamañ, Councilor Miles, Councilor Lehning, Mayor Pro Tem Gallelli, Mayor MacFarlane Nay: None

PUBLIC HEARING

3. Consideration and Approval: Variance Application - 120 E Holly St. - (Town Council sitting as the Board of Adjustment)

Mayor MacFarlane called a recess to the regular Town Council meeting.

Mayor MacFarlane convened the Board of Adjustment's meeting.

Mayor MacFarlane asked Town Planner, Tom Harowski, to introduce and explain this item. Mr. Harowski reviewed his staff report of this item and explained that, when the Planning and Zoning Board had considered this item, they recommended this variance.

Mayor MacFarlane asked the owners of the parcel to come up and speak on their own behalf. Brad Smith and Lisa Smith introduced themselves as the owners of the 120 E Holly St. parcel. Mr. Smith stated that the reason they were requesting this variance was that on the north side of the property was their septic drain field, the east side of the property fronted Lakeshore Dr., and the west side of the property was the only area to construct a pool.

Mayor MacFarlane opened Public Comment for this item only.

Janice McLain, 109 S. Lakeshore Dr. – Ms. McLain stated that she was the only neighbor next door to the property in question, Ms. McLain stated that she would like to see the Town Council approve this variance request.

Mayor MacFarlane closed Public Comment.

Motion made by Mayor Pro Tem Gallelli to approve this variance request; seconded by Mayor MacFarlane. Motion approved unanimously by roll-call vote.

Voting

Yea: Councilor Lannamañ, Councilor Miles, Councilor Lehning, Mayor Pro Tem Gallelli, Mayor MacFarlane **Nay:** None

Mayor MacFarlane adjourned the Board of Adjustment and reconvened the Town Council Meeting.

4. Consideration and Approval: (SECOND READING) Ordinance 2023-009 Comprehensive Plan FLU Amendment and Rezoning - ASMA Parcel Mayor MacFarlane read Ordinance 2023-009 out loud by title only:

AN ORDINANCE OF THE TOWN OF HOWEY-IN-THE-HILLS, FLORIDA, PERTAINING TO LAND USE; AMENDING THE FUTURE LAND USE ELEMENT OF THE TOWN'S COMPREHENSIVE PLAN TO CHANGE A FUTURE-LAND-USE DESIGNATION FROM "MEDIUM DENSITY RESIDENTIAL" TO "NEIGHBORHOOD COMMERCIAL," AND AMENDING THE TOWN'S ZONING MAP TO CHANGE ZONING FROM "MEDIUM DENSITY RESIDENTIAL-1" (MDR-1) TO "NEIGHBORHOOD COMMERCIAL," IN BOTH CASES FOR A 0.69-ACRE(+/-) PARCEL LOCATED ON THE NORTHEAST CORNER OF THE INTERSECTION OF STATE ROAD 19 (PALM AVENUE) AND CITRUS AVENUE AND LEGALLY DESCRIBED IN ATTACHMENT A TO THE ORDINANCE; PROVIDING FOR CONFLICTING ORDINANCES, SEVERABILITY, CODIFICATION, AND AN EFFECTIVE DATE.

Mayor MacFarlane asked Town Planner, Tom Harowski, to introduce and explain this item. Mr. Harowski reviewed his staff report that was included in the meeting's packet. Mr. Harowski stated that the current land use of the parcel was Medium Density Residential and, to allow a commercial use to the parcel, the Town would need to amend the Comprehensive Plan and assign a zoning designation that was consistent with that use.

Mr. Harowski stated that he had completed some analysis, and, under the current rules for the property, the parcel could not be subdivided into 2 parcels.

Mr. Harowski stated that the Planning and Zoning Board had made a recommendation to deny the proposed changes to the Comprehensive Plan and zoning requests. This recommendation of denial came with a unanimous vote from the Planning and Zoning Board.

Mayor MacFarlane asked representatives for the applicant to come forward, introduce themselves, and give their presentation to the Town Council.

Brent Spain, Attorney for the applicant, introduced the team of people in attendance representing the applicant. Mr. Spain introduced Nick Asma, one of the owners of the parcel. Mr. Spain conducted the presentation in support of the applicant's requests.

Councilor Miles stated that, if the ordinance is approved, he wanted the applicant to be required to connect to the sewer lines that were utilized by Mission Inn on Camino Real. Mr. Spain stated that he was citing Florida statutory requirements, and that the applicant should not be required to complete this sewer hookup under the current conditions. Mr. Spain stated that, if public sewer lines were run adjacent to the property, as required by state law, they would connect with the system.

Mr. Spain stated that the applicant would be happy to enter into a Development Agreement with the Town that laid out requirement for the commercial development of the parcel. Mr. Spain stated that he had brought and handed out a draft Development Agreement to the Town Council. Mr. Spain stated that the applicant would be willing to negotiate the specifics of the agreement with the Town Attorney.

Mayor MacFarlane opened Public Comment for this item only.

Alan Hayes, 111 Island Dr. – Mr. Hayes stated that he was a member of the Town's Planning and Zoning Board and wanted to let the Town Council know that the Board had unanimously recommended against approving this Ordinance. Mr. Hayes stated that many of the neighbors closest to the proposed project had attended the Planning and Zoning Board meeting and voiced unanimously that they were not in favor of this project. Mr. Hayes also wanted the Town Council to know he was personally against this proposal.

Larry Morris, 800 N Citrus Ave. – Mr. Morris stated that he was against this proposal and that he did not think that a septic system could handle the amount of sewage that this property would create. Mr. Morris stated that he thought that if the Town Council approved this proposal, his property value would drop \$100,000 and that he was willing to take this to court.

Paul Hoar, 503 E. Mission Ln. – Mr. Hoar stated that he thought approving these changes would act as a domino effect and that other unwanted changes would come in the future. Mr. Hoar urged that the Town Council reject this proposal.

Erick Bright, 590 Via Bella Ct. – Mr. Bright stated that he did not want to see any commercial development within the Town.

Tim Everline, 1012 N. Lakeshore Blvd. – Mr. Everline stated that he did not want to see a commercial building next to the Howey Mansion and urged the Town Council to vote this item down.

Ellen Yarckin, 800 N. Citrus Ave. – Ms. Yarckin stated that she wanted a letter written by Bradley Cowherd, the owner of the Howey Mansion, that had been submitted to the Town read out loud at this Town Council Meeting. Mayor MacFarlane stated that it would not be read out loud again, as it had been read out loud at a previous Town Council meeting.

Peter Tuite, 300 E Croton Way – Mr. Tuite urged the Town Council not to change the zoning for the parcel of land in question.

Ann Griffin, 215 E Laurel Ave. – Mrs. Griffin stated that she believed that neither Mr. Howey nor Mr. Griffin would have wanted this.

Mayor MacFarlane closed Public Comment.

Mr. Spain rebutted some of the claims from the Public. Mr. Spain stated that his client owned other parcels of land with the Town of Howey-in-the-Hills, including retail space off of SR 19 and Central Ave. Mr. Spain explained that the Asma family were property owners and business owners with the Town of Howey-in-the-Hills.

Mr. Spain explained how the applicant's traffic analysis was completed and that the traffic coming to the business would be coming in the opposite direction/time of when the neighborhood traffic was moving.

Mr. Spain explained that project would comply with Dark Sky standards for all lighting.

Mr. Spain stated that his applicant was not asking for any variances; in fact, the applicant stated that they would be willing to restrict usage of the commercial building through the use of a Development Agreement. Mr. Spain stated that his client was not asking for any conditional uses.

Councilor Lannamañ made a motion to approve Ordinance 2023-009; there was no second for this motion.

Councilor Miles stated that the applicant was requesting a land use change and a rezoning and that he thought those two items should be considered separately as one of those decisions was a legislative decision and one was a quasi-judicial decision. Councilor Miles stated that he thought the Town Council should take two separate votes on these issues.

Mayor MacFarlane stated that she was hearing from the public that that they did not feel this project was compatible with what the residents want to see in the Town.

Town Attorney, Tom Wilkes, stated that both decisions can be approved or denied together with the ordinance. Mr. Wilkes stated that if the Town Council chooses to vote separately, if the proposed Comprehensive Plan amendment failed, there would be no point in reviewing the zoning request.

Motion made by Councilor Miles to deny the Comprehensive Plan amendment portion of Ordinance 2023-009; seconded by Mayor MacFarlane.

Mr. Spain requested on behalf of the applicant that the Town Council give an up or down vote on the Ordinance as advertised and noticed.

The motion by Councilor Miles was approved unanimously by roll-call vote.

Voting

Yea: Councilor Lannamañ (originally voted Nay, then changed her vote during the roll-call procedure), Councilor Miles, Councilor Lehning, Mayor Pro Tem Gallelli, Mayor MacFarlane **Nay:** None

Motion made by Councilor Miles to deny Ordinance 2023-009; seconded by Mayor MacFarlane. Motion approved unanimously by roll-call vote.

Voting

Yea: Councilor Lannamañ, Councilor Miles, Councilor Lehning, Mayor Pro Tem Gallelli, Mayor MacFarlane **Nay:** None

Mayor MacFarlane stated that she thought that this project was a very good project, but what she is hearing from all of the Town's residents was that this project was not compatible with the feel and community of Howey. Mayor MacFarlane stated that the Town wanted commercial in the area that the Town had already zoned for commercial.

Councilor Miles asked for a 5-minute recess at 7:45 p.m.

OLD BUSINESS

None

NEW BUSINESS

5. Discussion: Land Development Code (LDC) Workshop Scheduling

Mayor MacFarlane brought the Town Council back from recess at 7:50 p.m.

There was a consensus from the Town Council to schedule this Town Council Workshop on February 21, 2024 from 2:00 p.m. to 4:00 p.m.

6. Discussion: Proposed Noise Ordinance (Fireworks)

Councilor Lehning stated wanted to discuss the professional fireworks that had been set off during a Howey Mansion event which occurred on Sunday, January 28, 2024 at 9:50 p.m.

Francis O'Keefe Wagler introduced herself as the manager of the Howey Mansion. Mrs. Wagler stated that she did not like fireworks and that fireworks were not set off on Howey Mansion property; they had

been set off during one of the Mansion's events on the abutting property. Mrs. Wagler stated that she had written a letter to notify people of the fireworks that would be set off and that she had disseminated this letter to some of the nearby properties. Mrs. Wagler stated that she had also noticed nearby homeowners' associations (HOA).

Councilor Lannamañ wanted to know what HOAs had been notified, Mrs. Wagler stated that the Mission Inn HOA had been notified.

Town Attorney, Tom Wilkes, stated that state law allowed for fireworks to be set off on the 4th of July, New Year's Eve, and New Year's Day.

Mayor MacFarlane opened Public Comment for this item only.

Kathy Coleman, 1004 N. Citrus Ave. – Mrs. Coleman stated that she loves the Howey Mansion, but the Town needs a noise ordinance to regulate the Howey Mansion. Mrs. Coleman stated that they were so close to the fireworks that smoke filled up their house for a good 30 minutes after the fireworks had gone off.

Faith Fairbrother, 107 E Croton Way – Ms. Fairbrother stated that the noise from the fireworks display was horrible. Ms. Fairbrother stated that not only did something need to be done to stop that from happening in the future, but that the noise from trucks driving on SR 19 also needed to be regulated.

Joshua Husman, 671 Avila Pl. – Mr. Huseman stated that he does not like fireworks but would not like to see any additional government regulations enacted.

Tim Everline, 1012 N. Lakeshore Blvd. – Mr. Everline reminded the Town Council about the noise from the rifle range on the other side of Little Lake Harris and that seaplanes taking off and landing in the lake also cause considerable amounts of noise.

Wayne Mathers, 1004 N. Tangerine Ave. – Mr. Mathers was not happy with the Howey Mansion and wanted to see the Howey Mansion do a better job of controlling their clients and their events. Mr. Mathers stated that the mansion might need better management.

Erick Bright, 590 Via Bella Ct. – Mr. Bright was not in favor of additional regulations, especially if they affected holidays.

DEPARTMENT REPORTS

7. Town Hall

This report was included in the meeting's packet.

8. Police Department

This report was included in the meeting's packet.

9. Code Enforcement

This report was included in the meeting's packet.

10. Public Works

This report was included in the meeting's packet.

11. Library

This report was included in the meeting's packet.

12. Parks & Recreation Advisory Board / Special Events

None

13. Town Attorney

None

14. Finance Supervisor

This report was included in the meeting's packet.

15. Town Manager

Town Manager, Sean O'Keefe, gave an update on the roundabout that Town Council had requested to be constructed on SR 19 in front the proposed Hillside Groves development. Mr. O'Keefe paraphrased a conversation he had with the Town Engineer, Don Griffey. Mr. O'Keefe stated that when Mr. Griffey had originally recommended the roundabout's construction, he thought that the additional cost to the construction and delays to the construction would be minimal, but that he was incorrect.

Mr. O'Keefe stated that Mr. Griffey now recommended to the Town Council that the Hillside Groves developers be allowed to construct their previously (FDOT) approved intersection at SR 19.

There was a consensus from the Town Council that the Town Manager need to go back to the Town Engineer and get the exact costs and time commitments that the Town Engineer was referencing before the Town Council would make any further decisions about the proposed intersection.

COUNCIL MEMBER REPORTS

16. Mayor Pro Tem Gallelli

Mayor Pro Tem Gallelli had nothing to report.

17. Councilor Lehning

Councilor Lehning stated that he wanted the Town Attorney to research if the Town Council can hold developers to the new proposed development standards that Town Council is currently creating by amending its Comprehensive Plan and Land Development Codes (while these codes are still being amended).

Councilor Lehning wanted the Town Manager to find the Historic Resource Management Plan that was referenced in some of the Howey Mansion paperwork that Mr. O'Keefe had provided him with.

18. Councilor Miles

Councilor Miles wanted to know if the Town had received money from the invoice that it had sent to builders of the Venezia Townhomes in reference to the builders having broken or clogged some sewer lines and lift stations. Councilor Miles stated that he wanted a text to him when the builder pays this invoice.

Councilor Miles stated that he would like to see wastewater expenses separately accounted for in the enterprise fund. Currently, repair and maintenance costs for wastewater were intermingling with the water expenses.

Councilor Miles stated that the town needs to quickly conduct a rate study for water and wastewater.

Councilor Miles stated that he, the Town Attorney, and the Town Manager have been meeting with the Central Lake CDD about wastewater matters. The Central Lake CDD has stated to them that they have over 400,000 gallons of unused capacity currently and that they may be willing to arrange a deal with the Town. Councilor Miles stated that he wanted to enter in discussions with the Central Lake CDD about short term solutions for the Town's wastewater needs. Councilor Miles wanted permission from the Town Council to enter into the discussion so that they could create a draft agreement for the Town Council to consider.

Mayor MacFarlane supported Councilor Miles' request and stated that she wanted the Town Council to be informed as to the status of these discussions in the future.

Councilor Lehning stated that he wanted to know the state of the Central Lake CDD's wastewater treatment plant, and that he wanted an independent review of the plant. Councilor Lehning stated that he wanted to see a price comparison; he also wanted to see what it would cost to buy wastewater capacity with the City of Groveland.

19. Councilor Lannamañ

Councilor Lannamañ stated that she would have a problem with the 2:00 p.m. start time of the February 21, 2024 Land Development Code amendment Town Council Workshop. It was decided that the start time for this meeting would change to 3:00 p.m. and the meeting would last until 5:00 p.m.

Councilor Lannamañ stated that she wanted the Town Council to be better kept in the loop when Councilor Miles and the Town Attorney were meeting with people and that she wanted the Town Council to be presented with alternatives to an agreement with the Central Lake CDD.

20. Mayor MacFarlane

Mayor MacFarlane stated that the Asma project was a very good project and keeping with the residential look and feel of the area. Mayor MacFarlane stated that having that parcel of land vacant was not a good alternative, as the Town really doesn't get any tax revenue from a vacant lot.

Mayor MacFarlane stated that the Town would need take a realistic look at what it was going to need to do with tax rates if the Town maintained very low, or slow growth, and with larger lots. Costs to the Town will just continue to rise in the future.

Mayor MacFarlane stated that there was a speeding problem on W. Lakeview Ave. between SR 19 and S. Florida Ave. and that the Town should look into creating a speed table on W. Lakeview Ave.

PUBLIC COMMENTS

Any person wishing to address the Mayor and Town Council and who is not on the agenda is asked to speak their name and address. Three (3) minutes is allocated per speaker.

Ann Griffin, 215 E Laurel Ave. – Mrs. Griffin was concerned about speeding cars on Lakeshore Blvd. and thanked the Mayor for rejecting the Asma project.

Beth Flack, 607 S Florida Ave. – Mrs. Flack was concerned about a building permit that she had submitted on February 2, 2024, and why it had not yet been approved.

Andi Everline, 1012 N Lakeshore Blvd. – Mrs. Everline spoke about programming at the library and stated that homeschoolers are taking advantage of the library. Mrs. Everline thinks that an expansion of the library would be premature.

Erick Bright, 590 Via Bella Ct. – Mr. Bright thanked the Town Council for voting against the Asma project. Mr. Bright spoke about the importance of infrastructure.

Tim Everline, 1012 N Lakeshore Blvd. – Mr. Everline handed the Town Councilors and reviewed passages from a handout, "Eben Fodor's The 12 Big Myths of Growth".

Francis O'Keefe Wagler, 409 W Central Ave. – Mrs. Wagler stated that she will try to make the Howey Mansion a better neighbor in the future.

ADJOURNMENT

There being no further business to discuss, a motion was made by Mayor Pro Tem Gallelli to adjourn the meeting; Councilor Lehning seconded the motion. Motion was approved unanimously by voice vote.

The Meeting adjourned at 9:06 p.m. | Attendees: 49

ATTEST:

Mayor Martha MacFarlane

John Brock, Town Clerk

Item 2.

Town of Howey-in-the-Hills, Florida

NOTICE OF DENIAL

Date of notice:	March 12, 2024	
Applicant:	Nick Asma	
Subject Property:	North Palm Avenue AltKey No. 3837468	
Request(s):	1. Change of future land use designation for the subject property from "Medium Density Residential" to "Neighborhood Commercial; and	
	2. Rezone subject property from Medium Density Residential-1 (MDR-1) to Neighborhood Commercial (NC)	
Date of hearing:	February 12, 2024	
Town Council action(s):	1. Denial of the request to designate the subject property for future land use of "Neighborhood Commercial" and	
	2. Denial of the request to rezone the subject property to Neighborhood Commercial.	
Findings and citations:	 property to Neighborhood Commercial. 1. Changing the future land use designation of the subject property to "Neighborhood Commercial" would result in an intrusion of incompatible and inconsistent nonresidential land use into an historic residential neighborhood. Granting the designation would be inconsistent with and would violate Policy 1.2.3 of the Future Land Use Element of the Town's Comprehensive Plan. The proposed nonresidential use would comply with the Comprehensive Plan if located in the designated commercial area along Central 	

Avenue, in compliance with Future Land Use Policy 1.4.10.

2. Rezoning the subject property to Neighborhood Commercial would be inconsistent with the future land use designation of "Medium Density Residential," in violation of sections 163.3194 and 163.3202 of Florida Statutes. Also, a commercial use of the subject property would increase risk to the safety of vehicular traffic due to the material limitations on sight distance for traffic exiting from Citrus Avenue on to Palm Avenue southbound.

Filed and delivered to the applicant this 12th day of March 2024.

John Brock, Town Clerk



TMHConsulting@cfl.rr.com 97 N. Saint Andrews Dr. Ormond Beach, FL 32174 PH: 386.316.8426

MEMORANDUM

TO:	Howey-in-the-Hills Town Council
CC:	J. Brock, Town Clerk
FROM:	Thomas Harowski, AICP, Planning Consultant
SUBJECT:	Mission Rise February 2024 Resubmittal
DATE:	March 6, 2024

Following the public hearing before the planning board and discussion of the project by Town Council at the first reading of the proposed development agreement on January 22, 2024, the Mission Rise applicants submitted a revised conceptual development plan and development agreement. This report addresses the changes proposed in the revised plan and development agreement as an update to the original staff report. The changes are summarized as follows:

- The revised plan increases the minimum lot widths for both types of proposed lots from 55 feet to 60 feet and from 75 feet to 80 feet minimum lot width. This change moves the project design in the direction of larger lots but still remains below the one-quarter acre minimum lot size that has been proposed in the pending LDC amendments.
- The total number of lots has been reduced from 499 to 438, a reduction of 61 lots. The reduction in the overall number of lots is about 12% for the project and brings the project density, based on net buildable land area, to 2.86 units per acre. This reduction achieves the Town's stated goal of maximizing single-family development below three units per acre.
- The project phasing is revised based on the reduced number of total units, but the distribution beween the smaller and larger lots remains about the same.

Original Proposed Development Phasing			
Phase	Total		
Phase 1	150	41	191
Phase 2	100	13	113
Phase 3	166	29	195
Total	416	83	499

New Proposed Development Phasing			
Phase	60-foot lots	80-foot lots	Total
Phase 1	122	40	162
Phase 2	85	8	93
Phase 3	155	28	183
Total	362	76	438

- Side yard setbacks have been increased to 10-feet which means that the actual space between adjacent units is 20 feet. This change again moves the proposed project in the direction the Town Council has expressed of having more space between adjacent units.
- The phasing plan follows the original submittal requiring building permits be issued in one phase before a subsequent phase can be initiated. As noted in the original staff report, the extension of the central collector from SR-19 to Number Two Road will be done by phase with the eventual connection to Number Two Road resulting in the upgrade of Number Two Road to Lake County standards for the length of the project frontage.
- The applicants are proposing widened travel lanes for the proposed alleys.
- The project retains the tiered termination provisions as set forth in the original proposal.
- The reduction in total units will result in a reduction in total traffic volume. The reduction of 61 units will yield a total trip reduction of 585 daily trips. An update of the traffic study would be required to determine if the reduction in total trips would result in a reduction of any specific traffic impacts. The change would not result in an increase in traffic impacts.

Planning Board Recommendation

The planning board recommended a conditional approval of the project. The following comments address how the revisions to the plan address the conditions recommended by the board.

The Planning Board found that the project as presented did not adequately support Future Land Use Policy 1.1.2, but could support the policy with specific changes. The Planning Board recommended a conditional approval of the project including the following conditions:

1. Eighty percent of the single-family lots meet a minimum lot size of 10,840 square feet.

The revisions, while including larger lots, do not meet this condition.

2. Up to 20% of the residential lots may have lot widths of 75 feet as proposed by the applicant.

The revised plan does meet this condition as the plan has 15.5% of the lots with lot widths at or in excess of 75 feet.

3. Access connection to Number 2 Road cannot be opened until after Phase 1 and Phase 2 have been completed, but should be opened when 50% of the units in Phase 3 have received a certificate of occupancy.

The proposed plan does include extention of the central collector to Number Two Road by phases, with the actual connection not occurring until Phase 3. The phasing program requires building permits to be issued for the current phase before a subsequent phase can be initiated, but the proposal does not require all units in a phase to be completed before advancing to the next phase.

4. The open space area between Phase 2 and Phase 3 shall be redesigned to eliminate stormwater retention ponds from this area.

The stormwater plan has been redesigned to substantially reduce the storage pond area between paases two and three, and the shape of the pond has been changed as well. The result of these revisions has been to keep a wider connection between the two wetland areas to support wildlife and other natural processes. This is a substantial compliance with the noted condition.

Summary

The applicant has made revisions to the proposed plan and development agreement that move the proposed project in the direction supporting many of the issues of concern to the Council. The question is whether the proposed changes are sufficient to find the project in compliance with Future Land Use Policy 1.1.2. As it relates to Policy 1.1.2 for Village Mixed Use Development, the policy reads as follows:

POLICY 1.1.2: *Land Use Categories.* The land use categories, as depicted on the Town's 2035 *Future Land Use Map (FLUM)* shall permit the following uses and activities.

Village Mixed Use – Primarily intended to create sustainability and maintain the unique charm of the Town, including the provisions of reducing the dependability on the automobile, protecting more open land, and providing quality of life by allowing people to live, work, socialize, and recreate in close proximity. Elementary, middle, and high schools are also permitted in this category

The Town Council options remain as noted below. The other information presented in the initial staff report remains current.

- Whether to approve the project based on the conditions proposed by the Planning Board;
- Approve the project with other conditions either in place of or supplementary to the Planning Board recommendation;
- Approve the project as submitted; or
- Deny project.

An action to deny the project needs to be accompanied by a statement as to why the project fails to meet the conditions for approval either through the comprehensive plan goals, objectives, and policies or through the failure to comply with other elements of the land development regulations.



TMHConsulting@cfl.rr.com 97 N. Saint Andrews Dr. Ormond Beach, FL 32174 PH: 386.316.8426

MEMORANDUM

TO:	Howey-in-the-Hills Town Council
CC:	J. Brock, Town Clerk
FROM:	Thomas Harowski, AICP, Planning Consultant
SUBJECT:	Mission Rise Planned Development Proposal
DATE:	January 12, 2024

The Town has received an application for approval of a planned unit development agreement for the Mission Rise parcel which lies south of and west of The Reserve (Hilltop Groves) development. The request is a zoning action which requires the Town Council to consider a proposed development agreement that will govern development of the parcel. The applicant has submitted a conceptual development plan and draft development agreement along with a traffic study and required application forms. The project has been reviewed by the Development Review Committee (DRC) on several occasions. While not all of the comments offered by the DRC have been adopted, the project has reached the stage where it needs to move to the policy decision stage.

Project Description

The project is requesting approval for 499 single-family homes with lots measuring 55×120 and 75×120 . The larger lots are located at the perimeter of the project and the smaller lots are located toward the interior of the project site. The project will access from SR-19 via Revels Road on the eastern side and access from Number Two Road on the north side. There is also a minor connection to Orange Blossom Road on the south. The site design provides for connections to the Hilltop Groves portion of The Reserve on the east and to Silverwood Lane on the west.

The residential portion of the project proposes three phases as shown on the graphic submitted with the application. The units by phase are as follows:

Proposed Development Phasing			
Phase	55-foot lots	75-foot lots	Total
Phase 1	150	41	191
Phase 2	100	13	113
Phase 3	166	29	195
Total	416	83	499

The project contains about 60 acres of wetlands with half of the total being credited to the required project open space and the balance identified as additional open space. The proposed plan will impact 0.3 acres which is for a road and utility crossing. The site includes an active eagles nest location, and the plan identifies 330 foot and 660 foot protection zones. No development activity is permitted within the 330 foot protection zone, but some development is proposed within the 660 foot protection zone. The development outside the 330 foot protection zone but within the 660 foot protection zone consists of single-family homes and roads. Some development within the outer protection zone is allowed.

Community facilities and parks are provided. Phase 1 and Phase 3 each include an amenity center including a cabana and pool. The project includes a multi-use trail along the central collector road to join with the Town's overall trail system, including a trail head adjacent to the Phase 1 amenity center. Phase 2 and Phase 3 each include smaller active miniparks, and Phase 2 includes a larger and more passive neighborhood park area. The neighborhood park area includes walking trails that connect to the multiuse trail.

Village Mixed Use Policy Assessment

The project is required to meet the village mixed use land use criteria as presented in Policy 1.1.1 of the future land use element. As a threshold requirement the project must comply with these criteria.

Maximum density is four units per net acre:

The net land area is identified as 153.1 acres which would allow a maximum of 612 units. The proposed project size is 499 units.

Residential land use maximum is 85%

Maximum allowable residential acreage is 130 acres and the propsoed project will apply 129.3 acreas to residential use.

Non-Residential land use minimum is 15%

Non-Residential land use will occupy 23.1 acres including the amenity centers, park areas, and multi-use trail area outside the right-of-way. The application includes a graphic identifying the non-residential land assignments.

<u>Five percent of the non-residential land is to be applied to public/civic uses</u> Public and civic land use minimum is 1.16 acres. The two amenity centers will occupy 2.6 acres as civic land uses.

<u>Public recreational uses must be at least 10% of the usable open space</u> Ten percent of the usable open space is 3.0 acres. Passive and active park areas are reported as 16.9 acres.

Total open space is 25% of the gross project area.

Total open space required is 60.8 acres which may include up to 50% of wetlands on the site. Total wetlands are reported as 60.1 acres, and when applied to the open space calculation the total site open space comes to 90.2 acres. Note that 0.3 acres of wetland will be impact by road construction.

Comprehensive Plan Assessment

The proposed project has been reviewed in comparison to the applicable comprehensive plan policies. The applicant has submitted a project narrative that offers their view on compliance with the goals, objectives and policies laid out in the comprehensive plan. The primary policy relating to Village Mixed Use development is Policy 1.1.1 of the Future Land Use Element. This policy lays out the minimum standards that a village mixed use project must meet including the percentage of land allocated to various uses, including open space, and associated activities such as civic activities and recreation. As noted in the preceeding section, the application meets these basic requirements. Additionally, the applicant cites compliance with Policy 1.11.2

The applicant also cites compliance with Policy 1.3.1 regarding wetlands protection. The plan as proposed does include wetland areas in the designated open space areas. There is a minor wetland impact in the central area of the project where there is some disturbance, about 0.3 acres for a road and utility crossing. This type of limited wetland impact has been approved in other developments. The open space preservation areas also include the flood prone areas in Zone AE. The project will be required to provide the 25-foot wetland buffer and 50 foot setback from wetlands to upland structures as part of the Preliminary Subdivision Plan should the zoning package be approved. This action is required by Conservation Element Policy 1.2.3 as well as Future Land Use Policy 1.3.1.

Policy 1.2.6 encourages the allocation of more dense residential development along the major road corridors and in areas that support the Central Avenue commercial area. The proposed central collector is part of the recommended traffic network and could support some increased density. Serving as a parallel facility to SR-19 it can help direct traffic to the Central Avenue commercial area as that portion of the Town develops. Compiance with the policy might benefit from a reduced density and/or larger lot sizes at the western and southern perimeter of the project.

For evaluation of the proposed project design, Policy 1.1.2 as it relates to Village Mixed Use areas may be the key determinant. The effective portions of the policy read as follows:

POLICY 1.1.2: *Land Use Categories.* The land use categories, as depicted on the Town's 2035 *Future Land Use Map (FLUM)* shall permit the following uses and activities.

Village Mixed Use – Primarily intended to create sustainability and maintain the unique charm of the Town, including the provisions of reducing the dependability on the automobile, protecting more open land, and providing quality of life by allowing people to live, work, socialize, and recreate in close proximity. Elementary, middle, and high schools are also permitted in this category.

The applicant has submitted a statement with the project narrative offering their position on how the plan complies with the policy. The Town is deep into a process of assessing how other village mixed use projects have performed relative to the policy. The recent summary of this village mixed use evaluation is captured in the draft amendments to the comprehensive plan that have emerged from the recent series of workshops and public discussions. The Town Attorney framed the findings from this process as follows:

7. <u>2023 Analysis and Reevaluation of Residential Densities and Lot Sizes</u>

In 2023 the Town Council and the Town's Planning and Zoning Board analyzed and reevaluated post-2010 residential development in the Town. Residential development under the Village Mixed Use designation resulted after 2010 in substantially increased housing densities and substantially smaller residential lots than were prevalent in the Town's historical development.

The evaluation and analysis was accompanied by robust public participation. Public sentiment agreed overwhelmingly with Town Council: the increased densities and downsized lots after 2010 were inconsistent with the character, appearance, and ambiance of the Town's historical neighborhoods. Contrary to FLUE Policy 1.1.2, development in Village Mixed Use had failed to "maintain the unique charm of the Town."

Consequently, the Town Council determined that amendments to this Future Land Use Element to redirect future residential densities and lot sizes were warranted and desirable.

As the Town Coouncil is well aware, the discussion about consistency of character, appearance and ambiance has focused on lot sizes. Newer developments have represented current housing markets as demanding smaller and narrower lots than is typical for the older neighborhoods in Howey. The Reserve located adjacent to the subject property on the east includes the Hilltop Groves residential development that includes single-family lots with 50-foot widths and groupings of townhouse units. This project was approved in the 2006 time frame and amended in 2018 including a redesign that stressed a higher percentage of owner-occupied units. The first phase final plat has recently been approved by the Town, and the Town will be able to assess the design impacts and contributions once construction begins.

The Venezia and Talichet developments are the most recent large scale developments including lot sizes ranging from 60-foot wide lots to 75-foot and 85-foot wide lots. Reaction to these developments has been mixed with the primary concern being the visual massing of large houses on smaller lots and lesser setbacks than the Town's traditional neighborhoods. These projects have also been called out as lacking some public recreation elements. The proposed Mission Rise project includes a fairly robust recreation and civic facility support. The Watermark development has been approved with somewhat larger lots as a minimum of 50% of the 225 lots required to be 80-feet wide and the balance are allowed at 70-feet.

During the Development Review Committee phase of the Mission Rise project review, the applicants were clearly advised of the ongoing community debate regarding lot sizes and dimensions so these factors could be considered in their development proposal. The town Council now has the task of assessing the current application in comparison to Policy 1.1.2 as addressed by the applicant and as considered within the context of the ongoing policy review.

Conceptual Development Plan Review

The conceptual development plan includes a series of graphics and a written development agreement. The conceptual plan has done a good job of identifying wetland and flood prone areas and including them in the open space areas of the project. The residential development areas clearly break out into three sub-areas that form the three project phases, and each phase is supported by recreation and/or civic facilities and an integrated bicycle and pedestrian network. The bicycle network will tie into the bicycle facilities in the adjacent Hilltop Groves development to provide a loop system connecting cyclists from both projects and offering a high quality cycling opportunity for Howey citizens generally.

The project design includes connected open space areas between Phase 1 and Phase 2 and again between Phase 2 and Phase 3. The staff has requested the applicant eliminate the stormwater retention area in the open space area between Phase 2 and Phase 3 in order to preserve more trees in this upland area and to maximize the open space connectivity. The staff believes that the stormwater retention is a residential support activity and should be located in the residential portions of the project. The applicants have been responsive to a number of other design suggestions, but have chosen to keep the stormwater retention area in the open space corridor.

The conceptual development plan package includes layouts for both the proposed 55-foot and 75-foot wide lots showing a minimum of 20 feet from the front property line to the garage and rear setbacks for the principal structure of 25-feet. The Town has been asking for these setbacks to provide for adequate off-street parking and to allow for accessory structures like swimming pools while meeting thesetbacks for accessory structures.

Concurrency Considerations

Concurrency issues relate to the provision of necessary public services to support new developments. There are two concurrency issues related to the Mission Rise project, sanitary sewer service and traffic. **Sanitary Sewer**: The project does not currently have an agreement with the Central Lake Community Development District, which is the current provider for the Town. The CLCDD reports that they do not have currently available capacity. The applicants will need to reach an agreement with the CLCDD on service or arrange for service from an alternate provider. The Town is currently reviewing options for alternative treatment sources to provide options to the CLCDD.

The applicant has addressed the sewage treatment issue in the development agreement by linking the project approval to the acquistion of treatment service. Section 10 of the development agreement provides a two year window from the date of approval of the agreement for the applicants to obtain a commitment for sewage treatment. If the commitment is obtained, the project may move forward to submit plans for constuction. If a commitment is not obtained within the prescribed time period, the Town Council may vacate the agreement.

Traffic Considerations: The applicants prepared a traffic analysis which projected traffic based on current conditions, anticipated traffic from the proposed development, and anticipated traffic from other projects which have been approved, but not yet constructed. Planned traffic improvements were considered, and given the concerns related to Number 2 Road, the capacity for Number 2 Road was reduced by 25%. The study reported two roadway links and three intersections that will have capacity concerns. The affected links are on SR -19 The first is from Lane Park Road to Central Avenue, and the second is from CR 455 to CR 478. Both of these segments will have capacity issues without the Mission Rise project, and both may be affected by re-classification of the roadway capacities to more accurately reflect currnt conditions.

The affected intersections are also on SR 19 and include the intersections at CR 48, Central Avenue and Revels Road. Typically the project is required to contribute a "fair share" amount to the improvements at each intersection. The applicant has proposed an alternative of paying for the full upgrade of the SR 19 and Revels road intersection. The upgrade may be a traffic signal if warranted or a roundabout. After discussion with the town's traffic engineer, this alternative is preferred as it will result in an actual physical improvement addressing one of the potential impact sites. The standard approach would likely result in a fair share payment sitting idle until sufficient funding is found to complete an improvement.

On Number 2 Road the project will provide additional right-of-way to help bring the right-of-way up to standard. The project will also provide turn lanes and bring the current lane width up to standard for the length of the project frontage. Combined with the approved upgrades from Hilltop Groves, the combined project will bring the road close to standard from the western terminus of the project to approximately Mare Avenue. Based on the timing for the proposed development as stated in the termination provisions, it may be up to four years before units in Phase 1 appear and another three years before Phase 2 units begin construction. The proposal for the collector road is to built the road with each residential phase, the actual connection to Number 2 Road could be five to ten years in the future. The project design includes a connection to the Hilltop Groves project in Phase 2 of Mission Rise. The model predicts this connection willdraw up to 10% of the project traffic primarily as a link to the commercial area in The Reserve development. This link also offers an indirect connection to SR-19. Lake County is discouraging use of the southerly connection to Orange Blossom Road due to the poor condition of that roadway.

Summary of Findings

The list of findings presented below is offered to summarize for the Town Council the most salient points from the discussion to this point.

- The applicants have presented a conceptual plan that meets the minimum Village Mixed Use requirements as presented in Future Land Use Policy 1.1.1.
- The development agreement includes setbacks that address the issues related to onsite parking and adequate area to accommodate accessory structures.
- The conceptual plan includes recreation and civic components that have been issues for other VMU projects.
- The development agreement includes minimum and maximum dwelling unit sizes in an effort to address the building mass concerns from other VMU projects.
- The conceptual development provides some larger lots at the project periphery, but the project is dominated by 50 x 120 lots.
- Compliance with Future Land Use Policy 1.1.2 relating to community character is an open discussion item.
- The project development agreement provides a tiered termination clause so that the project has specific sunset action points.
- The project needs to obtain sanitary sewer service sufficient to serve the project.
- The project traffic will impact three intersections on SR 19, and the applicant has proposed full improvement of the SR-19 and Revels Road intersection as a "fair share" contribution.
- While the traffic study shows that Number 2 Roard and most segments on SR-19 will operate within the designated level of service, there will be additional traffic added to each facility.
- The project will provide limited improvements to Number 2 Road.
- Based on the timing for phased development the actual connection of the central collector road to Number 2 Road is expected to occur between five and ten years from the project start.

Planning Board Analysis and Recommendation

The Town's planning board considered the application at their December 21, 2023 regular meeting. The Board review the planning staff report and heard an extensive presentation from the applicant. Public testimony was also considered. The Planning Board found that the project as presented did not adequately support Future Land Use Policy 1.1.2, but could support the policy with specific changes. The Planning Board recommended a conditional approval of the project including the following conditions:

- 1. Eighty percent of the single-family lots meet a minimum lot size of 10,840 square feet.
- 2. Up to 20% of the residential lots may have lot widths of 75 feet as proposed by the applicant.
- 3. Access connection to Number 2 Road cannot be opened until after Phase 1 and Phase 2 have been completed, but should be opened when 50% of the units in Phase 3 have received a certificate of occupancy.
- 4. The open space area between Phase 2 and Phase 3 shall be redesigned to eliminate stormwater retention ponds from this area.

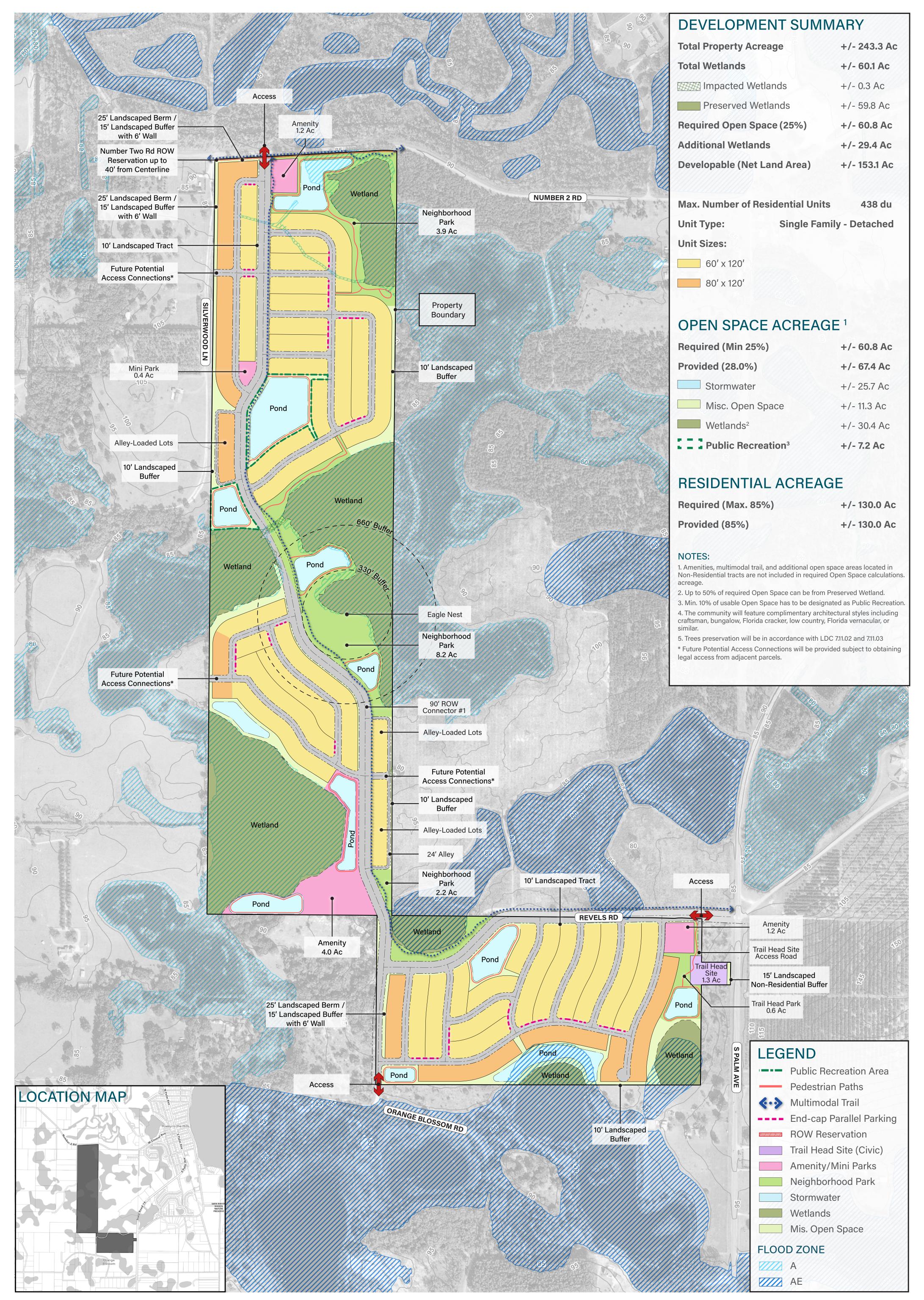
Action Options

The Town Council has received the recommendation from the Planning Board and has the opportunity to consider:

- Whether to approve the project based on the conditions proposed by the Planning Board;
- Approve the project with other conditions either in place of or supplementary to the Planning Board recommendation;
- Approve the project as submitted; or
- Deny project.

An action to deny the project needs to be accompanied by a statement as to why the project fails to meet the conditions for approval either through the comprehensive plan goals, objectives, and policies or through the failure to comply with other elements of the land development regulations.

If the Town Council takes an action including conditions recommended by the Planning Board or other conditions that will result in changes to the lot patterns proposed in the development, the project will need to undergo a revision to the conceptual development plan that conforms to these conditions. If the applicant elects to redesign the project in line with the Planning Board recommendations or meeting other conditions that the Town Council may apply, some work will need to done to clarify the conditions to be certain about how and when they would be satisfied.





MISSION RISE • CONCEPTUAL PLAN

• Town of Howey Hills, FL

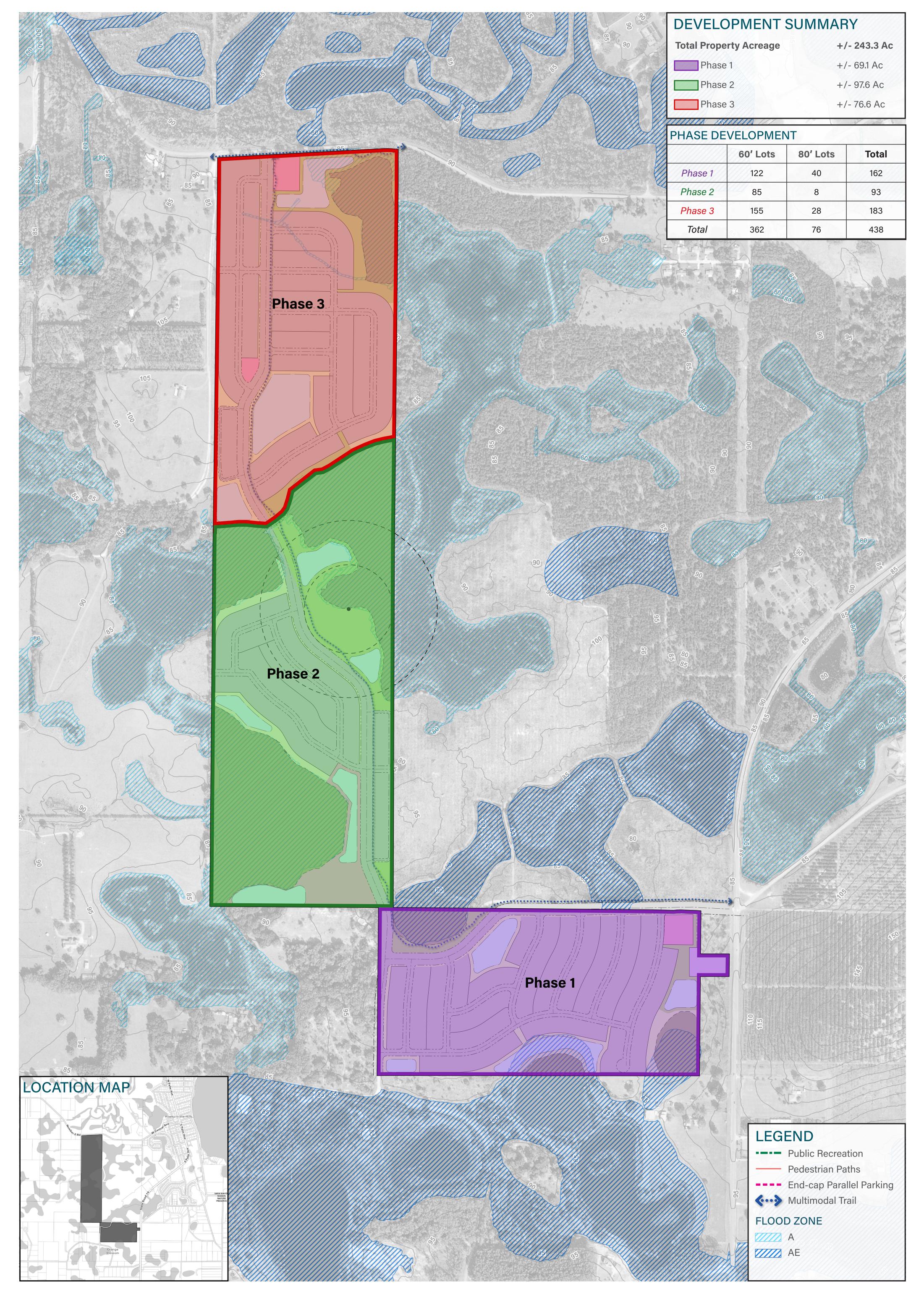
February 14, 2024

22003786

Turnstone Group / ASF TAP FL I LLC.

0 300' 600' SCALE: 1" = 300'

The plan is conceptual in nature. Final densities, layout, development parameters, calculations, and site conditions may change upon further development of the Preliminary and/or Master Site Plan, and upon evaluation of topographic survey, water management and existing historic and specimen trees to remain.





MISSION RISE • PHASING PLAN

• Town of Howey Hills, FL

February 14, 2024

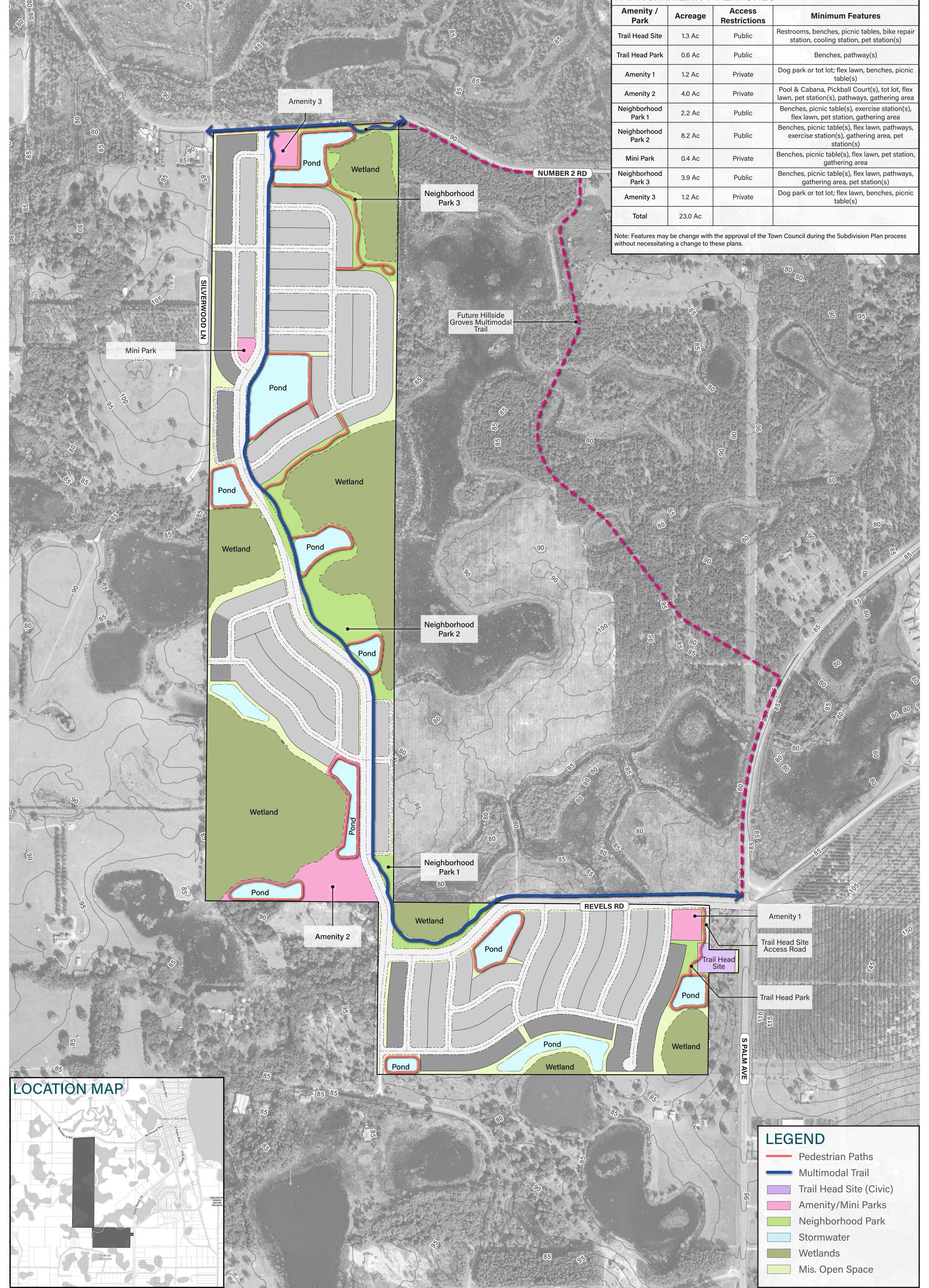
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Lurnstone Group / ASF TAP FL I LLC.

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The plan is conceptual in nature. Final densities, layout, development parameters, calculations, and site conditions may change upon further development of the Preliminary and/or Master Site Plan, and upon evaluation of topographic survey, water management and existing historic and specimen trees to remain.

Amenity / Park	Acreage	Access Restrictions	Minimum Features
Trail Head Site	1.3 Ac	Public	Restrooms, benches, picnic tables, bike rep station, cooling station, pet station(s)
Trail Head Park	0.6 Ac	Public	Benches, pathway(s)
Amenity 1	1.2 Ac	Private	Dog park or tot lot; flex lawn, benches, picr table(s)
Amenity 2	4.0 Ac	Private	Pool & Cabana, Pickball Court(s), tot lot, fl lawn, pet station(s), pathways, gathering ar
Neighborhood Park 1	2.2 Ac	Public	Benches, picnic table(s), exercise station(s flex lawn, pet station, gathering area
Neighborhood Park 2	8.2 Ac	Public	Benches, picnic table(s), flex lawn, pathway exercise station(s), gathering area, pet station(s)
Mini Park	0.4 Ac	Private	Benches, picnic table(s), flex lawn, pet stati gathering area
Neighborhood Park 3	3.9 Ac	Public	Benches, picnic table(s), flex lawn, pathway gathering area, pet station(s)
Amenity 3	1.2 Ac	Private	Dog park or tot lot; flex lawn, benches, pice table(s)
Total	23.0 Ac		Line and



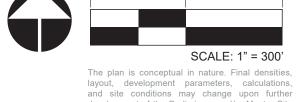


MISSION RISE • PARKS, TRAILS & OPEN SPACE PLAN

• Town of Howey Hills, FL

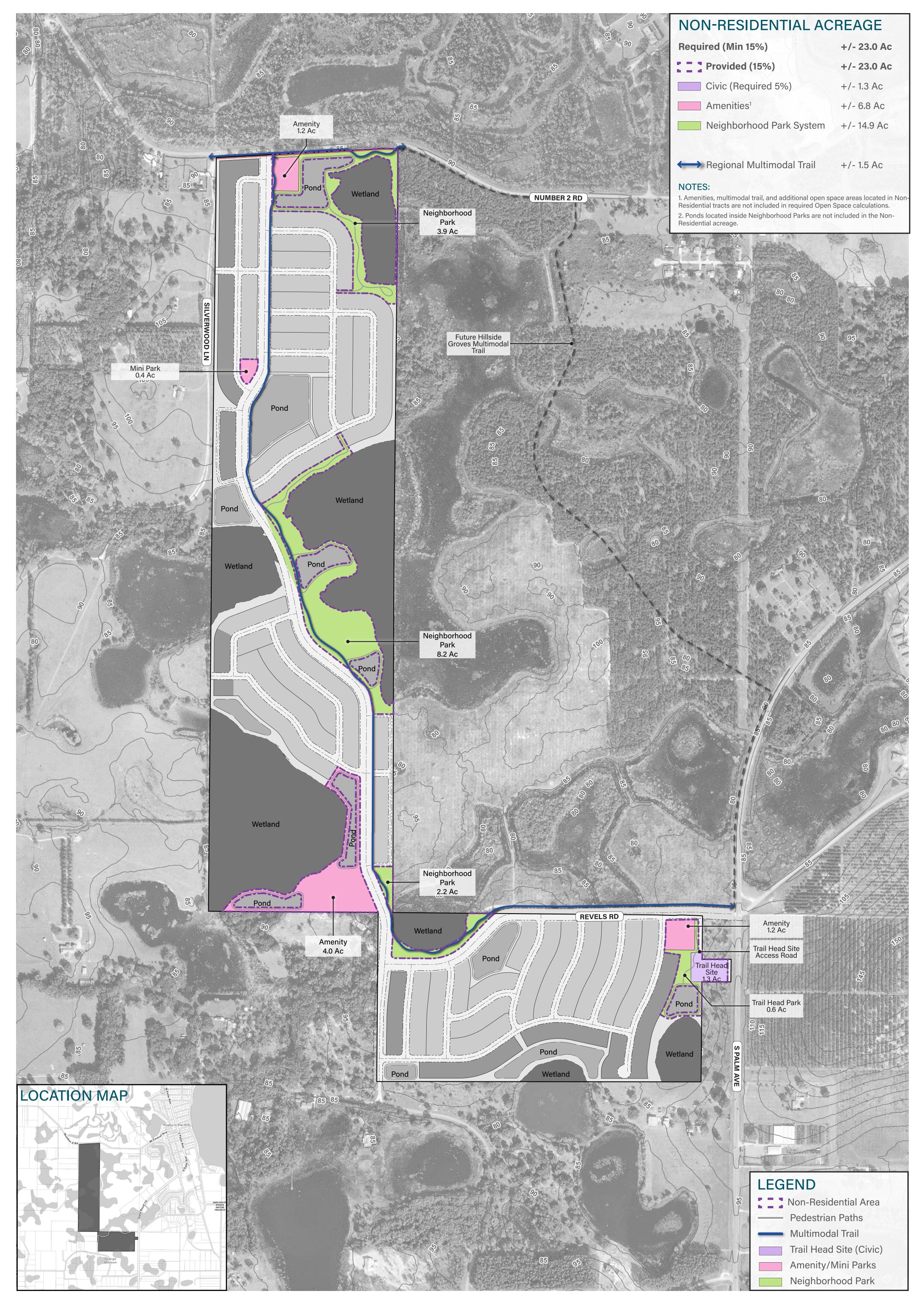
February 14, 2024

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The plan is conceptual in nature. Final densities, layout, development parameters, calculations, and site conditions may change upon further development of the Preliminary and/or Master Site Plan, and upon evaluation of topographic survey, water management and existing historic and specimen trees to remain.

LILC.





MISSION RISE • NON-RESIDENTIAL AREAS

• Town of Howey Hills, FL

February 14, 2024

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Lurnstone Group / ASF TAP FL I LLC.

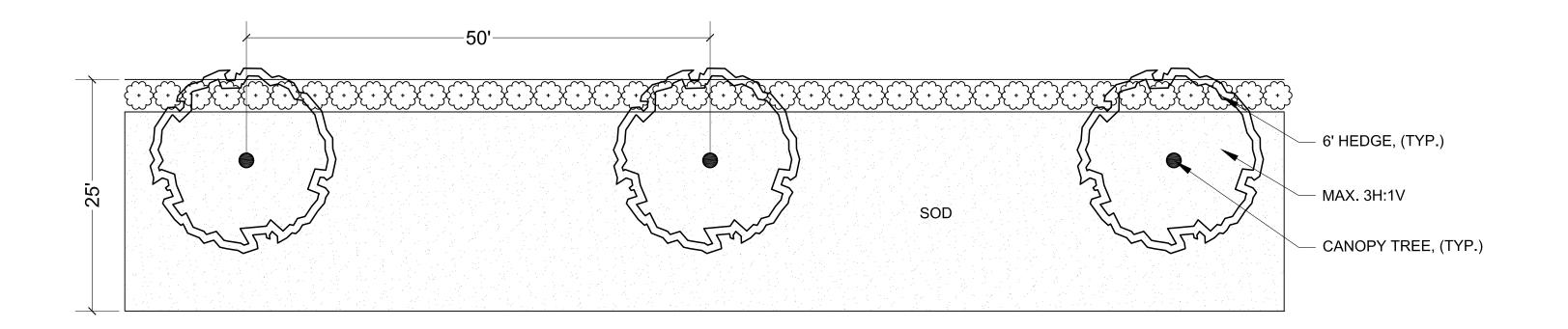
CALE: 1" = 300'

The plan is conceptual in nature. Final densities, layout, development parameters, calculations, and site conditions may change upon further development of the Preliminary and/or Master Site Plan, and upon evaluation of topographic survey, water management and existing historic and specimen trees to remain.

RESIDENTIAL BUFFERS

25' LANDSCAPE BUFFER, TYPICAL

A landscaped berm with a total depth of at least 25 feet and no steeper than 3H:1V. The berm shall be at least three feet (3') in height and the berm together with the landscaping, shall comprise a continuous screen of at least 5 and one half feet (5.5') at time of planting and six feet (6') within one year of planting. Canopy trees shall also be planted every 50 feet along the berm. For single family subdivisions, these buffers shall be on common property and dedicated to the homeowners' association for ownership and maintenance responsibilities.

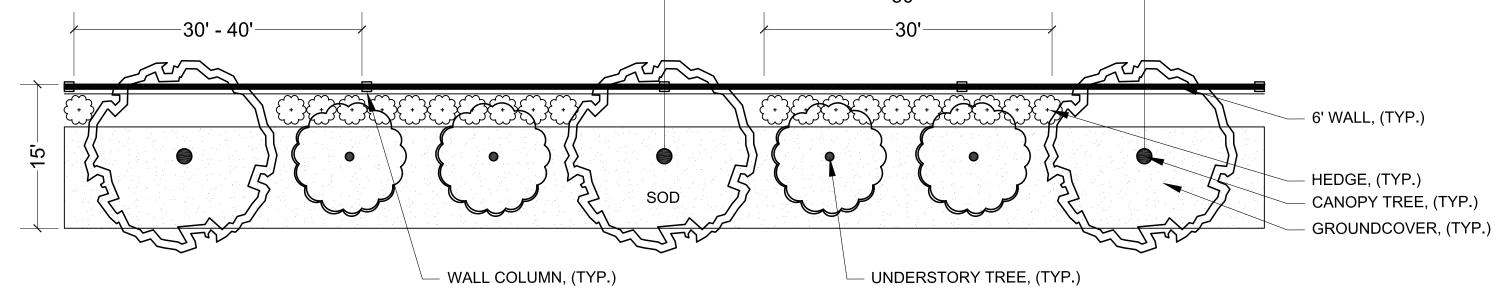


15' LANDSCAPE BUFFER, TYPICAL

A landscaped wall buffer with a minimum depth of 15 feet. The wall shall maintain a height of six feet (6') from grade on highest side and all walls shall have a decorative exterior (no exposed block). Acceptable materials for wall faces are brick, stucco or stone or a combination of those materials. Wall columns shall have a maximum spacing of thirty feet (30') on walls up to two hundred feet (200') in length and forty feet (40') on walls more than two hundred feet (200') in length. Wall columns may extend up to two feet (2') above the height of the wall.

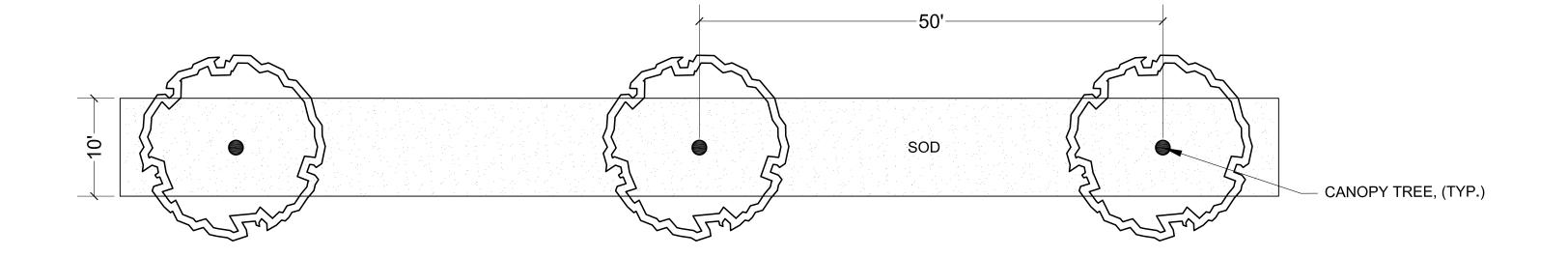
Within each fifty-foot (50') increment along the wall, two (2) canopy trees, two (2) understory trees, and 30 linear feet of shrubs shall be planted. The trees shall not be closer than five feet (5') to a walk or wall. The shrubs shall be at least 30" in height at time of planting.

For single family subdivisions, these buffers shall be on common property and dedicated to the homeowners' association for ownership and maintenance responsibilities.



10' LANDSCAPE BUFFER, TYPICAL

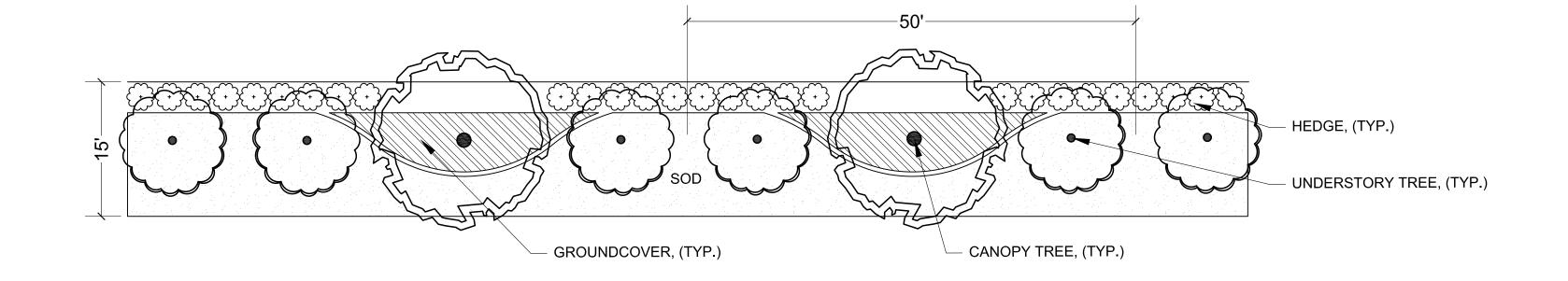
Ten-foot-wide (10') landscaped buffer with trees spaced no more than 50 feet on center.



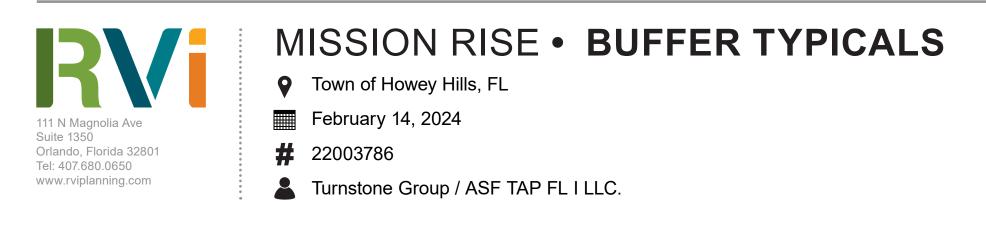
NON-RESIDENTIAL BUFFERS

15' LANDSCAPE BUFFER, TYPICAL

The landscaped buffer shall contain at least one (1) canopy tree, two understory trees and 30 linear feet of shrubs and ground cover for each 50 linear feet of buffer. Canopy tress shall be located no less than five feet (5') and no more than eight feet (8') from sidewalks and other walkways in order to provide shade while minimizing conflicts between tree roots and sidewalks. Similarly, canopy trees shall be used to shade parking areas that adjoin buffers. Understory trees may be planted in groupings and palms may be planted in place of understory trees when clustered in groupings of three or more trees.

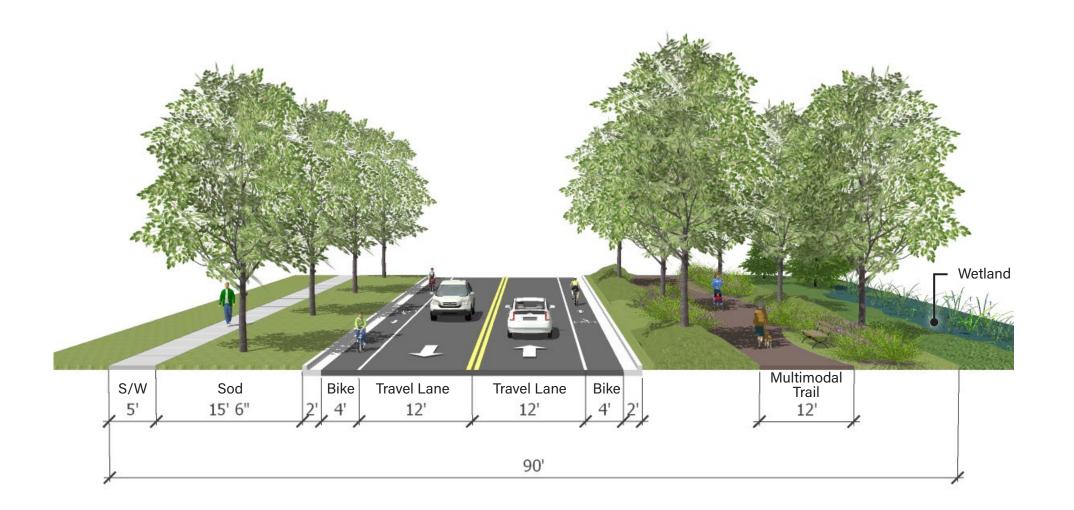


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layout, development parameters, calculations, and site conditions may change upon further development of the Preliminary and/or Master Site Plan, and upon evaluation of topographic survey, water management and existing historic and specimen trees to remain.

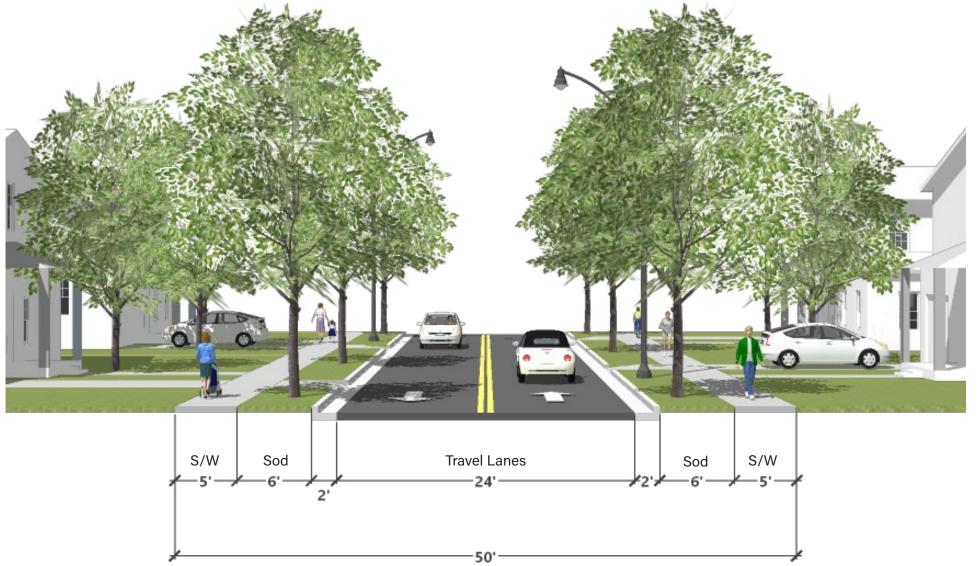
SPINE ROAD 90' ROW WITH BIKE LANE & 12' MULTIMODAL TRAIL

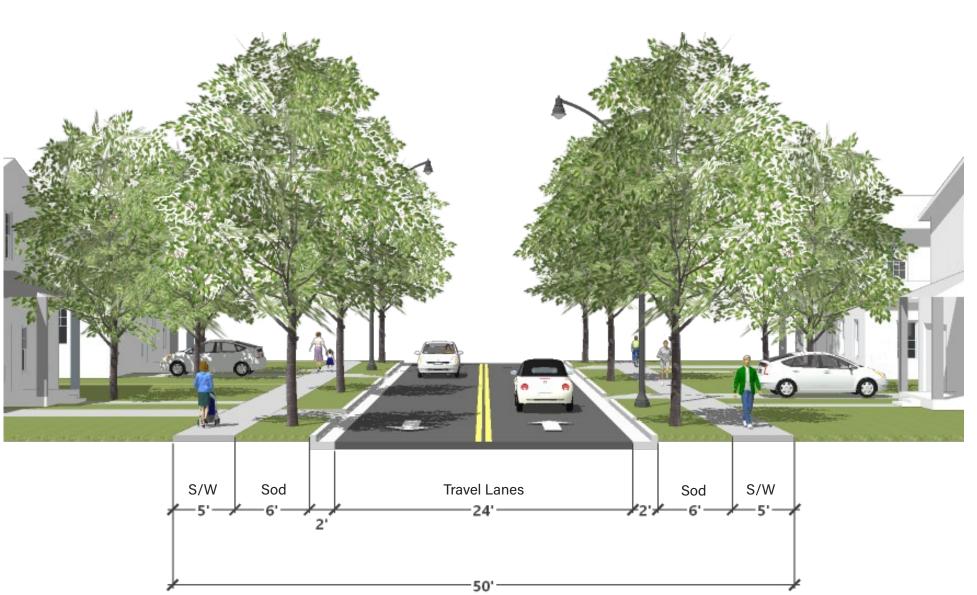


NOTE:

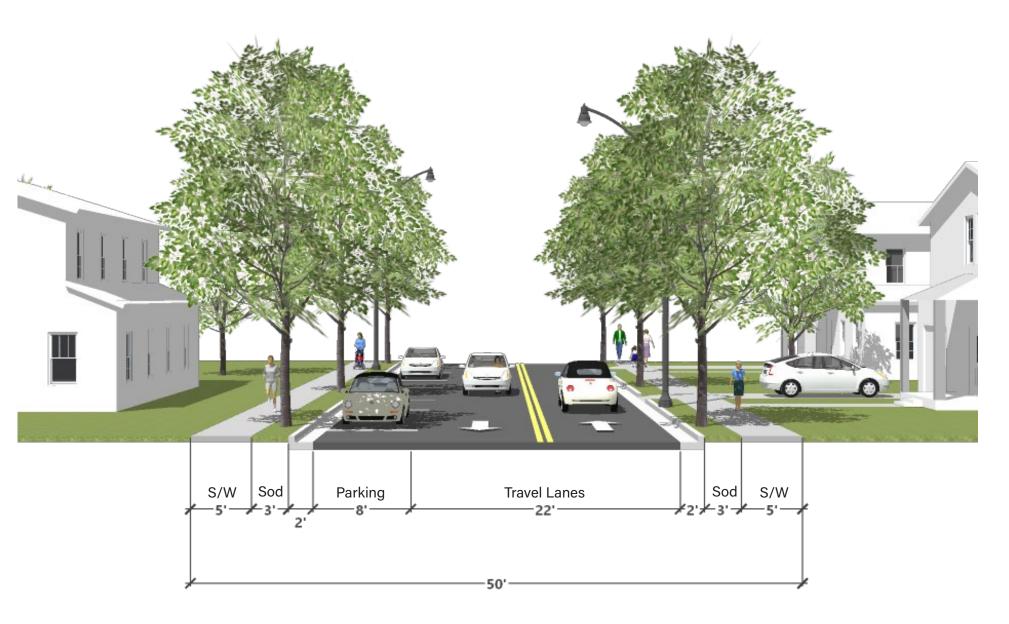
Multimodal Trail is intended to meander in and out of the proposed ROW. Final location may vary based on grading, utilities & final engineering.

NEIGHBORHOOD ROAD OPTION 1 - 50' ROW





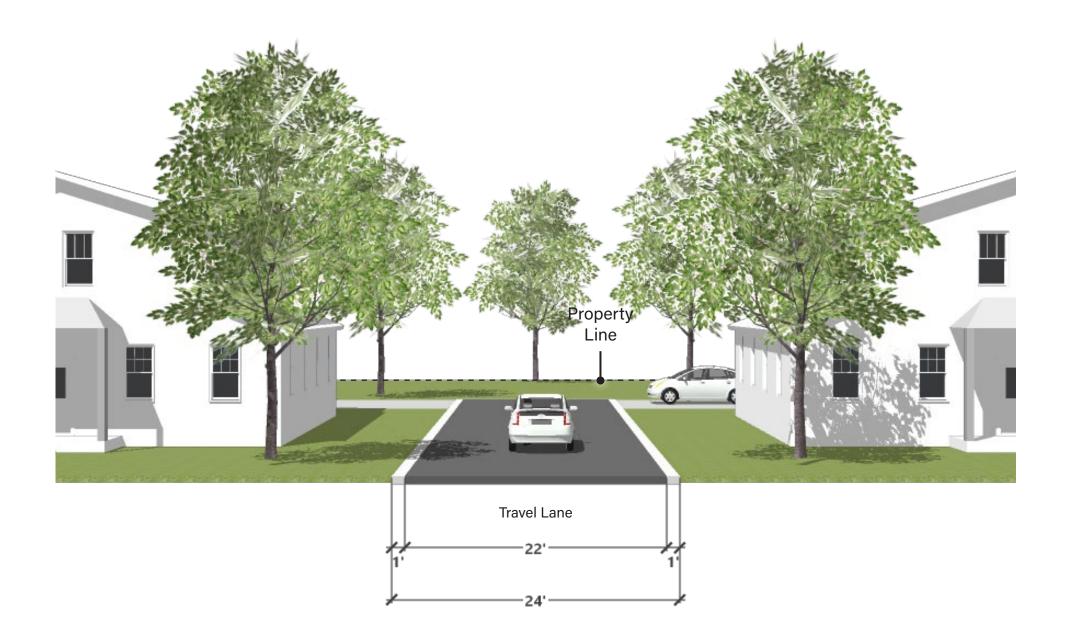
OPTION 2 - 50' ROW WITH PARKING ON ONE SIDE



ALLEY ROAD **OPTION 1 - PARALLEL 24' ROW**

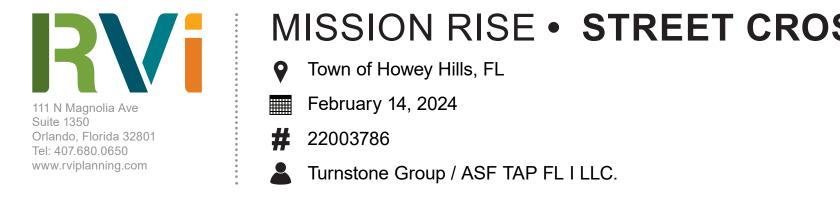


OPTION 2 - PAIRED 24' ROW





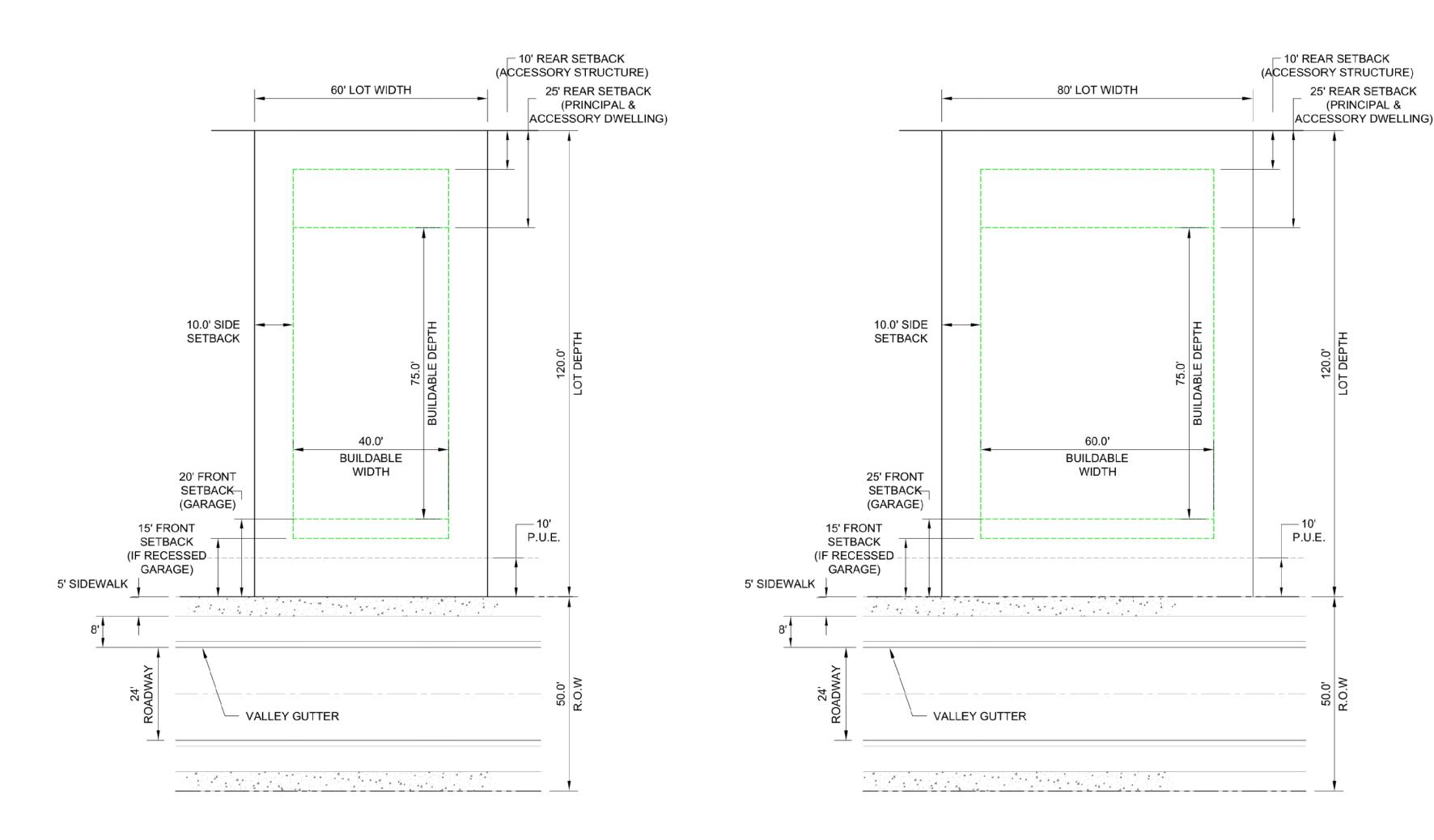
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MISSION RISE • STREET CROSS SECTIONS

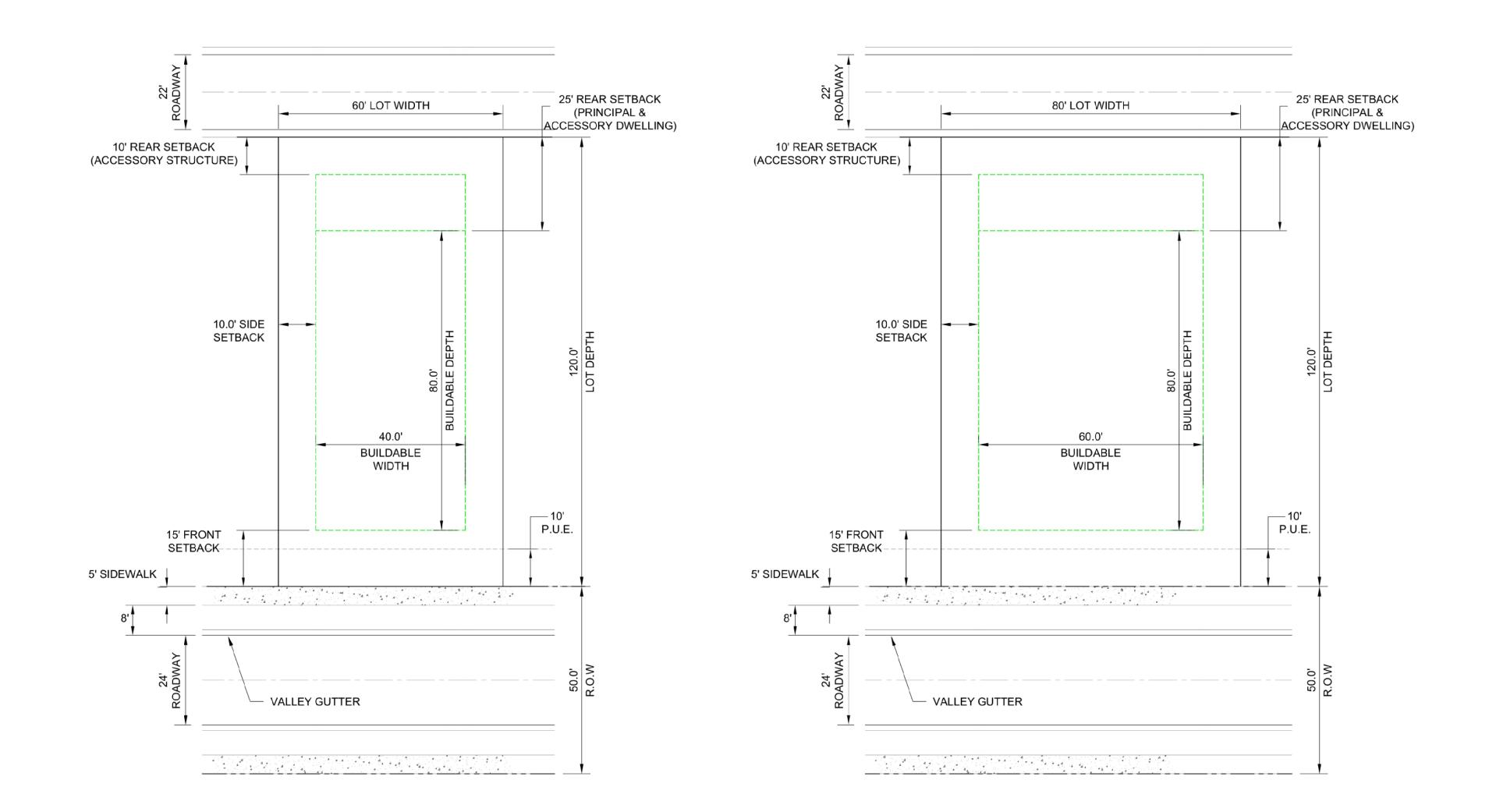
60' LOT FRONT LOAD GARAGE

80' LOT FRONT LOAD GARAGE









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Town of Howey Hills, FL

February 14, 2024

22003786

Turnstone Group / ASF TAP FL I LLC.

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0 & 20' & 40' \\
\hline \\
SCALE: 1" = 20'
\end{array}$ The plan is concentral in patron. Final densities

The plan is conceptual in nature. Final densities, layout, development parameters, calculations, and site conditions may change upon further development of the Preliminary and/or Master Site Plan, and upon evaluation of topographic survey, water management and existing historic and specimen trees to remain.

Draft – 02-14-2024

Item 3.

This instrument prepared by and should be returned to: Thomas J. Wilkes GrayRobinson 301 East Pine Street, Suite 1400 Orlando, Florida 32801

MISSION RISE PUD DEVELOPMENT AGREEMENT

This **MISSION RISE PUD DEVELOPMENT AGREEMENT** ("Agreement") is made as of the _____ day of _____, 2024 ("Effective Date"), between the **Town of Howey-in-the-Hills**, Florida, a Florida municipal corporation (the "Town"), and **ASF TAP FL I, LLC**, a Delaware limited liability company (the "Owner").

RECITALS

A. The Owner owns approximately 243 acres of property more particularly described in Attachment A to this Agreement ("the Property").

B. The Property is within the corporate limits of the Town. The Town has assigned the Property a future-land-use designation of Village Mixed Use. To be developed the Property must be zoned PUD - Planned Unit Development.

C. The Property was zoned PUD in or about 2010, but the PUD zoning and its related development agreement expired.

D. The Owner intends to develop and use the Property as a mixed-use planned development consisting of single-family residential, civic and public uses more specifically set forth herein ("the Project"), to be known as the "Mission Rise PUD."

E. In connection with the Owner's request for Village Mixed Use PUD zoning, the Town and the Owner now enter into this Agreement to set forth the terms and conditions of approval negotiated between them for the development and use of the Property as the Mission Rise PUD.

NOW, THEREFORE, the Town and the Owner agree as follows:

Section 1. Land development and uses. Development and use of the Property is subject to the following conditions, requirements, restrictions, and terms:

(a) **General**. Development of the Project and use of the Property shall be governed by this Agreement, the Town's Comprehensive Plan, the Town's Land Development Code ("LDC") and Code of Ordinances ("Town Code"), and all other applicable state laws and regulations and Town ordinances and rules.

Unless otherwise noted, the definition of terms in this Agreement shall be the same as the definitions set forth in the LDC. Where in conflict, the terms of this Agreement shall supersede and prevail over the LDC and Town Code, but only to the extent of the conflict.

The Conceptual Land Use Plan, or Conceptual Plan, is contained in Attachment B to this Agreement and consists of seven pages of the following graphics:

- i. Conceptual Plan;
- ii. Phasing Plan;
- iii. Parks, Trails & Open Space Plan;
- iv. Non-Residential Areas;
- v. Buffer Typicals;
- vi. Street Cross Sections; and
- vii. Lot Fit.

In the Conceptual Land Use Plan for the Project the term "conceptual" means the location of land uses on the site, including areas for residential development, open space, stormwater management, parks, and roads in relation to the site area and other uses on the site. Subsequent plan development may refine the details based on detailed engineering design. "Conceptual" does not mean or contemplate the modification of proposed housing types or the relocation of land uses and roads other than minor adjustments dictated by engineering needs and best practices.

(b) **Phasing**. The Project will be developed in three phases, as shown on the Conceptual Land Use Plan or "Conceptual Plan" in Attachment B to this Agreement. Each phase must be designed and built to operate independently with all necessary public services and utilities infrastructure, including roads, multimodal trails, and master stormwater systems, consistent with Conceptual Land Use Plan. Building permits for residential units in Phase 2 will not be issued until permits for residential units have been issued for Phase 1. Building permits for residential units in Phase 3 will not be issued until permits for residential units have been issued for Phase 2. Revisions to the phasing schedule shall be considered as minor amendments to this Agreement that may be approved by Town Council with no formal amendment to this Agreement required.

- (c) **Purpose**. The purpose of the Mission Rise PUD is to:
- 1. Create an attractive and high-quality single-family housing development compatible with the scale and character of existing residential development and land uses in the Town;
- 2. Develop a residential area that is safe, comfortable and attractive for and to pedestrians;

- 3. Create a community with direct visual and physical access to open land, with a strong community identity, and with amenities in the form of community open space;
- 4. Provide a network of open space for future homeowners; and
- 5. Provide a variety of lot sizes and housing choices for diverse age and income groups and residential preferences.

(d) **Land uses**. The Conceptual Land Use Plan for the Project in Attachment B is an integral part of the approval of the Project. Elements in the Concept Plan include single-family detached homes, civic uses, multimodal trails and approximately 90 acres of open space and preserved wetlands. No manufactured or modular homes are allowed. Uses that would be prohibited under the LDC for SFR, MDR-1, or MDR-2 zoning are likewise prohibited in residential areas of the Project.

(e) **Development standards**.

Lot Size

A range of lot sizes shall be provided in order to create variety and offer opportunity for different income households. Minimum lot size will be 60' x 120'. The Project may consist of up to 438 total single-family residential detached lots of 60' x 120' and 80' x 120'.

Setbacks

The setbacks for single family residential lots shall be as follows:

Front:	20 feet / 15 feet (w/ recessed garage)
Rear:	25 feet
Side:	10 feet
Corner:	12.5 feet
Pool / Accessory	10 feet

Dwelling Size

The minimum dwelling size for all single-family residences shall be 1,400 square feet of heated/air-conditioned space under roof plus a two-car garage with a minimum of 400 square feet. Maximum dwelling size shall be 4,600 square feet of heated/air-conditioned space under roof.

Lot Width

The minimum lot width at building line shall be 60 feet for 60-foot wide lots and 80 feet for 80-foot wide lots, with a minimum street frontage for all lots of 30 feet.

Lot Coverage

Lots may have a maximum lot coverage of 60%, to include principal dwelling, all paved areas, and swimming pools.

Height of Structures

No residential structure may exceed 35 feet in height.

Building Design

If and to the extent not inconsistent with Florida law, building design shall be in accordance with the Architectural Requirements of the Town's LDC and will comply specifically with the design requirements of LDC Sections 4.06.02 and 4.06.03.

The following principles seek to promote a high-quality development that will create a sense of place and community through the development of the site.

- If and to the extent not inconsistent with Florida law, housing styles, shapes and materials shall meet the Towns Land Development Regulations.
- The different housing types shall be integrated architecturally in order to give the development a harmonious appearance.
- The creation of visual richness shall be considered when choosing materials and details. Local characteristics are encouraged.
- Side entrances for garages are encouraged.
- A variety of roof heights, pitches and materials are encouraged.
- Landscaping shall be incorporated into the overall design as a means of linking the development areas with the open spaces.
- Each exterior wall for a single-family home must be a minimum of two materials and a minimum of two colors. Primary facades must have one base color and a complementary wall material may be used to meet the second color requirement.
- Block face restrictions may be reduced to 300 linear feet. The same house model may not be used more than three times within a single block face. For purposes of this requirement, a different house model is a different floor plan, not the same floor plan flipped in a different direction and not the same floor plan with a different exterior treatment.

(f) **Wetlands**. Impacts to wetlands, if any, and wetland buffering shall be subject to the Town's Land Development Regulations, as well as St. Johns River Water Management District regulations.

(g) **Potable water, wastewater, and reclaimed water**. For potable water and wastewater service, well and septic systems are not allowed. The Project must be connected to and served by the Town's potable-water and wastewater systems prior to a certificate of occupancy being issued for a structure in the Project (except temporary construction uses).

Except as may be set forth otherwise in this Agreement, the Owner must install all on-site potable-water, wastewater, and reclaimed-water infrastructure and connect to central water and wastewater systems, and to the Town's reclaimed-water system when available at the Property boundary, all at no cost to the Town. The Owner must pay potable-water, wastewater, and reclaimed-water capital and connection charges, impact fees, and other Town rates, fees, and charges, either applicable currently or in the future.

1. *Potable Water*. The Town will provide potable water, and may in the future provide reclaimed water, to the Project in accordance with its applicable ordinances,

resolutions, operating regulations, policies and procedures. The Town will provide potable water to the Property in sufficient quantities for development of the Project as contemplated herein, subject to the limitations and requirements of permits issued to the Town from time to time by the St. John's River Water Management District in connection with water consumption.

The Owner shall construct, at no expense to the Town, all off-site potable-water-system facilities, lines, pumps, valves, control structures, and appurtenances (other than water-treatment plants) necessary to serve the Project. The construction and route of off-site lines and other structures shall be done according to engineering plans prepared by the Owner and approved by the Town Manager. Potable water shall not be used for irrigation.

2. *Wastewater*. The Town will provide wastewater-collection and transmission service to the Project, transmitting Project wastewater either to the Central Lake Community Development District ("CDD") or to another wastewater utility service provider of the Town's choosing with available capacity to treat and dispose the Project's wastewater ("Wastewater Utility"). The Owner must obtain from the CDD or Wastewater Utility a contract right for the Project to receive treatment and disposal of its wastewater at such provider's treatment and disposal facilities.

The Owner shall construct, at no expense to the Town, all off-site wastewater-system transmission and disposal facilities, lines, lift stations, pumps, valves, control structures, and appurtenances (other than wastewater-treatment plants) necessary to serve the Project. The construction and route of off-site lines, lift stations, pumps, and other structures shall be done according to engineering plans prepared by the Owner and approved by the Town Manager.

Town Option to Oversize Water and Wastewater Lines. In its review and 3. processing of the preliminary subdivision plans for each phase of the Project, the Town may elect to oversize the off-site lines, pumps, improvements, or other facilities or appurtenances for the Town's water or wastewater system, or for both, necessary to serve such phase. If the Town elects to oversize one or both systems, it must inform the Owner in writing of the specifications for the oversizing(s) prior to or as part of the Town's first round of review comments on the preliminary subdivision plan application. The Town shall reimburse the Owner for the difference in the increase in cost of design, materials and construction to oversize the improvements based on plans and cost estimates provided by the Owner to the Town and approved by the Town Manager, which approval shall not be unreasonably withheld, conditioned or delayed. The Town shall reimburse the Owners for the difference in the costs within 60 days following (i) completion of the improvements and (ii) receipt by the Town of documentation reasonably demonstrating that the Owner has completed the work and has incurred the costs attributable to the over-sizing, all in keeping with the plans and cost estimate previously approved by the Town Manager.

4. *Permit-Induced Costs, Restrictions, Requirements, and Risks.* Under state and federal laws and regulations, the Town may provide its potable-water and wastewater services to the Property and the Owner and its successors only if the Town first has been issued certain required permits. The Owner acknowledges that the permits are inevitably conditioned with requirements and restrictions that typically impose costs and risks. The Owner further acknowledges that, for the Town to operate its potable-water and wastewater systems in an

orderly, dependable, and cost-effective manner, the Town must have the ability legally to spread the costs and risks among customers and property owners benefiting from the services. The Owner acknowledges, therefore, that (i) from time to time the Town may impose rates, fees, and charges and may issue potable-water system and wastewater-system regulations and policies that impose restrictions and requirements on its customers and benefiting property owners, such as the Owner and it successors, and (ii) so long as the Owner or successors are required to pay only their fair share for such rates, fees, and charges, then the imposition of such rates, fees, and charges and the issuance of such system regulations are not prohibited by or otherwise a breach of this Agreement.

5. *Reclaimed Water*. The Owner must install reclaimed water lines, both onsite and off-site as directed by the Town and as required by the Town's Code of Ordinances. Until such time as reclaimed water is available to the Property the Owner and its successors shall use the reclaimed water lines to irrigate properties within the Project boundaries, but only with stormwater from on-site stormwater-retention ponds or with sources other than potable water as may be approved by the Town and St. John's River Water Management District. Except for installation of reclaimed lines at the time of development as noted above, connection to reclaimed water after the development of the Project may not result in additional costs to the Owner or developer.

(h) **Solid Waste**. Solid Waste collection shall be pursuant to Town regulations.

(i) **Drainage**. The maintenance, repair, and replacement of the drainage system shall be the responsibility of the homeowners association(s).

(j) Transportation

- 1. Roadways
 - A. The Project must have a connected street system that serves vehicles, pedestrians and bicycles and that connects to recreation facilities and adjacent residential/community areas.
 - B. There must be ingress and egress points at Revels Road, County Number Two Road and Orange Blossom Road in the approximate location shown on the Conceptual Land Use Plan.
 - C. The access at County Road Number Two must be a full intersection, with dedication of right-of-way sufficient for both (i) construction of turn lanes and (ii) reconstruction of No. 2 Road lanes along the Project frontage with 12-foot travel lanes, 4-foot curb lanes, and 2-foot curb and gutter. Otherwise, design of the No. 2 Road improvements are subject to review and approval by Lake County.
 - D. Ingress and egress points at the western and eastern boundaries of the Property must also be provided, as shown on the Conceptual Land Use Plan. On the west the Project internal roads must connect to Silverwood Lane. On the east the internal roads must connect to Road DD shown on the Master

Site Plan for The Reserve at Howey-in-the-Hills PUD that is to be stubbed to the boundary of the Property. If for whatever reason the internal roads cannot be connected by the Owner to Silverwood Lane on the west or to Road DD in The Reserve on the east, the Owner must stub the Project roads to the Property boundary for future connection.

- E. Revels Road and the north-south Spine Road must be constructed in phases consistent with the phasing plan shown on the Conceptual Land Use Plan. Revels Road and the Spine Road must be public, dedicated to and maintained by the Town. Revels Road and the Spine Road must have a minimum 90-foot right-of-way, 2-foot curb and gutter, and a minimum 32-foot-wide pavement with minimum 12-foot travel lanes and 4-foot curb lanes.
- F. All other internal neighborhood roads must have a minimum 50-foot right-ofway, curb and gutter, and a minimum 24-foot-wide pavement with minimum 12-foot travel lanes, which may be reduced to 11-foot travel lanes when adjacent to on-street parking. All alley roads must have a minimum 24-foot right-of-way, curb and gutter, and a minimum 22-foot-wide pavement. Provision must be made in the rights-of-way for underground utilities.

2. Sidewalks and trails.

All portions of the development must be accessible by a direct, convenient, attractive, safe, and comfortable system of pedestrian facilities. The development must provide appropriate pedestrian amenities. A multimodal trail with minimum width of twelve feet must be constructed within each phase of the Project consistent with Conceptual Land Use Plan and the Town's bicycle/pedestrian plan. The multimodal trail and all sidewalks within rights-of-way must be dedicated to and will be maintained by the Town.

2. Intersection Improvements in Lieu of Proportionate Fair Share Mitigation

The Owner has offered, and the Town accepts the Owner's offer , (i) to undertake and complete at no cost to the Town the reconstruction of the intersection at Revels Road and State Road 19 as a roundabout facility, in return for (ii) the Town waiving its customary transportation-concurrency review and a proportionate fair-share payment by the Owner. The intersection and its design are subject to required approval and permits from the Florida Department of Transportation (FDOT).

The intersection construction must be complete before the issuance of the 51st residential building permit in Phase 2 of the Project.

If the Owner cannot obtain required state permits for an intersection roundabout, the Owner shall undertake and complete construction of the intersection with a traffic signal if allowed by FDOT. For either intersection type both Revels Road and State Road 19 must be constructed in the intersection as four-lane roads.

If the Owner obtains the required state permits for the roundabout intersection or, alternatively, the signalized intersection, the Town will be deemed to have waived its transportation-concurrency review. If the Owner cannot obtain required state permits for reconstruction of the intersection in either configuration, the Project must undergo transportation-concurrency review. The Owner must complete and submit for review prior to final development order a traffic-impact analysis.

If the results of the traffic-impact analysis require any mitigation for traffic generation, the Town and the Owner will work together and with any other applicable jurisdiction as required by applicable law to address such mitigation requirements through Owner's funding of its proportionate fair share of traffic improvements. Payment of the Owner's fair share must be made in pro-rata amounts upon the issuance of each building permit.

(k) **Schools**. The Project must apply for concurrency review at Lake County Public Schools. The school district has a specific application process. The Project must be shown to have appropriate school concurrency before building permits are issued.

(1) **Landscaping Requirements**. All landscaping and buffer requirements shall be in accordance with the LDC and as illustrated on the Conceptual Land Use Plan with the exception of the following:

- 1. All buffer, street, and canopy trees planted at the Project will be a minimum of a 2" caliper;
- 2. the Owner shall require homebuilders to plant at least one canopy tree for each single-family lot of at least 3" DBH; and
- 3. the developer will replace the equivalent of 30% of total tree-inches removed.

All trees planted at the Project shall adhere to the current guidelines established by the Florida Grades and Standards for nursery-grown trees and must be Florida grade #1 or better.

Developer must install street trees along each roadway where a common areaabuts the road as required by the LDC.

(m) **Tree Protection**. Under no circumstances may any tree, regardless of size or species, be removed from any designated wetland or conservation easement. Trees proposed to be maintained on-site must comply with LDC requirements. No construction activity, equipment or material is permitted inside a tree protection barrier.

(n) **Lighting**. Decorative street lighting (Sanibel fixture, a Duke Energy standard fixture) must be installed (i) at every intersection, (ii) at the end of each cul-de-sac, and (iii) at intervals of 300 feet or as approved otherwise by the Town Manager. Street lighting must be installed by the Owner. All lighting must be directional, shielded lighting designed to minimize light pollution. All lighting must be maintained by the HOA.

(o) **Utilities**. All utilities must be underground.

(p) **Signage**. Entrance signs and informational signage may be located in buffers, setbacks/and or signage easements as approved by the Planning and Zoning Board. Unless stated

otherwise in this Agreement all signage must comply with requirements and restrictions in the LDC. The Owner shall present a sign plan for review and approval by the Planning and Zoning Board with the final site plan for each phase of the Project.

The Owner and/or builder(s) may erect temporary vertical marketing flags, also known as feather banners, with the following stipulations:

- 1. Feather banners must be placed no less than 200 feet apart.
- 2. A maximum of 10 feather banners, in total.
- 3. Feather banners cannot be placed within the right of way.
- 4. Feather banners cannot be located offsite of PUD property.
- 5. Feather banners cannot exceed 12 feet in height.
- 6. Feather banners must be replaced or removed if they become faded, torn, or tattered.
- 7. Feather banners must be removed when 90% of the homes in the development have received building permit approval.

Billboards and pole signs are prohibited. Unless defined differently in the LDC, a pole sign is a permanent sign supported by at least one upright pole, pylon, or post secured to the ground, with the bottom of the sign face four feet or higher above the finished grade.

(q) **Maintenance of Common Areas**. Maintenance of each common area within the Project is the responsibility of the homeowners' association(s) for the affected subdivision.

(r) **Parks, Trails, and Open Spaces.** Each phase of the Project must include (i) the recreation and civic facilities for the phase and (ii) an integrated bicycle network that ties into the bicycle facilities in The Reserve PUD so as to loop the system to connect cyclists from both developments. Structures, facilities, and other improvements to be constructed and installed at the sites designated on the Conceptual Land Use Plan as parks, trails and open spaces must be included for review and approval as part of the final site plan approval for each phase or subdivision of each phase. Plans submitted must be in sufficient detail to provide reasonable understanding and certainty of the improvements, facilities, and uses to be made at each such site..

Section 2. Amendments. Amendments to the Conceptual Land Use Plan that occur after the effective date of this Agreement shall take effect only if and when approved by the Town Council or Town staff as applicable. Major amendments include material changes such as:

- changes to the location of individual land uses;
- any increase in the total number of residential units; and
- relocation and realignment of roads and routes for pedestrian and bicycle facilities.

Major amendments take effect only if approved by the Town Council in the manner required by law or otherwise as determined by Town Council, which may include public notice(s) and hearing(s).

Minor amendments shall include lesser changes such as:

- minor adjustments of roads, trails and pedestrian ways based on more detailed sitespecific data;
- modifications to the phasing schedule;
- adjustments to utility locations based on more detailed engineering data; or
- adjustments to parks and open space based on more detailed subdivision design.

Minor amendments may be approved by the Town Manager without referral to the Planning and Zoning Board or Town Council. Whether a proposed amendment is major or minor will be determined by the Town Manager. Minor amendments to the Conceptual Land Use Plan shall be deemed incorporated into this Agreement and shall modify or replace the Conceptual Land Use Plan in Attachment B to the extent of such amendment to the Conceptual Land Use Plan, without the necessity for an amendment to this Agreement.

Section 3. Notices. All notices or payments required to be made hereunder shall be made at the following addresses:

To Town:	Sean O'Keefe, Town Manager Town of Howey-in-the-Hills 101 North Palm Avenue Howey-in-the-Hills, FL 34737 <u>sokeefe@howey.org</u>
With copies to:	John Brock, CMC, Town Clerk Town of Howey-in-the-Hills 101 North Palm Avenue Howey-in-the-Hills, FL 34737 jbrock@howey.org
	Thomas J. Wilkes, Town Attorney Gray Robinson, P.A. 301 East Pine Street, Suite 1400 Orlando, FL 32801 <u>twilkes@gray-robinson.com</u>
To Owner:	Jason Humm 1170 Peachtree Street NE, Suite 1150 Atlanta, GA 30309 jhumm@turnstonegroup.com

With copies to:

Rhea Lopes, AICP RVI Planning + Landscape Architecture 10150 Highland Manor Dr, Suite 450 Tampa FL 33610 rlopes@rviplanning.com

Mike Ripley Land Advisors 399 Carolina Ave, Suite 200 Winter Park, Florida 32789 MRipley@landadvisors.com

Jonathan Huels Lowndes 215 North Eola Drive Orlando, Florida 32801 Jonathan.huels@lowndes-law.com

Section 4. Severability. If any provision or portion of this Agreement is declared by a court of competent jurisdiction to be void, unconstitutional, or unenforceable, then all remaining provisions and portions of this Agreement shall remain in full force and effect. To that end, this Agreement is declared to be severable.

Section 5. Binding Effect. This Agreement runs with the land and is binding on and enforceable by and against the parties hereto and all their successors in interest. However, no Lot Owner shall have the obligations imposed on the Owner as the developer of the Project under this Agreement. For that purpose, a "Lot Owner" means an end-user of a lot created within the Property with a completed residential unit constructed thereon, for which a certificate of occupancy has been issued. Each party covenants to each other party that this Agreement is a legal, valid, and binding agreement, enforceable against the party in accordance with its terms.

Section 6. Negotiated Agreement. The land uses, densities, intensities, and other conditions of approval of the Project have been negotiated and agreed to by the Owner and the Town. The Conceptual Land Use Plan and this Agreement together constitute an agreement between the parties with the knowledge that the Owner's successors in title, the future homeowners, and other landowners within the Property, as well as the Town and its affected property owners and residents, all will rely justifiably on the agreed-to land uses, densities, and intensities authorized hereby for the Property. For that reason, the Owner and the Owner's successors in interest have the contract right to develop the PUD with the uses, densities, and intensities approved by the Town, subject to the restrictions and requirements in the conditions of approval set forth in this Agreement. Neither the Owner (and its successors in interest) nor the Town shall have the right in the future to rezone or downzone the property, or otherwise alter the uses, densities and intensities and intensities and intensities, or delete, waive or amend any conditions of approval except through an amendment to the Plan negotiated and approved by the Town Council and the owner or owners of the then-

subject parcel or parcels. This section shall survive the termination and expiration of this Agreement.

Section 7. Homeowners' Association(s).

(a) **Association Responsibilities**. A homeowner's association and/or a property owner's association ("HOA") must be created by the Owner. Membership in the HOA shall be mandatory for all property owners within the Project. The HOA, not the Town, must maintain, repair, and replace all parks, open-space and buffer areas, streetlights, stormwater-management areas and drainage systems, entrance features, boundary walls and/or fences, access tracts, and landscaped tracts within the Project. The Town may opt, however, to undertake any such project of maintenance, repair, and replacement of those structures, facilities and systems. If the Town exercises its option, it may charge or assess either the HOA or its homeowners and property owners to recover the cost of the project.

(b) **Requirement for Plat Recording**. Before a plat may be recorded for the Property and the Project, the Owner shall furnish to the Town copies of the pertinent documents for the homeowners' or property owners' association or associations, which documents must contain the covenants, conditions and restrictions for the Property and must set forth the requirements and restrictions imposed on the HOA and its homeowners and property owners as enumerated in this section 7 and other applicable parts of this Agreement.

Section 8. Additional Requirements.

(a) **Letter of credit**. Construction and dedication to the Town of the public facilities and improvements required under this Agreement and the LDC for each phase of the Project is a condition precedent to final plat approval for such phase. In lieu of construction and dedication, however, the Owner may post a letter of credit or performance bond with the Town for 125% of the cost of such improvements not completed at the time of plat, in which event this condition precedent to final plat approval (but not the requirement to complete construction and to dedicate the public facilities and improvements required under this Agreement and the LDC) will be deemed satisfied.

(b) **Conveyances to the Town**. Property dedicated or otherwise conveyed to the Town under this Agreement must be free and clear of encumbrances unless and to the extent an encumbrance is acceptable to the Town. Encumbrances discovered after the Effective Date of this Agreement must be removed or resolved by the Owner or its successor developer prior to dedication or conveyance of the affected property to the Town.

(c) **Changes in status of land**. Until completion of the Project, the Owner or its successor developer of the Project has a continuing duty (i) to disclose promptly to the Town all changes in ownership, encumbrances, and other matters of record affecting the Property and (ii) to resolve all issues, title or otherwise, that may be identified by the Town as a result of such changes. Failure to disclose such changes or to resolve resulting issues may result in delay in issuance of building and other development permits.

(d) **Developer representations binding**. If at Town Council hearings on the approval of the Project the Owner makes a written or oral promise or representation, and if the

promise or representation was relied upon by Town Council in approving the Project or otherwise acted to induce or materially influence Town Council in its vote to approve the Project, the promise or representation is a condition of approval of the Project. The promise or representation is binding on the Owner and its successors and enforceable by the Town against the Owner and its successors as if set forth fully in this Agreement.

Section 9. Governing Law. This Agreement shall be governed by the laws of the State of Florida. Venue for any judicial proceeding pertaining to the Agreement shall be in the Fifth Judicial Circuit of Florida, in Lake County, Florida.

Section 10. Effective Date; Termination.

(a) **Effective Date**. This Agreement shall take effect upon the Effective Date above, or on the date when it has been executed by both the Town Council and the Owner, whichever is later.

(b) **Termination**. This Agreement shall remain in effect unless and until terminated under one of the following conditions:

1. If as of the second anniversary of the Effective Date of this Agreement an Owner's contract right to treatment and disposal services by the CDD or Wastewater Utility, as required under Section 1(g) above, has not taken effect, the Town may terminate this Agreement by vote of its Town Council. The vote must occur no later than (i) the third anniversary of the Effective Date or (ii) the CDD or Wastewater Utility Contract Date, whichever occurs first. The "Contract Date" is the date on which the Owner's contract right to treatment and disposal services by the CDD or Wastewater Utility takes effect.

2. If as of the second anniversary of the Contract Date no building permit for a residential unit in the Project has been issued, the Town may terminate this Agreement by vote of its Town Council. The vote must occur no later than (i) the third anniversary of the Contract Date or (ii) the date a building permit is issued, whichever occurs first.

3. If as of the fifth anniversary of the Contract Date no building permit for a residential unit in the second phase of the Project has been issued, the Town may terminate this Agreement by vote of its Town Council, but only as it applies to development of the second phase. The vote must occur no later than (i) the sixth anniversary of the Contract Date or (ii) the date a building permit is issued for a residential unit in the second phase, whichever occurs first. Termination of the Agreement for this reason will not act to preclude the Owner or its successor from completing the first phase of the Project.

4. If as of the tenth anniversary of the Contract Date no building permit for a residential unit in the third phase of the Project has been issued, the Town may terminate this Agreement by vote of its Town Council, but only as it applies to development of the third phase. The vote must occur no later than (i) the eleventh anniversary of the Contract Date or (ii) the date a building permit is issued for a residential unit in the third phase, whichever occurs first. Termination of the Agreement for this reason will not act to preclude the Owner or its successor from completing the first or second phase of the Project.

Termination of this Agreement, in whole or in part, under this section shall be without prejudice to the Owner or its successor to apply for Town approvals to undertake or continue development of the Property in light of the circumstances and subject to the landdevelopment regulations then existing in the Town.

Section 11. Recording. This Agreement shall be recorded by the Town, at the Owner's expense, in the Public Records of Lake County, Florida, and shall constitute a covenant running with the land.

Section 12. Authority. This Agreement is entered into by the Town under the home-rule powers granted to it by the Florida constitution (including specifically Article VIII, Section 2(b) thereof), the home-rule powers granted municipalities by statute (including specifically Chapter 166, Florida Statutes), and the Town's Charter. This Agreement does not constitute a "development agreement" under the Florida Local Government Development Agreement Act.

Section 13. Entire Agreement. This Agreement constitutes the entire agreement of the parties with respect to the transactions contemplated herein. It supersedes all prior understandings or agreements between the parties relating to the Property and the Project. No amendment to the terms of this Agreement shall be effective unless in writing signed by all parties hereto. Amendments to this Agreement will take effect and will be binding against the Town only if approved by a vote of the Town Council.

Section 14. Waiver. The failure of a party hereto to insist upon or enforce any right or privilege granted hereunder shall not constitute or operate as a waiver thereof and nothing shall constitute a waiver of any party's right to insist upon strict compliance with the terms hereof. However, any party may waive in writing the benefit of any provision or condition for its benefit which is contained herein. Waivers of material provisions of either this Agreement or the Town's LDC will be valid and binding against the Town only if approved by a vote of the Town Council.

[Signature pages follow]

IN WITNESS WHEREOF, the parties are signing this Agreement as of the Effective Date or, if later, the date by which both parties have fully executed this Agreement.

TOWN OF HOWEY-IN-THE-HILLS, FLORIDA

By: its Town Council

By:

Hon. Martha McFarlane, Mayor

Attest:

By:

John Brock, CMC, Town Clerk

Approved as to form and legality: (for the use and reliance of the Town only)

Thomas J. Wilkes, Town Attorney

STATE OF FLORIDA COUNTY OF LAKE

The foregoing instrument was executed, sworn to and acknowledged before me this ______ day of _______, 2024, by Martha McFarlane, personally known to me to be the Mayor of the Town of Howey in the Hills.

(SEAL)

Signature of Notary

Name of Notary Public (Typed, Printed or stamped)

Signed, sealed and delivered in the presence of:

Draft – 02-14-2024 Item 3.

WITNESSES

Printed Name		
Finited Name.		ASF TAP FL I, LLC , a Delaware limited liability company
		By: Printed Name:
		As its:
Printed Name:		
STATE OF FLO		
COUNTY OF _		
by means of	physical presence or	as executed, sworn to and acknowledged before me online notarization, this day of
	2024, Uy	, as of liability company, on its behalf.

(SEAL)

Signature of Notary Public

Name of Notary Public (Typed, Printed or stamped)

Personally Known _____ OR Produced Identification _____

(Type of Identification Produced)

Attachment A To MISSION RISE PUD DEVELOPMENT AGREEMENT

LEGAL DESCRIPTION

Attachment B To MISSION RISE PUD DEVELOPMENT AGREEMENT

CONCEPTUAL LAND USE PLAN

Including the following graphics:

- 1. Conceptual Plan;
- 2. Phasing Plan;
- 3. Parks, Trails & Open Space Plan;
- 4. Non-Residential Areas;
- 5. Buffer Typicals;
- 6. Street Cross Sections; and
- 7. Lot Fit.

[insert Conceptual Land Use Plan]

#52338764 v3

ORDINANCE NO. 2024 - 001

AN ORDINANCE OF THE TOWN OF HOWEY-IN-THE-HILLS, FLORIDA, PERTAINING TO LAND USE; REZONING FOUR PARCELS OF LAND LOCATED GENERALLY IN THE SOUTHWEST PART OF THE TOWN AND COMPRISING THE PROPOSED PLANNED UNIT **DEVELOPMENT TO BE KNOWN AS "MISSION RISE" ON AN L-**SHAPED AGGREGATE OF ABOUT 243.3 ACRES WEST AND SOUTH OF THE DEVELOPMENT KNOWN AS "THE RESERVE AT HOWEY-IN-THE-HILLS" (NOW ALSO KNOWN AS "HILLSIDE GROVES"), WITH PART OF THE LANDS BEING SOUTH OF NUMBER TWO ROAD AND EAST OF SILVERWOOD LANE AND OTHER PARTS OF THE LAND BEING WEST OF STATE ROAD 19 AND SOUTH OF REVELS **ROAD, THE FOUR PARCELS BEING IDENTIFIED WITH LAKE** COUNTY PROPERTY APPRAISER ALTERNATE KEY NUMBERS 1780616, 1780811, 1030421, AND 3835991; AMENDING THE TOWN'S ZONING MAP TO APPROVE PLANNED-UNIT-DEVELOPMENT (PUD) ZONING FOR THE PARCELS; PROVIDING FINDINGS OF THE TOWN **COUNCIL: APPROVING PUD ZONING FOR THE PARCELS, WITH** DEVELOPMENT TO BE GOVERNED BY A DEVELOPMENT AGREEMENT AND A REVISED CONCEPTUAL LAND USE PLAN AND BY THE TOWN'S LAND DEVELOPMENT CODE AND OTHER TOWN **ORDINANCES GOVERNING THE DEVELOPMENT OF LAND;** REPEALING PRIOR ORDINANCES AND SUPERSEDING **CONFLICTING ORDINANCES; PROVIDING FOR SEVERABILITY,** CODIFICATION AND AN EFFECTIVE DATE.

BE IT ORDAINED BY THE TOWN COUNCIL OF THE TOWN OF HOWEY-IN-THE-HILLS, FLORIDA:

Section 1. Findings. In enacting this ordinance, the Town Council of the Town of Howey-in-the-Hills, Florida declares the following findings, purposes, and intent:

A. Approximately 243.3 acres of land more specifically described in **Attachment A** and generally located in southwest Howey-in-the-Hills on an L-shaped group of lands west and south of the land development known as "The Reserve at Howey-in-the-Hills (now also known as "Hillside Groves"), with part of the subject lands being south of No. 2 Road and east of Silverwood Lane and other parts of the

Item 3.

subject lands being west of State Road 19 and south of Revels Road (**Property**), are currently designated on the Future Land Use Map of the Town's Comprehensive land for Village Mixed Use. Planned Unit Development (**PUD**) zoning is required to develop land designated for Village Mixed Use.

- B. The current PUD zoning was approved by Town Council through the enactment of Ordinances 2005-353, 2005-354, 2005-355, 2005-356, and 2005-357 and by that certain Mission Rise Developer's Agreement between the Town and the thenowners, Richard H. Langley and Roxbury Ventures, LLC, dated February 6, 2007. No development occurred on the Property under those 2005 ordinances and the 2007 development agreement. The current PUD zoning and the 2007 development agreement have both expired under the terms of the development agreement.
- C. The owners of the Property have applied for PUD zoning to develop the Property with a mix of single-family residential, institutional, and recreational land uses in a Planned Unit Development to be known as "Mission Rise." The Owners have requested Town Council approval of the PUD zoning subject to a new Development Agreement in the form in **Attachment B**, including its conceptual land use plan for the Property.
- D. The Town Council has determined that approval of the PUD zoning on the Property as requested by the owners and subject to the requirements and restrictions of the Development Agreement would be consistent with the Town's Comprehensive Plan and the Town's Land Development Code (**LDC**) and will not adversely affect the public health, safety, and welfare of the Town.

Section 2. Amendment of the Official Zoning Map. The Town Council hereby approves the PUD – planned unit development zoning for the Property. Development and use of the Property under its PUD zoning is subject to the conditions, requirements, restrictions, and other terms of the following:

- A. This Ordinance 2024-001. Ordinances 2005-353, 2005-354, 2005-355, 2005-356, and 2005-357 are repealed.
- B. The Development Agreement for Mission Rise PUD between the Town and ASF TAP FL I, LLC (**Owner**). The Development Agreement is approved for execution and delivery by the Mayor and Town Clerk in the form and substance contained in Attachment B, subject to such changes, if any, approved by Town Council. The Mission Rise Developer's Agreement dated February 6, 2007, is

rescinded and superseded in its entirety by the Development Agreement approved hereby.

- C. The Town's Land Development Code.
- D. All other Town ordinances governing the development of land.

Section 3. Severability. If any part of this ordinance is declared by a court of competent jurisdiction to be void, unconstitutional, or unenforceable, the remaining parts of this ordinance shall remain in full effect. To that end, this ordinance is declared to be severable.

Section 4. Conflicts. In a conflict between this ordinance and other existing ordinances, this ordinance shall control and supersede.

Section 5. Codification. The PUD zoning for the Property, as approved in Section 2, may be codified and made part of the Town's Official Zoning Map.

Section 6. Effective Date. This ordinance shall take effect upon the later of (i) its enactment by the Town Council or (ii) the date on which the Development Agreement in Attachment B takes effect.

ORDAINED AND ENACTED this _____ day of _____, 2024, by the Town Council of the Town of Howey-in-the-Hills, Florida.

TOWN OF HOWEY-IN-THE-HILLS, FLORIDA

By: its Town Council

By:____

Hon. Martha MacFarlane, Mayor

ATTEST:

APPROVED AS TO FORM AND LEGALITY:

(for the use and reliance of the Town only)

John Brock, Town Clerk

Thomas J. Wilkes, Town Attorney

Planning and Zoning hearing held _____, 2023 First Reading held _____, 2024

Second Reading and hearing held _____, 2024

Advertised _____, 202__

ATTACHMENT A

Legal Description of the Property

Lake County Property Appraiser Alternate Key No.'s:

1780616, 1780811, 1030421, and 3835991

CONTAINING 243.3± ACRES

[insert legal description]

ATTACHMENT B

Mission Rise PUD Development Agreement

[insert form of development agreement]

#52366265 v2

MISSION RISE

Project № 23017.1, v1.3 October 2023

TRAFFIC IMPACT ANALYSIS TOWN OF HOWEY-IN-THE HILLS FLORIDA



101 Maguire Boulevard, Suite 265 Orlando, Florida 32803 www.trafficmobility.com (407) 531-5332

Prepared for: ASF TAP Florida I, LLC 1170 Peachtree Street Northeast, Suite 1150 Atlanta, Georgia 30309

EXECUTIVE SUMMARY

Project Information Name:	Mission Rise
Location:	West of SR 19 (South Palm Avenue), east of Silverwood Lane, and south of Number 2 Road in the Town of Howey-in-the-Hills, Lake County, Florida
Description:	499 Single Family Residential Units
Access Plan:	One (1) full access at the intersection of Number 2 Road and Spine Road One (1) full access at the intersection of SR 19 and Revels Road One (1) full access at the intersection of Revels Road and Orange Blossom Road (expected to carry limited traffic)
Findings	
Trip Generation:	4,428 Daily Trips / 322 AM Peak Hour Trips / 451 PM Peak Hour Trips
Roadway Capacity:	The segments of SR 19, from Lane Park Road to Central Avenue and from CR 455 to CR 478 are projected to operate over their capacities at the project buildout.
Intersection Capacity	The intersections of SR 19 and CR 48, SR 19 and Central Avenue, SR 19 and Revels Road, and SR 19 and CR 455 are projected to experience delays in the buildout condition. The project does not have a significant impact on the intersections.
Recommendations Intersection Improvements:	Retime the signal or construct a roundabout at the intersections of SR 19 and CR 48 to maintain LOS standards.
	Provide traffic signals on SR 19 at Central Avenue, Revels Road, and CR 455 to maintain LOS standards. A signal warrant analysis is recommended and should be provided in separate reports.
	Construct a 430-foot northbound left turn lane and a 405-foot southbound right turn lane at the intersection of SR 19 and Revels Road.
	Construct a 655-foot westbound left turn lane and a 420-foot eastbound right turn lane at the intersection of Number 2 Road and Spine Road.



Mission Rise Traffic Impact Analysis Project № 23017.1, v1.3 Executive Summary

PROFESSIONAL ENGINEERING CERTIFICATION

I hereby certify that I am a Professional Engineer properly registered in the State of Florida practicing with Traffic & Mobility Consultants LLC, a corporation authorized to operate as an engineering business, CA-30024, by the State of Florida Department of Professional Regulation, Board of Professional Engineers, and that I have prepared or approved the evaluations, findings, opinions, conclusions, or technical advice attached hereto for:

PROJECT:	Mission Rise
LOCATION:	Town of Howey-in-the-Hills, Florida
CLIENT:	ASF TAP Florida, LLC

I hereby acknowledge that the procedures and references used to develop the results contained in these computations are standard to the professional practice of Transportation Engineering as applied through professional judgment and experience.



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY
Charlotte N
Digitally signed by
Charlotte N Davidson
Date: 2023.10.18 13:47:46
-04'00'
ON THE DATE ADJACENT TO THE SEAL

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

TRAFFIC & MOBILITY CONSULTANTS LLC 3101 MAGUIRE BOULEVARD, SUITE 265 ORLANDO, FLORIDA 32803 CERTIFICATE OF AUTHORIZATION CA-30024 CHARLOTTE N. DAVIDSON, P.E. NO 50725

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Mission Rise Traffic Impact Analysis Project № 23017.1, v1.3 Table of Contents, Page i

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Mission Rise Traffic Impact Analysis Project № 23017.1, v1.3 Table of Contents, Page ii

1.0 INTRODUCTION

This Traffic Impact Analysis (TIA) was conducted to assess the impact of the proposed Mission Rise development in the town of Howey-in-the-Hills, Florida. The proposed development consists of 499 single-family units with an anticipated buildout year of 2033. This study conforms to the Tier 2 TIA requirements of the Town of Howey-in-the-Hills and Lake County. The analysis was prepared in accordance with the approved methodology. The study has been updated to incorporate comments received from the Town of Howey-in-the-Hills. The methodology and the response to comments letter are included in **Appendix A**.

The site is located east of Silverwood Lane, west of SR 19 (South Palm Avenue), and south of Number 2 Road. **Figure 1** depicts the site location and the surrounding transportation network.

The development will be accessed via the intersections of Number 2 Road and Spine Road (future road), SR 19 and Revels Road, and Revels Road and Orange Blossom Road. The preliminary development site plan is provided in **Appendix B**.

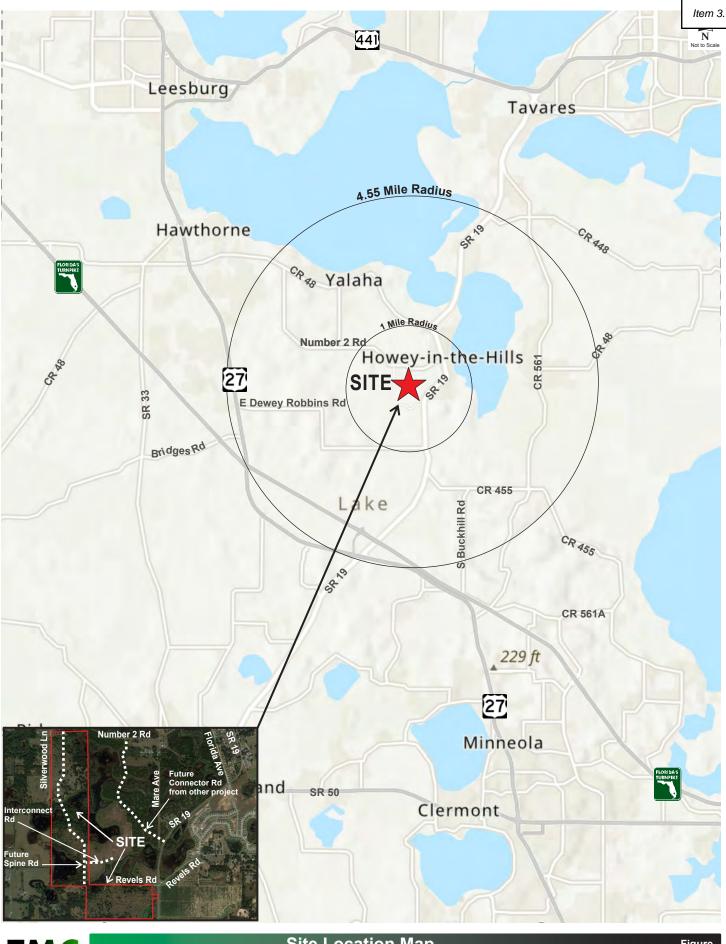
Data used in the analysis consisted of site plan/development information provided by the project engineers, AM and PM peak hour intersection traffic counts obtained by Traffic & Mobility Consultants LLC, FDOT's *2023 Multimodal Quality/Level of Service (MQ/LOS) Handbook* and roadway capacities obtained from the *2022 Lake County Congestion Management Process (CMP) Database*.

1.1 Study Area

The project study area was established based on the standard requirements of the Lake Sumter Metropolitan Planning Organization (LSMPO) methodology and the Town of Howey-in-the-Hills *Land Development Code (LDC)*. In accordance with the requirements of Tier 2 TIA methodology, the impact area includes roadway segments and intersections within a 4.55-mile radius of the site in addition to roadways where the development traffic is expected to consume 5% or more of their adopted Level of Service (LOS) capacities. The roadway segments characteristics were obtained from the *2022 Lake County Congestion Management Process (CMP) Database* and 2023 *FDOT Multimodal Quality/Level of Service (Q/LOS) Handbook Appendix B*, included in **Appendix C**. The project study area determination is provided in **Table 1**, as determined in the approved methodology.



Mission Rise Traffic Impact Analysis Project № 23017.1, v1.3 Page 1





Site Location Map Mission Rise 23017.1, v1.3

Table 1 Study Area

					- ·				Dro	iaat			
		No	Area	Median	Speed Limit	LOS Std	Pk Dir	D:		ject Tring	Within	%	In
Roadway Segment CR 455	SEG ID	Lns	Туре	Туре	Limit	510	Сар	Dir	Dist	Trips	1-Mile? **	Сар	Study?
SR 19 to	1				1			ΓР		17		2.20/	
CR 561	950	2	R	Undivided	45	С	740	EB WB	10%	17 28	NO	2.3%	NO
CR 561 to												2.0%	
CR 561A	960	2	R	Undivided	25	С	410	EB WB	5%	8 14	NO	3.4%	NO
CR 48								VVD		14		3.4 %	
US 27 to					1			EB		43		4.0%	
Lime Ave	1240	2	U	Undivided	40	D	1,080	WB	15%	43 25	NO	2.3%	NO
Line Ave										25 6		0.6%	
SR 19	1250	2	U	Undivided	40	D	1,080	EB WB	2%	3	NO	0.8%	NO
CR 561 to										-			
	1260	2	U	Undivided	40	D	840	EB	3%	5 9	NO	0.6%	NO
Ranch Rd								WB		-		1.1%	
Ranch Rd to	1270	2	R	Undivided	40	С	410	EB	3%	5	NO	1.2%	NO
CR 448A								WB		9		2.2%	
CR 561	1	1	r		1							0.00/	
CR 448 to	1410	2	U	Undivided	50	D	1,080	NB	0%	0	NO	0.0%	NO
CR 48							-	SB		0		0.0%	
CR 48 to	1420	2	U	Undivided	40	D	620	NB	3%	9	NO	1.5%	NO
South Astatula City Limit								SB		5		0.8%	
South Astatula City Limit	1430	2	υ	Undivided	40	D	1,080	NB	3%	9	NO	0.8%	NO
to CR 455			-	-	-		,	SB	-	5		0.5%	_
CR 455 to	1440	2	R	Undivided	35	С	470	NB	2%	6	NO	1.3%	NO
Howey Cross Rd						_		SB		3		0.6%	
Howey CRoss Rd to	1450	2	R	Undivided	40	С	640	NB	2%	6	NO	0.9%	NO
Turnpike Rd / CR 561A		-		onanaoa		Ũ	0.0	SB	270	3		0.5%	
SR 19													
Lane Park Rd to	3040	2	υ	Undivided	55	D	920	NB	23%	38	NO	4.1%	YES
CR 48	00.0	_		onunaou		-	020	SB	2070	65		7.1%	
CR 48 to	3050	2	υ	Undivided	40	D	700	NB	25%	42	NO	6.0%	YES
Central Ave	0000	-	0	onamada	10	5	100	SB	20%	71	No	10.1%	
Central Ave to	3060	2	U	Undivided	35	D	1,200	NB	50%	142	YES	11.8%	YES
CR 455	0000	2	0	Onamaca	00	0	1,200	SB	00 /0	84	120	7.0%	120
CR 455 to	3070	2	R	Undivided	55	С	450	NB	35%	99	NO	22.0%	YES
US 27 / SR 25	0010	2		Onamaca	00	Ŭ	400	SB	00 /0	58	No	12.9%	120
US 27 / SR 25	3080	2	R	Undivided	55	С	450	NB	20%	57	NO	12.7%	YES
to CR 478	0000	2	IX.	Onamaca	00	Ŭ	400	SB	2070	33	No	7.3%	120
SR 91 (Florida Turnpike)													
US 27/SR 25 to	3566	4	U	Freeway	70	в	2,230	EB	10%	17	NO	0.8%	NO
US 27/SR 25/SR 19 Interchange	3300	4	0	Treeway	70	Б	2,230	WB	10 /0	28	NO	1.3%	NO
US 27/SR 25													
SR 19 to	3830	4	U	Divided	55	D	3,280	EB	15%	25	NO	0.8%	NO
CR 561	3030	4	0	Divided	55	D	3,200	WB	1370	43	NO	1.3%	NO
Central Ave													
SR 19 to	N1/A	0		Line allowed as all	00	5	770 *	EB	400/	17	VEO	2.2%	VEO
Mare Ave	N/A	2	U	Undivided	30	D	770 *	WB	10%	28	YES	3.6%	YES
Number 2 Rd	-	•						•		· · ·		•	·
Mare Ave to	N1/A	<u>^</u>		المعالية فالمالي	20		700 *	EB	050/	58	VEO	7.9%	VEO
Silverwood Ln	N/A	2	U	Undivided	30	D	730 *	WB	35%	99	YES	13.6%	YES
Silverwood Ln to						_		EB	4 = 0 /	25		3.4%	
CR 48	N/A	2	U	Undivided	45	D	730 *	WB	15%	43	YES	5.9%	YES
Source: 2022 Lake County CMP Data	1	1			1	1				.0		0.070	

Source: 2022 Lake County CMP Database

*2023 FDOT Multimodal Quality/Level of Service Handbook, Appendix B: Florida's Generalized Service Volume Tables

Bold numbers represent capacity equal or higher than 5%.



Based on the study area analysis presented in **Table 1**, the following roadway segments were analyzed for the PM peak hour:

- SR 19
 - o Lane Park Road to CR 48
 - o CR 48 to Central Avenue
 - o Central Avenue to CR 455
 - \circ $\,$ CR 455 to US 27 / SR 25 $\,$
 - o US 27 / SR 25 to CR 478
- Central Avenue
 - o SR 19 to Mare Avenue
- Number 2 Road
 - Mare Avenue to Silverwood Lane
 - o Silverwood Lane to CR 48

The following intersections were analyzed for the AM and PM peak hours:

- SR 19 and CR 48 (Signalized)
- SR 19 and Central Avenue (Unsignalized)
- Central Avenue and South Florida Avenue (Unsignalized)
- SR 19 and Revels Road (Unsignalized) (East Project Access)
- SR 19 and CR 455 (Unsignalized)
- Spine Road and Interconnect Road (Proposed)
- Number 2 Road and Spine Road (North Project Access) (Proposed)
- Revels Road and Spine Road (Proposed)
- Revels Road and Orange Blossom Road (South Project Access)



2.0 EXISTING CONDITIONS ANALYSIS

Existing conditions in the vicinity of the site were analyzed to establish a baseline for the traffic conditions prevailing in the vicinity of the proposed development. The analysis included a review of existing roadway segment capacity and analysis of the intersection operations at the study intersections.

2.1 Roadway Segment Capacity

Existing roadway conditions were analyzed by comparing the existing traffic volumes within the study area and the adopted level of service (LOS) standards for the roadway segments. **Table 2** summarizes the roadway segment capacity analysis.

Roadway Segment	Seg ID	No Lns	LOS Std	Pk Dir Cap	Dir	Existing Vol	LOS	V/C	Deficient?
*Central Ave	0								
SR 19 to Mare Ave	N/A	2	D	530	EB	57	С	0.11	NO
SR 19 to Mare Ave	IN/A	2	D	550	WB	59	С	0.11	NO
SR 19									
Lane Park Rd to CR 48	3040	2	D	920	NB	610	С	0.66	NO
	3040	2	D	920	SB	656	С	0.71	NO
CR 48 to Central Ave	3050	2	D	700	NB	433	С	0.62	NO
CR 40 to Central Ave	3030	2	D	700	SB	372	С	0.53	NO
Central Ave to CR 455	3060	2	D	1,200	NB	433	В	0.36	NO
Central Ave to CK 455	3000	2	D	1,200	SB	372	33 B 0.36 72 B 0.31	NO	
CR 455 to US 27 / SR 25	3070	2	с	450	NB	507	D	1.13	YES
CR 455 10 05 27 / SR 25	3070	2	C	430	SB	435	С	0.97	NO
US 27 / SR 25 to CR 478	3080	2	С	450	NB	466	D	1.04	YES
03 21 / SR 23 10 CR 478	3060	2		450	SB	519	D	1.15	YES
Number 2 Rd									
Mare Avenue to Silverwood Ln	N/A	2	D	400	EB	57	С	0.14	NO
IVALE AVENUE LO SIIVEI WOOD LIT	IN/A	2	U	400	WB	59	С	0.15	NO
Silverwood Ln to CR 48	N/A	2	D	400	EB	57	С	0.14	NO
	IN/A	2	U	400	WB	59	С	0.15	NO

Table 2Existing Roadway Segment Capacity Analysis

Source: 2022 Lake County CMP Database

* Counts were obtained from PM Peak Turning Movement Counts

**A reduction of 25% was applied to the Peak Hour Directional Capacity of 530, as Number 2 Road is a substandard road

The analysis indicates that all study roadway segments currently operate adequately within their capacities except the segments of SR 19 from CR 455 to CR 478 which currently operate over capacity.



Mission Rise Traffic Impact Analysis Project № 23017.1, v1.3 Page 5

2.2 Intersection Capacity

The intersection capacity analysis was performed for the AM and PM peak hour periods. The capacity analysis was performed using *Synchro* and the methods of the *Highway Capacity Manual (HCM)*. Turning movement volumes obtained during the AM and PM peak hour are displayed in **Figure 2** and **Figure 3**, respectively. The counts at SR 19 and CR 455 were collected on January 24, 2023, which coincides with a seasonal factor of 1.0. The remaining intersection turning movement counts were collected on July 19, 2023, during the off-peak season; therefore, a seasonal factor of 1.06 was applied to these counts. The turning movement counts and the seasonal factor report are included in **Appendix D**.

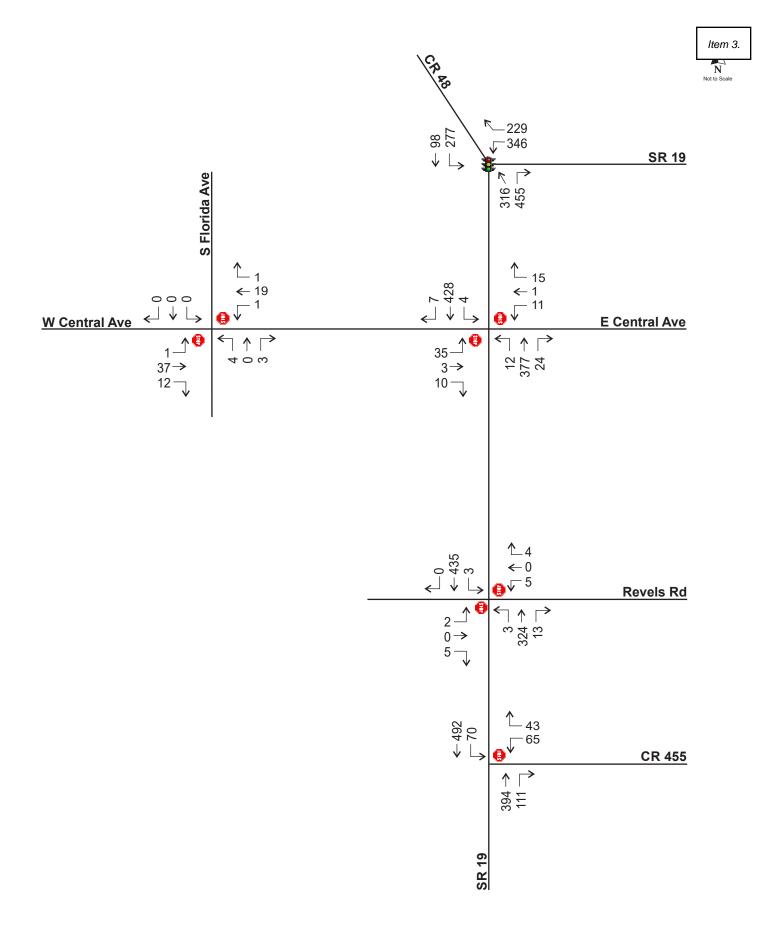
The results of the intersection capacity analysis, summarized in **Table 3**, reveal that all study intersections are currently operating at adequate LOS. Detailed *HCM* analysis worksheets are included in **Appendix E**.

Intersection	Traffic	Time EB		WB		NB		SB		Overall		
Intersection	Control	Period	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS
SR 19 & CR 48	Signal	AM			50.7	D	20.3	С	11.2	В	29.5	С
SK 19 & CK 40	Signal	PM			87.5	F	17.1	В	10.7	В	55.7	E
SR 19 & Central Ave	TWSC	AM	20.7	С	15.1	С	8.9	А	8.8	А		
SR 19 & Central Ave	10030	PM	22.6	С	17.9	С	9.0	А	8.8	А		
W Central Ave & S Florida Ave	TWSC	AM	7.3	Α	7.3	Α	8.8	Α	0.0	Α		
VV Celitiai Ave & S Fiolida Ave	10030	PM	0.0	Α	7.3	Α	8.8	Α	9.4	Α	-	
SR 19 & Revels Rd	TWSC	AM	13.3	В	15.0	С	8.3	Α	8.0	Α	-	
SK 19 & Reveis Ru	10030	PM	14.0	В	16.1	С	8.1	Α	8.2	Α		
SR 19 & CR 455	TWSC	AM			25.1	D			8.9	Α		
SK 19 & UK 400	10050	PM			26.7	D			9.0	А		

Table 3Existing Intersection Capacity Analysis

Average delay is in seconds

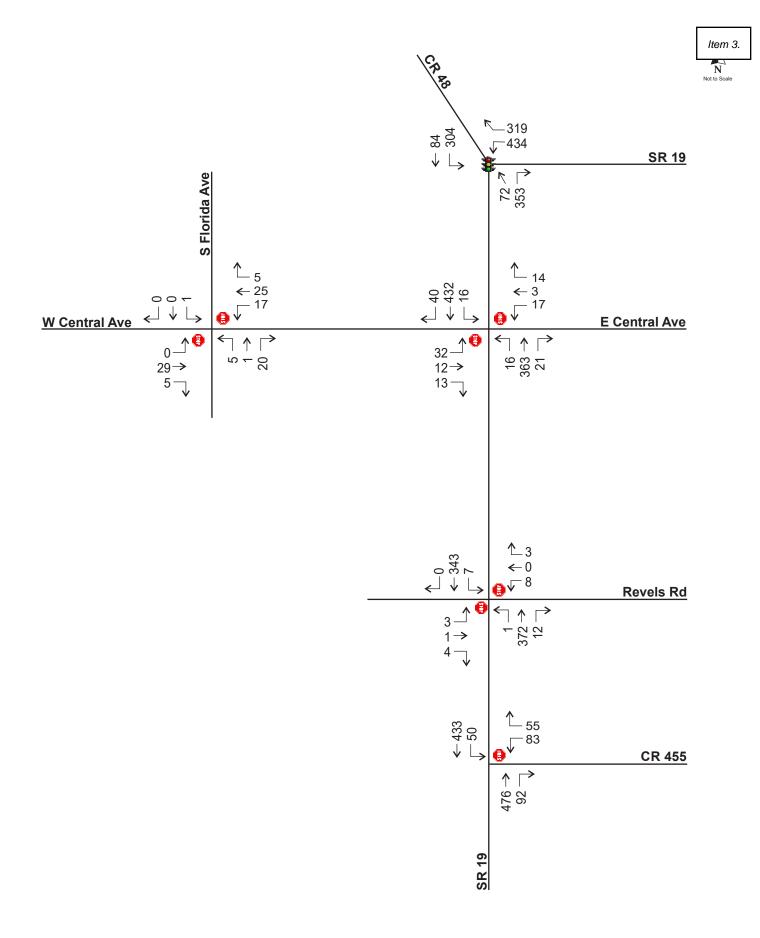






Existing AM Peak Hour Intersection Volumes Mission Rise 23017.1, v1.3









3.0 PROJECT TRAFFIC

3.1 Trip Generation

The Trip Generation Analysis was conducted using the Institute of Transportation Engineers (ITE) *Trip Generation Manual, 11th Edition.* The ITE Information sheets are included in **Appendix F**. **Table 4** summarizes the resulting trip generation analysis.

Table 4 Trip Generation Analysis

ΠE			Daily		AM Peak Hour				PM Peak Hour			
Code	Land Use	Size	Rate	Trips	Rate	Total	Enter	Exit	Rate	Total	Enter	Exit
	Single Family Residential (Detached)	499 DU	8.87	4,428	0.64	322	81	241	0.90	451	284	167

Trip Generation analysis based on ITE Trip Generation Manual, 11th Edition.

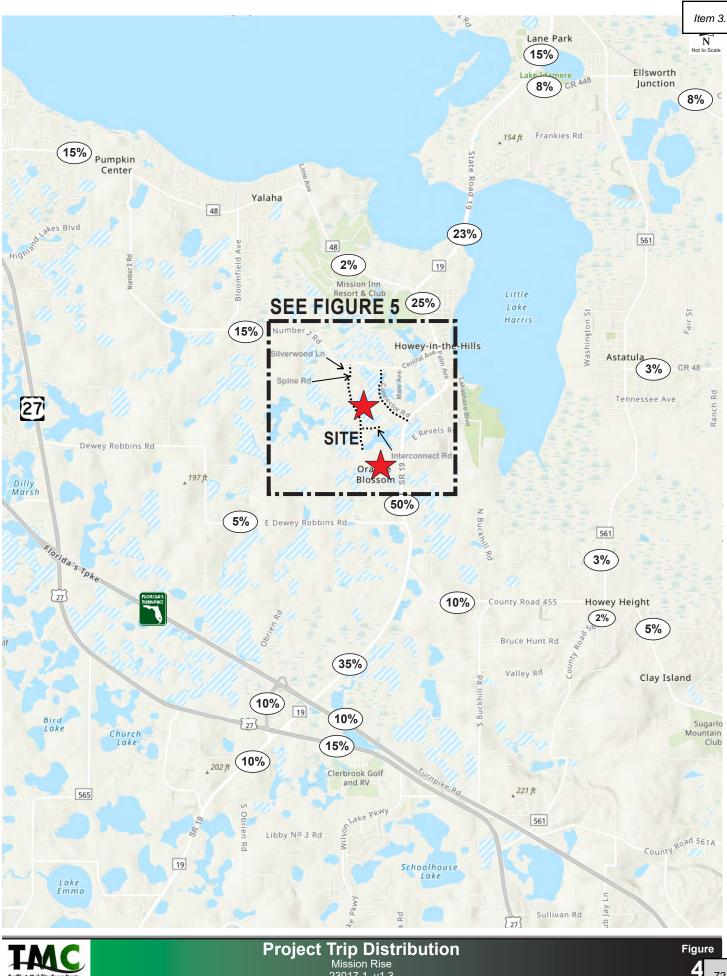
The proposed development is projected to generate 4,428 new daily trips, of which 322 trips occur during the AM peak hour and 451 trips occur during the PM peak hour.

3.2 Trip Distribution

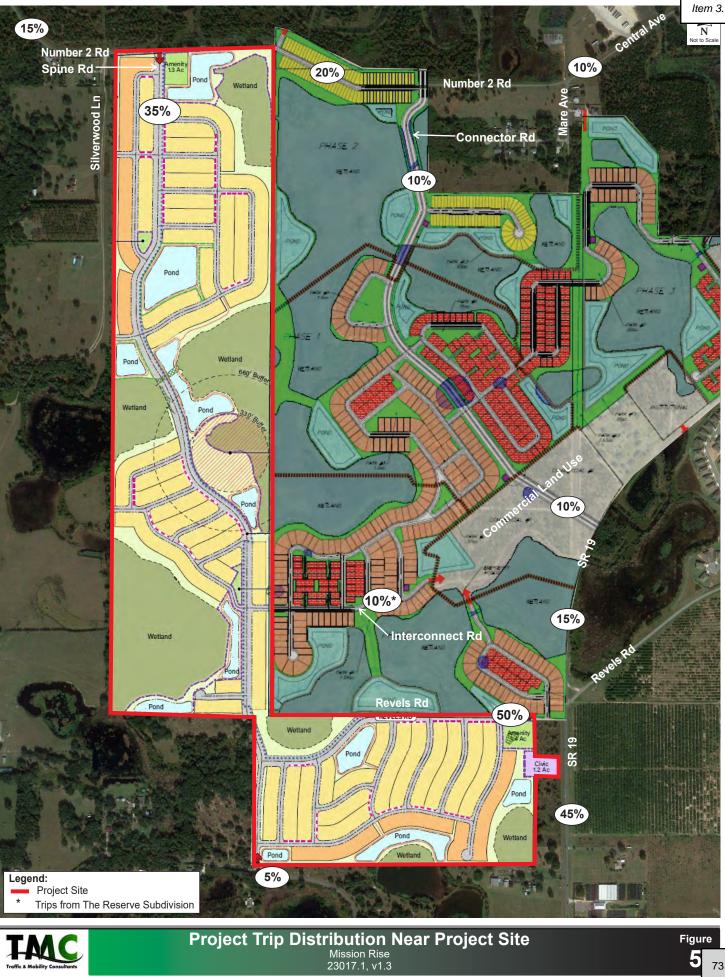
A trip distribution pattern was developed using the *Central Florida Regional Planning Model (CFRPMv7)*. The model distribution was slightly adjusted based on local knowledge, professional engineering judgement, and the location of the development with respect to the study area attractions and activity centers to reflect the prevailing travel patterns in the study area and the surrounding transportation network. The raw model plots are provided in **Appendix G**, and the project trip distribution pattern is shown in **Figure 4**. Detailed trip distribution near the project site is shown in **Figure 5**.



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23017.1, v1.3



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4.0 PROJECTED CONDITIONS ANALYSIS

An analysis of projected conditions was conducted to determine the impact of the proposed development on the roadway segments capacity, as well as the proposed access connections and intersections to the site. The project buildout year for the analysis is 2033.

4.1 Planned and Programmed Improvements

The Lake-Sumter Metropolitan Planning Organization (LSMPO) 2023-2027 Transportation Improvement Program (TIP), as well as LSMPO 2022 List of Priority Projects (LOPP) were reviewed to identify any planned or programmed improvements to the transportation facilities in this area. The improvements are listed in **Table 5**. Construction is not planned to be completed within the next three (3) years for either improvement. Excerpts from the LSMPO TIP and LSMPO LOPP are provided in **Appendix H**.

FM #	Project Name	From	То	Proposed Phase	Proposed Phase FY	Description of Improvement
2383191	SR 19 *	CR 48	CR 561	PDE-PE-ENV	2023	Add Lanes & Reconstruct
238319-1	SR 19 **	Howey Bridge	CR 561	-	-	Road Widening

Table 5Planned and Programmed Improvements

* LSMPO TIP Fiscal Year 2023-2027

** LSMPO 2022 LOPP Tier 2 project

4.2 Background Traffic Projection

Projected traffic includes background traffic volumes, the project trips, and committed trips. Projected background traffic for the buildout year of 2033 was estimated by applying the growth rates obtained from *2022 Lake County CMP Database* to the existing traffic volumes. A minimum of 2% annual growth rate was applied to existing traffic volumes for which published annual growth rates are below 2%. The committed trips for the following approved developments within the study area are included in **Appendix I**:



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- Whispering Hills
- Talichet Phase 1 and Phase 2
- The Reserve at Howey in the Hills
- Lake Hills (Four Seasons). Trips were estimated based on the trip generation analysis and the trip distribution obtained from the methodology.
- Watermark (Simpson)

4.3 Roadway Segment Capacity

Projected roadway conditions were analyzed by comparing the projected traffic volumes on the study segments to their service volumes and adopted LOS standards. The total projected traffic volume is composed of background traffic, vested trips and project trips. **Table 6** summarizes the roadway segment capacity analysis, which reveals the following:

- SR 19 from Lane Park Road to Central Avenue and from CR 455 to CR 478 are projected to operate over their capacities due to background traffic.
- All remaining roadway segments are projected to continue to operate adequately at project buildout.

Roadway Segment Capacity Analysis with Recommended Mitigation

Number 2 Road is a substandard road with reduced capacity. It is projected to operate at an acceptable LOS; however, operational safety is a concern due to its narrow width. Lake County would need to improve it in the future to achieve safety.

SR 19 from CR 48 to CR 561 is programmed in the *TIP* to be widened to four (4) lanes. The roadway segment capacity analysis reveals that the widening of SR 19 to 4-lanes is projected to improve the capacity of the segment from Lane Park Road to CR 48. The segments of SR 19 from CR 48 to Central Avenue and from CR 455 to CR 478 would need to be widened to 4-lanes to achieve acceptable LOS conditions at project buildout, as summarized in **Table 7**.



				Proje	ected F	Roadwa	ay Segn	nent Ca	pacity A	Analysi	S						
gment	No Lns	LOS Std	PH Dir Capacity	Dir	Exist Vol	Growth Rate	2033 Backg'd	Vested Trips	Total Backg'd Volume	Backg'd LOS	•		_	-	Total Volume		Final V/C
Ave	2	D	530	NB/EB SB/WB	57 59	2.00%	70 72	53 85	123 157	C C	0.23 0.30	10%	OUT IN	17 28	140 185	C C	0.26 0.35
to CR 48	2	D	920	NB/EB SB/WB	610 656	2.00%	744 800	125 264	869 1,064	C F	0.94 1.16	23%	OUT IN	38 65	907 1,129	D F	0.99 1.23
					400		F00	000	704		4 4 0		OUT	40	000		4 4 0

Table 6

Roadway Segment	Lns	Std	Capacity	Dir	Vol	Rate	Backg'd	Trips	Volume	LOS	V/C	Distr	Dir	Volume	Volume	LOS	V/C
*Central Ave																	
SR 19 to Mare Ave	2	D	530	NB/EB SB/WB	57 59	2.00%	70 72	53 85	123 157	C C	0.23 0.30	10%	OUT IN	17 28	140 185	C C	0.26 0.35
SR 19			l														
Lane Park Rd to CR 48	2	D	920	NB/EB SB/WB	610 656	2.00%	744 800	125 264	869 1,064	C F	0.94 1.16	23%	OUT IN	38 65	907 1,129	D F	0.99 1.23
CR 48 to Central Ave	2	D	700	NB/EB SB/WB	433 372	2.00%	528 454	266 355	794 809	F F	1.13 1.16	25%	OUT IN	42 71	836 880	FF	1.19 1.26
Central Ave to CR 455	2	D	1,200	NB/EB SB/WB	433 372	2.00%	528 454	437 272	965 726	D C	0.80 0.61	50%	IN OUT	142 84	1,107 810	DС	0.92 0.68
CR 455 to US 27/ SR 25	2	С	450	NB/EB SB/WB	507 435	2.00%	619 531	286 178	905 709	E D	2.01 1.58	35%	IN OUT	99 58	1,004 767	ЕШ	2.23 1.70
US 27/ SR 25 to CR 478	2	С	450	NB/EB SB/WB	466 519	2.00%	569 633	286 178	855 811	E	1.90 1.80	10%	IN OUT	28 17	883 828	ЕШ	1.96 1.84
**Number 2 Rd																	
Mare Ave to Silverwood Ln	2	D	400	NB/EB SB/WB	57 59	2.00%	70 72	53 53	123 125	C C	0.31 0.31	35%	OUT IN	58 99	181 224	C D	0.45 0.56
Silverwood Ln to CR 48	2	D	400	NB/EB SB/WB	57 59	2.00%	70 72	53 53	123 125	C C	0.31 0.31	15%	IN OUT	43 25	166 150	сс	0.42 0.38

Source: 2022 Lake County Annual Traffic Counts

*Exiting Counts were obtained from PM Peak Turning Movement Counts

**A reduction of 25% was applied to the Peak Hour Directional Capacity of 530, as Number 2 Road is a substandard road



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Table 7
Projected Roadway Segment Capacity Analysis with Mitigation

	No	LOS	PH Dir		Exist	Growth	2033	Vested	Total Backg'd	Backa'd	Backa'd	Trin	Proi	Project	Total	Final	Final	Project Responsible
Roadway Segment	Lns		Capacity	Dir	Vol	Rate	Backg'd	Trips	Volume	LOS				Volume		-	V/C	?
SR 19																		
Lane Park Rd to CR 48	4	D	1.480	NB/EB	610	2.00%	744	125	869	С	0.59	23%	OUT	38	907	D	0.61	NO
Lane Faik No to Cit 40	4		1,400	SB/WB	656	2.0070	800	264	1,064	D	0.72	2370	IN	65	1,129	D	0.76	NO
CR 48 to Central Ave	4	D	1.480	NB/EB	433	2.00%	528	266	794	D	0.54	25%	OUT	42	836	D	0.56	NO
CR 48 to Central Ave	4		1,400	SB/WB	372	2.00 %	454	355	809	D	0.55	2370	IN	71	880	D	0.59	NO
CR 455 to US 27/ SR 25	4	6	1.360	NB/EB	507	2.00%	619	286	905	С	0.67	35%	IN	99	1,004	С	0.74	NO
CR 455 10 US 27/ SR 25	4		1,300	SB/WB	435	2.00%	531	178	709	С	0.52	33%	OUT	58	767	С	0.56	NO
US 27/ SR 25 to CR 478	4	6	1,360	NB/EB	466	2.00%	569	286	855	С	0.63	10%	IN	28	883	С	0.65	NO
US 21/ SR 25 10 CR 476	4	C	1,300	SB/WB	519	2.00%	633	178	811	С	0.60	10%	OUT	17	828	С	0.61	NO
**Number 2 Rd			•							•								
Mare Ave to Silverwood Ln	2	D	530	NB/EB	57	2.00%	70	53	123	С	0.23	35%	OUT	58	181	С	0.34	NO
Iviare Ave to Silverwood Ln	2	U	530	SB/WB	59	2.00%	72	53	125	С	0.24	33%	IN	99	224	D	0.42	NO
Silverwood Ln to CR 48	2	D	530	NB/EB	57	2.00%	70	53	123	С	0.23	15%	IN	43	166	С	0.31	NO
Silverwood Liftlo CR 48	2	U	530	SB/WB	59	2.00%	72	53	125	С	0.24	13%	OUT	25	150	С	0.28	NO

Source: 2022 Lake County Annual Traffic Counts

*Exiting Counts were obtained from PM Peak Turning Movement Counts

**A reduction of 25% was applied to the Peak Hour Directional Capacity of 530, as Number 2 Road is a substandard road

Note: Roadway mitigations are necessitated by background traffic. Number 2 Road is an existing substandard facility.

The development is not responsible for these improvements, per Florida Statutes.



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4.4 Intersection Capacity Analysis

The projected volumes for the intersection capacity and operations analysis were calculated by assigning the project trips to the project driveways and adding those volumes to the background volumes and vested trips at the study intersections. Projected background traffic was estimated as discussed in the previous section. Projected background traffic on the proposed Spine Road and Revels Road were estimated based on the *CFRPMv7* model daily volumes. The AADT model plots are included in **Appendix J**.

Intersection Capacity Analysis

The projected AM and PM peak hour volumes are illustrated in **Figure 6** and **Figure 7**, respectively. The analysis includes right and left turn lanes on SR 19, and a right turn lane on Revels Road at the intersection of SR 19 and Revels Road. It also includes right and left turn lanes on Number 2 Road at the intersection of Spine Road and Number 2 Road. The results of the analysis are summarized in **Table 8**, and the analysis worksheets are included in **Appendix K**. The intersection volume projection sheets are included in **Appendix L**.

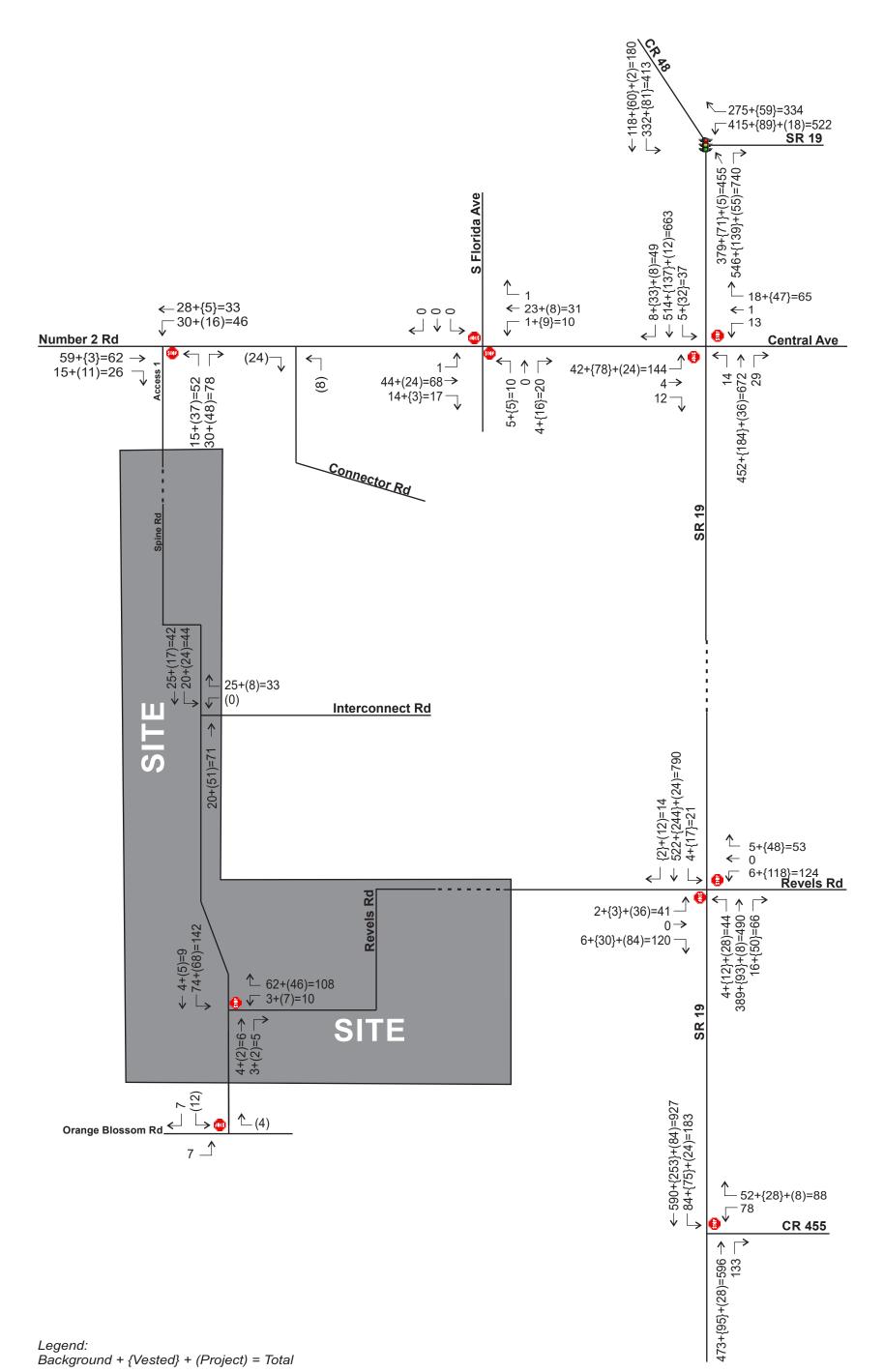
	Traffic Time		EB		W/D		ND					
Intersection	Traffic	Time	E	В	W	В	N	В	SE	3	Ove	rall
Intersection	Control	Period	Delay	LOS								
SR 19 & CR 48	Signal	AM			177.1	F	29.7	С	22.1	С	87.2	F
SK 19 & CK 40	Signal	PM			>300	F	21.5	В	12.1	В	234.3	F
SR 19 & Central Ave	тwsc	AM	>300	F	26.5	D	10.1	В	10.3	В		
SR 19 & Central Ave	10050	PM	>300	F	89.7	F	11.4	В	10.3	В		1
W Central Ave & S Florida Ave	TWSC	AM	7.3	Α	7.4	Α	9.2	Α	0.0	Α		
VV Central Ave & S Florida Ave	10030	PM	0.0	Α	7.4	Α	9.3	Α	10.6	В		
SP 10 8 Poyolo Pd / Project Entropos	тwsc	AM	51.2	F	>300	F	10.1	В	8.8	Α		
SR 19 & Revels Rd / Project Entrance	10050	PM	135.1	F	>300	F	9.9	Α	10.7	В		1
SR 19 & CR 455	TWSC	AM	-		>300	F			10.7	В		1
SK 19 & CK 455	10030	PM			>300	F			12.7	В		
Spine Dd & Interconnect Dd / Drongood	тwsc	AM			8.8	Α			7.4	Α		
Spine Rd & Interconnect Rd / Proposed	10050	PM			8.8	Α			7.4	Α		1
Number 2 Rd and Spine Rd / Project	TWSC	AM			7.5	Α	9.8	Α				1
Entrance	10050	PM			7.6	Α	9.9	Α				
Spine Dd & Dovale Dd	тwsc	AM			9.1	Α			7.5	Α		-
Spine Rd & Revels Rd	10030	PM			9.3	Α			7.5	Α		-
Revels Rd & Orange Blossom Rd /	тwsc	AM	7.2	Α					8.6	Α		
Project Entrance	10050	PM	7.3	А					8.6	А		

 Table 8

 Projected Intersection Capacity Analysis

Average delay is in seconds

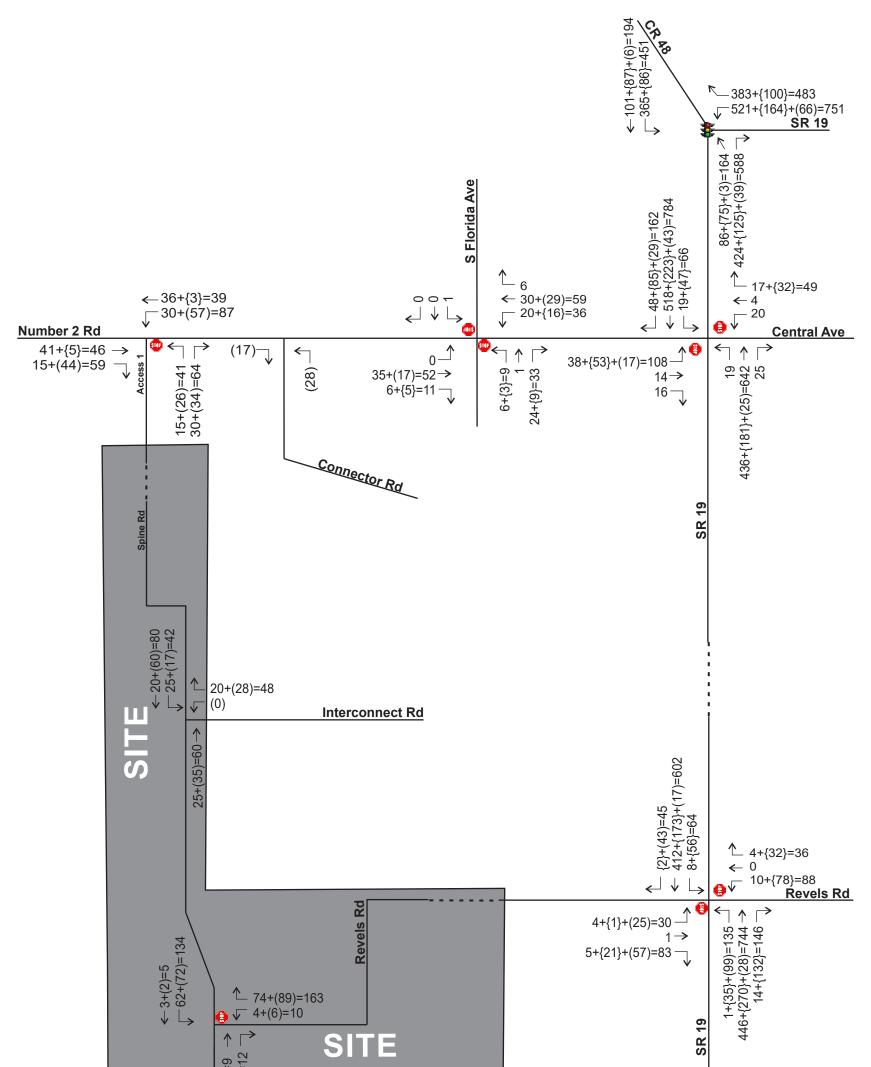




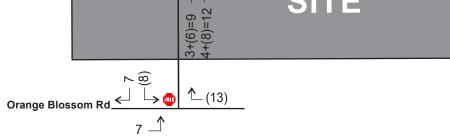
Not to Scale

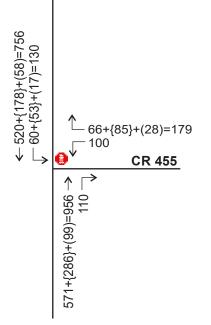
Legend: Background + {Vested} + (Project) = Total





Not to Scale





Legend: Background + {Vested} + (Project) = Total



The analysis reveals the following:

- The intersection of SR 19 and CR 48 is projected to operate with delay during the AM and the PM peak hour. Further review is needed.
- The intersection of SR 19 and Central Avenue is projected to operate with delay in the eastbound and westbound directions. The westbound movement does not carry any project traffic and it is projected to operate at volume to capacity ratio less than 1.0. Further review is needed.
- The intersection of SR 19 and Revels Road is projected to operate with delay in the eastbound and westbound directions. The westbound movement does not carry any project traffic. Further review is needed.
- The intersection of SR 19 and CR 455 is projected to operate with delay for the westbound left movement. Project trips contribute no traffic to the movement. Further review is needed.

The remaining study intersections are projected to operate adequately at the project buildout.

Intersection Capacity Analysis with Recommended Mitigation

The proposed project does not significantly impact study area intersections. Four (4) intersections have been reviewed further. The intersections are determined to need the following improvements to achieve acceptable LOS conditions at project buildout:

- Retiming the signal is recommended at the intersection of SR 19 and CR 48 <u>OR</u> constructing a 2-lane roundabout at the intersection of SR 19 and CR 48.
- Installing a signal is recommended at the intersection of SR 19 and Central Avenue.
- Installing a signal is recommended at the intersection of SR 19 and Revels Road.
- Installing a signal is recommended at the intersection of SR 19 and CR 455.



The traffic operations for the mitigated intersections are projected to have acceptable LOS, as detailed in **Table 9**. The background conditions and the buildout conditions with the mitigation analysis worksheets are included in **Appendix M**.

	Traffic	Peak		E	В	W	В	N	В	S	В	Ove	erall
Intersection	Control	Period	Scenario	Delay	LOS								
			Background			161.9	F	29.5	С	21.8	С	80.1	F
	Option 1:	AM	Buildout			177.1	F	29.7	С	22.1	С	87.2	F
SR 19 & CR 48	Retiming		Mitigation			59.4	Е	72.4	Е	54.1	D	60.9	D
SK 19 & CK 40	0		Background			>300	F	21.5	С	12.1	В	187.5	F
	Signal	PM	Buildout			>300	F	21.5	С	12.1	В	233.7	F
			Mitigation			48.7	D	56.5	E	58.2	E	52.6	D
			Background			161.9	F	29.5	С	21.8	С	80.1	F
		AM	Buildout			177.1	F	29.7	С	22.1	С	87.2	F
SR 19 & CR 48	Option 2:		Mitigation			14.2	В	23.0	С	11.9	В	17.7	С
SK 19 & CK 40	Roundabout		Background			>300	F	21.5	С	12.1	В	187.5	F
		PM	Buildout			>300	F	21.5	С	12.1	В	233.7	F
			Mitigation			12.6	В	15.7	С	23.4	С	16.1	С
			Background	>300	F	24.5	С	9.9	А	10.1	А		
	Signal	AM	Buildout	>300	F	26.5	D	10.1	В	10.3	В		
SR 19 & Central Ave			Mitigation	21.0	С	18.3	В	8.2	Α	8.2	А	9.9	А
SK 19 & Central Ave			Background	>300	F	65.2	E	11.0	В	10.2	В		
		PM	Buildout	>300	F	89.7	F	11.4	В	10.3	А		
			Mitigation	13.3	В	12.0	В	6.8	А	24.7	С	16.9	В
			Background	22.5	С	>300	F	9.7	А	8.8	А		
		AM	Buildout	51.2	F	>300	F	10.1	В	8.8	А		
SR 19 & Revels Road	Signal		Mitigation	18.2	В	16.0	В	5.0	Α	6.2	Α	7.3	Α
	Olgriai		Background	30.0	D	>300	F	9.0	А	10.6	В		
		PM	Buildout	135.1	F	>300	F	9.9	А	10.7	В		
			Mitigation	30.0	С	26.7	С	6.5	А	3.8	А	7.3	Α
			Background			>300	F			10.3	В		
		AM	Buildout			>300	F			10.7	В		
SR 19 & CR 455	Signal		Mitigation			78.2	E	2.3	А	30.8	С	24.3	С
511 13 0 011 400	Signal		Background			>300	F			11.6	В		
		PM	Buildout			>300	F			12.7	В		
			Mitigation			130.1	F	6.4	Α	62.3	E	44.1	D

 Table 9

 Projected Intersection Capacity Analysis with Mitigation

The analysis reveals the following:

- The intersection of SR 19 and CR 48 is projected to operate at an acceptable overall LOS by optimizing the signal timing or by constructing a 2-lane roundabout. Since the intersection can operate adequately by retiming the traffic signal; the project is not responsible to add a roundabout.
- The intersection of SR 19 and Central Avenue is projected to operate adequately at buildout with a signal. The westbound movement does not carry any project traffic. Project contribute 5.9% of the total traffic.
- The intersection of SR 19 and Revels Road is projected to operate adequately at buildout with a signal. The westbound movement does not carry any project traffic. Project contributes 13.6% of the total traffic.
- The intersection of SR 19 and CR 455 is projected to operate adequately at buildout with a signal. The westbound movement does not carry any project traffic. Project contribute 9.0% of the total traffic.



In lieu of contributing a proportionate share to the three (3) intersections needing new traffic signals, the developer is recommending to construct the new traffic signal at SR 19 and Revels Road, which serves as the main access to the project.



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5.0 ACCESS REVIEW

The development will be accessed via the intersections of Number 2 Road and Spine Road (future road), SR 19 and Revels Road, and Revels Road and Orange Blossom Road. SR 19 is a 2-lane undivided facility with a posted speed limit of 55 miles per hour (mph) near the project entrance. Number 2 Road is a 2-lane undivided facility with a posted speed limit of 30 mph in the east direction and 45 mph in the west direction near the project entrance. Orange Blossom Road is a 2-lane undivided facility with a posted speed limit of 30 mph in the east direction and 45 mph in the west direction near the project entrance.

5.1 Turn Lane Review

A review of the need for turn lanes at the project entrance intersections was conducted based on the Lake County *Land Development Code (LDC)* guidelines, which are provided in **Appendix N**. In accordance with the *LDC* guidelines, right and left turn lanes are warranted at the intersections of SR 19 and Revels Road, and at Number 2 Road and Spine Road. The intersection of Orange Blossom Road and Revels Road is expected to carry limited traffic; therefore, exclusive turn lanes are not recommended.

The recommended lengths of the turn lanes on SR 19 were calculated based on the requirements of the *FDOT Design Manual Exhibit 212-1*, provided in **Appendix O**, and the recommended lengths of the turn lanes on Number 2 Road were calculated based on the Lake County *LDC* guidelines. Per Lake County requirement for turn lane widening on Number 2 Road, the length of tapers will need to be twice the standard length. The calculations are provided as follows:

SR 19 and Revels Road

Left Turn Lane Length = Deceleration Distance + Queue Length Deceleration at 60 mph (design speed) = 405 feet 95th Percentile Queue Length = 1 x 25 = 25 feet **Northbound Left Turn Lane = 405 feet + 25 feet = 430 feet (including a 50-foot taper)**

Right Turn Lane Length = Deceleration Distance Deceleration at 60 mph (design speed) = 405 feet **Southbound Right Turn Lane = 405 feet**



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Number 2 Road and Spine Road

Left Turn Lane Length = Taper Length + Storage Length Taper Length at 50 mph (design speed) = 230 feet x 2 = 460 feet Storage Length at 50 mph (design speed) = 195 feet Westbound Left Turn Lane = 460 feet + 195 feet = 655 feet

Right Turn Lane Length = Taper Length + Storage Length Taper Length at 35 mph (design speed) = 170 feet x 2 = 340 feet Storage Length at 35 mph (design speed) = 80 feet **Eastbound Right Turn Lane = 340 feet + 80 feet = 420 feet**



6.0 STUDY CONCLUSIONS

This traffic analysis was conducted to assess the impact of the proposed Mission Rise development in the Town of Howey-in-the-Hills, Florida. The project will include 499 single family residential units. The analysis included a determination of project trip generation, a review of existing and projected roadway and intersection capacity.

The results of the traffic analysis are summarized as follows:

- The proposed development is projected to generate 4,428 trips per day, of which 322 trips occur during the AM peak hour and 451 trips occur during the PM peak hour.
- SR 19 SR 19 from Lane Park Road to Central Avenue and from CR 455 to CR 478 are projected to operate over their capacities due to background traffic. The development is not responsible for mitigating background deficiencies, per Florida's Statutes.
- SR 19 from CR 48 to CR 561 is programmed in the *TIP* to be widened to 4 lanes.
- All remaining roadway segments are projected to continue to operate adequately at project buildout.
- The intersection of SR 19 and CR 48 is projected to operate with delay during the AM and the PM peak hour. It is recommended to retime the signal or implement a 2-lane roundabout to maintain LOS standards. The development is not responsible to implement a roundabout.
- The intersection of SR 19 and Central Avenue is projected to operate with delay in the eastbound and the westbound movement. The westbound movement does not carry any project traffic.
- The intersection of SR 19 and Revels Road is projected to operate with delay in the eastbound and westbound directions. The westbound movement does not carry any project traffic.



- The intersection of SR 19 and CR 455 is projected to operate with delay for the westbound left movement. Project trips contribute no traffic to the movement.
- In lieu of contributing a proportional share to the three (3) intersections where traffic signals are projected to be needed, the developer is recommending to construct the traffic signal at the intersection of SR 19 and Revels Road.
- A traffic signal at SR 19 and Revels Road traffic signal needs to be warranted based on a signal warrant study of the in-field traffic volumes. An Intersection Control Evaluation (ICE) study will also need to be coordinated with FDOT.
- All remaining study intersections are projected to operate adequately at project buildout.
- The turn lane recommendations are as follows:
 - Construct a 430-foot northbound left turn lane and a 405-foot southbound right turn lane at the intersection of SR 19 and Revels Road.
 - Construct a 655-foot westbound left turn lane and a 420-foot eastbound right turn lane at the intersection of Number 2 Road and Spine Road.



APPENDICES

Appendix A Study Methodology and Response to Comments Letter



MEMORANDUM

May 23, 2023

Re: Mission Rise Traffic Impact Analysis Methodology, v1.1 Town of Howey-In-The-Hills, Florida Project № 23017.1

This methodology outlines the proposed Traffic Impact Analysis (TIA) for the above referenced project. This methodology was prepared in accordance with the requirements of the Town of Howey-In-The-Hills and the Lake~Sumter Metropolitan Planning Organization (LSMPO) TIA guidelines for a Tier 2 TIA. This methodology has been revised in accordance with the comments provided by the Town of Howey-In-The-Hills. The comments and response to comments letter are included in the **Attachments**.

Project Description

The ± 243.3 -acre site is a single-family residential development consisting of 592 dwelling units. The project site consists of parcels 34-20-25-0001-000-00100, 34-20-25-0004-000-01003, 02-21-25-0002-000-04800, and 27-20-25-0004-000-01200. The anticipated buildout year is 2033. A preliminary site plan is included in the **Attachments**.

Project Location

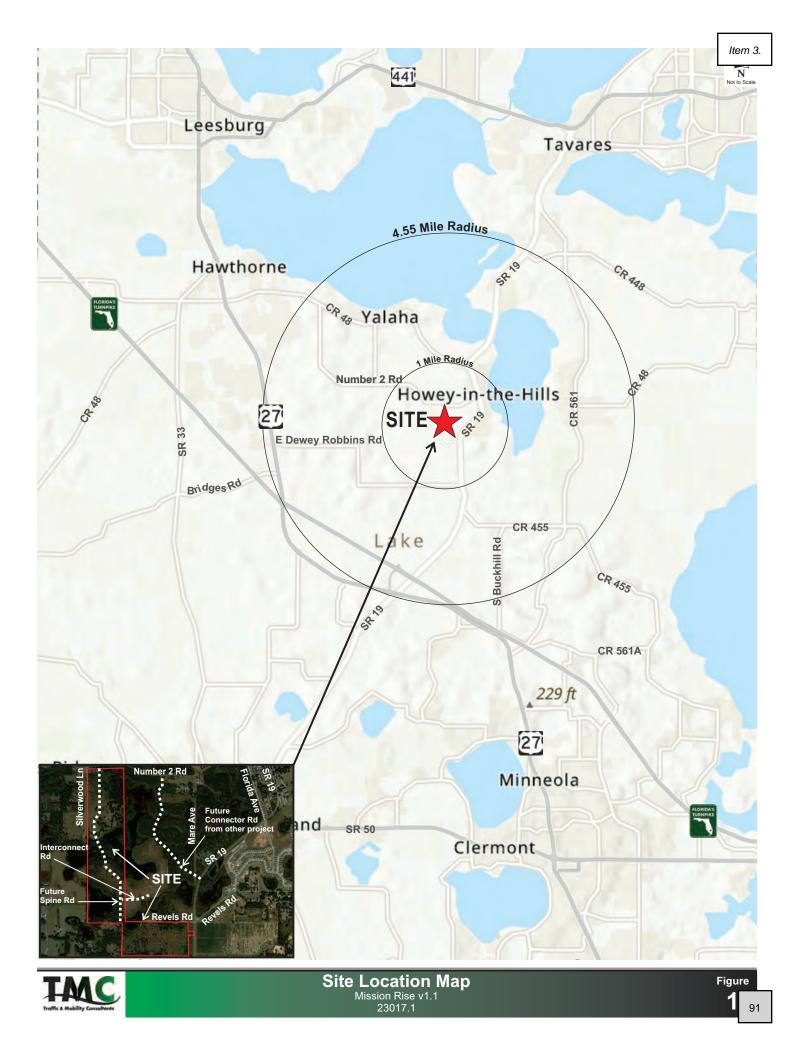
The site is located east of Silverwood Lane, west of SR 19 (South Palm Avenue), and south of Number 2 Road in the Town of Howey-in-the-Hills, Florida. The site will be crossed from north to south by a future two-lane spine road that will connect Number 2 Roadway with Revels Road, as shown in **Figure 1**.

Project Access

The project has access to the external network via one (1) full access driveway on Number 2 Road and one (1) full access driveway on SR 19. In addition, there is an emergency access to the south via Orange Blossom Road. The access configuration is depicted in the preliminary site plan included in the **Attachments**.

Trip Generation

A trip generation analysis was performed for the development using the trip generation information from the Institute of Transportation Engineers (ITE) *Trip Generation Manual, 11th Edition.* The ITE information sheets are included in the **Attachments**. The trip generation of the proposed development is summarized in **Table 1**.



Traffic Impact Analysis Methodology, v1.1 Project № 23017.1 May 23, 2023 Page 3 of 9

Table 1 Trip Generation Analysis

ITE			Da	aily	A	M Pea	k Hour	,		PM Pea	k Hour	
			Eqvlt		Eqvlt				Eqvlt			
Code	Land Use	Size	Rate	Trips	Rate	Total	Enter	Exit	Rate	Total	Enter	Exit
	Single Family Residential (Detached)	592 DU	8.75	5,181	0.63	376	94	282	0.89	529	333	196

Trip Generation analysis based on ITE Trip Generation Manual, 11th Edition.

The proposed development at project buildout is projected to generate 5,181 new daily trips of which 376 trips occur during the AM peak hour, and 529 trips occur during the PM peak hour.

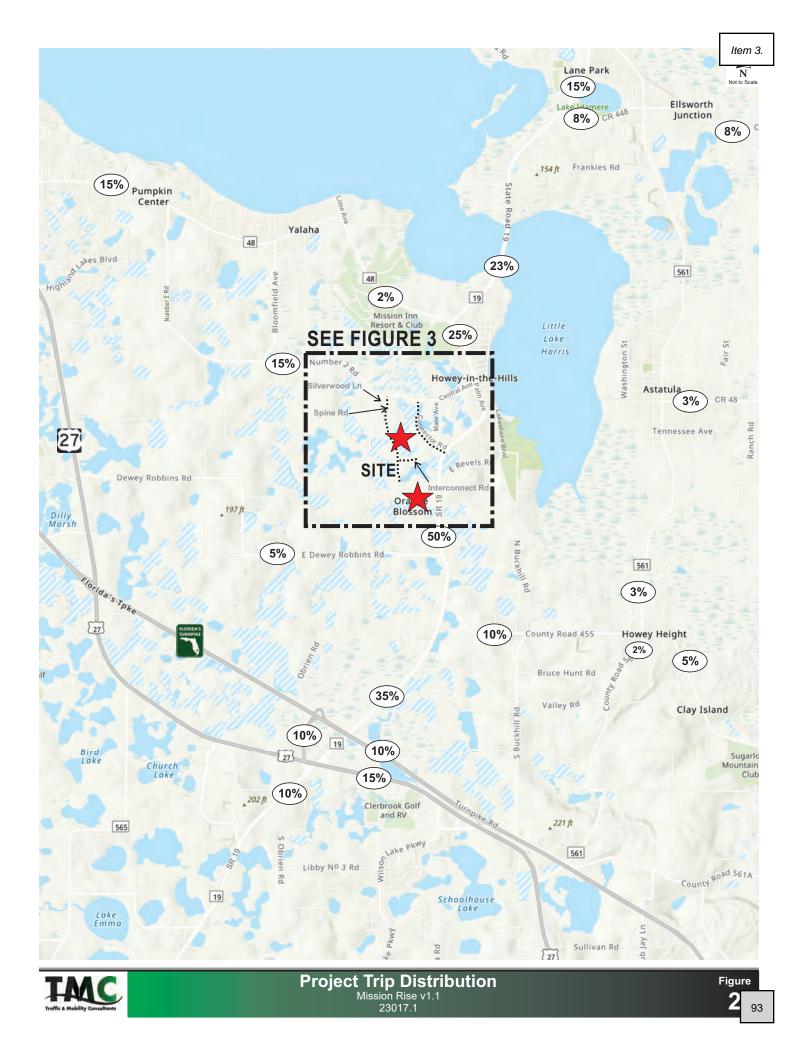
Trip Distribution

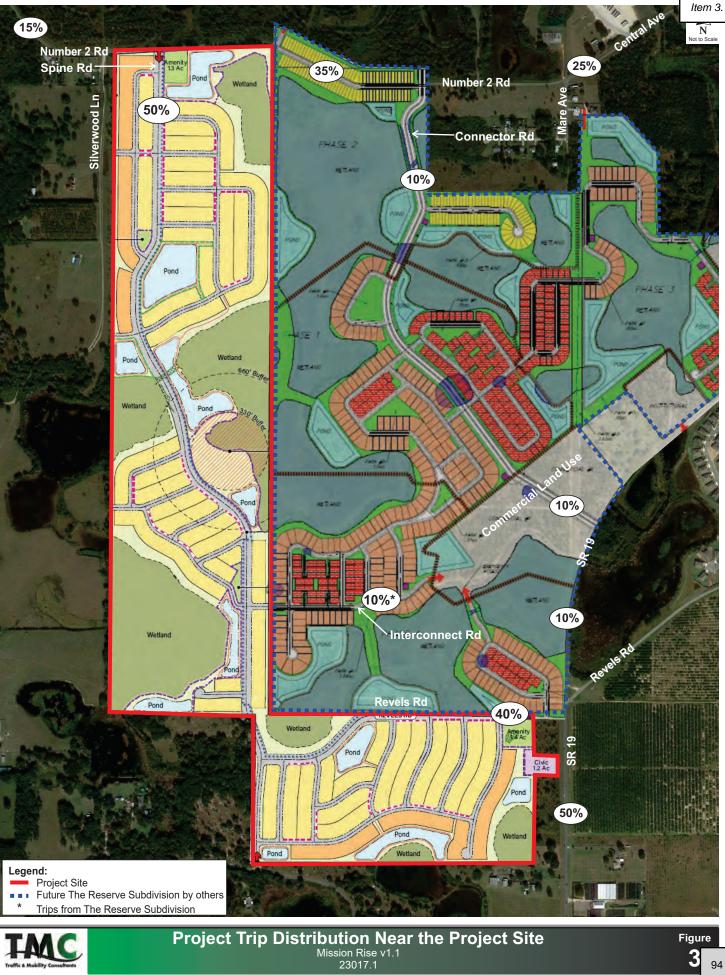
A trip distribution pattern in the general vicinity of the project site was initially determined based on the *Central Florida Regional Planning Model (CFRPM v7)*. Two (2) future connections (Spine Road and Connector Road) from SR 19 to Number 2 Road were included in the model for this project. The model distribution was modified to reflect the local network and prevailing traffic patterns. The proposed trip distribution pattern is provided in **Figure 2**. Detailed trip distribution near the project site is shown in **Figure 3**. The model distribution plots are included in the **Attachments**.

Study Area

In accordance with the LSMPO requirements for a Tier 2 TIA methodology, the study area will include a minimum 1-mile radius plus all roadway segments within a 4.55-mile radius in addition to roadways where the development is projected to consume 5% or more of their adopted Level of Service (LOS), unless otherwise specified by the City/LSMPO.

The extent of the study impact area shall be determined by the area of influence of the project. The area of influence shall be established as one-half ($\frac{1}{2}$) the total trip length associated with the land use of the proposed development, based upon the 2021 Lake County Transportation Impact Fee Update Study Final Report. The total trip length for single-family is 9.1-miles. Accordingly, the area of influence will encompass all roadway segments within 4.55-mile radius. Excerpts of the 2022 Lake County Congestion Management Process (CMP) Database, the 2021 Lake County Transportation Impact Fee Update Study Final Report, and the 2023 FDOT Multimodal Quality/Level of Service (Q/LOS) Handbook Appendix B are included in the Attachments. Table 2 lists all roadway segments within the area of influence along with their capacities and percentages consumed by the project trips.





Traffic Impact Analysis Methodology, v1.1 Project № 23017.1 May 23, 2023 Page 6 of 9

Project No Area Median Speed LOS Pk Dir Within % In Limit Std Cap Dist Trips SEG ID Lns Type Dir 1-Mile? ** Сар **Roadway Segment** Туре Study? CR 455 SR 19 to EB 20 2.7% 950 2 R Undivided С 10% NO NO 45 740 CR 561 WB 33 4.5% CR 561 to EΒ 10 2.4% 2 С 960 R Undivided 25 410 5% NO NO WB 4.1% CR 561A 17 CR 48 US 27 to EΒ 50 4.6% 2 U Undivided D 1,080 NO 1240 40 15% NO 2.7% Lime Ave WR 29 Lime Ave to 7 0.6% EΒ 2 D 1250 U Undivided 40 1,080 2% NO NO SR 19 WB 4 0.4% CR 561 to EΒ 6 0.7% 1260 2 U Undivided 40 D 840 3% NO NO Ranch Rd WB 10 1.2% EΒ 1.5% Ranch Rd to 6 1270 2 С 3% NO R Undivided 40 410 NO 10 2.4% CR 448A WB CR 561 CR 448 to NB 0 0.0% 1410 2 Undivided D 1,080 0% NO U 50 NO CR 48 SB 0.0% 0 1.6% CR 48 to 10 NB 1420 2 U Undivided 40 D 620 3% NO NO South Astatula City Limit SB 6 1.0% South Astatula City Limit NB 10 0.9% 2 U D 1430 Undivided 40 1,080 3% NO NO 0.6% to CR 455 SB 6 CR 455 to NB 1.5% 7 С 1440 2 R Undivided 35 470 2% NO NO Howey Cross Rd 4 0.9% SB Howev CRoss Rd to NB 7 1.1% 2 С 1450 R Undivided 40 640 2% NO NO Turnpike Rd / CR 561A SB 4 0.6% SR 19 Lane Park Rd to NB 45 4.9% 3040 2 U Undivided 55 D 920 23% NO YES CR 48 SB 77 8.4% CR 48 to NB 49 7.0% 3050 2 U Undivided 40 D 700 25% YES NO Central Ave SB 83 11.9% Central Ave to NB 167 13.9% 3060 2 U Undivided 35 D 1,200 50% YES YES CR 455 SB 98 8.2% CR 455 to NB 117 26.0% С YES 3070 2 R Undivided 55 450 35% NO US 27 / SR 25 SB 69 15.3% US 27 / SR 25 NB 67 14.9% 2 С 3080 R Undivided 55 450 20% NO YES to CR 478 SB 39 8.7% SR 91 (Florida Turnpike) US 27/SR 25 to EΒ 20 0.9% 70 3566 4 U Freeway В 2,230 10% NO NO WB 33 1.5% US 27/SR 25/SR 19 Interchange US 27/SR 25 SR 19 to EΒ 29 0.9% 3830 4 U Divided 55 D 3,280 15% NO NO CR 561 WB 50 1.5% Central Ave EΒ 49 SR 19 to 6.4% N/A 2 Undivided 30 D 770 * 25% YES YES U WB Mare Ave 83 10.8% Number 2 Rd 9.5% Mare Ave to FB 69 N/A 2 U Undivided 30 D 730 * 35% YES YES WB 117 Silverwood Ln 16.0% Silverwood Ln to EΒ 29 4.0% 2 730 15% YES N/A U Undivided 45 D YES WB 50 6.8% CR 48

Table 2 Study Area

Source: 2022 Lake County CMP Database

* 2023 FDOT Multimodal Quality/Level of Service Handbook, Appendix B: Florida's Generalized Service Volume Tables

Bold numbers represent capacity equal or higher than 5%.

Traffic Impact Analysis Methodology, v1.1 Project № 23017.1 May 23, 2023 Page 7 of 9

Based on the study area analysis, the following roadway segments will be analyzed for the PM peak hour:

- SR 19
 - o Lane Park Road to CR 48
 - o CR 48 to Central Avenue
 - o Central Avenue to CR 455
 - o CR 455 to US 27 / SR 25
 - US 27 / SR 25 to CR 478
- Central Avenue
 - o SR 19 to Mare Avenue
- Number 2 Road
 - o Mare Avenue to Silverwood Lane
 - Silverwood Lane to CR 48

The following intersections will be analyzed for the AM and PM peak hours:

- SR 19 and CR 48 (Signalized)
- SR 19 and Central Avenue (Unsignalized)
- SR 19 and South Florida Avenue (Unsignalized)
- SR 19 and Revels Road (Unsignalized)
- SR 19 and CR 455 (Unsignalized)
- Spine Road and Interconnect Road (Proposed)
- Number 2 Road and Spine Road (North Project Access) (Proposed)
- Revels Road and Spine Road (South Project Access) (Proposed)

Traffic Impact Analysis Methodology, v1.1 Project № 23017.1 May 23, 2023 Page 8 of 9

Projected Traffic

Projected traffic includes background traffic volumes, the project trips, and committed trips. Projected background traffic will be calculated using the historical growth rates obtained from the *Lake County CMP* database and *FDOT Florida Traffic Online* web-based database. A 2%, minimum growth rate will be applied if the calculated growth rates are lower than 2%. The committed trips for the following approved developments within the study area will be added to the background traffic:

- The Reserve (traffic study obtained)
- Talichet Phase 2 (traffic study obtained)
- Whispering Hills (traffic study obtained)
- Lake Hills (City to provide traffic study)
- Watermark (City to provide traffic study)

Planned and Programmed Improvements

The Lake-Sumter Metropolitan Planning Organization (LSMPO) 2023-2027 Transportation Improvement Program (TIP), as well as LSMPO 2022 List of Priority Projects (LOPP) were reviewed to identify any planned or programmed improvements to the transportation facilities in this area. As shown in **Table 3**, construction is not planned to be completed within the next three (3) years for either improvement. Excerpts from the LSMPO TIP and LSMPO LOPP are provided in the **Attachments**.

FM #	Project Name	From	То		Proposed Phase FY	•
2383191	SR 19 *	CR 48	CR 561	PDE-PE-ENV	2023	Add Lanes & Reconstruct
238319-1	SR 19 **	Howey Bridge	CR 561	-	-	Road Widening

Table 3Planned and Programmed Improvements

* LSMPO TIP Fiscal Year 2023-2027

** LSMPO 2022 LOPP Tier 2 project

Capacity Analysis

The traffic study will include existing and 2033 buildout conditions for the roadway segment and intersection capacity analyses. A capacity analysis of the study roadway segments will be conducted for the PM peak hour under existing and projected conditions. The capacity analysis will be based on service volumes, capacities, and existing volumes, as documented in 2022 Lake County CMP Database and the FDOT's 2023 Multimodal Quality/Level of Service (MQ/LOS) Handbook, included in the **Attachments**.

Traffic Impact Analysis Methodology, v1.1 Project № 23017.1 May 23, 2023 Page 9 of 9

The intersection turning movement counts will be seasonally adjusted, if needed, using the 2022 FDOT Peak Season Factor Category Report obtained from the Florida Traffic Online (FTO) website.

Right and left turn lane warrant reviews will be performed at the Spine Road accesses on Number 2 Road and at SR 19 and Revels Road in accordance with the Lake County requirements for turn lanes.

In cases where projected conditions require mitigation as a result of the proposed development, an analysis including the recommended mitigation will be conducted.

Alternative Mode Analysis

A review of transit, pedestrian, and bicycle facilities will be conducted in accordance with the LSMPO requirements.

<u>Report</u>

A TIA report detailing the methods and findings of the study, including all associated graphics, tables, calculations, and supporting information will be prepared for submittal to the Town of Howey-In-The-Hills.

ATTACHMENTS



May 23, 2023

Mr. John Brock Town Clerk PO Box 125 Howey-In-The-Hills, Florida 34737 jbrock@howey.org

Re: Mission Rise Response to Methodology Comments TMC Project № 23017.1 Town Howey-In-The-Hills, Florida

Dear Mr. Brock,

Please find below our responses to the review comments prepared on behalf of The Town of Howey-In-The-Hills by TMH Consulting Inc dated May 8, 2023, regarding the above referenced Methodology dated April 28, 2023. The comments are listed in **bold** typeface and the TMC responses follow in *italic* typeface. Additionally, a revised Methodology is provided under cover reflecting the changes resulting from these comments.

1. The Revels Road access to the south cannot be limited to emergency access as this is a public road now. Since we have received comments from residents to the south, it will be very useful to get some type of prediction about how many trips are likely to use this access point as opposed to SR 19 and Number 2 Road.

TMC Response: The emergency access on Orange Blossom Road will be restricted to emergency vehicles only; therefore, no trips were assigned to that access.

2. There is an interconnect between the Mission Rise parcel and The Reserve parcel. Is the model sensitive enough to determine if this interconnect will impact trip assignments? The Reserve has an approved connecting road which is discussed in the TMC methodology. The Reserve also includes a future commercial development area that might be an attractor.

TMC Response: Noted. The Reserve Subdivision includes a future commercial development, therefore, 10% of the trips are assumed to originate from The Reserve's commercial development and use the interconnect road to access the project site.

- 3. The study needs to include those projects that have some level of approval. TMC has done the traffic studies for several of these and been provided with traffic studies from others. The projects that need to be included are:
 - The Reserve
 - Watermark
 - Talichet Phase 2 (Phase 1 is mostly in the background traffic by now.)
 - Whispering Heights
 - Lake Hills

TMC Response: Noted. The vested trips from The Reserve, Watermark, Talichet Phase 2, Whispering Heights [Whispering Hills], and Lake Hills will be included in the traffic study as indicated in the revised methodology (attached).

4. The study needs to include CFRPM distributions that show the percentages of future background through traffic that will use the new roads in Mission Rise and The Reserve that link No 2 Road to SR 19. Use that data to project future background traffic volumes on those links.

TMC Response: Noted. As reflected in Figure 2, the future Spine Road, which transverses the project site from north to south and connects Number 2 Road with Revels Road, and the future Connector Road, which connects SR 19 and Number 2 Road are included in the project trip distribution Figure 2 in the revised methodology (attached).

5. The project trip distribution map is basically unreadable. They need to provide a graphic that someone can review and understand.

TMC Response: Noted. The distribution map has been revised to show an inset with the detail project distribution within the project site. See Figure 2 in the revised methodology (attached).

6. SR 19 at Central Avenue is listed as signalized, but it is only a flashing light. The analysis cannot assume it is a true signal.

TMC Response: Noted. SR 19 at Central Avenue intersection is listed as an unsignalized intersection in the revised methodology (attached).

7. The ITE land use, code 210, shows traffic generation as 9.43 trips per unit with 0.70% for the AM Peak and 0.94% for the PM Peak. Why did they use 8.75, 0.63 and 0.89 respectively for the project traffic generation?

TMC Response: Per the Trip Generation Handbook, 3rd Edition Figure 4.2 (Process for selecting average rate or equation in trip generation manual data) linear curve equations should be used for the weekday, AM, and PM peak period trip generation calculation. The linear curve equations have an R^2 equal to 0.75 or greater, therefore, the fitted curve equations were used instead of average rate.

The linear curve equations used for the 592 dwelling residential units corresponding to the weekday, AM, and PM trips are as follows:

Weekday: Ln(T)=0.92 Ln(X)+2.68 which is equivalent to an average rate of 8.75 (5,181/592). AM: Ln(T)=0.91 Ln(X)+0.12 which is equivalent to an average rate of 0.63 (376/592). PM: Ln(T)=0.94 Ln(X)+0.27 which is equivalent to an average rate of 0.89 (529/592).

END OF COMMENTS

We trust these responses and the revised Methodology adequately address the review comments. We remain available to discuss this matter further or to answer any questions you may have.

Kind regards,

TRAFFIC & MOBILITY CONSULTANTS LLC

Charlotte N. Davidson, PE Senior Transportation Engineer



October 17, 2023

Mr. J. Brock Town Clerk Howey-in-the-Hills/Development Review Committee 101 North Palm Avenue Howey-in-the-Hills, FL 34737 <u>ibrock@howey.prg</u>

Re: Mission Rise Response to Traffic Impact Analysis Comments TMC Project № 23017.1 Howey-in-the-Hills, Florida

Dear Mr. Brock,

Please find below our responses to the review comments prepared by Griffey Engineering Inc. on behalf of The Town of Howey-in-the-Hills, dated October 9, 2023, regarding the above referenced Traffic Impact Analysis dated August 2023. The comments are listed in **bold** typeface and the TMC responses follow in *italic* typeface. Additionally, a revised Traffic Impact Analysis is provided under cover reflecting the changes resulting from these comments.

Traffic Study

1. Figures in the report are missing. They need to be included.

TMC Response: Figures have been included in the report.

2. For the future condition analysis of the intersection of SR 19 & CR 48, evaluate for a roundabout as well as signal timing adjustment.

TMC Response: A roundabout at the intersection of SR19 & CR 48 has been evaluated and the results of the analysis have been included in the TIA v1.3 report.

Mr. J. Brock Mission Rise Response to Traffic Impact Analysis Comments TMC Project № 23017.1 October 17, 2023 Page 2 of 2

Recommended Improvements

3. The traffic study identifies three intersections along SR 19 that will need to be signalized in the future (SR 19 & Central Ave., SR 19 & Revels Rd., and SR 19 & CR 455). The Development Agreement has a section that addresses proportionate share payment for off-site impacts. In the study's mitigation analysis it states: "In lieu of contributing a proportionate share to the three (3) intersections needing new traffic signals, the developer is recommending to construct the new traffic signal at SR 19 and Revels Road, which serves as the main access to the project." This is a reasonable mitigation alternative provided that there is a binding commitment for the developer to construct (or fund) the signal when it is deemed warranted by FDOT. This would be in addition to the turn lanes that the development will need to install at the intersection (right & left on SR 19, and right & through/left on EB Revels).

TMC Response: Acknowledged.

END OF COMMENTS

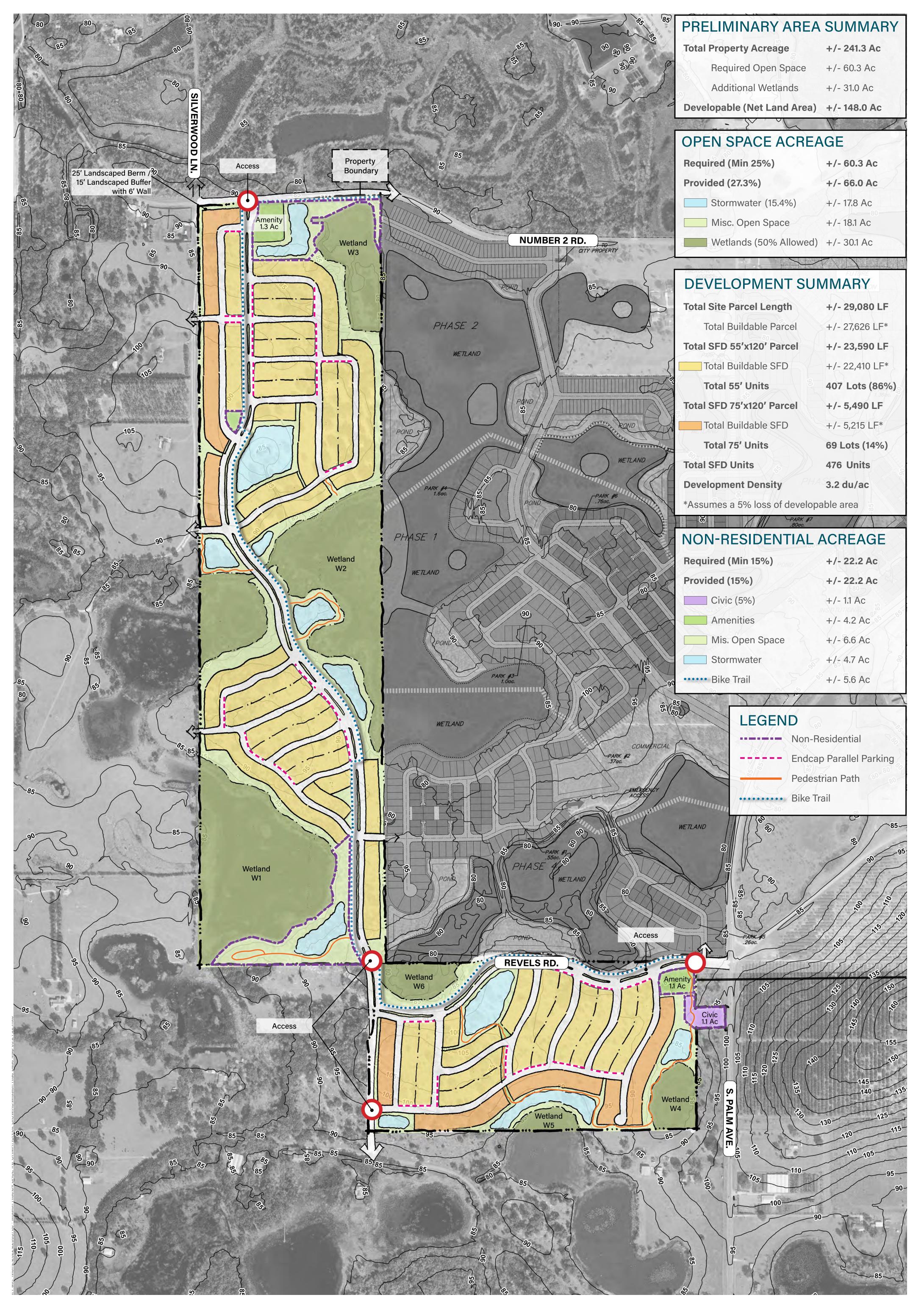
We trust these responses and the revised Traffic Impact Analysis adequately address the review comments. We remain available to discuss this matter further or to answer any questions you may have.

Kind regards,

TRAFFIC & MOBILITY CONSULTANTS LLC

Charlotte N. Davidson, PE Senior Transportation Engineer

Appendix B Preliminary Development Plan



Copyright RVi



MISSION RISE • CONCEPTUAL PLAN

• Town of Howey Hills, FL

December 22, 2022

22003786

Lagrandian Turnstone Group

0 300' 600' SCALE: 1" = 300'

The plan is conceptual in nature. Final densities, layout, development parameters, calculations, and site conditions may change upon further development of the Preliminary and/or Master Site Plan, and upon evaluation of topographic survey, water management and existing historic and specimen trees to remain. Appendix C Lake County CMP Database and 2023 FDOT Q/LOS

Lake County CMP Database

	FDOT	ATA SOURCE	SPEED LIMIT	SEGMENT	ROAD NAME	FROM	LANES		URBAN / DIVIDED		CY JURISDICTION	ADOPTED LOS DAILY SERVICI	E 2022 AADT	2022 DAILY 2022 DAIL	PEAK HOUR DIRECTIONAL	2022 PEAK 2022 PEAK HOUR NB/EB HOUR SB/WB	2022 PEAK	2022 PEAK GROWTH RAT	DAILY	2027 AADT	2027 DAILY 2027 DAILY LOS	PEAK HOUR DIRECTION		027 PEAK 2027 PEAK 20 UR SB/WB 2027 PEAK 20	2027 PEAK
SEGMENTID STATIO	STATION DA	ATA SOURCE	LIMIT	LENGTH (MI)	KUAD MAINE	T KOM	(2022)	(2027)	RURAL UNDIVIDE	D MAINTAINING AGEN	JUNISDICTION	STANDARD VOLUME	2022 AADT	V/C LOS	SERVICE VOLUME	VOLUME VOLUME	HOUR V/C	HOUR LOS	VOLUME (2027)	2027 40401	V/C 2027 DAILT LOS	SERVICE VOLUME (2027		VOLUME HOUR V/C H	HOUR LOS
1100 497 1110 490		County	35 35		C.R. 466B C.R. 468	EAGLE NEST ROAD CR 466A	CR 466A 2 PINE RIDGE DAIRY ROAD 2		URBAN UNDIVIDE		UNINCORPORATED LAKE COUNTY FRUITLAND PARK	D 10,360 D 10,360	5,060	0.49 C 0.46 C	530 530	193 233 190 213	0.44	C 1.25% C 1.25%	10,360	5,385 5,021	0.52 D 0.48 C	530 530	205	248 0.47 227 0.43	c
1120 480 1130 436		County	35 45	1.80	C.R. 468 C.R. 468	PINE RIDGE DAIRY ROAD GRIFFIN ROAD	GRIFFIN ROAD 2 SR 44 2	2	URBAN UNDIVIDE		FRUITLAND PARK	D 13,320 D 12,390	7,736	0.58 D 0.74 C	680 620	343 384 440 404	0.56	D 3.00%	13,320 12,390	8,968 10.005	0.67 D	680 620	398 480	445 0.65 440 0.77	D
1145 612		County	55	3.65	C.R. 46A REALIGNMENT	SR 44	SR 46 2		RURAL UNDIVIDE	D COUNTY	UNINCORPORATED LAKE COUNTY	C 7,740	16,576	2.14 E	410	663 857	2.09	E 3.50%	7,740	19,687	2.54 E	410	788	1,018 2.48	E
1150 267 1155 266			55 55		C.R. 470 C.R. 470	SUMTER COUNTY LINE FLORIDA TURNPIKE	FLORIDA TURNPIKE 2 BAY AVENUE 2	4	RURAL UNDIVIDE		UNINCORPORATED LAKE COUNTY UNINCORPORATED LAKE COUNTY	D 13,300 D 12,600	11,303 8,826	0.85 D	690	530 376 436 278	0.77	D 8.50% D 1.00%	28,880 12,600	16,996 9,276	0.59 C 0.74 D	1,500	797 458	566 0.53 292 0.69	C D
1160 266 1170 499	A	ADJACENT County	55 35	0.54	C.R. 470 C.R. 473	BAY AVENUE CR 44	CR 33 2 FOUNTAIN LAKE BOULEVARD 2	2	URBAN UNDIVIDE		UNINCORPORATED LAKE COUNTY	D 12,390 D 14,060	8,826 6,957	0.71 C 0.49 D	620 710	436 278 322 242	0.70	C 1.00% C 1.00%	12,390 14,060	9,276 7,312	0.75 C 0.52 D	620 710	458 338	292 0.74 255 0.48	c
1180 443		County	40	1.03	C.R. 473	FOUNTAIN LAKE BOULEVARD	US 441 4		URBAN DIVIDED	COUNTY	UNINCORPORATED LAKE COUNTY	D 35,820	14,713	0.41 C	1,800	811 461	0.45	C 1.00%	35,820	15,464	0.43 C	1,800	852	485 0.47	c
1190 4 1200 3		County County	55 55		C.R. 474 C.R. 474	SR 33 GREEN SWAMP ROAD	GREEN SWAMP ROAD 2 US 27 2	2	RURAL UNDIVIDE		UNINCORPORATED LAKE COUNTY UNINCORPORATED LAKE COUNTY	C 7,740 C 7,740	5,962 5,436	0.77 C 0.70 C	410 410	151 240 173 202	0.59	C 2.50% B 1.00%	7,740	6,745 5,713	0.87 C 0.74 C	410 410	171 182	272 0.66 212 0.52	B
1210 222 1220 259		County County	45 55	5.99 3.17	C.R. 478	SR 19 SUMTER COUNTY LINE	JAMARLY ROAD 2 CLEARWATER LAKE RD 2	2	URBAN UNDIVIDE RURAL UNDIVIDE		CITY OF GROVELAND CITY OF LEESBURG	D 21,780 C 7,740	2,244 3,504	0.10 B 0.45 B	1,080	112 93 112 180	0.10	B 7.75% B 4.25%	21,780 7,740	3,259 4,315	0.15 B 0.56 C	1,080 410	162 138	135 0.15 222 0.54	B
1225 248		County	55	2.41	C.R. 48	CLEARWATER LAKE RD	CR 33 2	2	RURAL UNDIVIDE	D COUNTY	CITY OF LEESBURG	C 7,740	3,327	0.43 B	410	123 206	0.50	B 1.75%	7,740	3,629	0.47 B	410	134	224 0.55	С
1230 263 1235 262		County County	45 45	0.46		CR 33 HAYWOOD WORM FARM RD	HAYWOOD WORM FARM RD 2 US 27 2	2	URBAN UNDIVIDE		UNINCORPORATED LAKE COUNTY UNINCORPORATED LAKE COUNTY	D 15,930 D 16,820	8,836 9,073	0.55 C 0.54 C	790 840	370 297 401 375	0.47	C 2.75% C 1.00%	15,930 16,820	10,120 9,536	0.64 C 0.57 C	790 840	424 421	340 0.54 394 0.50	c c
1240 264 1250 255		County County				US 27 LIME AVENUE		2	URBAN UNDIVIDE		UNINCORPORATED LAKE COUNTY HOWEY-IN-THE-HILLS	D 21,780 D 21,780	9,821	0.45 B		420 380 429 404	0.39	B 4.00% B 1.50%	21,780	11,949 10,754	0.55 C	1,080	511 462	462 0.47 435 0.43	B
1260 253		County	40	1.14	C.R. 48	CR 561	RANCH ROAD 2	2	URBAN UNDIVIDE	D COUNTY	TOWN OF ASTATULA	D 16,820	6,515	0.39 C	840	310 292	0.37	C 1.00%	16,820	6,847	0.41 C	840	326	307 0.39	с
1270 253 1280 217		ADJACENT County			C.R. 48 C.R. 50 (SUNSET AVENUE)	RANCH ROAD CR 33		2	RURAL UNDIVIDE		UNINCORPORATED LAKE COUNTY CITY OF MASCOTTE	C 7,740 D 10,360	6,515 1,592	0.84 C 0.15 C	410 530	310 292 66 95	0.76	C 1.00% C 1.75%	7,740	6,847 1,736		410 530	326 72	307 0.80 104 0.20	c c
1290 210 1300 202		County County	45 45			US 27 N HANCOCK ROAD		2	URBAN UNDIVIDE		CITY OF MINNEOLA UNINCORPORATED LAKE COUNTY	D 16,820 D 21,780	6,981	0.42 C 0.32 B	840	285 346 228 491	0.41	C 1.00% B 2.00%	16,820 21,780	7,337 7,593	0.44 C 0.35 B	840	299 251	363 0.43 542 0.50	C C
1310 42		County	45	1.92	C.R. 50	CR 455	ORANGE COUNTY LINE 2	2	URBAN UNDIVIDE	D COUNTY	UNINCORPORATED LAKE COUNTY	D 16,820	6,828	0.41 C	840	195 557	0.66	C 1.00%	16,820	7,176	0.43 C	840	205	585 0.70	С
1320 417 1325 417		County County	35 35	1.08	C.R. 500A/ OLD 441 C.R. 500A/ OLD 441	SR 19 DORA AVENUE	DORA AVENUE 2 SR 19 2	2	URBAN DIVIDED	COUNTY COUNTY	CITY OF TAVARES CITY OF TAVARES	D 8,390 D 8,390	9,907 9,907	1.18 F 1.18 F	870 870	367 450 367 450	0.52	D 1.00% D 1.00%	8,390 8,390	10,412 10,412	1.24 F 1.24 F	870 870	386 386	473 0.54 473 0.54	D
1330 413 1340 420	115084	County	45 35	1.94	C.R. 500A/OLD 441/ALFRED ST C.R. 500A/OLD 441	DORA AVENUE BAY ROAD	BAY ROAD 2 CR 44C / EUDORA AVENUE 2	2	URBAN UNDIVIDE		CITY OF TAVARES	D 16,820 D 10,360	9,558 9.917	0.57 C	840 530	489 424 465 458	0.58	C 1.00% D 2.50%	16,820 10,360	10,045	0.60 C	840 530	514 526	446 0.61 518 0.99	C
1350 421		County	35	1.06	C.R. 500A/OLD 441	CR 44C / EUDORA DRIVE	LAKESHORE DRIVE 2	2	URBAN DIVIDED	COUNTY	CITY OF MOUNT DORA	D 14,760	16,591	1.12 F	750	725 761	1.01	E 4.25%	14,760	20,430	1.38 F	750	893	937 1.25	F
1360 415 1370 415		County ADJACENT	35 25		C.R. 500A/OLD 441 C.R. 500A/ 5TH AVENUE	LAKESHORE DRIVE OLD 441	STH AVENUE 2 N HIGHLAND STREET 2	2	URBAN UNDIVIDE		CITY OF MOUNT DORA	D 10,360 D 10,360	11,207 11,207	1.08 F 1.08 F	530 530	469 505 469 505	0.95	D 4.25% D 4.25%	10,360 10,360	13,800 13,800	1.33 F 1.33 F	530 530	577 577	621 1.17 621 1.17	F
1380 605 1390 602		ADJACENT County	30 35		C.R. 500A (HIGHLAND STREET) C.R. 500A/ OLD 441	STH AVENUE SR 46	SR 46 2 ORANGE COUNTY LINE 2	2	URBAN UNDIVIDE		CITY OF MOUNT DORA	D 13,320 D 10,360	2,792 5,849	0.21 C 0.56 D	680 530	179 127 325 244	0.26	C 3.50% D 5.25%	13,320 10,360	3,316 7,555	0.25 C 0.73 D	680 530	213 419	150 0.31 316 0.79	C
1400 401		County	45	1.62	C.R. 561	SR 19	CR 448 2	2	URBAN UNDIVIDE	D COUNTY	CITY OF TAVARES	D 16,820	16,583	0.99 D	840	622 825	0.98	D 4.75%	16,820	20,914	1.24 F	840	784	1,041 1.24	F
1410 257 1420 252		County County			C.R. 561	CR 448 CR 48	CR 48 2 SOUTH ASTATULA CITY LIMIT 2	2	URBAN UNDIVIDE	ED COUNTY ED COUNTY	ASTATULA/TAVARES TOWN OF ASTATULA	D 21,780 D 12,390	10,160 11,947	0.47 B 0.96 D	1,080 620	507 590 570 558	0.55	C 1.00% C 1.00%	21,780 12,390	10,678 12,556	0.49 C 1.01 F	1,080 620	533 599	620 0.57 586 0.97	C D
1430 252 1440 242		ADJACENT	40		C.R. 561	SOUTH ASTATULA CITY LIMIT CR 455	CR 455 2	2	URBAN UNDIVIDE	D COUNTY	UNINCORPORATED LAKE COUNTY UNINCORPORATED LAKE COUNTY	D 21,780 C 9,030	11,947	0.55 C 0.85 C	1,080	570 558 369 364	0.53	C 1.00% C 1.00%	21,780 9,030	12,556	0.58 C 0.90 C	1,080	599	586 0.55 382 0.82	C C
1450 238		County	40	1.77	C.R. 561	HOWEY CROSS ROAD	TURNPIKE ROAD / CR 561A 2	2	RURAL UNDIVIDE	D COUNTY	UNINCORPORATED LAKE COUNTY	C 12,260	8,115	0.66 C	640	328 385	0.60	C 1.00%	12,260	8,529	0.70 C	640	345	405 0.63	С
1460 235 1470 214	_		45 30		C.R. 561 / C.R. 561A EAST AVE/LAKE MINNEOLA DR/MAIN AVE	TURNPIKE ROAD / CR 561A US 27	US 27 2 EAST AVENUE 2		URBAN UNDIVIDE		UNINCORPORATED LAKE COUNTY CLERMONT/MINNEOLA	D 12,390 D 14,060	9,075	0.73 C 0.15 C	620 710	403 385 108 124	0.65	C 1.00% C 3.50%	12,390 14,060	9,538 2,555	0.77 C 0.18 C	620 710	423	405 0.68 147 0.21	C C
1480 214 1490 115065			30		8TH ST/OSCEOLA ST/4TH ST/CARROL ST/3RD S C.R. 561 (W MINNEOLA AVENUE)	EAST AVENUE 8TH STREET	W MINNEOLA AVENUE 2	2	URBAN UNDIVIDE		CITY OF CLERMONT	D 10,360 D 12,390	2,151	0.21 C 0.09 C	530	108 124	0.23	C 3.50%	10,360	2,555	0.25 C	530	128	147 0.28	с
1490 115065 1500 203		State ADJACENT	35	0.42		C.R. 561A	C.R. 561A 2 SR 50 2		URBAN UNDIVIDE		CITY OF CLERMONT CITY OF CLERMONT	D 12,390 D 14,060	1,085 5,175	0.09 C 0.37 C	620 710	179 186 278 212	0.30	C 1.00% C 6.50%	12,390	1,140 7,090	0.09 C 0.50 D	620 710	188 381	195 0.31 290 0.54	C D
1510 45 1520 10		County County	25 55	4.31 1.56		SR 50 LOG HOUSE ROAD	LOG HOUSE ROAD 2 FLORIDA BOYS RANCH ROAD 2		URBAN UNDIVIDE		CITY OF CLERMONT UNINCORPORATED LAKE COUNTY	D 14,060 D 16,820	6,597	0.47 C 0.22 C	710 840	326 276 159 156	0.46	C 1.00% C 2.00%	14,060 16,820	6,934 4,159	0.49 C 0.25 C	710 840	342	290 0.48 172 0.21	C C
1530 6		County	55	5.87	C.R. 561	FLORIDA BOYS RANCH ROAD	SR 33 2	2	RURAL UNDIVIDE	D COUNTY	UNINCORPORATED LAKE COUNTY	C 7,740	2,228	0.29 B	410	106 100	0.26	B 2.25%	7,740	2,491	0.32 B	410	118	112 0.29	B
1540 237 1545 234			55 55		C.R. 561A C.R. 561A	TURNPIKE ROAD / CR 561 SCRUB JAY LN	SCRUB JAY LN 2 N HANCOCK ROAD 2		URBAN UNDIVIDE		UNINCORPORATED LAKE COUNTY UNINCORPORATED LAKE COUNTY	D 12,390 D 21,780	5,274 5,529	0.43 C 0.25 B	620 1,080	199 308 201 307	0.50	C 1.25% B 1.00%	12,390 21,780	5,612 5,811	0.45 C 0.27 B	620 1,080	212 211	327 0.53 322 0.30	B
1546 234 1550 203	F		55 35		C.R. 561A C.R. 561	N HANCOCK ROAD W MINNEOLA AVE	CR 455 2 C.R. 565A 2	2	URBAN UNDIVIDE		UNINCORPORATED LAKE COUNTY UNINCORPORATED LAKE COUNTY	D 21,780 D 13,320	5,529 5,175	0.25 B 0.39 C	1,080	201 307 278 212	0.28	B 1.00% C 6.50%	21,780 13,320	5,811 7,090	0.27 B 0.53 D	1,080	211 381	322 0.30 290 0.56	B
1560 213		County	40	1.67	C.R. 561A	CR 565A	JALARMY ROAD 2	2	URBAN UNDIVIDE	D COUNTY	UNINCORPORATED LAKE COUNTY	D 16,820	6,485	0.39 C	840	316 258	0.38	C 4.50%	16,820	8,081	0.48 C	840	393	322 0.47	С
1570 223 1580 241		County County	40 55		C.R. 561 (LAKE MINNEOLA SHORES) C.R. 565	JALARMY ROAD US 27	US 27 2 KJELLSTROM LANE 2	2	RURAL UNDIVIDE		CITY OF MINNEOLA GROVELAND/MASCOTTE	D 16,820 C 14,130	2,347	0.66 C 0.17 B	840 740	397 491 167 70	0.58	C 3.00% B 5.25%	16,820 14,130	12,829 3,032	0.76 C 0.21 B	840 740	460 215	569 0.68 90 0.29	C B
1590 208 1600 118063	118063 4	County ADJACENT	40 45	0.63	C.R. 565 (VILLA CITY ROAD)	KJELLSTROM LANE	SR 50 2 SI QANS RIDGE 2	2	URBAN UNDIVIDE		CITY OF GROVELAND	D 16,820 D 16,820	5,367 865	0.32 C 0.05 C	840 840	247 249 44 42	0.30	C 4.25% C 2.00%	16,820 16,820	6,608 955	0.39 C 0.06 C	840 840	305	307 0.37 46 0.06	C C
1610 118063		State	45	5.44	C.R. 565	SLOANS RIDGE	LAKE ERIE ROAD 2	2	RURAL UNDIVIDE	D COUNTY	UNINCORPORATED LAKE COUNTY	C 7,740	865	0.11 B	410	44 42	0.11	B 2.00%	7,740	955	0.12 B	410	49	46 0.12	в
1620 201 1630 47		County County	40 55		C.R. 565A C.R. 565A	SR 50 SR 50	CR 561A 2 CR 565B 2	2	URBAN UNDIVIDE		CLERMONT/GROVELAND CITY OF GROVELAND	D 16,820 D 21,780	9,917 2,549	0.59 C 0.12 B	840	407 348 82 133	0.48	C 2.25% B 3.25%	16,820 21,780	11,084 2,991	0.66 C 0.14 B	840 1,080	454 96	389 0.54 156 0.14	C B
1640 18 1650 434		County	45 25	3.66 0.30	C.R. 565B CANAL STREET	SR 33 US 441	CR 561 2 MAIN STREET 2	2	RURAL UNDIVIDE		UNINCORPORATED LAKE COUNTY CITY OF LEESBURG	C 7,740 D 13,990	2,796 3,765	0.36 B 0.27 C	410 710	135 152 201 137	0.37	B 4.00% C 1.00%	7,740	3,401 3,957	0.44 B 0.28 C	410 710	164 211	185 0.45 144 0.30	B
1660 426		County	25	0.31	CANAL STREET	MAIN STREET	SR 44 2	2	URBAN UNDIVIDE	D CITY OF LEESBURG	CITY OF LEESBURG	D 13,320	3,169	0.24 C	680	144 127	0.21	C 1.00%	13,320	3,331	0.25 C	680	151	134 0.22	c
1670 205 1680 44		County County	35 30	1.80 0.47	CITRUS TOWER BOULEVARD CITRUS TOWER BOULEVARD	US 27 OAKLEY SEAVER DRIVE	OAKLEY SEAVER DRIVE 2 SR 50 4	2 4	URBAN UNDIVIDE URBAN DIVIDED		CITY OF CLERMONT CITY OF CLERMONT	D 14,060 D 29,160	12,296 16,240	0.87 D 0.56 D	710	651 446 561 715	0.92	D 1.00% D 1.00%	14,060 29,160	12,923 17,068	0.92 D 0.59 D	710	684 590	469 0.96 752 0.51	D
1690 28 1692 36			40 30	0.28	CITRUS TOWER BOULEVARD	SR 50 HOOKS STREET	HOOKS STREET 4 JOHNS LAKE ROAD 4	4	URBAN DIVIDED		CITY OF CLERMONT CITY OF CLERMONT	D 35,820 D 30,780	21,470 20.251	0.60 C 0.66 D	1,800	798 1,065 740 901	0.59	C 1.25% D 1.00%	35,820 30,780	22,846 21,284	0.64 C 0.69 D	1,800	849 778	1,134 0.63 947 0.61	C
1695 24			40		CITRUS TOWER BOULEVARD	JOHNS LAKE ROAD		4	URBAN DIVIDED		CITY OF CLERMONT	D 37,810	17,725	0.47 C		738 629	0.39	C 1.50%	37,810	19,095	0.51 C	1,900	795	678 0.42	C
1700 442 1710 442					DAVID WALKER DRIVE DAVID WALKER DRIVE	OLD US 441 / CR 500A CR 19A	CR 19A 2 US 441 2	2	URBAN UNDIVIDE		CITY OF TAVARES UNINCORPORATED LAKE COUNTY	D 14,060 D 14,060	8,553 8,553	0.61 D	710	388 367 388 367	0.55	D 1.00%	14,060	8,989 8,989	0.64 D	710 710	408	386 0.57 386 0.57	D
1720 449 1730 471		County	35	0.53	DAVID WALKER DRIVE DAVID WALKER DRIVE	US 441 MOUNT HOMER BOAD	MOUNT HOMER ROAD 2	2	URBAN UNDIVIDE	D COUNTY	CITY OF EUSTIS	D 14,060 D 10,360	5,694 6,537		710	214 265 334 277	0.37	C 1.00%	14,060		0.43 C	710 530	225 397	279 0.39	C D
1740 406	117014	County		2.29	DEAD RIVER ROAD	WEST TERMINI	SR 19 2	2	URBAN UNDIVIDE	D COUNTY	CITY OF TAVARES	D 21,780	6,785	0.31 B	530	276 355	0.33	B 1.00%	10,360 21,780	7,131	0.33 B	1,080	291	373 0.35	B
1750 617 1760 617	4	County ADJACENT	35 35		DONNELLY STREET DONNELLY STREET	US 441 11TH AVENUE	11TH AVENUE 2 5TH AVENUE 2	2	URBAN DIVIDED		CITY OF MOUNT DORA CITY OF MOUNT DORA	D 14,760 D 10,360	11,220 11,220	0.76 D 1.08 F	750 530	535 474 535 474	0.71	D 1.00% E 1.00%	14,760 10,360	11,792 11,792	0.80 D 1.14 F	750 530	563 563	498 0.75 498 1.06	D F
1770 258 1780 510		County	55 40	0.64	DUDA ROAD EAGLES NEST ROAD	CR 448A US 27	ORANGE COUNTY LINE 2	2	RURAL UNDIVIDE	D COUNTY	UNINCORPORATED LAKE COUNTY UNINCORPORATED LAKE COUNTY	C 9,030 D 12,390	7,250	0.80 C 0.34 C	470 620	293 323 198 133	0.69	C 1.50% C 3.75%	9,030	7,810 5,134	0.86 C	470	316	348 0.74	c c
1790 46		County	30	0.73	EAST AVENUE	CR 561	SR 50 2	2	URBAN UNDIVIDE	D CITY OF CLERMON	CITY OF CLERMONT	D 10,360	5,841	0.56 D	530		-	- 1.00%	10,360	6,139	0.59 D	620 530			-
1800 454 1810 454	4	ADJACENT County	25 25		EAST CROOKED LAKE ROAD EAST CROOKED LAKE ROAD	LAKEVIEW DRIVE BROADVIEW AVENUE	BROADVIEW AVENUE 2 US 441 2		URBAN UNDIVIDE		CITY OF EUSTIS CITY OF EUSTIS	D 10,360 D 10,360	5,153 5,153	0.50 D	530 530	273 167 273 167	0.52	D 1.00% D 1.00%	10,360	5,416 5,416	0.52 D	530 530	287 287	176 0.54 176 0.54	D
1820 501		County	35	0.77	EMERALDA AVENUE	EMERALDA ISLAND ROAD	CR 44 2	2	URBAN UNDIVIDE	D COUNTY	UNINCORPORATED LAKE COUNTY	D 13,320	4,265	0.32 C	680	266 149	0.39	C 2.50%	13,320	4,826	0.36 C	680	301	168 0.44	c
1830 41 1840 622			40 40		EMPIRE CHURCH ROAD ESTES ROAD	CR 565 CR 44A	ANDERSON ROAD 2 LAKE LINCOLN LANE 2	2	RURAL UNDIVIDE		CITY OF GROVELAND UNINCORPORATED LAKE COUNTY	C 7,740 D 15,930	1,442	0.19 B 0.28 C	410 790	 146 262	- 0.33	- 1.00% C 2.75%	7,740 15,930	1,516 5,021	0.20 B 0.32 C	410 790	- 168	300 0.38	c
1850 622 1860 452		County	40 35	0.49	ESTES ROAD EUDORA ROAD	LAKE LINCOLN LANE	SR 44 2 US 441 2	2	URBAN UNDIVIDE		UNINCORPORATED LAKE COUNTY CITY OF EUSTIS	D 16,820 D 10,360	4,384 2,998	0.26 C 0.29 C	840 530	146 262	0.31	C 2.75%	16,820 10,360	5,021 3,151	0.30 C 0.30 C	840 530	168	300 0.36	C -
1865 30		County	35	0.73	EXCALLIBUR ROAD	HOOKS STREET	CITRUS TOWER BOULEVARD 2	2	URBAN DIVIDED	COUNTY	UNINCORPORATED LAKE COUNTY	D 14,760	5,301	0.36 C	750	346 219	0.46	C 1.00%	14,760	5,572	0.38 C	750	364	230 0.49	с
1870 508 1875 221			35 40		FISH CAMP ROAD GRASSY LAKE ROAD/FOSGATE ROAD	CR 452 CR 50 (WASHINGTON STREET)	CR 44 2 HANCOCK ROAD 2	2	URBAN UNDIVIDE	D CITY OF CLERMON	UNINCORPORATED LAKE COUNTY UNINCORPORATED LAKE COUNTY	D 10,360 D 16,820	1,521 5,995	0.15 C 0.36 C	530 840	83 72 288 350	0.16	C 2.50% C 7.50%	10,360 16,820	1,721 8,606	0.17 C 0.51 C	530 840	94 414	82 0.18 503 0.60	C
1880 470 1890 0		County NO COUNT	30		GOLFLINKS AVENUE GOLFLINKS AVENUE	KURT STREET SR 19 / BAY STREET	SR 19 / BAY STREET 2 MARY STREET 2	2	URBAN UNDIVIDE		CITY OF EUSTIS CITY OF EUSTIS	D 10,360 D 12,390	940	0.09 C	530 620	45 49	0.09	C 1.00%	10,360 12,390	988	0.10 C	530 620	47	52 0.10	C -
1900 514		County	45	1.86	GOOSE PRAIRIE ROAD	EMERALDA AVENUE	CR 452 2	2	URBAN UNDIVIDE	D COUNTY	UNINCORPORATED LAKE COUNTY	D 12,390	3,168	0.26 C	620	196 111	0.32	C 3.25%	12,390	3,718	0.30 C	620	230	130 0.37	c
1910 40 1915 37	+	County County	35 25		GRAND HIGHWAY S. GRAND HIGHWAY	CITRUS TOWER BOULEVARD SR 50	SR 50 2 HOOKS STREET 4	2 4	URBAN UNDIVIDE URBAN DIVIDED		CITY OF CLERMONT CITY OF CLERMONT	D 14,060 D 29,160	6,479 5,203	0.46 C 0.18 C	710 1,470	268 273 261 203	0.39	C 1.00% C 1.00%	14,060 29,160	6,809 5,469	0.48 C 0.19 C	710 1,470	282 275	287 0.40 213 0.19	C C
1920 226 1930 517	117007	County	40		CITRUS GROVE ROAD GRAYS AIRPORT ROAD	US 27 MARION COUNTY ROAD	GRASSY LAKE ROAD 2 CR 466 2		URBAN UNDIVIDE		CITY OF MINNEOLA	D 12,390	5,319 2,911	0.43 C 0.23 C	620 620	270 173 173 118	0.44	C 12.00% C 3.25%	12,390 12,390	9,373	0.76 C 0.28 C	620 620	476 203	305 0.77 138 0.33	C C
1940 517	117007	County	45	1.25	GRAYS AIRPORT ROAD	CR 466	GRIFFIN VIEW DRIVE 2	2	URBAN UNDIVIDE	D COUNTY	UNINCORPORATED LAKE COUNTY	D 12,390	2,911	0.23 C	620	173 118	0.28	C 3.25%	12,390	3,416	0.28 C	620	203	138 0.33	С
1950 512 1960 505	117007		45 45		S GRAYS AIRPORT ROAD S GRAYS AIRPORT ROAD	GRIFFIN VIEW DRIVE EAGLES NEST ROAD	EAGLES NEST ROAD 2 US 27 / US 412 2		URBAN UNDIVIDE		UNINCORPORATED LAKE COUNTY FRUITLAND PARK	D 12,390 D 12,390	2,966 786		620 620	115 174 55 28	0.28	C 5.50% C 1.00%	12,390 12,390	3,877 826		620 620	150 58	228 0.37 30 0.09	C C
1970 536 1980 535	117008	County	35 35	0.85	GRIFFIN AVENUE GRIFFIN AVENUE	US 27 / US 411 CR 25	CR 25 2 UNCLE DONALDS LANE 2	2	URBAN UNDIVIDE	D COUNTY	TOWN OF LADY LAKE TOWN OF LADY LAKE	D 13,320 D 10,360	11,009	0.83 D	680	599 378 214 108	0.88	D 1.75% C 1.50%	13,320	12,007	0.90 D 0.36 C	680	653	412 0.96 116 0.43	D
1990 535	F	ADJACENT	35	1.66	GRIFFIN AVENUE	UNCLE DONALDS LANE	GRAYS AIRPORT ROAD 2	2	URBAN UNDIVIDE	D COUNTY	UNINCORPORATED LAKE COUNTY	D 10,360	3,469	0.33 C	530	214 108 214 108	0.40	C 1.50%	10,360	3,737	0.36 C	530	230 230	116 0.43 116 0.43	C C
2000 462 2010 515	+		25 45	0.51 1.85	GRIFFIN ROAD GRIFFIN VIEW DRIVE	US 27 US 27	LEE STREET 2 GRAYS AIRPORT ROAD 2	2	URBAN UNDIVIDE		CITY OF LEESBURG TOWN OF LADY LAKE	D 13,320 D 12,390	2,061 3,498	0.15 C 0.28 C	680 620	202 124	- 0.33	- 1.00% C 1.00%	13,320 12,390	2,166 3,676	0.16 C 0.30 C	680 620	- 212		- C
2020 516		County	45	1.64	GRIFFIN VIEW DRIVE	GRAYS AIRPORT ROAD	SULEN ROAD 2	2	RURAL UNDIVIDE	D COUNTY	UNINCORPORATED LAKE COUNTY	C 9,030	1,715	0.19 C	470	113 75	0.24	C 1.00%	9,030	1,802	0.20 C	470	118	78 0.25	c
2030 479 2040 472		County County	30 30	0.36	GROVE STREET GROVE STREET	SR 19 (BADGER AVENUE) LAKEVIEW AVENUE	LAKEVIEW AVENUE 2 GOLFLINKS AVENUE 2	2	URBAN UNDIVIDE		CITY OF EUSTIS CITY OF EUSTIS	D 10,360 D 10,360	1,475 2,561	0.14 C 0.25 C	530 530	24 106 160 71	0.20	C 1.00% C 1.00%	10,360	1,550 2,692	0.15 C 0.26 C	530 530	25 168	111 0.21 75 0.32	C C
2045 465 2050 21	117017		25		GROVE STREET	GOLFLINKS AVENUE LAKE SHORE DRIVE	OLD MT DORA ROAD 2 LIS 27 4		URBAN UNDIVIDE		CITY OF EUSTIS CITY OF CLERMONT	D 10,360 D 59,580	3,733		530	140 250 479 1 149	0.47	C 1.00% B 2.25%	10,360	3,923	0.38 C 0.35 B	530	148	263 0.50	DB
2050 21		County	53	2.19	HAMMOCK RIDGE	DATE OF OTHE DRIVE	US 27 4	4	URBAN DIVIDED	COUNTY	GITT OF GLERMONT	D 59,580	18,440	0.31 B	2,950	479 1,149	0.39	B 2.25%	59,580	20,610	0.35 B	2,950	536	1,284 0.44	U U

Item 3.

Lake County CMP Database

SEGMENT ID	COUNTY FOOT, DATA SOURCE SPEED SEGMENT ROAD NAME	FROM	то	LANES LANES URBAN / DIVIDED / (2022) (2027) BURAL UNDIVIDED	MAINTAINING AGENCY	JURISDICTION	ADOPTED LOS DAILY SERVIC	E 2022 AADT	2022 DAILY 2022 DAILY	PEAK HOUR	2022 PEAK 2022 PEAK HOUR NB/EB HOUR SB/WB	2022 PEAK HOUR V/C	2022 PEAK HOUR LOS GROWTH RATE	DAILY	2027 AADT 2027 DAILY 20	7 DAILY LOS	NAL HOUR NR/ER H	2027 PEAK IOUR SB/WB HOUR V/0	
3020	110049 110049 State 45 1.38 SR 19	CR 452 (MAIN STREET)	CR 561	(2022) (2027) RURAL UNDIVIDED 4 4 URBAN DIVIDED	STATE	CITY OF TAVARES	D 41,790	45,500	1.09 F	SERVICE VOLUME	2.203 1.892	1.05		VOLUME (2027) 41.790	56,701 1.36	F 2.100	2/) VOLUME 2,745	VOLUME	V/C HOUR LOS
3030	110049 110049 ADJACENT 45 0.90 SR 19	CR 561	LANE PARK ROAD	2 2 URBAN UNDIVIDED	STATE	CITY OF TAVARES	D 18,590	45,500	2.45 F	920	2,203 1,892	2.39	F 4.50%	18,590	56,701 3.05	F 920	2,745	2,358 2.98	F
3040 3050	110494 110494 State 55 3.87 SR 19 110495 110495 State 40 0.84 SR 19	CR 48	CENTRAL AVENUE	2 2 URBAN UNDIVIDED 2 2 URBAN UNDIVIDED	STATE	HOWEY-IN-THE-HILLS	D 14,160	8,950	0.63 C	920 700	433 372	0.71	C 1.00% C 1.00%	14,160	16,795 0.90 9,407 0.66	C 920 C 700	455	689 0.75 391 0.65	i C
3060 3070	110495 110495 ADJACENT 35 3.09 SR 19 110255 110255 State 55 2.72 SR 19	CENTRAL AVENUE CR 455	CR 455 US 27 / SR 25	2 2 URBAN UNDIVIDED 2 2 RURAL UNDIVIDED	STATE STATE	HOWEY-IN-THE-HILLS CITY OF GROVELAND	D 24,200 C 8,600	8,950 9,910		1,200 450	433 372 507 435	0.36	B 1.00% D 1.00%		9,407 0.39 10,416 1.21	B 1,200 D 450	455 533	391 0.38 457 1.18	
3080 3090	110376 110376 State 55 4.73 SR 19 110376 110376 ADJACENT 55 1.22 SR 19	US 27 / SR 25 CR 478	CR 478	2 2 RURAL UNDIVIDED 2 2 URBAN UNDIVIDED	STATE STATE	CITY OF GROVELAND	C 8,600 D 17,700	9,350 9,350	1.09 D 0.53 C	450 880	466 519 466 519	1.15 0.59	D 1.00% C 1.00%	8,600 17,700	9,827 1.14 9,827 0.56	D 450 C 880	490 490	545 1.21 545 0.62	
3100 3110	110097 110097 State 45 0.70 SR 19 115072 115072 State 40 0.52 SR 33	LAKE CATHERINE ROAD SR 50/ SR 33	SR 50/ SR 33 ANDERSON ROAD	2 2 URBAN UNDIVIDED 2 2 URBAN UNDIVIDED	STATE	CITY OF GROVELAND	D 17,700 D 18,590	12,950	0.73 C 0.79 C	880 920	449 533 470 667	0.61	C 1.50% C 4.25%	17,700	13,951 0.79 18,175 0.98	C 880 D 920	484	574 0.65 821 0.89	C
3120	110497 110497 State 60 3.16 SR 33	ANDERSON ROAD	CR 565B	2 2 RURAL UNDIVIDED	STATE	CITY OF GROVELAND	C 8,600	10,428	1.21 D	450	533 458	1.18	D 3.75%	8,600	12,535 1.46	D 450	641	551 1.42	D
3130 3140	111002 111002 State 60 6.76 SR 33 5 County 60 2.33 SR 33	CR 565B CR 561	CR 561 CR 474	2 2 RURAL UNDIVIDED 2 2 RURAL UNDIVIDED	STATE STATE	UNINCORPORATED LAKE COUNTY UNINCORPORATED LAKE COUNTY	C 8,600 C 8,600	8,242 13,084	0.96 C 1.52 D	450 450	421 362 452 415	0.94	C 1.75% D 1.25%	8,600 8,600	8,988 1.05 13,923 1.62	D 450 D 450	459 480	395 1.02 441 1.07	
3150 3160	2 County 60 1.04 SR 33 808 County 45 4.71 SR 40	CR 474 MARION COUNTY LINE	POLK COUNTY LINE CR 445A	2 2 RURAL UNDIVIDED 2 2 RURAL UNDIVIDED	STATE	UNINCORPORATED LAKE COUNTY UNINCORPORATED LAKE COUNTY	C 10,320 C 8,600	10,821 5,068	1.05 D 0.59 C	540 450	352 544 169 217	1.01	D 4.50% B 2.75%	10,320 8,600	13,485 1.31 5,805 0.68	F 540 C 450	438 193	678 1.26 248 0.55	
3170 3180	110503 110503 State 55 1.61 SR 40 110050 110050 State 45 1.43 SR 40	CR 445A RIVER ROAD	RIVER ROAD VOLUSIA COUNTY LINE	2 2 RURAL UNDIVIDED 2 2 RURAL DIVIDED	STATE	UNINCORPORATED LAKE COUNTY UNINCORPORATED LAKE COUNTY	C 10,320 C 14,220	5,370 10,180	0.52 C 0.72 C	540 740	274 236 401 406	0.51	C 1.00% C 4.75%	10,320 14,220	5,644 0.55 12,839 0.90	C 540 C 740	288 506	248 0.53 512 0.69	
3190	110496 110496 State 55 2.38 SR 44	SUMTER COUNTY LINE	CR 468	4 4 URBAN DIVIDED	STATE	CITY OF LEESBURG	D 39,800	21,800	0.55 C	2,000	1,071 964	0.54	C 1.00%	39,800	22,912 0.58	C 2,000	1,126	1,013 0.56	i C
3200 3210	110487 110487 State 45 1.54 SR 44 115147 115147 State 35 0.76 SR 44	CR 468 S LONE OAK DRIVE	S LONE OAK DRIVE US 27	4 4 URBAN DIVIDED 4 4 URBAN DIVIDED	STATE	CITY OF LEESBURG	D 39,800 D 32,400	16,540 19,480	0.42 C 0.60 D	2,000	610 720 835 769	0.36	C 1.00% D 1.00%	39,800 32,400	17,384 0.44 20,474 0.63	C 2,000 D 1,630	878	757 0.38 808 0.54	D
3220 3230	115179 115179 State 35 0.57 SR 44 (DIXIE AVENUE) 115143 115143 ADJACENT 35 0.34 SR 44 (DIXIE AVENUE)	US 27 S 9TH STREET	S 9TH STREET CANAL STREET	4 4 URBAN DIVIDED 4 4 URBAN DIVIDED	STATE	CITY OF LEESBURG	D 32,400 D 32,400	27,300 23,200	0.84 D 0.72 D	1,630	1,322 1,135 922 928	0.81	D 1.25% D 1.00%	32,400 32,400	29,049 0.90 24,383 0.75	D 1,630 D 1,630	1,407 969	1,208 0.86 975 0.60	
3240 3250	115143 115143 State 40 0.41 SR 44 (DIXIE AVENUE) 115142 115142 State 40 0.79 SR 44 (DIXIE AVENUE)	CANAL STREET S LAKE STREET	S LAKE STREET E MAIN STREET	4 4 URBAN DIVIDED 4 4 URBAN DIVIDED	STATE	CITY OF LEESBURG CITY OF LEESBURG	D 39,800 D 39,800	23,200 18,760	0.58 C 0.47 C	2,000	922 928 908 780	0.46	C 1.00% C 1.00%	39,800 39,800	24,383 0.61 19,717 0.50	C 2,000 C 2,000	969 954	975 0.49 820 0.48	
3260 3262	115183 115183 State 40 0.11 SR 44 (DIXIE AVENUE) 110005 110005 State 45 0.45 SR 44 (QLD C.R. 44B)	E MAIN STREET	US 441 WAYCROSS AVENUE	4 4 URBAN DIVIDED 2 2 URBAN DIVIDED	STATE	CITY OF LEESBURG	D 41,790	18,760	0.45 C	2,100 970	908 780 1,235 1,060	0.43	C 1.00%	41,790 19.510	19,717 0.47 26.801 1.37	C 2,100 F 970	954 1.298	820 0.45 1.114 1.34	
3268	110006 110006 State 45 1.65 SR 44 (OLD C.R. 44B)	WAYCROSS AVENUE	ORANGE AVENUE	2 2 URBAN UNDIVIDED	STATE	EUSTIS/MOUNT DORA	D 18,590	17,880	0.96 D	920	907 637	0.99	D 1.00%	18,590	18,792 1.01	F 920	953	669 1.04	F
3270 3280	110500 110500 ADJACENT 55 2.27 SR 44 110500 110500 ADJACENT 55 1.14 SR 44	ABRAMS ROAD THRILL HILL ROAD	THRILL HILL ROAD CR 439	2 2 URBAN UNDIVIDED 2 2 URBAN UNDIVIDED	STATE STATE	CITY OF EUSTIS CITY OF MOUNT DORA	D 18,590 D 17,700	13,810 13,810	0.74 C 0.78 C	920 880	706 606 706 606	0.77	C 1.00% C 1.00%	18,590 17,700	14,514 0.78 14,514 0.82	C 920 C 880	742 742	637 0.81 637 0.84	С
3290 3300	110500 110500 State 55 3.03 SR 44 110500 110500 ADJACENT 55 1.15 SR 44	CR 439 CR 437	CR 437 CR 46A	2 2 RURAL UNDIVIDED 2 2 RURAL UNDIVIDED	STATE	UNINCORPORATED LAKE COUNTY UNINCORPORATED LAKE COUNTY	C 15,700 C 13,550	13,810 13,810	0.88 C 1.02 D	820 700	706 606 706 606	0.86	C 1.00% D 1.00%	15,700 13,550	14,514 0.92 14,514 1.07	C 820 D 700	742 742	637 0.90 637 1.06	
3310 3320	110010 110010 ADJACENT 55 3.43 SR 44 110010 110010 ADJACENT 55 5.34 SR 44	CR 46A CR 44A	CR 44A OVERLOOK DRIVE	2 2 RURAL UNDIVIDED 2 2 RURAL UNDIVIDED	STATE	UNINCORPORATED LAKE COUNTY UNINCORPORATED LAKE COUNTY	C 8,600 C 8,600	9,383 9,383	1.09 D	450 450	480 412 480 412	1.07	D 1.00% D 1.00%	8,600 8,600	9,861 1.15 9,861 1.15	D 450 D 450	504 504	433 1.12 433 1.12	
3330	110010 110010 State 55 5.64 SR 44	OVERLOOK DRIVE CR 42	CR 42 VOLUSIA COUNTY LINE	2 2 RURAL UNDIVIDED 2 2 RURAL UNDIVIDED	STATE	UNINCORPORATED LAKE COUNTY	C 15,700 C 13,550	9,383	0.60 B	820	480 412 480 412	0.59	B 1.00% C 1.00%	15,700	9,861 0.63 9,861 0.73	B 820 C 700	504	433 0.61	В
3344	110200 110200 State - 1.80 SR 429 (WEKIVA PKWY)	ORANGE C/L	CR 46A (REALIGNED)	4 4 URBAN DIVIDED	STATE	UNINCORPORATED LAKE COUNTY UNINCORPORATED LAKE COUNTY	D 66,200	6,200	0.09 B	3,280	422 322	0.13	B 4.25%	66,200	7,634 0.12	B 3,280	504 519	396 0.16	в
3345 3350	610 County - 5.54 SR 46 110501 110501 ADJACENT 45 1.08 SR 46	CR 46A (REALIGNED) US 441	SEMINOLE C/L VISTA VIEW	4 4 URBAN DIVIDED 6 6 URBAN DIVIDED	STATE	UNINCORPORATED LAKE COUNTY CITY OF MOUNT DORA	D 66,200 D 62,900	17,646 13,420	0.27 B 0.21 C	3,280 3,170	657 874 650 558	0.27	B 1.00% C 3.25%	66,200 62,900	18,547 0.28 15,747 0.25	B 3,280 C 3,170	691 763	919 0.28 655 0.24	
3360 3370	110501 110501 State 55 0.94 SR 46 110001 110001 ADJACENT 55 2.11 SR 46	VISTA VIEW ROUND LAKE ROAD	ROUND LAKE ROAD CR 437 SOUTH	6 6 URBAN DIVIDED 2 2 URBAN UNDIVIDED	STATE	CITY OF MOUNT DORA	D 62,900 D 24,200	13,420 14,950	0.21 C 0.62 C	3,170	650 558 600 600	0.21	C 3.25% C 1.50%	62,900 24,200	15,747 0.25 16,105 0.67	C 3,170 C 1,200	763 646	655 0.24 646 0.54	
3380 3390	110001 110001 State 45 0.51 SR 46 111019 111019 State 45 1.11 SR 46	CR 437 SOUTH CR 437 NORTH	CR 437 NORTH CR 435	2 2 URBAN UNDIVIDED 2 2 URBAN UNDIVIDED	STATE	UNINCORPORATED LAKE COUNTY UNINCORPORATED LAKE COUNTY	D 17,700 D 17,700	14,950 13,230	0.84 C 0.75 C	880 880	600 600 641 550	0.68	C 1.50% C 1.00%	17,700 17,700	16,105 0.91 13,905 0.79	C 880 C 880	646 674	646 0.73 578 0.77	
3395	611 118115 County 45 0.87 SR 46	CR 435	CR 46A (REALIGNED)	2 2 URBAN UNDIVIDED	STATE	UNINCORPORATED LAKE COUNTY	D 17,700	10,963	0.62 C	880	467 480	0.54	C 1.00%	17,700	11,522 0.65	C 880	490	504 0.57	с
3420 3430	110319 110319 State 55 3.64 SR 50 110319 110319 ADJACENT 35 0.77 SR 50	SUMTER COUNTY LINE CR 565 / BAY LAKE ROAD	CR 565 / BAY LAKE ROAD CR 33	2 2 URBAN UNDIVIDED 2 2 URBAN UNDIVIDED	STATE STATE	UNINCORPORATED LAKE COUNTY CITY OF MASCOTTE	D 24,200 D 14,800	14,320 14,320	0.59 C 0.97 D	1,200	591 649 591 649	0.54	C 1.50% D 1.50%	24,200 14,800	15,427 0.64 15,427 1.04	C 1,200 E 750	637	699 0.58 699 0.93	
3440 3450	110241 110241 State 45 0.96 SR 50 110241 110241 ADJACENT 45 0.63 SR 50	CR 33 GROVELAND FARMS ROAD	GROVELAND FARMS ROAD SR 50 ONE WAY PAIRS	4 4 URBAN DIVIDED 4 4 URBAN DIVIDED	STATE	CITY OF MASCOTTE CITY OF GROVELAND	D 39,800 D 41,790	26,000 26,000	0.65 C 0.62 C	2,000 2,100	942 1,013 942 1,013	0.51	C 1.00% C 1.00%	39,800 41,790	27,326 0.69 27,326 0.65	C 2,000 C 2,100	990 990	1,065 0.53 1,065 0.51	
3460 3470	115182 115182 State 35 0.44 SR 50 (E) 115077 115077 State 35 0.44 SR 50 (W)	SR 50 ONE WAY PAIRS SR 19	SR 19 SR 50 ONE WAY PAIRS	4 4 URBAN DIVIDED 4 4 URBAN DIVIDED	STATE	CITY OF GROVELAND CITY OF GROVELAND	D 19,440 D 19,440	12,350 16,800	0.64 D	1,960	1,110 0 0 1,510	0.57	D 1.00% D 1.75%	19,440 19,440	12,980 0.67 18,322 0.94	D 1,960 D 1,960	1,167	0 0.60	
3481 3491	115181 115181 State 35 0.33 SR 50 (E) 115076 115076 State 35 0.34 SR 50 (W)	SR 19 SR 33 SOUTH	SR 33 SOUTH SR 19	4 4 URBAN DIVIDED 4 4 URBAN DIVIDED	STATE	CITY OF GROVELAND	D 19,440	12,750	0.66 D	1,960	1,146 0 0 1.322	0.58	D 1.00%	19,440 19.440	13,400 0.69 15,450 0.79	D 1,960	1,204	0 0.61	
3500	115134 115134 State 55 1.53 SR 50	SR 33 SOUTH	CR 565A NORTH	4 4 URBAN DIVIDED	STATE	CITY OF GROVELAND	D 41,790	30,314	0.73 C	2,100	1,468 1,260	0.70	C 1.00%	41,790	31,861 0.76	C 2,100	1,543	1,324 0.73	c C
3510 3520	110396 110396 State 55 3.15 SR 50 115057 115057 State 40 1.19 SR 50	CR 565A NORTH CR 561	CR 561 EAST AVENUE	4 4 URBAN DIVIDED 4 4 URBAN DIVIDED	STATE STATE	CITY OF GROVELAND CITY OF CLERMONT	D 41,790 D 39,800	29,500 35,600	0.71 C 0.89 C	2,100 2,000	1,059 2,242 1,724 1,480	1.07 0.86	F 1.00% C 1.50%		31,005 0.74 38,351 0.96	C 2,100 D 2,000	1,113 1,857	2,356 1.12 1,594 0.93	с
3530 3540	115050 115050 State 40 0.92 SR 50 110390 110390 State 55 2.14 SR 50	EAST AVENUE US 27	US 27 HANCOCK ROAD	4 4 URBAN DIVIDED 6 6 URBAN DIVIDED	STATE	CITY OF CLERMONT UNINCORPORATED LAKE COUNTY	D 41,790 D 62,900	32,650 54,629	0.78 C 0.87 C	2,100 3,170	1,581 1,358 2,645 2,271	0.75	C 1.00% C 1.00%	41,790 62,900	34,315 0.82 57,415 0.91	C 2,100 C 3,170	1,662 2,780	1,427 0.79 2,387 0.88	
3550 3560	110390 110390 ADJACENT 55 1.49 SR 50 750572 750572 State 50 1.53 SR 50	HANCOCK ROAD CR 455	CR 455 ORANGE COUNTY LINE	6 6 URBAN DIVIDED 6 6 URBAN DIVIDED	STATE	UNINCORPORATED LAKE COUNTY UNINCORPORATED LAKE COUNTY	D 62,900 D 62,900	54,629 53,750	0.87 C 0.85 C	3,170 3,170	2,645 2,271 2,574 2,264	0.83	C 1.00% C 1.00%	62,900 62,900	57,415 0.91 56,492 0.90	C 3,170 C 3,170	2,780 2,705	2,387 0.88 2,379 0.85	
3562	972200 972200 State 70 1.38 SR 91 (FLORIDA TURNPIKE)	SUMTER COUNTY LINE	CR 470	4 4 URBAN FREEWAY	STATE	UNINCORPORATED LAKE COUNTY	B 47,600	46,882	0.98 B	2,230	2,648 2,274	1.19	C 1.00%	47,600	49,273 1.04	C 2,230	2,783	2,390 1.25	С
3566	972006 972006 State 70 3.72 SR 91 (FLORIDA TURNPIKE)	CR 470 US 27/SR 25	US 27/SR 25 US 27/SR 25/SR 19 INTERCHANGE	4 4 URBAN FREEWAY 4 8 URBAN FREEWAY	STATE STATE	UNINCORPORATED LAKE COUNTY	B 47,600 B 47,600	49,600 43,670		2,230 2,230	2,661 1,803 2,733 1,852	1.23	C 1.00% C 1.00%	92,200	45,898 0.50	C 2,230 B 4,310	2,797 2,872	1,895 1.25 1,946 0.67	в
3568 3569	972005 972005 State 70 10.82 SR 91 (FLORIDA TURNPIKE) 29 County 30 0.84 STEVES ROAD	US 27/SR 25/SR 19 INTERCHANGE US 27	ORANGE COUNTY LINE CITRUS TOWER BOULEVARD	4 8 URBAN FREEWAY 2 2 URBAN UNDIVIDED	STATE COUNTY	UNINCORPORATED LAKE COUNTY CITY OF CLERMONT	C 66,400 D 14,060	66,200 7,625	1.00 C 0.54 D	3,100 710	3,551 2,407 335 441	1.15	D 1.00% D 2.00%	128,900 14,060	69,577 0.54 8,418 0.60	B 6,030 D 710	3,732 370	2,530 0.62 487 0.69	
3570 3580	429 County 20 1.46 SUNNYSIDE DRIVE 423 117012 County 35 3.31 SUNNYSIDE DRIVE	MAIN STREET/DR NICHOLS DRIVE SLEEPY HOLLOW ROAD	SLEEPY HOLLOW ROAD BRIDGEWATER COURT	2 2 URBAN UNDIVIDED 2 2 URBAN UNDIVIDED	COUNTY	CITY OF LEESBURG CITY OF LEESBURG	D 14,060 D 21,780	4,411 2,640	0.31 C 0.12 B	710	163 254 182 98	0.36	C 2.50% B 2.00%	14,060 21,780	4,990 0.35 2,915 0.13	C 710 B 1,080	184 201	288 0.41 108 0.19	
3590 3600	414 117013 County 35 1.14 SUNNYSIDE DRIVE 466 County 35 0.79 THOMAS AVENUE	BRIDGEWATER COURT CR 460	SUNNYSIDE DRIVE CR 44A	2 2 URBAN UNDIVIDED 2 2 URBAN UNDIVIDED	COUNTY	UNINCORPORATED LAKE COUNTY CITY OF LEESBURG	D 10,360 D 10,360	1,523 9,755	0.15 C 0.94 D	530 530	53 70 405 529	0.13	C 1.00%	10,360 10,360	1,601 0.15 10,253 0.99	C 530 D 530	56 426	74 0.14 556 1.05	С
3610	457 County 35 1.07 THOMAS AVENUE	GRIFFIN ROAD (CR 44A)	MAIN STREET	2 2 URBAN UNDIVIDED	CITY OF LEESBURG	CITY OF LEESBURG	D 10,360	7,696	0.54 D	530	393 340	0.74	D 1.00%	10,360	8,089 0.78	D 530	420	358 0.78	
3620 3630	211 County 30 0.32 TURKEY FARM ROAD 0 NO COUNT 35 4.19 TUSCANOOGA ROAD	OLD HWY 50 SUMTER COUNTY LINE	EGG ROAD	2 2 URBAN UNDIVIDED 2 2 RURAL UNDIVIDED	COUNTY	UNINCORPORATED LAKE COUNTY	D 10,360 C 7,740	- 209	0.02 C	530 410		-	- N/A	10,360 7,740	220 0.02	C 530 - 410		13 0.02	- C
3640 3650	216 County 40 0.54 TUSCANOOGA ROAD 219 County 40 0.31 UNDERPASS ROAD	EGG ROAD CR 33	SR 50 AMERICAN LEGION ROAD	2 2 URBAN UNDIVIDED 2 2 URBAN UNDIVIDED	COUNTY COUNTY	CITY OF MASCOTTE CITY OF MASCOTTE	C 15,960 D 16,820	2,543 1,080	0.16 C 0.06 C	790 840	157 101 61 60	0.20	C 2.00% C 2.00%	15,960 16,820	2,807 0.18 1,193 0.07	C 790 C 840	174 68	111 0.22 67 0.08	
3660 3670	110470 110470 State 55 1.01 US 192 538 County 45 1.11 US 27/US441	US 27 SUMTER COUNTY LINE	ORANGE COUNTY LINE GRIFFIN AVENUE	6 6 URBAN DIVIDED 6 6 URBAN DIVIDED	STATE	UNINCORPORATED LAKE COUNTY TOWN OF LADY LAKE	D 62,900 D 59,900	47,750 35,295	0.76 C 0.59 C	3,170 3.020	2,312 1,985 1.446 1.484	0.73	C 1.00%	62,900 59.900	50,186 0.80 37,095 0.62	C 3,170 C 3,020	2,430	2,086 0.77 1.560 0.52	
3680	111012 111012 State 45 1.12 US 27/US441	GRIFFIN AVENUE ALT US 441 / ALT US 27	ALT US 441 / ALT US 27 CR 466	4 8 URBAN DIVIDED 4 6 URBAN DIVIDED	STATE	TOWN OF LADY LAKE	D 41,790	30,300	0.73 C	2,100	1,467 1,260	0.70	C 1.50%	84,110	32,642 0.39	C 4,240 C 3,170	1,580	1,357 0.37 1,357 0.50	с
3700	111021 111021 State 55 2.27 US 27/US441	CR 466	LAKE ELLA ROAD	4 6 URBAN DIVIDED	STATE	TOWN OF LADY LAKE	D 41,790	29,800	0.71 C	2,100 2,100 2,000	1,400 1,200	0.70	C 1.00%		32,642 0.52 31,320 0.50	C 3,170	1,471	1,261 0.46	i C
3710 3720	110430 110430 State 55 1.89 US 27/US441 110431 110431 State 45 1.35 US 27/US441	LAKE ELLA ROAD CR 466A / MILLER BOULEVARD	CR 466A / MILLER BOULEVARD CR 460 (MARTIN LUTHER KING BLVD)	6 6 URBAN DIVIDED 6 6 URBAN DIVIDED	STATE	FRUITLAND PARK FRUITLAND PARK	D 59,900 D 59,900	29,350 37,800		3,020 3,020	1,421 1,220 1,830 1,572	0.47	C 1.00% C 1.00%		30,847 0.51 39,728 0.66	C 3,020 C 3,020	1,493 1,923	1,282 0.49 1,652 0.64	С
3730 3740	110109 110109 ADJACENT 45 0.51 US 27/US441 110109 110109 State 45 0.67 US 27/US441	CR 460 (MARTIN LUTHER KING BLVD) CR 466A (LEE ROAD)	CR 466A (LEE ROAD) CR 44A/ GRIFFIN ROAD	6 6 URBAN DIVIDED 6 6 URBAN DIVIDED	STATE	CITY OF LEESBURG CITY OF LEESBURG	D 59,900 D 59,900	41,600 41,600	0.69 C 0.69 C	3,020 3,020	2,014 1,730 2,014 1,730	0.67	C 1.00% C 1.00%	59,900 59,900	43,722 0.73 43,722 0.73	C 3,020 C 3,020	2,117 2,117	1,818 0.70 1,818 0.70	
3750 3760	110109 110109 ADJACENT 35 0.15 US 27/US441 115120 115120 State 35 1.04 US 27/SR 25	CR 44A/ GRIFFIN ROAD US 27/US441 SPLIT	US 27/US441 SPLIT MAIN STREET	6 6 URBAN DIVIDED 4 4 URBAN DIVIDED	STATE	CITY OF LEESBURG CITY OF LEESBURG	D 50,000 D 32,400	41,600 28,300	0.83 D 0.87 D	2,520	2,014 1,730 1,370 1,177	0.80	D 1.00% D 1.00%	50,000 32,400	43,722 0.87 29,744 0.92	D 2,520 D 1,630	2,117 1,440	1,818 0.84 1,237 0.88	
3770 3780	11510 11510 State 35 0.57 US 27/SR 25 115119 115116 State 35 0.63 US 27/SR 25	MAIN STREET SR 44	SR 44 CR 25A (NORTH)	4 4 URBAN DIVIDED 4 4 URBAN DIVIDED 4 4 URBAN DIVIDED	STATE	CITY OF LEESBURG	D 32,400 D 32,400 D 32,400	29,100	0.90 D	1,630	1,409 1,210 2,147 1,844	0.86	D 2.00%	32,400	32,129 0.99 47,778 1.47	D 1,630 F 1.630	1,556	1,336 0.95 1,987 1.42	i D
3785	110014 110014 State 55 2.16 US 27/SR 25	CR 25A (NORTH)	CR 33	4 4 URBAN DIVIDED	STATE	CITY OF LEESBURG	D 41,790	35,700	0.85 C	2,100	1,729 1,484	0.82	C 1.00%	41,790	37,521 0.90	C 2,100	1,817	1,560 0.87	c c
3790 3800	110014 110014 ADJACENT 55 1.12 US 27/SR 25 110362 110362 State 55 2.54 US 27/SR 25	CR 33 CR 48	CR 48 PLANTATION BOULEVARD	4 4 URBAN DIVIDED 4 4 URBAN DIVIDED	STATE STATE	UNINCORPORATED LAKE COUNTY UNINCORPORATED LAKE COUNTY	D 41,790 D 66,200	35,700 29,750	0.85 C 0.45 B	2,100 3,280	1,729 1,484 1,222 1,260	0.82	C 1.00% B 1.75%	41,790 66,200	37,521 0.90 32,446 0.49	C 2,100 B 3,280	1,817	1,560 0.87 1,374 0.42	
3810 3820	110362 110362 ADJACENT 55 2.67 US 27/SR 25 240 110364 County 55 4.08 US 27/SR 25	PLANTATION BOULERVARD FLORIDA TURNPIKE	FLORIDA TURNPIKE SR 19	4 4 URBAN DIVIDED 4 4 URBAN DIVIDED	STATE	UNINCORPORATED LAKE COUNTY CITY OF GROVELAND	D 66,200 D 41,790	29,750 26,086	0.45 B 0.62 C	3,280 2,100	1,222 1,260 1,059 989	0.38	B 1.75% C 1.00%	66,200 41,790	32,446 0.49 27,417 0.66	B 3,280 C 2,100	1,333	1,374 0.42 1,040 0.53	
3830 3840	110363 110363 State 55 3.36 US 27/SR 25 110468 110468 State 55 2.14 US 27/SR 25	SR 19 CR 561	CR 561 CR 561A	4 4 URBAN DIVIDED 4 4 URBAN DIVIDED	STATE STATE	CITY OF GROVELAND	D 66,200 D 41,790	21,120 32,150		3,280 2,100	925 963 1,380 1,563	0.29			22,752 0.34 33,790 0.81	B 3,280 C 2,100	996	1,037 0.32 1,643 0.78	В
3850	110163 110163 State 50 0.38 US 27/SR 25	CR 561A	CR 561/ MAIN AVENUE	6 6 URBAN DIVIDED	STATE	CITY OF MINNEOLA	D 62,900	41,100	0.65 C	3,170	1,990 1,709	0.63	C 1.00%	62,900	43,197 0.69	C 3,170	2,092	1,796 0.66	C
3860 3870	110163 110163 ADJACENT 50 0.68 US 27/SR 25 110423 110423 State 50 0.79 US 27/SR 25	CR 561/ MAIN AVENUE CR 50	CR 50 GRAND HIGHWAY	6 6 URBAN DIVIDED 6 6 URBAN DIVIDED	STATE	CITY OF MINNEOLA CITY OF MINNEOLA	D 59,900 D 59,900	41,100 29,000	0.69 C 0.48 C	3,020 3,020	1,990 1,709 1,084 1,040	0.66	C 1.00% C 1.00%	59,900 59,900	43,197 0.72 30,479 0.51	C 3,020 C 3,020	2,092	1,796 0.69 1,093 0.38	C
3880 3890	115047 115047 State 50 1.22 US 27/SR 25 110012 110012 State 55 1.54 US 27/SR 25	GRAND HIGHWAY SR 50	SR 50 JOHNS LAKE ROAD	6 6 URBAN DIVIDED 6 6 URBAN DIVIDED	STATE	CITY OF CLERMONT CITY OF CLERMONT	D 62,900 D 62,900	31,500 31,740	0.50 C 0.50 C	3,170 3,170	1,322 1,455 1,537 1,320	0.46	C 4.00% C 1.00%	62,900 62,900	38,325 0.61 33,359 0.53	C 3,170 C 3,170	1,608 1,615	1,770 0.56 1,387 0.51	
3900 3910	110011 110011 State 55 2.06 US 27/SR 25 110311 110311 State 55 0.95 US 27/SR 25	JOHNS LAKE ROAD HARDWOOD MARSH ROAD	HARDWOOD MARSH ROAD LAKE LOUISA ROAD	6 6 URBAN DIVIDED 6 6 URBAN DIVIDED	STATE	UNINCORPORATED LAKE COUNTY UNINCORPORATED LAKE COUNTY	D 62,900 D 62,900	36,900 24,200	0.59 C 0.38 C	3,170 3,170	1,787 1,534 1,247 1,378	0.56	C 1.00% C 1.00%	62,900 62,900	38,782 0.62 25,434 0.40	C 3,170 C 3,170	1,878 1,311	1,612 0.59 1,448 0.46	
3920	110007 110007 State 65 6.51 US 27/SR 25	LAKE LOUISA ROAD BOGGY MARSH RD	BOGGY MARSH RD CR 474	6 6 RURAL DIVIDED 6 6 URBAN DIVIDED	STATE	UNINCORPORATED LAKE COUNTY UNINCORPORATED LAKE COUNTY	D 48,090 D 62,900	21,400		2,520	1,094 939 1,094 939	0.43	C 1.00%		22,492 0.47	C 2,520 C 3,170	1,150	987 0.46 987 0.36	C
3930	1 County 55 1.72 US 27/SR 25	CR 474	US 192	6 6 URBAN DIVIDED	STATE	UNINCORPORATED LAKE COUNTY	D 62,900	55,383	0.88 C	3,170	1,945 1,878	0.35	C 1.00%	62,900		C 3,170	2,045	1,974 0.65	C
3940 3950	115096 115096 State 35 0.75 US 441/SR 500 110492 110492 State 35 0.42 US 441/SR 500	US 27/US441 SPLIT LEE STREET	LEE STREET N CANAL STREET	4 4 URBAN DIVIDED 4 4 URBAN DIVIDED	STATE	CITY OF LEESBURG CITY OF LEESBURG	D 34,020 D 32,400	29,150 31,850	0.98 D	1,710	1,411 1,212 1,542 1,324	0.83	D 1.00% D 1.00%	32,400	30,637 0.90 33,475 1.03	D 1,710 E 1,630	1,483	1,274 0.87 1,392 0.99	D
3960 3970	115093 115093 State 45 1.06 US 441/ SR 500 115092 115092 State 45 0.25 US 441/ SR 500	N CANAL STREET E DIXIE AVENUE	E DIXIE AVENUE E MAIN STREET	4 4 URBAN DIVIDED 6 6 URBAN DIVIDED	STATE	CITY OF LEESBURG CITY OF LEESBURG	D 41,790 D 59,900	33,850 44,550	0.81 C 0.74 C	2,100 3,020	1,386 1,158 2,157 1,852	0.66	C 1.00% C 1.00%	41,790 59,900	35,577 0.85 46,822 0.78	C 2,100 C 3,020	1,457 2,267	1,217 0.69 1,946 0.75	
3980 3990	110177 110177 State 45 1.41 US 441/SR 500 110177 110177 ADJACENT 45 3.07 US 441/SR 500	E MAIN STREET CR 44	CR 44 RADIO ROAD	6 6 URBAN DIVIDED 6 6 URBAN DIVIDED	STATE	CITY OF LEESBURG	D 59,900 D 62,900	34,100 34,100	0.57 C	3,020 3,170	1,654 1,415 1,654 1,415	0.55	C 1.00% C 1.00%	59,900 62,900	35,839 0.60 35,839 0.57	C 3,020 C 3,170	1,738 1,738	1,487 0.58 1,487 0.55	С
2990	10111 / Demolarit 40 5.07 05441/ 5rt 300	1			JIAIL	OF TEESDURG	5 02,900	34,100	0.04 0	3,170	1,410	0.32	5 1.00%	52,000		3,170	1,750	.,-0. 0.00	

Item 3.





Motor Vehicle Arterial Generalized Service Volume Tables

Peak Hour Directional

В

AADT

it.		В	С	D	E
	1 Lane	*	760	1,070	**
	2 Lane	*	1,520	1,810	**
	3 Lane	*	2,360	2,680	**
burban	4 Lane	*	3,170	3,180	**
orcial)					

**	2 Lane	*	1,380	1,950
**	4 Lane	*	2,760	3,290
**	6 Lane	*	4,290	4,870
**	8 Lane	*	5,760	5,780

	В	С	D	E
2 Lane	*	15,300	21,700	**
4 Lane	*	30,700	36,600	**
6 Lane	*	47,700	54,100	**
8 Lane	*	64,000	64,200	**

(C3C-Suburbar Commercial)



	В	С	D	E
1 Lane	*	970	1,110	**
2 Lane	*	1,700	1,850	**
3 Lane	*	2,620	2,730	**

	В	С	D	E
2 Lane	*	1,760	2,020	**
4 Lane	*	3,090	3,360	**
6 Lane	*	4,760	4,960	**

С

D

E **

**

**

	В	С	D	E
2 Lane	*	19,600	22,400	**
4 Lane	*	34,300	37,300	**
6 Lane	*	52,900	55,100	**

(C3R-Suburban Residential)

Adjustment Factors

The peak hour directional service volumes should be adjust by multiplying by 1.2 for one-way facilities The AADT service volumes should be adjusted by multiplying 0.6 for one way facilities 2 Lane Divided Roadway with an Exclusive Left Turn Lane(s): Multiply by 1.05

2 lane Undivided Roadway with No Exclusive Left Turn Lane(s): Multiply by 0.80

Exclusive right turn lane(s): Multiply by 1.05 Multilane Undivided Roadway with an Exclusive Left Turn Lane(s): Multiply by 0.95 Multilane Roadway with No Exclusive Left Turn Lane(s): Multiply by 0.75 Non-State Signalized Roadway: Multiply by 0.90

This table does not constitute a standard and should be used only for general planning applications. The table should not be used for corridor or intersection design, where more refined techniques exist. * Cannot be achieved using table input value defaults.

** Not applicable for that level of service letter grade. For the automobile mode, volumes greater than level of service D become F because intersection capacities have been reached.



C1 & C2

Motor Vehicle Highway Generalized Service Volume Tables

(C1-Natural &

T	Peak Hour	Direction	nal		
		В	С	D	E
	1 Lane	240	430	730	1,490
	2 Lane	1,670	2,390	2,910	3,340
	3 Lane	2,510	3,570	4,370	5,010

Peak Hour Two-Way

	В	С	D	E
2 Lane	440	780	1,330	2,710
4 Lane	3,040	4,350	5,290	6,070
6 Lane	4,560	6,490	7,950	9,110

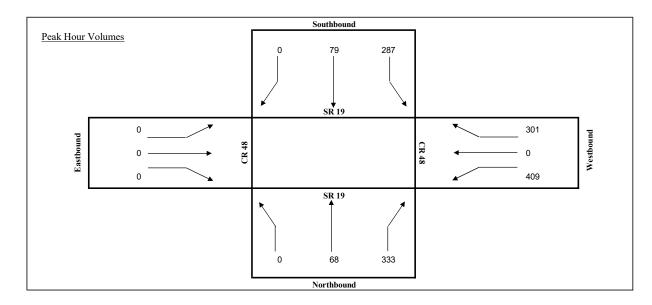
AADT										
	В	С	D	E						
2 Lane	4,600	8,200	14,000	28,500						
4 Lane	32,000	45,800	55,700	63,900						
6 Lane	48,000	68,300	83,700	95,900						

C2-Rural) Adjustment Factors

2 Lane Divided Roadway with Exclusive Left Turn Adjustment: Multiply by 1.05 Multilane Undivided Highway with Exclusive Left Turn Adjustment: Multiply by 0.95 Multilane Undivided Highway without Exclusive Left Turn Adjustment:: Multiply by 0.75 Appendix D Turning Movement Counts and Seasonal Factor Data

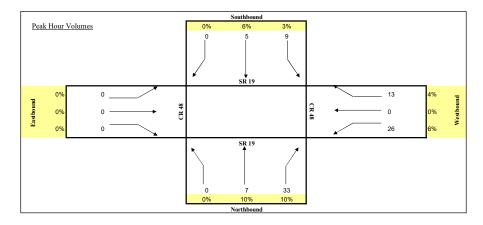
Intersection (N/S): SR 19 Intersection (E/W): CR 48 Date: 7/19/2023

_				SR 19			SR 19			CR 48			CR 48		
				NB			SB			EB			WB		
	Start	End	L	Т	R	L	Т	R	L	Т	R	L	Т	R	TOTAL
	4:00 PM	4:15 PM	0	19	82	68	13	0	0	0	0	84	0	65	331
	4:15 PM	4:30 PM	0	24	91	71	13	0	0	0	0	83	0	79	361
	4:30 PM	4:45 PM	0	18	72	68	17	0	0	0	0	93	0	76	344
	4:45 PM	5:00 PM	0	23	90	85	15	0	0	0	0	92	0	61	366
	5:00 PM	5:15 PM	0	18	71	73	23	0	0	0	0	88	0	73	346
	5:15 PM	5:30 PM	0	15	80	71	19	0	0	0	0	114	0	80	379
	5:30 PM	5:45 PM	0	12	92	58	22	0	0	0	0	115	0	87	386
	5:45 PM	6:00 PM	0	16	70	54	14	0	0	0	0	94	0	72	320
_															
Total for:	4:00 PM	5:00 PM	0	84	335	292	58	0	0	0	0	352	0	281	1402
Total for:	5:00 PM	6:00 PM	0	61	313	256	78	0	0	0	0	411	0	312	1431
Tota Peak Hour:	4:45 PM	5:45 PM	0	68	333	287	79	0	0	0	0	409	0	301	1477
Overall PHF:	0.96														



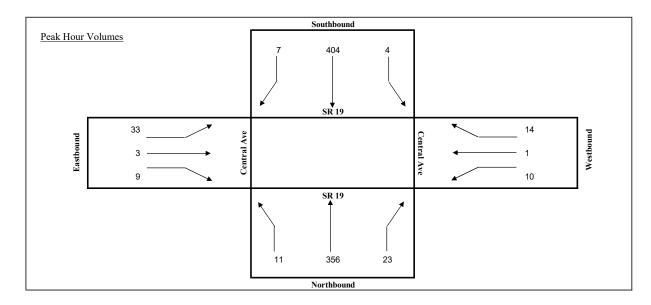
Intersection (N/S):	SR 19
Intersection (E/W):	CR 48

Date:	7/19/2023														
_				SR 19			SR 19			CR 48			CR 48		
ſ				NB			SB			EB			WB		
	Start	End	R	Т	L	R	Т	L	R	Т	L	R	Т	L	TOTAL
ſ	4:00 PM	4:15 PM	0	3	10	5	0	0	0	0	0	4	0	6	28
	4:15 PM	4:30 PM	0	4	11	1	3	0	0	0	0	8	0	2	29
	4:30 PM	4:45 PM	0	0	8	2	1	0	0	0	0	7	0	4	22
	4:45 PM	5:00 PM	0	0	4	1	1	0	0	0	0	7	0	1	14
	5:00 PM	5:15 PM	0	1	7	2	2	0	0	0	0	6	0	0	18
	5:15 PM	5:30 PM	0	0	7	2	0	0	0	0	0	6	0	0	15
	5:30 PM	5:45 PM	0	0	2	0	0	0	0	0	0	2	0	1	5
	5:45 PM	6:00 PM	0	2	4	2	1	0	0	0	0	5	0	1	15
_															
Total for:	4:00 PM	5:00 PM	0	7	33	9	5	0	0	0	0	26	0	13	93
Total for:	5:00 PM	6:00 PM	0	3	20	6	3	0	0	0	0	19	0	2	53
Tota Peak Hour:	4:00 PM	5:00 PM	0	7	33	9	5	0	0	0	0	26	0	13	93
Overall PHF:	0.80														



Intersection (N/S): SR 19 Intersection (E/W): Central Ave Date: 7/19/2023

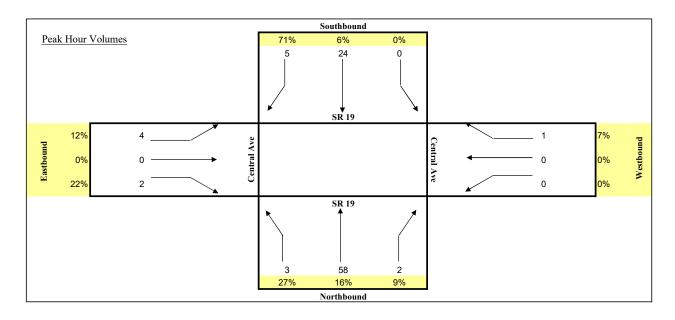
				SR 19			SR 19			Central Ave			Central Ave		
				NB			SB			EB			WB		
	Start	End	L	Т	R	L	Т	R	L	Т	R	L	Т	R	TOTAL
	7:00 AM	7:15 AM	7	76	6	1	88	3	5	0	4	3	1	3	197
	7:15 AM	7:30 AM	3	92	4	1	101	0	15	1	1	1	0	2	221
	7:30 AM	7:45 AM	1	96	4	1	106	2	9	0	1	2	0	4	226
	7:45 AM	8:00 AM	5	85	4	2	93	2	4	1	4	4	0	3	207
	8:00 AM	8:15 AM	2	83	11	0	104	3	5	1	3	3	1	5	221
	8:15 AM	8:30 AM	8	70	1	1	91	5	7	2	0	0	0	4	189
	8:30 AM	8:45 AM	3	96	5	1	101	5	5	2	6	2	0	1	227
	8:45 AM	9:00 AM	3	77	10	4	68	2	13	0	1	2	0	4	184
_															
Total for:	7:00 AM	8:00 AM	16	349	18	5	388	7	33	2	10	10	1	12	851
Total for:	8:00 AM	9:00 AM	16	326	27	6	364	15	30	5	10	7	1	14	821
Tota Peak Hour:	7:15 AM	8:15 AM	11	356	23	4	404	7	33	3	9	10	1	14	875
Overall PHF:	0.97														



TURNING MOVEMENT COUNT ANALYSIS TRUCKS

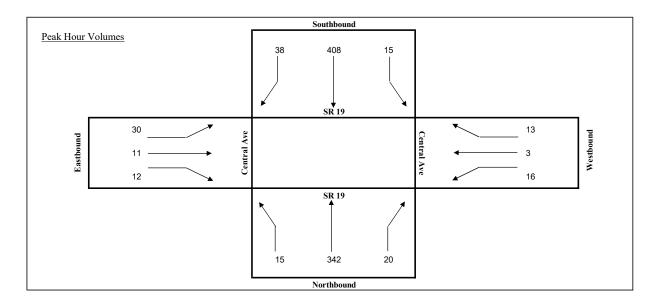
Intersection (N/S):	SR 19
Intersection (E/W):	Central Ave
Date:	7/19/2023

	113/2020			SR 19			SR 19			Central Ave			Central Ave		
				NB			SB			EB			WB		
	Start	End	R	Т	L	R	Т	L	R	Т	L	R	Т	L	TOTAL
	7:00 AM	7:15 AM	1	13	0	0	10	0	1	0	0	0	0	0	25
	7:15 AM	7:30 AM	1	15	1	1	13	0	1	0	0	0	0	0	32
	7:30 AM	7:45 AM	0	9	0	0	7	0	0	0	0	0	0	2	18
	7:45 AM	8:00 AM	1	12	1	0	2	0	0	0	0	1	0	0	17
	8:00 AM	8:15 AM	0	14	1	0	5	0	0	0	0	0	0	1	21
	8:15 AM	8:30 AM	2	7	1	0	8	1	2	0	0	0	0	0	21
	8:30 AM	8:45 AM	1	19	0	0	6	2	0	0	2	0	0	0	30
	8:45 AM	9:00 AM	0	18	0	0	5	2	2	0	0	0	0	0	27
_															
Total for:	7:00 AM	8:00 AM	3	49	2	1	32	0	2	0	0	1	0	2	92
Total for:	8:00 AM	9:00 AM	3	58	2	0	24	5	4	0	2	0	0	1	99
Tota Peak Hour:	8:00 AM	9:00 AM	3	58	2	0	24	5	4	0	2	0	0	1	99
Overall PHF:	0.83														



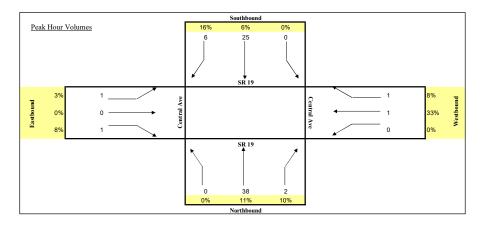
Intersection (N/S):	SR 19
Intersection (E/W):	Central Ave
Date:	7/19/2023

				SR 19			SR 19			Central Ave			Central Ave		
Γ				NB			SB			EB			WB		
	Start	End	L	Т	R	L	Т	R	L	Т	R	L	Т	R	TOTAL
Γ	4:00 PM	4:15 PM	2	88	5	3	81	10	7	1	2	1	0	4	204
	4:15 PM	4:30 PM	2	98	3	1	79	9	12	0	4	1	3	3	215
	4:30 PM	4:45 PM	2	75	7	6	89	10	11	3	4	4	1	1	213
	4:45 PM	5:00 PM	2	102	7	4	90	6	6	1	3	1	0	2	224
	5:00 PM	5:15 PM	5	66	5	0	96	10	12	5	5	5	0	6	215
	5:15 PM	5:30 PM	4	84	4	3	113	8	5	1	1	6	3	2	234
	5:30 PM	5:45 PM	4	90	4	8	109	14	7	4	3	4	0	3	250
	5:45 PM	6:00 PM	1	71	6	1	86	9	7	1	1	0	2	3	188
Total for:	4:00 PM	5:00 PM	8	363	22	14	339	35	36	5	13	7	4	10	856
Total for:	5:00 PM	6:00 PM	14	311	19	12	404	41	31	11	10	15	5	14	887
Tota Peak Hour:	4:45 PM	5:45 PM	15	342	20	15	408	38	30	11	12	16	3	13	923
Overall PHF:	0.92														



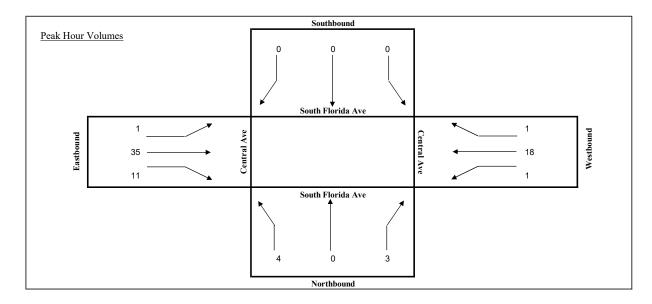
Intersection (N/S): SR 19 Intersection (E/W): Central Ave

Date:	7/19/2023														
_				SR 19			SR 19			Central Ave			Central Ave		
				NB			SB			EB			WB		
	Start	End	R	Т	L	R	Т	L	R	Т	L	R	Т	L	TOTAL
	4:00 PM	4:15 PM	0	13	2	0	2	2	0	0	0	0	0	0	19
	4:15 PM	4:30 PM	0	14	0	0	9	2	0	0	0	0	1	1	27
	4:30 PM	4:45 PM	0	8	0	0	8	0	0	0	0	0	0	0	16
	4:45 PM	5:00 PM	0	3	0	0	6	2	1	0	1	0	0	0	13
	5:00 PM	5:15 PM	1	7	0	0	8	0	1	0	0	0	0	0	17
	5:15 PM	5:30 PM	0	7	0	0	6	0	0	0	1	0	0	0	14
	5:30 PM	5:45 PM	1	2	0	1	0	1	0	0	1	1	0	0	7
	5:45 PM	6:00 PM	0	6	0	0	6	0	0	0	0	0	1	0	13
Total for:	4:00 PM	5:00 PM	0	38	2	0	25	6	1	0	1	0	1	1	75
Total for:	5:00 PM	6:00 PM	2	22	0	1	20	1	1	0	2	1	1	0	51
Tota Peak Hour:	4:00 PM	5:00 PM	0	38	2	0	25	6	1	0	1	0	1	1	75
Overall PHF:	0.69														



Intersection (N/S): South Florida Ave Intersection (E/W): Central Ave Date: 7/19/2023

_			s	South Florida Ave			outh Florida Av	ve		Central Ave			Central Ave		
				NB		SB				EB			WB		
	Start	End	L	Т	R	L	Т	R	L	Т	R	L	Т	R	TOTAL
	7:00 AM	7:15 AM	0	0	0	0	0	0	0	6	4	0	8	1	19
	7:15 AM	7:30 AM	2	0	1	0	0	0	1	13	2	0	4	0	23
	7:30 AM	7:45 AM	2	0	1	0	0	0	0	9	4	1	1	0	18
	7:45 AM	8:00 AM	0	0	1	0	0	0	0	7	1	0	5	0	14
	8:00 AM	8:15 AM	0	0	2	0	0	0	0	5	0	2	5	0	14
	8:15 AM	8:30 AM	0	0	3	0	0	0	0	8	2	1	3	2	19
	8:30 AM	8:45 AM	0	0	1	1	0	1	0	3	1	3	7	0	17
	8:45 AM	9:00 AM	1	0	2	0	0	0	0	7	2	1	6	1	20
-															
Total for:	7:00 AM	8:00 AM	4	0	3	0	0	0	1	35	11	1	18	1	74
Total for:	8:00 AM	9:00 AM	1	0	8	1	0	1	0	23	5	7	21	3	70
Tota Peak Hour:	7:00 AM	8:00 AM	4	0	3	0	0	0	1	35	11	1	18	1	74
Overall PHF:	0.80														



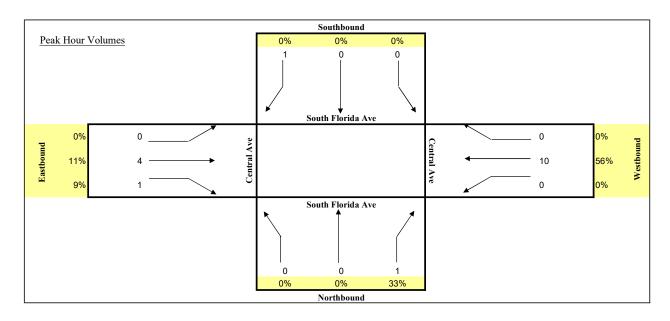
TURNING MOVEMENT COUNT ANALYSIS TRUCKS

Intersection (N/S): South Florida Ave

Intersection (E/W): Central Ave

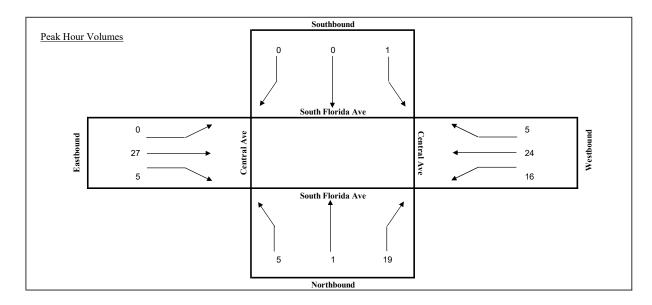
Date: 7/19/2023

_			South Florida Ave			S	outh Florida A	ve		Central Ave			Central Ave		
				NB			SB			EB			WB		
	Start	End	R	Т	L	R	Т	L	R	Т	L	R	Т	L	TOTAL
	7:00 AM	7:15 AM	0	0	0	0	0	0	0	1	0	0	1	0	2
	7:15 AM	7:30 AM	0	0	0	0	0	0	0	1	0	0	1	0	2
	7:30 AM	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	8:00 AM	0	0	0	0	0	0	0	0	0	0	1	0	1
	8:00 AM	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	8:30 AM	0	0	1	0	0	0	0	2	0	0	2	0	5
	8:30 AM	8:45 AM	0	0	0	0	0	1	0	1	0	0	3	0	5
	8:45 AM	9:00 AM	0	0	0	0	0	0	0	1	1	0	5	0	7
_															
Total for:	7:00 AM	8:00 AM	0	0	0	0	0	0	0	2	0	0	3	0	5
Total for:	8:00 AM	9:00 AM	0	0	1	0	0	1	0	4	1	0	10	0	17
Tota Peak Hour:	8:00 AM	9:00 AM	0	0	1	0	0	1	0	4	1	0	10	0	17
Overall PHF:	0.61														



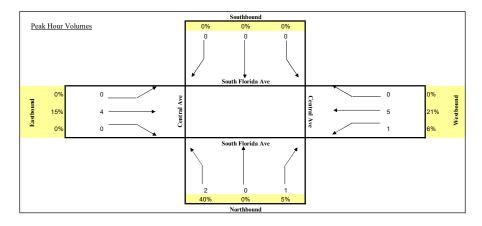
Intersection (N/S): South Florida Ave Intersection (E/W): Central Ave Date: 7/19/2023

_			s	outh Florida Av	'e	S	outh Florida Av	ve		Central Ave			Central Ave		
				NB			SB			EB			WB		
	Start	End	L	Т	R	L	Т	R	L	Т	R	L	Т	R	TOTAL
	4:00 PM	4:15 PM	3	0	3	0	0	0	0	3	0	4	5	0	18
	4:15 PM	4:30 PM	3	0	5	0	0	0	0	6	2	4	8	0	28
	4:30 PM	4:45 PM	2	0	6	0	0	0	0	2	3	3	7	0	23
	4:45 PM	5:00 PM	1	0	4	0	0	0	0	5	1	1	4	0	16
	5:00 PM	5:15 PM	1	1	7	0	0	0	0	10	2	5	6	0	32
	5:15 PM	5:30 PM	1	0	4	0	0	0	0	5	1	0	4	4	19
	5:30 PM	5:45 PM	1	0	4	1	0	0	0	6	2	5	9	0	28
	5:45 PM	6:00 PM	2	0	4	0	0	0	0	6	0	6	5	1	24
-															
Total for:	4:00 PM	5:00 PM	9	0	18	0	0	0	0	16	6	12	24	0	85
Total for:	5:00 PM	6:00 PM	5	1	19	1	0	0	0	27	5	16	24	5	103
Tota Peak Hour:	5:00 PM	6:00 PM	5	1	19	1	0	0	0	27	5	16	24	5	103
Overall PHF:	0.80														



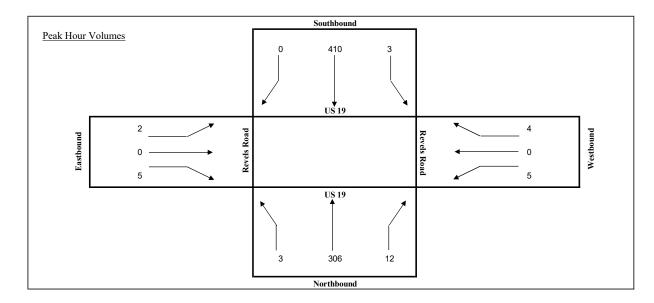
Intersection (N/S): South Florida Ave Intersection (E/W): Central Ave Date: 7/19/2023

Date.	1/19/2023														
_			s	outh Florida A	ve	s	outh Florida Av	/e		Central Ave			Central Ave		
				NB			SB			EB			WB		
	Start	End	R	Т	L	R	т	L	R	т	L	R	Т	L	TOTAL
	4:00 PM	4:15 PM	0	0	0	0	0	0	0	0	0	1	1	0	2
	4:15 PM	4:30 PM	1	0	0	0	0	0	0	0	0	1	2	0	4
	4:30 PM	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	5:00 PM	1	0	0	0	0	0	0	2	0	1	1	0	5
	5:00 PM	5:15 PM	0	0	1	0	0	0	0	0	0	0	1	0	2
	5:15 PM	5:30 PM	1	0	0	0	0	0	0	2	0	0	1	0	4
	5:30 PM	5:45 PM	0	0	0	0	0	0	0	0	0	0	2	0	2
	5:45 PM	6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total for:	4:00 PM	5:00 PM	2	0	0	0	0	0	0	2	0	3	4	0	11
Total for:	5:00 PM	6:00 PM	1	0	1	0	0	0	0	2	0	0	4	0	8
Tota Peak Hour:	4:45 PM	5:45 PM	2	0	1	0	0	0	0	4	0	1	5	0	13
Overall PHF:	0.65														



Intersection (N/S):	US 19
Intersection (E/W):	Revels Road
Date:	7/19/2023

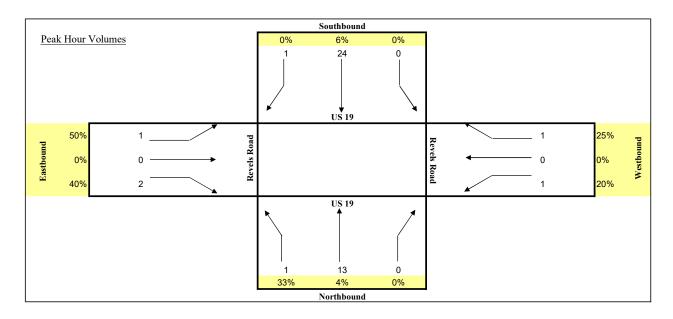
_				US 19			US 19			Revels Road			Revels Road		
				NB			SB			EB			WB		
	Start	End	L	Т	R	L	Т	R	L	Т	R	L	Т	R	TOTAL
	7:00 AM	7:15 AM	3	80	1	0	74	2	0	0	0	3	0	2	165
	7:15 AM	7:30 AM	2	60	1	1	94	1	1	0	0	0	1	0	161
	7:30 AM	7:45 AM	1	72	0	1	107	0	0	0	2	1	0	1	185
	7:45 AM	8:00 AM	1	97	5	0	100	0	0	0	2	2	0	1	208
	8:00 AM	8:15 AM	0	71	2	2	110	0	2	0	0	2	0	2	191
	8:15 AM	8:30 AM	1	66	5	0	93	0	0	0	1	0	0	0	166
	8:30 AM	8:45 AM	0	58	1	0	60	1	1	0	2	4	0	2	129
	8:45 AM	9:00 AM	0	57	3	1	63	2	0	0	1	1	0	2	130
-															
Total for:	7:00 AM	8:00 AM	7	309	7	2	375	3	1	0	4	6	1	4	719
Total for:	8:00 AM	9:00 AM	1	252	11	3	326	3	3	0	4	7	0	6	616
Tota Peak Hour:	7:30 AM	8:30 AM	3	306	12	3	410	0	2	0	5	5	0	4	750
Overall PHF:	0.90														



TURNING MOVEMENT COUNT ANALYSIS TRUCKS

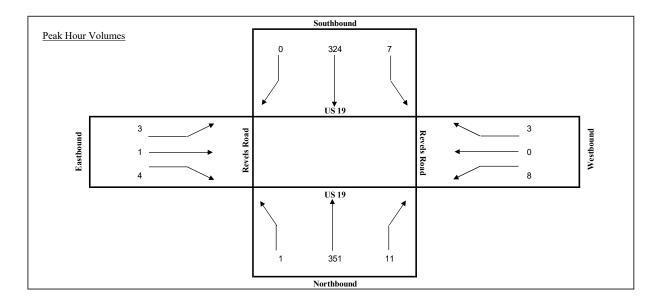
Intersection (N/S):	US 19
Intersection (E/W):	Revels Road
Date:	7/19/2023

	113/2020			US 19			US 19			Revels Road			Revels Road		
				NB			SB			EB			WB		
	Start	End	R	Т	L	R	Т	L	R	Т	L	R	Т	L	TOTAL
	7:00 AM	7:15 AM	1	3	0	0	5	0	0	0	0	0	0	0	9
	7:15 AM	7:30 AM	0	1	0	0	6	0	0	0	0	0	0	0	7
	7:30 AM	7:45 AM	0	2	0	0	5	0	0	0	0	0	0	0	7
	7:45 AM	8:00 AM	1	6	0	0	3	0	0	0	0	0	0	1	11
	8:00 AM	8:15 AM	0	1	0	0	8	0	0	0	0	0	0	0	9
	8:15 AM	8:30 AM	0	3	0	0	6	0	0	0	1	0	0	0	10
	8:30 AM	8:45 AM	0	3	0	0	7	1	1	0	1	1	0	0	14
	8:45 AM	9:00 AM	0	1	0	0	3	1	0	0	0	0	0	0	5
_															
Total for:	7:00 AM	8:00 AM	2	12	0	0	19	0	0	0	0	0	0	1	34
Total for:	8:00 AM	9:00 AM	0	8	0	0	24	2	1	0	2	1	0	0	38
Tota Peak Hour:	7:45 AM	8:45 AM	1	13	0	0	24	1	1	0	2	1	0	1	44
Overall PHF:	0.79														



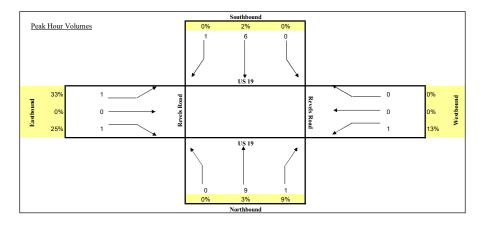
Intersection (N/S):	US 19
Intersection (E/W):	Revels Road
Date:	7/19/2023

				US 19			US 19			Revels Road			Revels Road		
				NB			SB			EB			WB		
	Start	End	L	Т	R	L	Т	R	L	Т	R	L	Т	R	TOTAL
	4:00 PM	4:15 PM	2	89	6	5	61	3	1	0	0	1	1	2	171
	4:15 PM	4:30 PM	0	76	3	0	74	1	1	0	1	3	0	1	160
	4:30 PM	4:45 PM	1	78	1	2	88	0	0	0	1	2	0	0	173
	4:45 PM	5:00 PM	0	93	6	1	91	0	0	0	0	2	0	2	195
	5:00 PM	5:15 PM	0	88	3	2	70	0	1	0	2	2	0	0	168
	5:15 PM	5:30 PM	0	92	1	2	75	0	2	1	1	2	0	1	177
	5:30 PM	5:45 PM	0	92	2	1	70	0	0	0	1	0	0	0	166
	5:45 PM	6:00 PM	0	86	3	0	72	0	1	0	0	2	0	1	165
-															
Total for:	4:00 PM	5:00 PM	3	336	16	8	314	4	2	0	2	8	1	5	699
Total for:	5:00 PM	6:00 PM	0	358	9	5	287	0	4	1	4	6	0	2	676
Tota Peak Hour:	4:30 PM	5:30 PM	1	351	11	7	324	0	3	1	4	8	0	3	713
Overall PHF:	0.91														



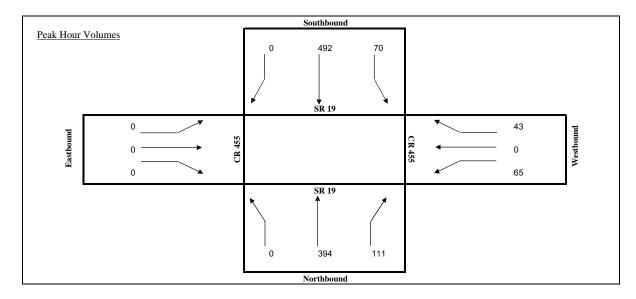
Intersection (N/S): US 19 Intersection (E/W): Revels Road

Date:	7/19/2023														
_				US 19			US 19			Revels Road			Revels Road		
ſ				NB			SB			EB			WB		
	Start	End	R	Т	L	R	Т	L	R	Т	L	R	Т	L	TOTAL
	4:00 PM	4:15 PM	0	1	0	0	1	1	0	0	0	0	0	0	3
	4:15 PM	4:30 PM	0	4	1	0	2	0	1	0	0	0	0	0	8
	4:30 PM	4:45 PM	0	1	0	0	0	0	0	0	1	1	0	0	3
	4:45 PM	5:00 PM	0	3	0	0	3	0	0	0	0	0	0	0	6
	5:00 PM	5:15 PM	0	2	0	0	1	0	0	0	0	0	0	0	3
	5:15 PM	5:30 PM	0	1	0	0	1	0	0	0	0	0	0	0	2
	5:30 PM	5:45 PM	0	5	0	0	2	0	0	0	0	0	0	0	7
	5:45 PM	6:00 PM	0	1	0	0	0	0	0	0	0	0	0	0	1
									-						
Total for:	4:00 PM	5:00 PM	0	9	1	0	6	1	1	0	1	1	Ö	Ö	20
Total for:	5:00 PM	6:00 PM	0	9	0	0	4	0	0	0	0	0	0	0	13
Tota Peak Hour:	4:00 PM	5:00 PM	0	9	1	0	6	1	1	0	1	1	0	0	20
Overall PHF:	0.63														



Intersection (N/S): SR 19 Intersection (E/W): CR 455 Date: 1/24/2023

_				SR 19			SR 19			CR 455			CR 455		
				NB			SB			EB			WB		
	Start	End	L	Т	R	L	Т	R	L	Т	R	L	Т	R	TOTAL
	7:00 AM	7:15 AM	0	92	15	11	131	0	0	0	0	7	0	4	260
	7:15 AM	7:30 AM	0	93	23	16	144	0	0	0	0	9	0	6	291
	7:30 AM	7:45 AM	0	111	27	21	105	0	0	0	0	13	0	11	288
	7:45 AM	8:00 AM	0	91	26	20	124	0	0	0	0	17	0	12	290
	8:00 AM	8:15 AM	0	99	35	13	119	0	0	0	0	26	0	14	306
	8:15 AM	8:30 AM	0	93	29	18	98	0	0	0	0	22	0	11	271
	8:30 AM	8:45 AM	0	74	27	11	94	0	0	0	0	22	0	12	240
	8:45 AM	9:00 AM	0	81	22	9	94	0	0	0	0	17	0	9	232
Total for:	7:00 AM	8:00 AM	0	387	91	68	504	0	0	0	0	46	0	33	1129
Total for:	8:00 AM	9:00 AM	0	347	113	51	405	0	0	0	0	87	0	46	1049
Tota Peak Hour:	7:15 AM	8:15 AM	0	394	111	70	492	0	0	0	0	65	0	43	1175
Overall PHF:	0.96														



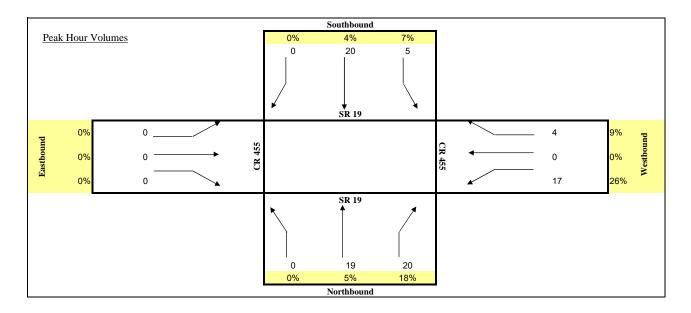
Item 3.

TURNING MOVEMENT COUNT ANALYSIS TRUCKS

Intersection (N/S): SR 19 Intersection (E/W): CR 455

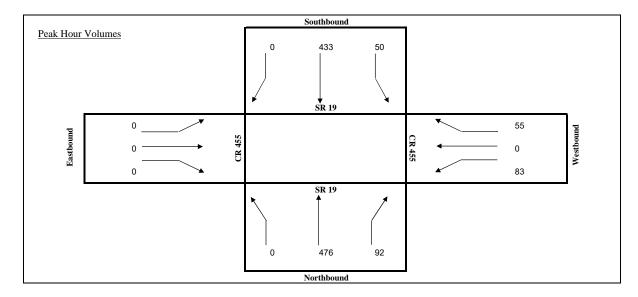
Date: 1/24/2023

				SR 19			SR 19			CR 455			CR 455		
				NB			SB			EB			WB		
	Start	End	R	Т	L	R	Т	L	R	Т	L	R	Т	L	TOTAL
	7:00 AM	7:15 AM	0	3	3	0	7	0	0	0	0	2	0	1	16
	7:15 AM	7:30 AM	0	6	1	1	8	0	0	0	0	2	0	0	18
	7:30 AM	7:45 AM	0	7	7	3	5	0	0	0	0	3	0	2	27
	7:45 AM	8:00 AM	0	3	2	1	3	0	0	0	0	1	0	0	10
	8:00 AM	8:15 AM	0	6	5	0	5	0	0	0	0	5	0	1	22
	8:15 AM	8:30 AM	0	3	6	3	6	0	0	0	0	3	0	2	23
	8:30 AM	8:45 AM	0	3	6	1	5	0	0	0	0	6	0	0	21
	8:45 AM	9:00 AM	0	7	3	1	4	0	0	0	0	3	0	1	19
-															
Total for:	7:00 AM	8:00 AM	0	19	13	5	23	0	0	0	0	8	0	3	71
Total for:	8:00 AM	9:00 AM	0	19	20	5	20	0	0	0	0	17	0	4	85
Tota Peak Hour:	8:00 AM	9:00 AM	0	19	20	5	20	0	0	0	0	17	0	4	85
Overall PHF:	0.92														



Intersection (N/S): SR 19 Intersection (E/W): CR 455 Date: 1/24/2023

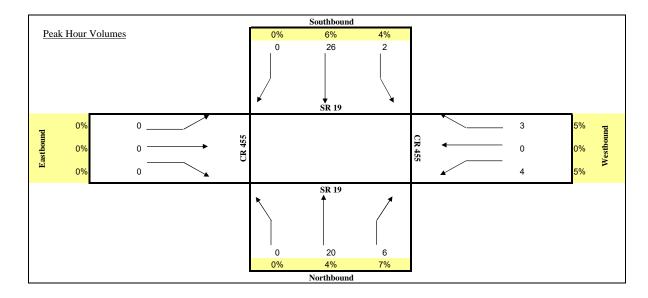
				SR 19			SR 19			CR 455			CR 455		
Γ				NB			SB			EB			WB		
	Start	End	L	Т	R	L	Т	R	L	Т	R	L	Т	R	TOTAL
Γ	4:00 PM	4:15 PM	0	97	20	6	117	0	0	0	0	18	0	14	272
	4:15 PM	4:30 PM	0	111	22	9	109	0	0	0	0	22	0	11	284
	4:30 PM	4:45 PM	0	114	25	13	108	0	0	0	0	19	0	16	295
	4:45 PM	5:00 PM	0	118	22	9	108	0	0	0	0	25	0	13	295
	5:00 PM	5:15 PM	0	131	21	14	104	0	0	0	0	18	0	10	298
	5:15 PM	5:30 PM	0	113	24	14	113	0	0	0	0	21	0	16	301
	5:30 PM	5:45 PM	0	96	28	17	94	0	0	0	0	17	0	19	271
	5:45 PM	6:00 PM	0	87	21	10	102	0	0	0	0	21	0	12	253
Total for:	4:00 PM	5:00 PM	0	440	89	37	442	0	0	0	0	84	0	54	1146
Total for:	5:00 PM	6:00 PM	0	427	94	55	413	0	0	0	0	77	0	57	1123
Tota Peak Hour:	4:30 PM	5:30 PM	0	476	92	50	433	0	0	0	0	83	0	55	1189
Overall PHF:	0.99														



TURNING MOVEMENT COUNT ANALYSIS TRUCKS

Intersection (N/S): SR 19 Intersection (E/W): CR 455 Date: 1/24/2023

				SR 19			SR 19			CR 455			CR 455		
				NB			SB			EB			WB		
	Start	End	R	Т	L	R	Т	L	R	Т	L	R	Т	L	TOTAL
Γ	4:00 PM	4:15 PM	0	6	3	0	7	0	0	0	0	1	0	1	18
	4:15 PM	4:30 PM	0	5	0	1	7	0	0	0	0	1	0	1	15
	4:30 PM	4:45 PM	0	7	2	1	4	0	0	0	0	0	0	0	14
	4:45 PM	5:00 PM	0	2	1	0	8	0	0	0	0	2	0	1	14
	5:00 PM	5:15 PM	0	4	3	1	2	0	0	0	0	0	0	0	10
	5:15 PM	5:30 PM	0	3	1	0	7	0	0	0	0	1	0	0	12
	5:30 PM	5:45 PM	0	0	4	1	1	0	0	0	0	0	0	2	8
	5:45 PM	6:00 PM	0	0	1	0	5	0	0	0	0	1	0	1	8
Total for:	4:00 PM	5:00 PM	0	20	6	2	26	0	0	0	0	4	0	3	61
Total for:	5:00 PM	6:00 PM	0	7	9	2	15	0	0	0	0	2	0	3	38
Tota Peak Hour:	4:00 PM	5:00 PM	0	20	6	2	26	0	0	0	0	4	0	3	61
Overall PHF:	0.85														



Item	З.
nem	υ.

WEEK	DATES	SF	MOCF: 0.95 PSCF
1234 <mark>5</mark> 67890123456789012234567890 ************************************	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	$\begin{array}{c} 0.99\\ 1.01\\ 1.03\\ 1.02\\ 1.00\\ 0.98\\ 0.97\\ 0.95\\ 0.95\\ 0.95\\ 0.94\\ 0.94\\ 0.94\\ 0.93\\ 0.94\\ 0.95\\ 0.95\\ 0.95\\ 0.95\\ 0.96\\ 0.97\\ 0.98\\ 0.99\\ 1.00\\ 1.01\\ 1.02\\ 1.03\\ 1.04\\ 1.05\\ 1.05\\ 1.06\\ 1.05\\ 1.05\\ 1.06\\ 1.05\\ 1.06\\ 1.05\\ 1.06\\ 1.05\\ 1.06\\ 1.07\\ \end{array}$	PSCF 1.04 1.06 1.08 1.07 1.05 1.03 1.02 1.00 1.00 0.99 0.99 0.99 0.99 0.99 1.00 1.00 1.00 1.00 1.02 1.03 1.04 1.04 1.05 1.06 1.07 1.08 1.09 1.11 1.12 1.12 1.12 1.11 1.12 1.12 1.12 1.11 1.12 1.12 1.13
28 29 30 31 32 33 34 35 36	07/03/2022 - 07/09/2022 07/10/2022 - 07/16/2022 07/17/2022 - 07/23/2022 07/24/2022 - 07/30/2022 07/31/2022 - 08/06/2022 08/07/2022 - 08/13/2022 08/14/2022 - 08/20/2022 08/21/2022 - 08/27/2022 08/28/2022 - 09/03/2022	1.06 1.06 1.05 1.05 1.05 1.04 1.04 1.05 1.06	1.12 1.12 1.12 1.11 1.11 1.09 1.09 1.11 1.12

* PEAK SEASON

23-FEB-2023 09:11:22

830UPD 5_1100_PKSEASON.TXT

Appendix E HCM Analysis Worksheets - Existing Conditions

	1	*	Ť	1	1	ŧ
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	3	1	1	1	1	•
Traffic Volume (veh/h)	346	229	316	455	277	98
Future Volume (veh/h)	346	229	316	455	277	98
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00	v	1.00	1.00	•
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No		No			No
Adj Sat Flow, veh/h/ln	1752	1589	1767	1811	1737	1811
Adj Flow Rate, veh/h	357	117	326	0	286	101
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	10	21	9	6	11	0.97
Cap, veh/h	390	315	751	U	564	1114
Arrive On Green	0.23	0.23	0.42	0.00	0.12	0.62
	0.23 1668					1811
Sat Flow, veh/h		1346	1767	1535	1654	
Grp Volume(v), veh/h	357	117	326	0	286	101
Grp Sat Flow(s),veh/h/ln	1668	1346	1767	1535	1654	1811
Q Serve(g_s), s	18.9	6.6	11.8	0.0	8.2	2.1
Cycle Q Clear(g_c), s	18.9	6.6	11.8	0.0	8.2	2.1
Prop In Lane	1.00	1.00		1.00	1.00	
Lane Grp Cap(c), veh/h	390	315	751		564	1114
V/C Ratio(X)	0.91	0.37	0.43		0.51	0.09
Avail Cap(c_a), veh/h	417	336	751		705	1114
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	0.00	1.00	1.00
Uniform Delay (d), s/veh	33.9	29.2	18.4	0.0	11.8	7.1
Incr Delay (d2), s/veh	23.6	0.7	1.8	0.0	0.7	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/In	14.8	3.7	8.6	0.0	5.1	1.4
Unsig. Movement Delay, s/veh		0.1	0.0	0.0	0.1	
LnGrp Delay(d),s/veh	57.5	29.9	20.3	0.0	12.6	7.3
LnGrp LOS	57.5 E	23.3 C	20.5 C	0.0	12.0 B	7.5 A
Approach Vol, veh/h	474	U	326	А	0	387
				A		
Approach Delay, s/veh	50.7		20.3 C			11.2
Approach LOS	D		U			В
Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	17.3	45.0		28.6		62.3
Change Period (Y+Rc), s	6.5	6.4		7.3		6.4
Max Green Setting (Gmax), s	18.5	38.6		22.7		38.6
Max Q Clear Time (g_c+l1), s	10.2	13.8		20.9		4.1
Green Ext Time (p_c), s	0.5	1.9		0.3		0.5
·· · /						
Intersection Summary			00 5			
HCM 6th Ctrl Delay			29.5			
HCM 6th LOS			С			
Notoo						

Notes

Unsignalized Delay for [NBR] is excluded from calculations of the approach delay and intersection delay.

Synchro 11 Report

	1	*	Ť	1	1	ŧ
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	3	1	†	1	5	1
Traffic Volume (veh/h)	434	319	72	353	304	84
Future Volume (veh/h)	434	319	72	353	304	84
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00	-	1.00	1.00	-
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No		No			No
Adj Sat Flow, veh/h/ln	1752	1589	1767	1811	1737	1811
Adj Flow Rate, veh/h	447	210	74	0	313	87
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	10	21	9	6	11	0.97
Cap, veh/h	405	327	729	U	767	1107
Arrive On Green	405 0.24	0.24	0.41	0.00	0.13	0.61
	0.24 1668		1767		1654	1811
Sat Flow, veh/h		1346		1535		
Grp Volume(v), veh/h	447	210	74	0	313	87
Grp Sat Flow(s),veh/h/ln	1668	1346	1767	1535	1654	1811
Q Serve(g_s), s	22.7	13.1	2.4	0.0	9.5	1.8
Cycle Q Clear(g_c), s	22.7	13.1	2.4	0.0	9.5	1.8
Prop In Lane	1.00	1.00		1.00	1.00	
Lane Grp Cap(c), veh/h	405	327	729		767	1107
V/C Ratio(X)	1.10	0.64	0.10		0.41	0.08
Avail Cap(c_a), veh/h	405	327	729		880	1107
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	0.00	1.00	1.00
Uniform Delay (d), s/veh	35.4	31.8	16.9	0.0	11.2	7.4
Incr Delay (d2), s/veh	76.1	4.3	0.3	0.0	0.3	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	25.4	7.8	1.8	0.0	5.8	1.2
Unsig. Movement Delay, s/veh		1.0		0.0	0.0	
LnGrp Delay(d),s/veh	111.6	36.1	17.1	0.0	11.5	7.6
LnGrp LOS	F	D	B	0.0	B	7.0 A
Approach Vol, veh/h	657		74	А	0	400
	87.5		17.1	A		400
Approach Delay, s/veh	87.5 F		17.1 B			10.7 B
Approach LOS	F		В			В
Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	18.6	45.0		30.0		63.6
Change Period (Y+Rc), s	6.5	6.4		7.3		6.4
Max Green Setting (Gmax), s	18.5	38.6		22.7		38.6
Max Q Clear Time (g_c+l1), s	11.5	4.4		24.7		3.8
Green Ext Time (p_c), s	0.6	0.4		0.0		0.4
<i>u</i> = <i>y</i> .	5.0	0.1		5.0		0.1
Intersection Summary						
HCM 6th Ctrl Delay			55.7			
HCM 6th LOS			Е			
Notoo						

Notes

Unsignalized Delay for [NBR] is excluded from calculations of the approach delay and intersection delay.

Synchro 11 Report

Intersection

Int Delay, s/veh

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		\$			\$			\$			\$	
Traffic Vol, veh/h	35	3	10	11	1	15	12	377	24	4	428	7
Future Vol, veh/h	35	3	10	11	1	15	12	377	24	4	428	7
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None									
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	97	97	97	97	97	97	97	97	97	97	97	97
Heavy Vehicles, %	12	33	2	2	2	2	38	10	2	42	2	11
Mvmt Flow	36	3	10	11	1	15	12	389	25	4	441	7

Major/Minor	Minor2		I	Vinor1			Major1			Major2			
Conflicting Flow All	887	891	445	885	882	402	448	0	0	414	0	0	
Stage 1	453	453	-	426	426	-	-	-	-	-	-	-	
Stage 2	434	438	-	459	456	-	-	-	-	-	-	-	
Critical Hdwy	7.22	6.83	6.22	7.12	6.52	6.22	4.48	-	-	4.52	-	-	
Critical Hdwy Stg 1	6.22	5.83	-	6.12	5.52	-	-	-	-	-	-	-	
Critical Hdwy Stg 2	6.22	5.83	-	6.12	5.52	-	-	-	-	-	-	-	
Follow-up Hdwy	3.608	4.297	3.318	3.518	4.018	3.318	2.542	-	-	2.578	-	-	
Pot Cap-1 Maneuver	254	251	613	266	285	648	946	-	-	960	-	-	
Stage 1	568	521	-	606	586	-	-	-	-	-	-	-	
Stage 2	581	529	-	582	568	-	-	-	-	-	-	-	
Platoon blocked, %								-	-		-	-	
Mov Cap-1 Maneuver	243	245	613	255	278	648	946	-	-	960	-	-	
Mov Cap-2 Maneuver	243	245	-	255	278	-	-	-	-	-	-	-	
Stage 1	558	518	-	596	576	-	-	-	-	-	-	-	
Stage 2	556	520	-	565	565	-	-	-	-	-	-	-	

Approach	EB	WB	NB	SB	
HCM Control Delay, s	20.7	15.1	0.3	0.1	
HCM LOS	С	С			

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1V	VBLn1	SBL	SBT	SBR
Capacity (veh/h)	946	-	-	278	386	960	-	-
HCM Lane V/C Ratio	0.013	-	-	0.178	0.072	0.004	-	-
HCM Control Delay (s)	8.9	0	-	20.7	15.1	8.8	0	-
HCM Lane LOS	А	А	-	С	С	А	А	-
HCM 95th %tile Q(veh)	0	-	-	0.6	0.2	0	-	-

Item 3.

Intersection

Int Delay, s/veh

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		4			4			4			4		
Traffic Vol, veh/h	32	12	13	17	3	14	16	363	21	16	432	40	
Future Vol, veh/h	32	12	13	17	3	14	16	363	21	16	432	40	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free	
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None	
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-	
Veh in Median Storage	, # -	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	97	97	97	97	97	97	97	97	97	97	97	97	
Heavy Vehicles, %	12	33	2	2	2	2	38	10	2	42	2	11	
Mvmt Flow	33	12	13	18	3	14	16	374	22	16	445	41	

Major/Minor	Minor2			Minor1			Major1			М	ajor2			
Conflicting Flow All	924	926	466	927	935	385	486	0	()	396	0	0	
Stage 1	498	498	-	417	417	-	-	-		-	-	-	-	
Stage 2	426	428	-	510	518	-	-	-		-	-	-	-	
Critical Hdwy	7.22	6.83	6.22	7.12	6.52	6.22	4.48	-		-	4.52	-	-	
Critical Hdwy Stg 1	6.22	5.83	-	6.12	5.52	-	-	-		-	-	-	-	
Critical Hdwy Stg 2	6.22	5.83	-	6.12	5.52	-	-	-		-	-	-	-	
Follow-up Hdwy	3.608	4.297	3.318	3.518	4.018	3.318	2.542	-		- 2	2.578	-	-	
Pot Cap-1 Maneuver	240	239	597	249	265	663	914	-		-	975	-	-	
Stage 1	536	496	-	613	591	-	-	-		-	-	-	-	
Stage 2	587	535	-	546	533	-	-	-		-	-	-	-	
Platoon blocked, %								-		-		-	-	
Mov Cap-1 Maneuver	225	228	597	225	253	663	914	-		-	975	-	-	
Mov Cap-2 Maneuver	225	228	-	225	253	-	-	-		-	-	-	-	
Stage 1	524	485	-	599	577	-	-	-		-	-	-	-	
Stage 2	558	523	-	508	521	-	-	-		-	-	-	-	

Approach	EB	WB	NB	SB	
HCM Control Delay, s	22.6	17.9	0.4	0.3	
HCM LOS	С	С			

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1V	VBLn1	SBL	SBT	SBR
Capacity (veh/h)	914	-	-	263	313	975	-	-
HCM Lane V/C Ratio	0.018	-	-	0.223	0.112	0.017	-	-
HCM Control Delay (s)	9	0	-	22.6	17.9	8.8	0	-
HCM Lane LOS	А	А	-	С	С	А	А	-
HCM 95th %tile Q(veh)	0.1	-	-	0.8	0.4	0.1	-	-

Item 3.

Intersection

Int Delay, s/veh

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	1	37	12	1	19	1	4	0	3	0	0	0
Future Vol, veh/h	1	37	12	1	19	1	4	0	3	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None									
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	80	80	80	80	80	80	80	80	80	80	80	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	1	46	15	1	24	1	5	0	4	0	0	0

Major/Minor	Major1		Ν	lajor2			Minor1			Minor2			
Conflicting Flow All	25	0	0	61	0	0	83	83	54	85	90	25	
Stage 1	-	-	-	-	-	-	56	56	-	27	27	-	
Stage 2	-	-	-	-	-	-	27	27	-	58	63	-	
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22	
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-	
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-	
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318	
Pot Cap-1 Maneuver	1589	-	-	1542	-	-	904	807	1013	901	800	1051	
Stage 1	-	-	-	-	-	-	956	848	-	990	873	-	
Stage 2	-	-	-	-	-	-	990	873	-	954	842	-	
Platoon blocked, %		-	-		-	-							
Mov Cap-1 Maneuver	1589	-	-	1542	-	-	902	805	1013	896	798	1051	
Mov Cap-2 Maneuver	-	-	-	-	-	-	902	805	-	896	798	-	
Stage 1	-	-	-	-	-	-	955	847	-	989	872	-	
Stage 2	-	-	-	-	-	-	989	872	-	950	841	-	
Approach	EB			WB			NB			SB			
HCM Control Delay, s	0.1			0.3			8.8			0			
HCM LOS							А			А			

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR S	BLn1	
Capacity (veh/h)	946	1589	-	-	1542	-	-	-	
HCM Lane V/C Ratio	0.009	0.001	-	-	0.001	-	-	-	
HCM Control Delay (s)	8.8	7.3	0	-	7.3	0	-	0	
HCM Lane LOS	А	А	А	-	А	А	-	Α	
HCM 95th %tile Q(veh)	0	0	-	-	0	-	-	-	

Intersection

Int Delay, s/veh

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			\$			4			\$	
Traffic Vol, veh/h	0	29	5	17	25	5	5	1	20	1	0	0
Future Vol, veh/h	0	29	5	17	25	5	5	1	20	1	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None									
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	80	80	80	80	80	80	80	80	80	80	80	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	36	6	21	31	6	6	1	25	1	0	0

Major/Minor	Major1		Ν	/lajor2			Minor1		ļ	Minor2			
Conflicting Flow All	37	0	0	42	0	0	115	118	39	128	118	34	
Stage 1	-	-	-	-	-	-	39	39	-	76	76	-	
Stage 2	-	-	-	-	-	-	76	79	-	52	42	-	
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22	
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-	
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-	
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318	
Pot Cap-1 Maneuver	1574	-	-	1567	-	-	862	772	1033	845	772	1039	
Stage 1	-	-	-	-	-	-	976	862	-	933	832	-	
Stage 2	-	-	-	-	-	-	933	829	-	961	860	-	
Platoon blocked, %		-	-		-	-							
Mov Cap-1 Maneuver	1574	-	-	1567	-	-	853	761	1033	815	761	1039	
Mov Cap-2 Maneuver	-	-	-	-	-	-	853	761	-	815	761	-	
Stage 1	-	-	-	-	-	-	976	862	-	933	820	-	
Stage 2	-	-	-	-	-	-	920	817	-	936	860	-	
Approach	EB			WB			NB			SB			
HCM Control Delay, s	0			2.7			8.8			9.4			
HCM LOS							А			А			

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	980	1574	-	-	1567	-	-	815
HCM Lane V/C Ratio	0.033	-	-	-	0.014	-	-	0.002
HCM Control Delay (s)	8.8	0	-	-	7.3	0	-	9.4
HCM Lane LOS	А	А	-	-	Α	А	-	Α
HCM 95th %tile Q(veh)	0.1	0	-	-	0	-	-	0

Item 3.

Intersection

Int Delay, s/veh

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		\$			\$			ţ,			ŧ	
Traffic Vol, veh/h	2	0	5	5	0	4	3	324	13	3	435	0
Future Vol, veh/h	2	0	5	5	0	4	3	324	13	3	435	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None									
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	90	90	90	90	90	90	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2	2	8	12	2	10	2
Mvmt Flow	2	0	6	6	0	4	3	360	14	3	483	0

Major/Minor	Minor2		I	Vinor1			Major1		Ν	/lajor2			
Conflicting Flow All	864	869	483	865	862	367	483	0	0	374	0	0	
Stage 1	489	489	-	373	373	-	-	-	-	-	-	-	
Stage 2	375	380	-	492	489	-	-	-	-	-	-	-	
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-	
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-	
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-	
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-	
Pot Cap-1 Maneuver	274	290	584	274	293	678	1080	-	-	1184	-	0	
Stage 1	561	549	-	648	618	-	-	-	-	-	-	0	
Stage 2	646	614	-	558	549	-	-	-	-	-	-	0	
Platoon blocked, %								-	-		-		
Mov Cap-1 Maneuver	271	288	584	270	291	678	1080	-	-	1184	-	-	
Mov Cap-2 Maneuver	271	288	-	270	291	-	-	-	-	-	-	-	
Stage 1	559	547	-	645	616	-	-	-	-	-	-	-	
Stage 2	639	612	-	551	547	-	-	-	-	-	-	-	

Approach	EB	WB	NB	SB	
HCM Control Delay, s	13.3	15	0.1	0.1	
HCM LOS	В	С			

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1V	VBLn1	SBL	SBT
Capacity (veh/h)	1080	-	-	439	369	1184	-
HCM Lane V/C Ratio	0.003	-	-	0.018	0.027	0.003	-
HCM Control Delay (s)	8.3	-	-	13.3	15	8	0
HCM Lane LOS	А	-	-	В	С	А	А
HCM 95th %tile Q(veh)	0	-	-	0.1	0.1	0	-

Item 3.

Intersection

Int Delay, s/veh

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			ħ			र्भ	
Traffic Vol, veh/h	3	1	4	8	0	3	1	372	12	7	343	0
Future Vol, veh/h	3	1	4	8	0	3	1	372	12	7	343	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None									
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	90	90	90	90	90	90	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2	2	8	12	2	10	2
Mvmt Flow	3	1	4	9	0	3	1	413	13	8	381	0

Major/Minor	Minor2			Minor1			Major1		N	lajor2			
Conflicting Flow All	820	825	381	822	819	420	381	0	0	426	0	0	
Stage 1	397	397	-	422	422	-	-	-	-	-	-	-	
Stage 2	423	428	-	400	397	-	-	-	-	-	-	-	
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-	
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-	
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-	
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	- 1	2.218	-	-	
Pot Cap-1 Maneuver	294	308	666	293	310	633	1177	-	-	1133	-	0	
Stage 1	629	603	-	609	588	-	-	-	-	-	-	0	
Stage 2	609	585	-	626	603	-	-	-	-	-	-	0	
Platoon blocked, %								-	-		-		
Mov Cap-1 Maneuver	290	305	666	288	307	633	1177	-	-	1133	-	-	
Mov Cap-2 Maneuver	290	305	-	288	307	-	-	-	-	-	-	-	
Stage 1	628	598	-	608	587	-	-	-	-	-	-	-	
Stage 2	605	584	-	615	598	-	-	-	-	-	-	-	

Approach	EB	WB	NB	SB	
HCM Control Delay, s	14	16.1	0	0.2	
HCM LOS	В	С			

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1\	WBLn1	SBL	SBT
Capacity (veh/h)	1177	-	-	408	338	1133	-
HCM Lane V/C Ratio	0.001	-	-	0.022	0.036	0.007	-
HCM Control Delay (s)	8.1	-	-	14	16.1	8.2	0
HCM Lane LOS	А	-	-	В	С	А	А
HCM 95th %tile Q(veh)	0	-	-	0.1	0.1	0	-

Intersection						
Int Delay, s/veh	2.8					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	1	1	Þ	1		÷.
Traffic Vol, veh/h	65	43	394	111	70	492
Future Vol, veh/h	65	43	394	111	70	492
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	0	-	590	-	-
Veh in Median Storage	e, # 0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	96	96	96	96	96	96
Heavy Vehicles, %	38	15	8	22	9	5
Mvmt Flow	68	45	410	116	73	513

Major/Minor	Minor1	Ν	1ajor1	Ν	/lajor2	
Conflicting Flow All	1069	410	0	0	526	0
Stage 1	410	-	-	-	-	-
Stage 2	659	-	-	-	-	-
Critical Hdwy	6.78	6.35	-	-	4.19	-
Critical Hdwy Stg 1	5.78	-	-	-	-	-
Critical Hdwy Stg 2	5.78	-	-	-	-	-
Follow-up Hdwy	3.842	3.435	-	-	2.281	-
Pot Cap-1 Maneuver	210	614	-	-	1006	-
Stage 1	599	-	-	-	-	-
Stage 2	453	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	189	614	-	-	1006	-
Mov Cap-2 Maneuver	189	-	-	-	-	-
Stage 1	599	-	-	-	-	-
Stage 2	407	-	-	-	-	-
Approach	\//D		ND		CD	

Approach	WB	NB	SB	
HCM Control Delay, s	25.1	0	1.1	
HCM LOS	D			

Minor Lane/Major Mvmt	NBT	NBRV	VBLn1V	VBLn2	SBL	SBT	
Capacity (veh/h)	-	-	189	614	1006	-	
HCM Lane V/C Ratio	-	-	0.358	0.073	0.072	-	
HCM Control Delay (s)	-	-	34.3	11.3	8.9	0	
HCM Lane LOS	-	-	D	В	А	А	
HCM 95th %tile Q(veh)	-	-	1.5	0.2	0.2	-	

Synchro 11 Report

Intersection							
Int Delay, s/veh	3.5						
Movement	WBL	WBR	NBT	NBR	SBL	SBT	

Novement	VVBL	WBR	INR I	NRK	SBL	SBI	
Lane Configurations	٢	1	ef.	1		د	
Traffic Vol, veh/h	83	55	476	92	50	433	
Future Vol, veh/h	83	55	476	92	50	433	
Conflicting Peds, #/hr	0	0	0	0	0	0	
Sign Control	Stop	Stop	Free	Free	Free	Free	
RT Channelized	-	None	-	None	-	None	
Storage Length	0	0	-	590	-	-	
Veh in Median Storage	,# 0	-	0	-	-	0	
Grade, %	0	-	0	-	-	0	
Peak Hour Factor	96	96	96	96	96	96	
Heavy Vehicles, %	38	15	8	22	9	5	
Mvmt Flow	86	57	496	96	52	451	

Major/Minor	Minor1	Μ	lajor1	Ν	/lajor2	
Conflicting Flow All	1051	496	0	0	592	0
Stage 1	496	-	-	-	-	-
Stage 2	555	-	-	-	-	-
Critical Hdwy	6.78	6.35	-	-	4.19	-
Critical Hdwy Stg 1	5.78	-	-	-	-	-
Critical Hdwy Stg 2	5.78	-	-	-	-	-
Follow-up Hdwy	3.842	3.435	-	-	2.281	-
Pot Cap-1 Maneuver	215	548	-	-	950	-
Stage 1	544	-	-	-	-	-
Stage 2	509	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	199	548	-	-	950	-
Mov Cap-2 Maneuver	199	-	-	-	-	-
Stage 1	544	-	-	-	-	-
Stage 2	472	-	-	-	-	-
Anna a ah					00	

Approach	WB	NB	SB
HCM Control Delay, s	26.7	0	0.9
HCM LOS	D		

Minor Lane/Major Mvmt	NBT	NBRW	/BLn1V	VBLn2	SBL	SBT
Capacity (veh/h)	-	-	199	548	950	-
HCM Lane V/C Ratio	-	-	0.434	0.105	0.055	-
HCM Control Delay (s)	-	-	36.3	12.3	9	0
HCM Lane LOS	-	-	Е	В	А	А
HCM 95th %tile Q(veh)	-	-	2	0.3	0.2	-

Appendix F ITE Trip Generation Sheets

Single-Family Detached Housing (210)

Vehicle Trip Ends vs:	Dwelling Units
On a:	Weekday

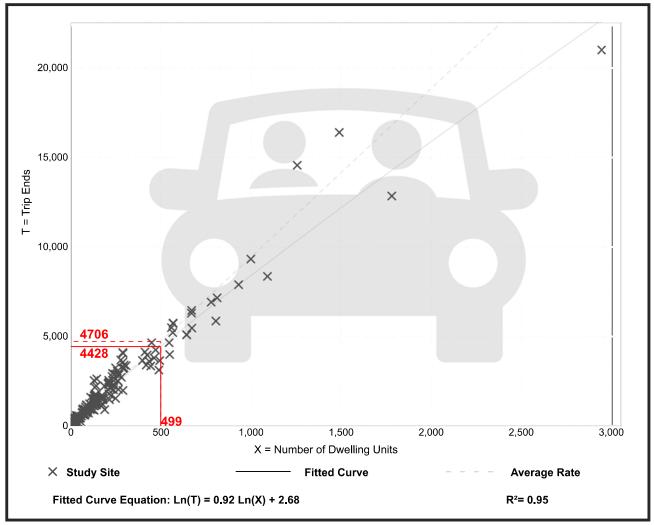
Setting/Location:	General Urban/Suburban
-------------------	------------------------

Number of Studies:	174
Avg. Num. of Dwelling Units:	246
Directional Distribution:	50% entering, 50% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
9.43	4.45 - 22.61	2.13

Data Plot and Equation



Trip Gen Manual, 11th Edition

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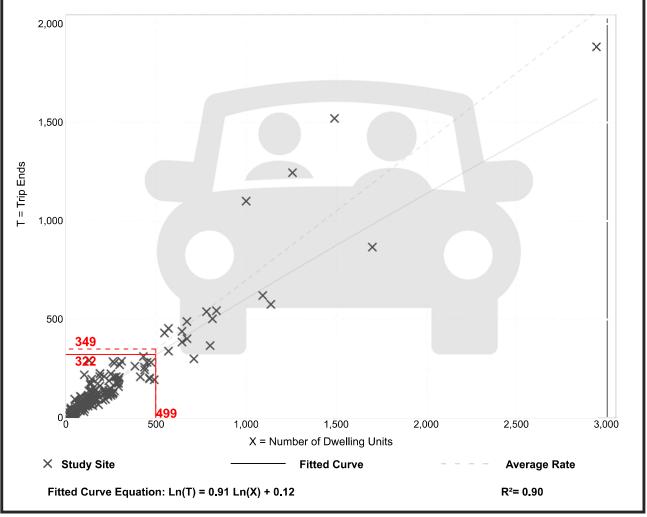
Single-Family Detached Housing (210)

Vehicle Trip Ends vs: On a:	Dwelling Units Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 7 and 9 a.m.
Setting/Location:	General Urban/Suburban
Number of Studies:	192
Avg. Num. of Dwelling Units:	226
Directional Distribution:	25% entering, 75% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
0.70	0.27 - 2.27	0.24

Data Plot and Equation



Trip Gen Manual, 11th Edition

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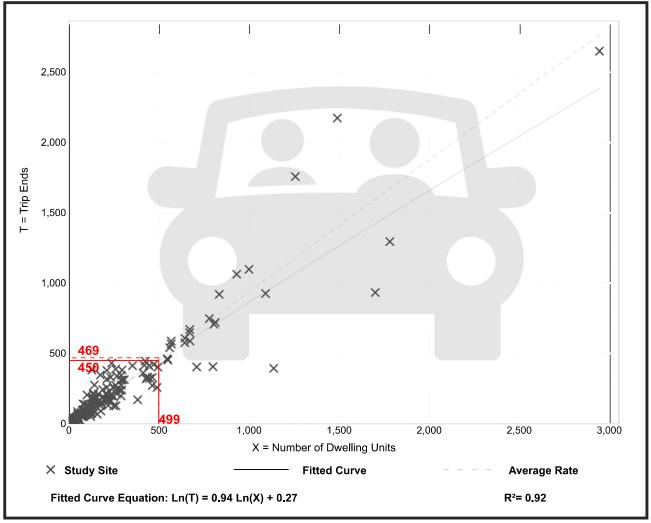
Single-Family Detached Housing (210)

Vehicle Trip Ends vs: On a:	Dwelling Units Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 4 and 6 p.m.
Setting/Location:	General Urban/Suburban
Number of Studies:	208
Avg. Num. of Dwelling Units:	248
Directional Distribution:	63% entering, 37% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
0.94	0.35 - 2.98	0.31

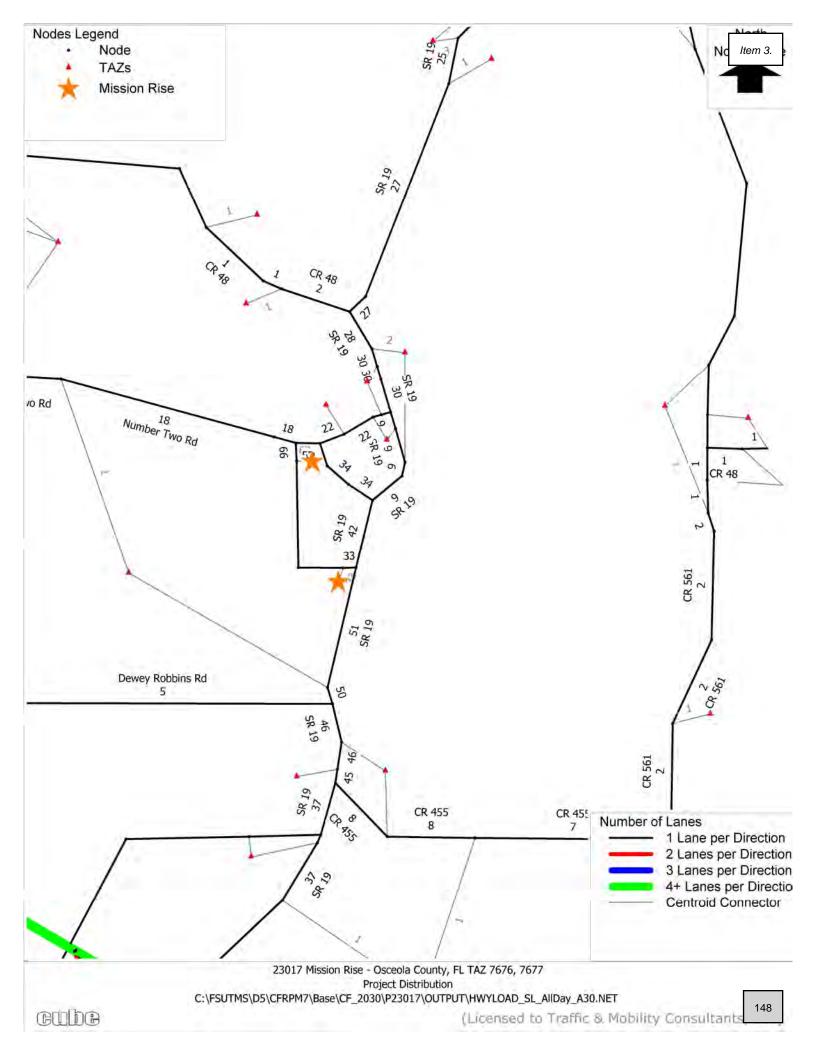
Data Plot and Equation

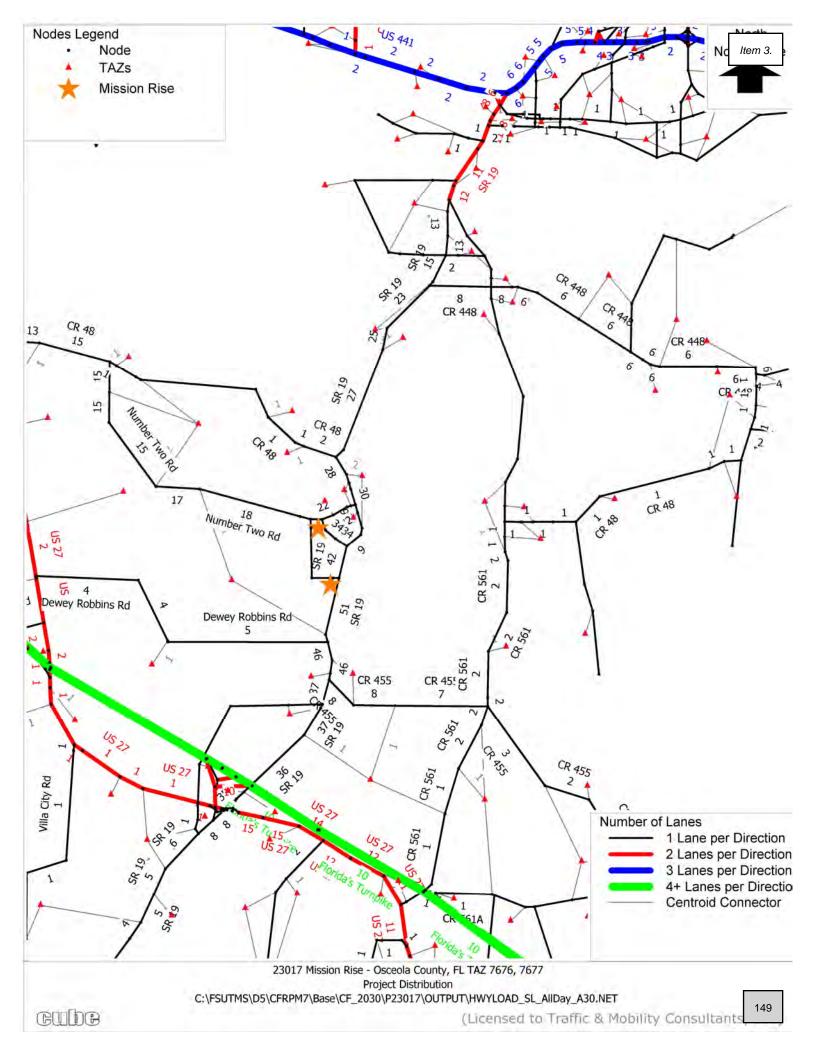


Trip Gen Manual, 11th Edition

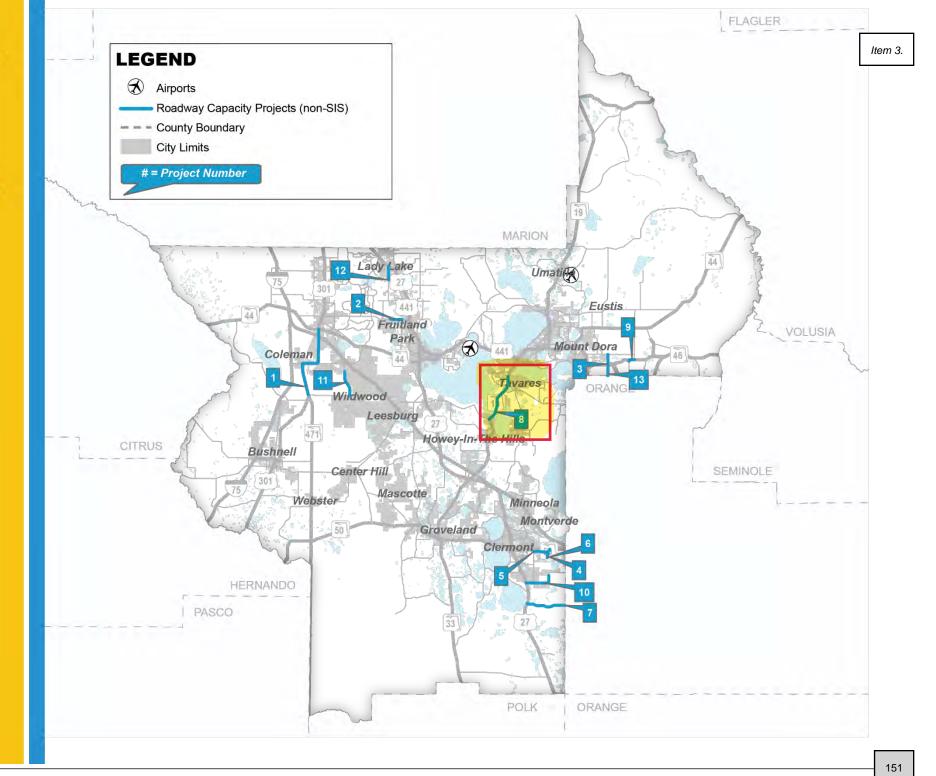
• Institute of Transportation Engineers

Appendix G CFRPM Model Output





Appendix H
LSMPO TIP and LSMPO LOPP



Item 3.

7

7		Project Description: WELLNESS WAY FROM US-27 TO THE LAKE/ORANGE COUNTY LINI										NTY LINE	FM# 4487331		Funding Source(s):	Loc	al and State
			Work	Description	n: NEV	V ROAD CON	STRU	ICTION					LRTP	Page:	PG. 4-12		
Phase	e <	2023		2023		2024		2025		2026		2027	:	>2027	Amou	ınt Fui	nded
PDE	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-		\$	-
PE	\$	-	\$	-	\$	3,000,000	\$	-	\$	-	\$	-	\$	-		\$	3,000,000
ENV	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-		\$	-
ROW	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-		\$	-
LAR	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-		\$	-
RRU	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-		\$	-
CST	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-		\$	-
Total	\$	-	\$	-	\$	3,000,000	\$	-	\$	-	\$	-	\$	-		\$	3,000,000
	Responsibl	e Agency:	RESP	ONSIBLE A	GENC	Y NOT AVAIL	ABLE			County	: LAKE			Tot	al Project Cost:	\$	3,000,000

Project Description: SR 19 FROM CR 48 TO CR 561	FM# 2383191	Funding Source(s):	State and Federal
Work Description: ADD LANES & RECONSTRUCT	LRTP Page:	PG. 4-12	

Phase	2	<2023		2023	2024	2025	2026		2027	>2027	Amour	nt Fui	nded
PDE	\$	1,161,015	\$	-	\$ -	\$ -	\$ -	\$	-	\$ -		\$	1,161,015
PE	\$	4,141,718	\$	-	\$ -	\$ -	\$ -	\$	-	\$ -		\$	4,141,718
ENV	\$	492,196	\$	200,000	\$ -	\$ -	\$ -	\$	-	\$ -		\$	692,196
ROW	\$	-	\$	-	\$ -	\$ -	\$ -	\$	-	\$ -		\$	-
LAR	\$	-	\$	-	\$ -	\$ -	\$ -	\$	-	\$ -		\$	-
RRU	\$	-	\$	-	\$ -	\$ -	\$ -	\$	-	\$ -		\$	-
CST	\$	-	\$	-	\$ -	\$ -	\$ -	\$	-	\$ -		\$	-
Total	\$	5,794,929	\$	200,000	\$ -	\$ -	\$ -	\$	-	\$ -		\$	5,994,929
	Responsi	ible Agency:	FDC	T			County:	LAKI	E	Tota	l Project Cost:	\$	5,994,929

8

5/ 152 22



2022 List of Priority Projects

Lake~Sumter Metropolitan Planning Organization

Adopted June 22, 2022

www.LakeSumterMPO.com

Capacity Rank	Sponsor/ Location	FM #	Project Name	From	То	Description	Performance Measure(s)	Proposed Phase	Proposed Phase FY	Proposed Phase Cost	Programmed Phase(s)	Programmed Phase FY	CMP Congested Corridors 2021 Analysis (for informational purposes)
1	FDOT/ Sumter County	430132-1	SR 35 (US 301)	SR 44	CR 470	Road Widening	System Performance	ROW	2026/27	\$27,000,000	Design	2022/23 2025/26	Extremely Congested (2021)
2	FDOT/ Lake County	409870-1	SR 44 (CR44B)	US 441	SR44	Road Widening	System Performance; Safety	CST	2024/25	\$23,701,500	ROW		Extremely Congested (2021)
3	Sumter County	447931-1	Marsh Bend Trail (CR 501)	Corbin Trail	Central Parkway	Roadway Improvements	System Performance	CST	2023/24	\$1,275,400	CST	2022/23	Operating at Acceptable Level of Service
4	FDOT/ Lake County	238394-3	SR 500 (US 441)	Perkins Street	SR 44	Road Widening	System Performance	CST	2023/24	\$13,794,537			Congested (2026)
5	FDOT/ Lake County	429356-1	SR 500 (US 441)	SR 44	N of SR 46	Road Widening	System Performance	CST	2023/24	\$22,233,040	ROW	2021/22	Not Congested
6	Lake County/ Lady Lake	439665-1	Rolling Acres Road	West Lady Lake Ave.	Griffin Ave	Road Widening	System Performance	Design	2026/27	\$2,000,000	PD&E	2025/26	Extremely Congested (2026)
7	Lake County	441710-1	Round Lake Road	Wolfbranch Rd	North of SR 44	New Roadway/ Alignment	System Performance	CST	2024/25	\$30,000,000	Design		Operating at Acceptable Level of Service
8	Lake County	441779-1	CR 455 (Hartle Rd)	Lost Lake Rd.	Hartwood Marsh Rd.	Roadway Extension/ Widening	System Performance	CST	2024/25	\$19,800,000	ROW	2022/23	New Roadway, Not on CMP Network
9	Lake County	-	CR 455 (Hartle Rd)	Hartwood Marsh Rd	CFX Lake- Orange Connector	Road Extension	System Performance	Design	2023/24	\$3,000,000	PDE		New Roadway, Not on CMP Network

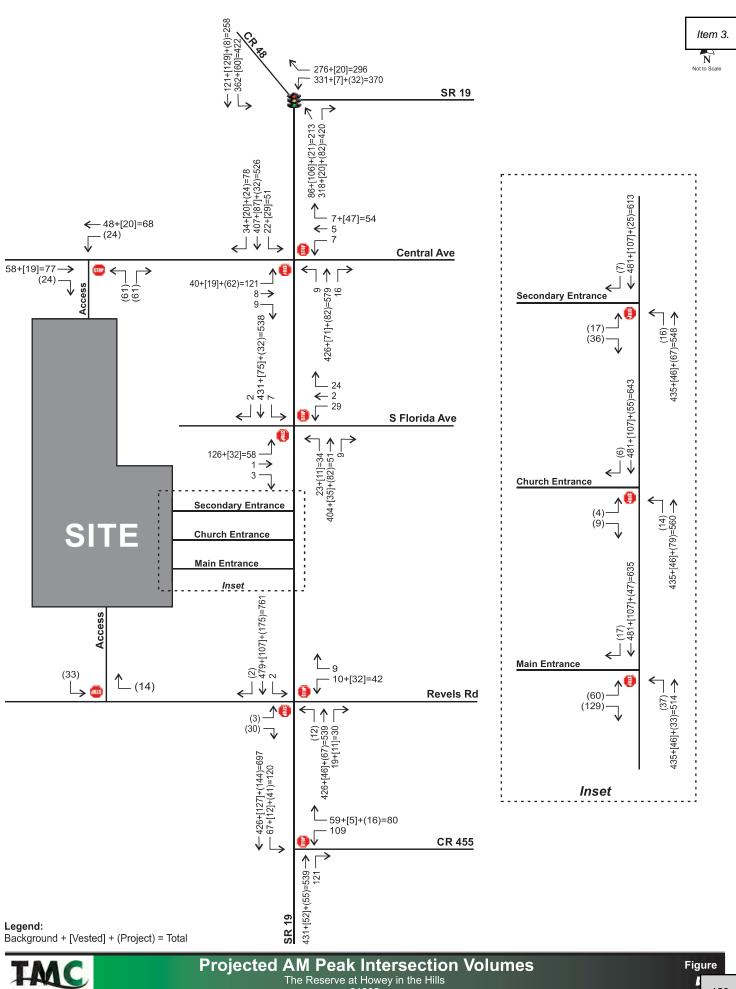
Table 3 – Roadway Capacity (Non-SIS) Project Priorities

Capacity Rank	Sponsor/ Location	FM #	Project Name	From	То	Description	Performance Measure(s)	Proposed Phase	Proposed Phase FY	Proposed Phase Cost	Programmed Phase(s)	Programmed Phase FY	CMP Congested Corridors 2021 Analysis (for informational purposes)
10	Lake County	-	Citrus Grove Phase II	West of Scrub Jay Lane	Grassy Lake Rd	New Alignment/Wi dening	System Performance	CST	2024/25	\$10,000,000	ROW		New Roadway, Not on CMP Network
11	Lake County	-	Citrus Grove Phase V	Turnpike	Blackstill Lake Dr	New Roadway/Alig nment	System Performance	CST	2024/25	\$5,000,000	Design		New Roadway, Not on CMP Network
12	Lake County	441393-1	CR 437 Realignment	Oak Tree Dr	SR 46	New Alignment/Wi dening	System Performance	CST	2024/25	\$4,000,000	Design		New Roadway, Not on CMP Network
13	Lake County	-	Hartwood Marsh	Regency Hills Dr	Innovation Lane	Road Widening	System Performance	Design	2023/24	\$750,000	PDE		Approaching Congestion
14	Lake County	-	CR 455 Paved Shoulder	CR 561	CR 561A	Paved Shoulder	System Performance	Design	2023/24	\$700,000			Operating at Acceptable Level of Service
15	FDOT/Lak e County	-	CR 470/CR 48	Meggison Road at The Villages	US 27	Road Widening	System Performance	Design	2023/24	\$4,000,000			Congested (2026)
16	Lake County/ Mount Dora	-	Vista Ridge Drive/Wolf Branch Innovation Boulevard	Niles Rd	Round Lake Road	New Roadway	System Performance	Design	2023/24	\$1,000,000	Study		New Roadway, Not on CMP Network
17	Lake County	-	CR 561A	CR 561	CR 455	Realignment	System Performance; Safety	PDE	2023/24	\$750,000	Study		Operating at Acceptable Level of Service
18	FDOT/ Lake County	-	SR 44	Orange Ave	CR 46A	Road Widening	System Performance	PDE	2023/24	\$TBD			Congested (2021)
19	FDOT	-	SR 19	SR 50	CR 455	Road Widening	System Performance	PDE	2023/24	\$TBD			Congested (2021)

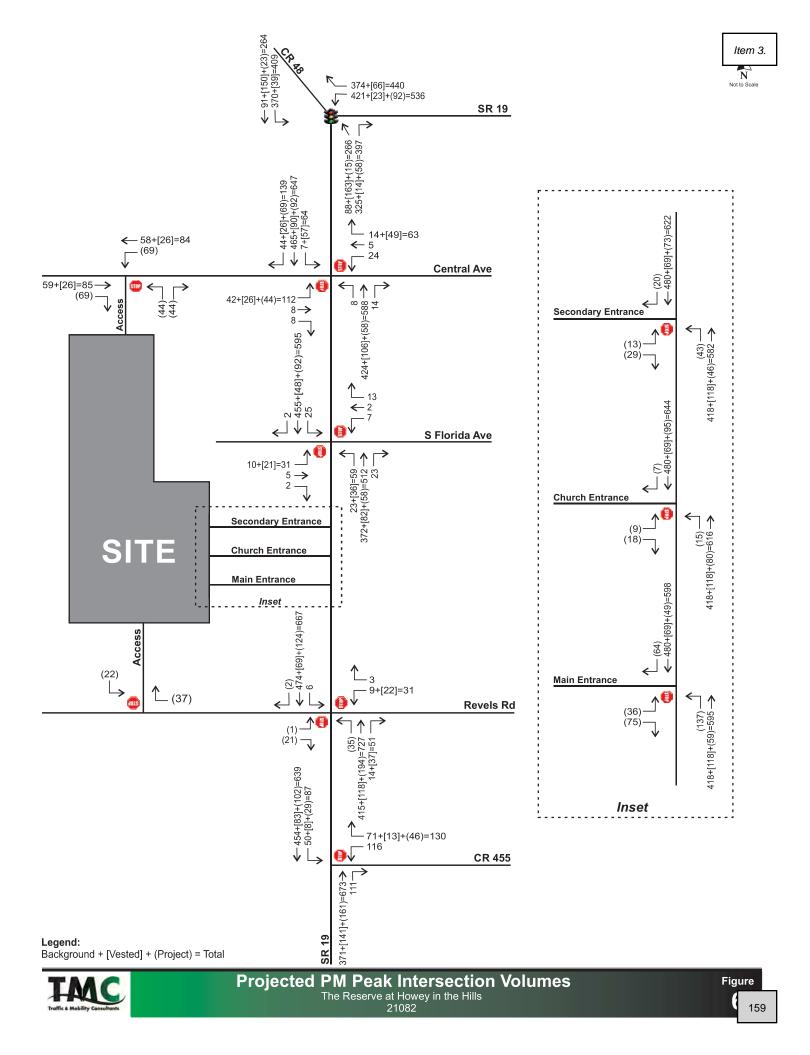
Capacity Rank	Sponsor/ Location	FM #	Project Name	From	То	Description	Performance Measure(s)	Proposed Phase	Proposed Phase FY	Proposed Phase Cost	Programmed Phase(s)	Programmed Phase FY	CMP Congested Corridors 2021 Analysis (for informational purposes)
20	Lake County	-	Woodlea Road	SR 19	End	Road Widening	System Performance	Design Update/ ROW	2023/24	\$3,000,000			Operating at Acceptable Level of Service
21	FDOT/ Lake County	238319-1	SR 19	Howey Bridge	CR 561	Road Widening	System Performance	CST	2023/24	\$35,000,000			Extremely Congested (2021)
22	Lake County	-	Hancock Road	Hartwood Marsh Rd	Wellness Way	New Road	System Performance	CST	2025/26	\$20,000,000			New Roadway, Not on CMP Network
23	Lake County	-	SR 46A	SR 44	SR 46	Road Widening	System Performance	CST	2023/24	\$TBD	Design		Congested (2021)

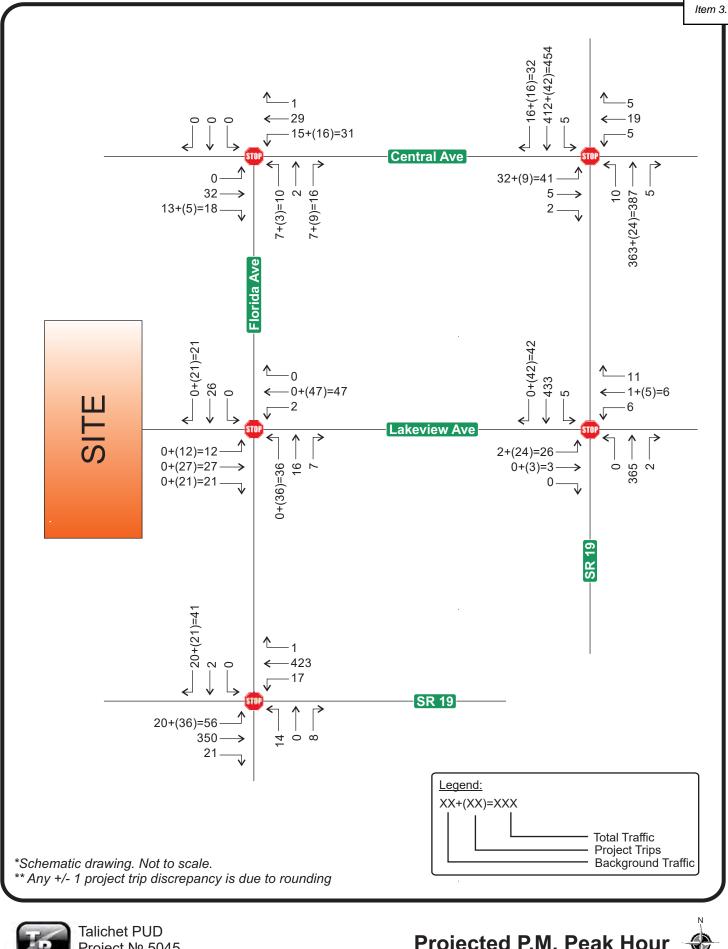
Top 20 Project

Appendix I Vested Trips Data



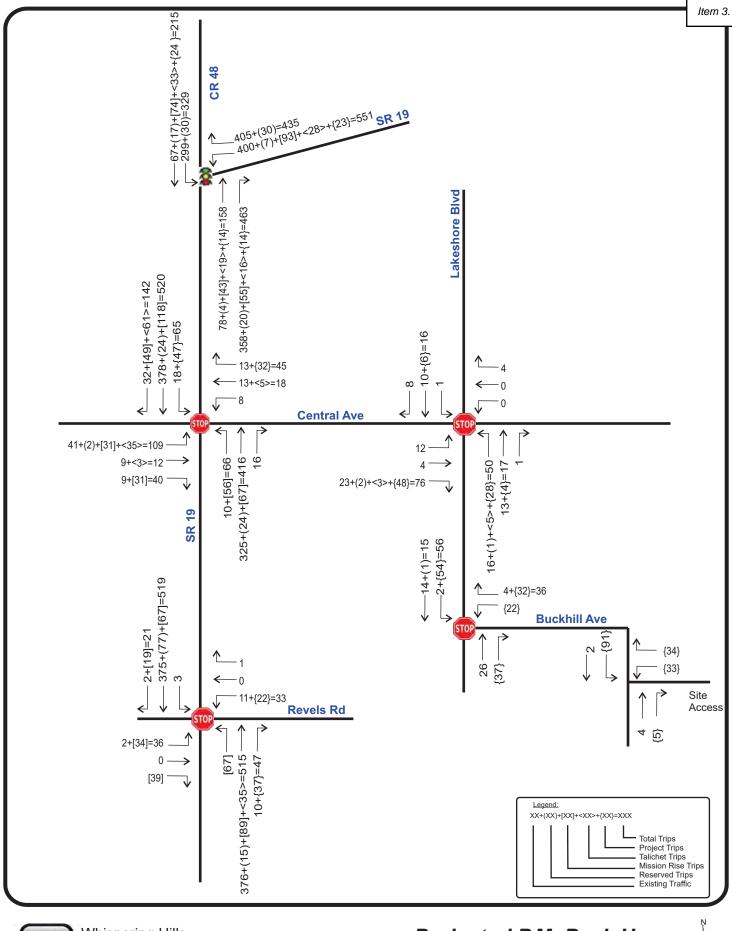
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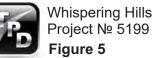




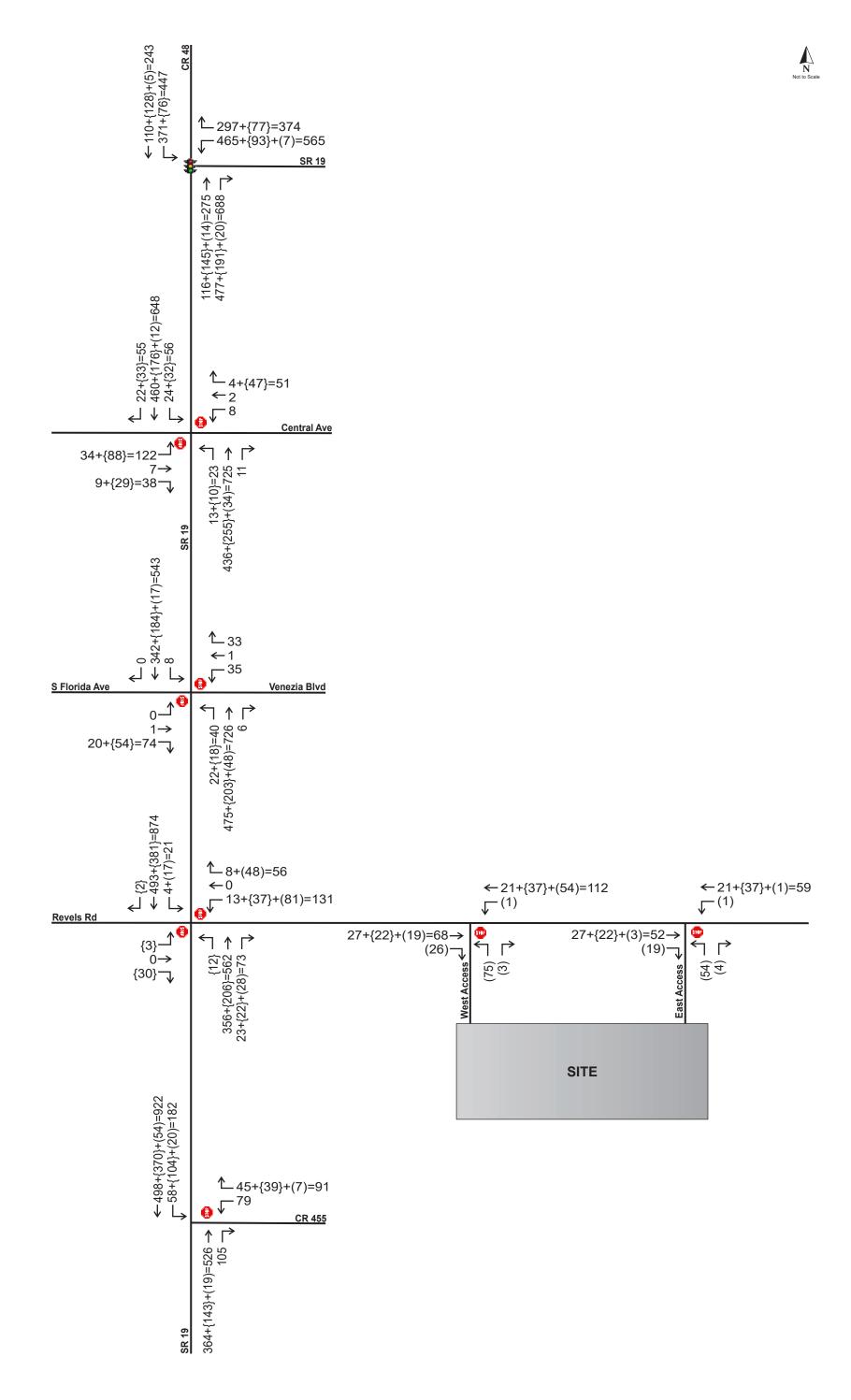
Talichet PUD Project № 5045 **Figure 5** Projected P.M. Peak Hour Traffic Volumes







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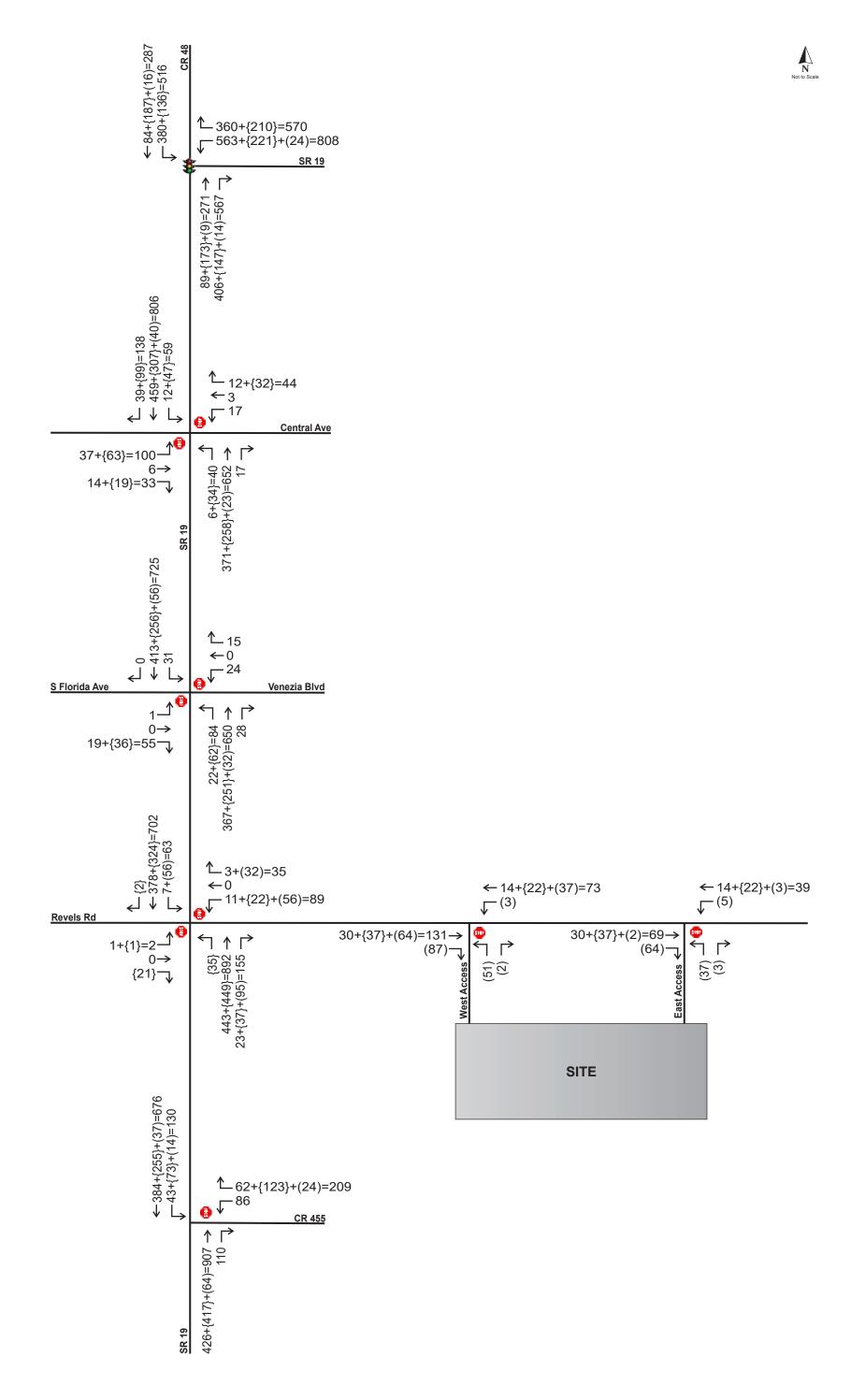


Legend: Background + {Committed} + (Project) = Total



Projected AM Peak Hour Intersection Volumes Simpson Howey-In-The-Hills 22105





Legend: Background + {Committed} + (Project) = Total



Projected PM Peak Hour Intersection Volumes Simpson Howey-In-The-Hills 22105

Figure 5

		Table '	1	
Tri	p Generatio	on Calculatio	ons – Phase 1 (2026)	
		Daily	AM Peak Hour	

IIE			Da	liy			ak Houi		PM Peak Hour			
Code	Land Use	Size	Rate	Trips	Rate	Total	Enter	Exit	Rate	Total	Enter	Exit
210	Single-Family Detached	184 DU	9.61	1,768	0.71	131	34	97	0.96	177	112	65
215	Single-Family Attached	1,061	0.48	70	22	48	0.57	83	47	36		
	Total Trip	2,829		201	56	145		260	159	101		

Source: ITE Trip Generation Manual, 11th Edition

ITE equations were used as R^2 were greater than 0.75 and with more than 20 studies

Phase 1 of the proposed development is projected to generate 2,829 new daily trips of which 201 trips occur during the AM peak hour, and 260 trips occur during the PM peak hour.

			Julutio	113 1	nusc	i uin			2000			
ITE							ak Hour	•		PM Pea	ak Hou	r
Code	Land Use	Size	Rate	Trips	Rate	Total	Enter	Exit	Rate	Total	Enter	Exit
210	Single-Family Detached	358 DU	9.11	3,261	0.66	236	61	175	0.92	329	207	122
215	Single-Family Attached	292 DU	7.45	2,175	0.50	146	45	101	0.59	172	98	74
Tota	al Trip Generation Buildou	hase 2)	5,436		382	106	276		501	305	196	

Table 2Trip Generation Calculations – Phase 1 and Phase 2 (2030)

Source: ITE Trip Generation Manual, 11th Edition

ITE equations were used as R^2 were greater than 0.75 and with more than 20 studies

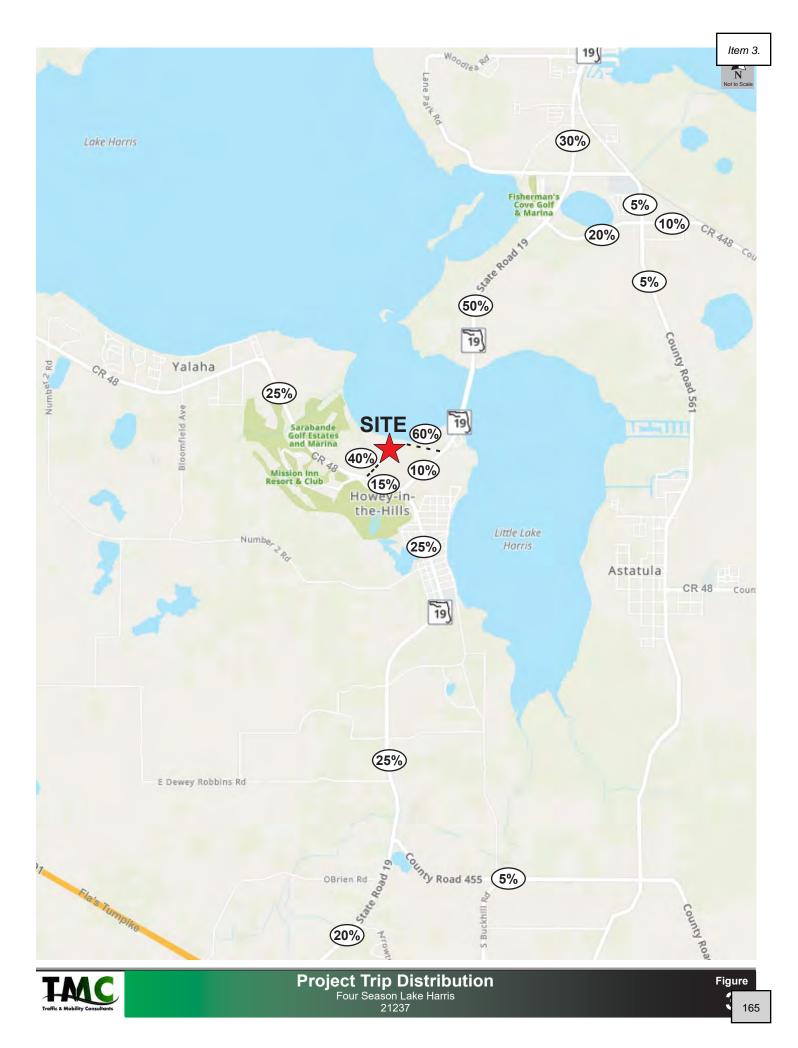
The proposed development at project buildout is projected to generate 5,436 new daily trips of which 382 trips occur during the AM peak hour, and 501 trips occur during the PM peak hour.

Trip Distribution

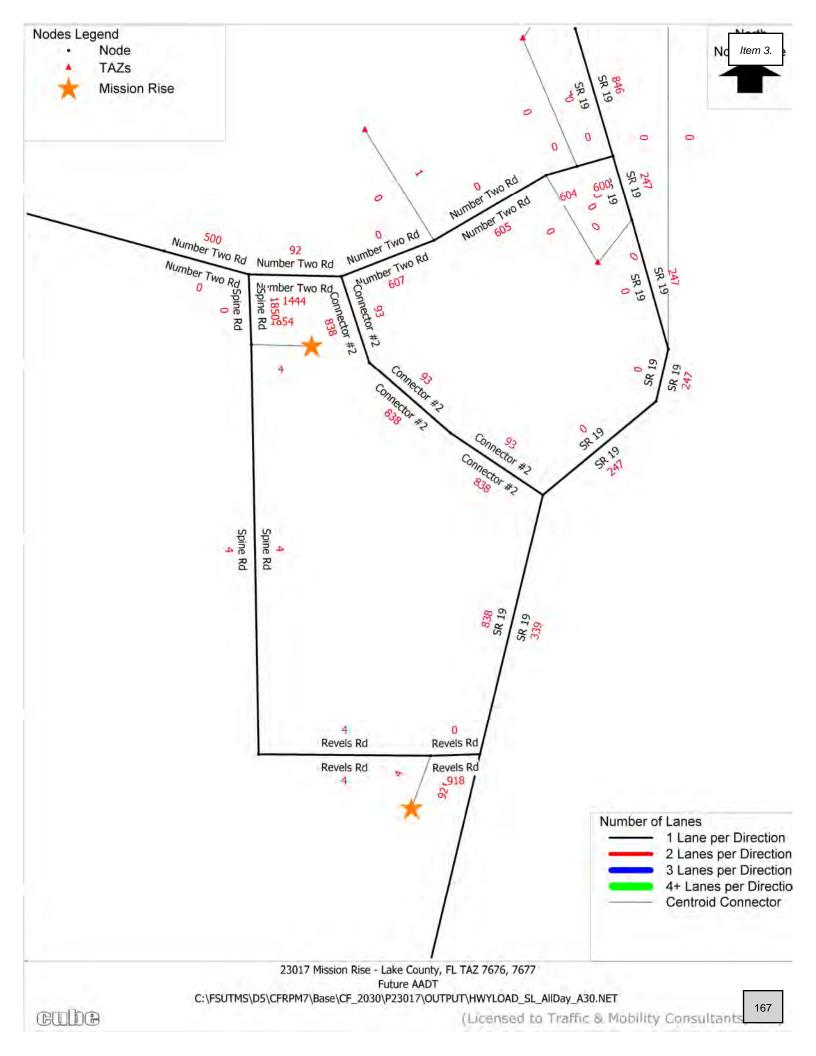
A trip distribution pattern was estimated using the *Central Florida Regional Planning Model, version 7 (CFRPM V7)*. The model distribution was adjusted based on local knowledge, professional engineering judgement, and the location of the development with respect to the study area attractions and activity centers to reflect prevailing travel patterns in the vicinity of the site and the surrounding transportation network. The raw model plots are provided in the **Attachments**, and the adjusted trip distribution is shown in **Figure 2**.

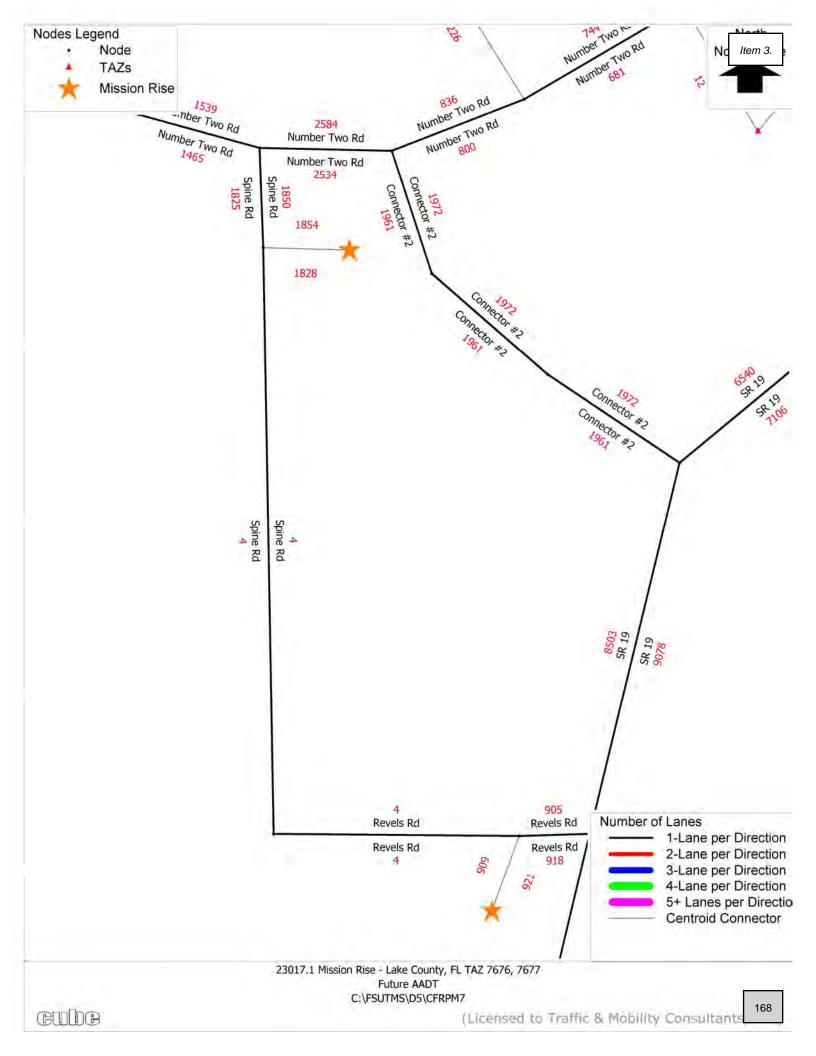
Study Area

In accordance with the LSMPO requirements for a Tier 2 TIA methodology and the Town of Howey-In-The-Hills Land Development Code, the study area will encompass roadway segments and intersections within a 1-mile radius at minimum. The study will also include segments and intersections within a 4.55-mile radius, (½ the trip length for residential land use), where the project's peak hour trips consume five percent (5%) or more of a roadway's two-way peak hour generalized service volume, based on the adopted LOS and committed number of lanes. The total trip length was obtained from the *Lake County Transportation Impact Fee Schedule Table 9-1* (dated 12/21/2001), included in the **Attachments**. The roadway segments identified by the significance test will be analyzed in the Tier 2 TIA. Excerpts from the *2020 Lake County Congestion Management Plan (CMP) Database* are included in the **Attachments**. The study area significance analysis is summarized in **Table 3**.



Appendix J AADT Model Plot





Appendix K HCM Worksheets - Projected Conditions

	1	•	t	1	1	ţ
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	٦	1	1	1	۲	1
Traffic Volume (veh/h)	522	334	455	740	413	180
Future Volume (veh/h)	522	334	455	740	413	180
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No		No			No
Adj Sat Flow, veh/h/ln	1752	1589	1767	1811	1737	1811
Adj Flow Rate, veh/h	538	205	469	0	426	186
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	10	21	9	6	11	0.97
Cap, veh/h	386	312	695	U	502	1139
Arrive On Green	0.23	0.23	0.39	0.00	0.17	0.63
Sat Flow, veh/h	1668	1346	1767	1535	1654	1811
Grp Volume(v), veh/h	538	205	469	0	426	186
Grp Sat Flow(s),veh/h/ln	1668	1346	1767	1535	1654	1811
Q Serve(g_s), s	22.7	13.5	21.5	0.0	14.2	4.2
Cycle Q Clear(g_c), s	22.7	13.5	21.5	0.0	14.2	4.2
Prop In Lane	1.00	1.00		1.00	1.00	
Lane Grp Cap(c), veh/h	386	312	695		502	1139
V/C Ratio(X)	1.39	0.66	0.67		0.85	0.16
Avail Cap(c_a), veh/h	386	312	695		535	1139
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	0.00	1.00	1.00
Uniform Delay (d), s/veh	37.7	34.2	24.5	0.0	16.9	7.5
Incr Delay (d2), s/veh	192.0	5.0	5.2	0.0	11.6	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	44.9	8.2	14.6	0.0	10.5	2.8
Unsig. Movement Delay, s/vel		0.2	11.0	0.0	10.0	2.0
LnGrp Delay(d),s/veh	229.7	39.1	29.7	0.0	28.5	7.8
LnGrp LOS	223.1 F	59.1 D	23.1 C	0.0	20.5 C	7.0 A
· ·		U		٨	U	612
Approach Vol, veh/h	743		469	А		
Approach Delay, s/veh	177.1		29.7			22.2
Approach LOS	F		С			С
Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	23.0	45.0		30.0		68.0
Change Period (Y+Rc), s	6.5	6.4		7.3		6.4
Max Green Setting (Gmax), s	18.5	38.6		22.7		38.6
Max Q Clear Time (g_c+I1), s		23.5		24.7		6.2
Green Ext Time (p_c), s	0.4	2.5		0.0		1.0
,	0.4	2.0		0.0		1.0
Intersection Summary						
HCM 6th Ctrl Delay			87.2			
HCM 6th LOS			F			
Notoo						

Notes

Unsignalized Delay for [NBR] is excluded from calculations of the approach delay and intersection delay.

Synchro 11 Report

	1	*	Ť	1	1	ŧ
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	7	1	1	1	1	1
Traffic Volume (veh/h)	751	483	164	588	451	194
Future Volume (veh/h)	751	483	164	588	451	194
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No		No			No
Adj Sat Flow, veh/h/ln	1752	1589	1767	1811	1737	1811
Adj Flow Rate, veh/h	774	359	169	0	465	200
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	10	21	9	6	11	6
Cap, veh/h	380	307	685	0	737	1149
Arrive On Green	0.23	0.23	0.39	0.00	0.18	0.63
	1668	1346	1767	1535	1654	1811
Sat Flow, veh/h						
Grp Volume(v), veh/h	774	359	169	0	465	200
Grp Sat Flow(s),veh/h/ln	1668	1346	1767	1535	1654	1811
Q Serve(g_s), s	22.7	22.7	6.5	0.0	16.0	4.5
Cycle Q Clear(g_c), s	22.7	22.7	6.5	0.0	16.0	4.5
Prop In Lane	1.00	1.00		1.00	1.00	
Lane Grp Cap(c), veh/h	380	307	685		737	1149
V/C Ratio(X)	2.04	1.17	0.25		0.63	0.17
Avail Cap(c_a), veh/h	380	307	685		744	1149
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	0.00	1.00	1.00
Uniform Delay (d), s/veh	38.4	38.4	20.7	0.0	12.3	7.5
	475.1	105.6	0.9	0.0	1.7	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	92.9	24.6	4.9	0.0	9.5	3.0
Unsig. Movement Delay, s/veh		21.0	1.0	0.0	0.0	0.0
LnGrp Delay(d),s/veh	513.5	144.1	21.5	0.0	14.0	7.8
LnGrp LOS	F	F	21.5 C	0.0	B	A
		<u> </u>		٨	<u> </u>	
Approach Vol, veh/h	1133		169	А		665
Approach Delay, s/veh	396.4		21.5 C			12.1
Approach LOS	F		C			В
Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	24.6	45.0		30.0		69.6
Change Period (Y+Rc), s	6.5	6.4		7.3		6.4
Max Green Setting (Gmax), s	18.5	38.6		22.7		38.6
Max Q Clear Time (g_c+I1), s	18.0	8.5		24.7		6.5
Green Ext Time (p_c), s	0.1	0.9		0.0		1.1
	0.1	0.9		0.0		1.1
Intersection Summary						
HCM 6th Ctrl Delay			234.3			
HCM 6th LOS			F			
Notoo						

Notes

Unsignalized Delay for [NBR] is excluded from calculations of the approach delay and intersection delay.

Synchro 11 Report

Intersection

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		4			4			4			4		
Traffic Vol, veh/h	144	4	12	13	1	65	14	672	29	37	663	49	
Future Vol, veh/h	144	4	12	13	1	65	14	672	29	37	663	49	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free	
RT Channelized	-	-	None										
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-	
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	97	97	97	97	97	97	97	97	97	97	97	97	
Heavy Vehicles, %	12	33	2	2	2	2	38	10	2	42	2	11	
Mvmt Flow	148	4	12	13	1	67	14	693	30	38	684	51	

Major/Minor	Minor2		I	Minor1			Major1		Ν	/lajor2			
Conflicting Flow All	1556	1537	710	1530	1547	708	735	0	0	723	0	0	
Stage 1	786	786	-	736	736	-	-	-	-	-	-	-	
Stage 2	770	751	-	794	811	-	-	-	-	-	-	-	
Critical Hdwy	7.22	6.83	6.22	7.12	6.52	6.22	4.48	-	-	4.52	-	-	
Critical Hdwy Stg 1	6.22	5.83	-	6.12	5.52	-	-	-	-	-	-	-	
Critical Hdwy Stg 2	6.22	5.83	-	6.12	5.52	-	-	-	-	-	-	-	
Follow-up Hdwy	3.608	4.297	3.318	3.518	4.018	3.318	2.542	-	-	2.578	-	-	
Pot Cap-1 Maneuver	~ 87	99	434	96	114	435	727	-	-	722	-	-	
Stage 1	371	362	-	411	425	-	-	-	-	-	-	-	
Stage 2	379	376	-	381	393	-	-	-	-	-	-	-	
Platoon blocked, %								-	-		-	-	
Mov Cap-1 Maneuver		87	434	82	100	435	727	-	-	722	-	-	
Mov Cap-2 Maneuver	~ 66	87	-	82	100	-	-	-	-	-	-	-	
Stage 1	359	329	-	398	411	-	-	-	-	-	-	-	
Stage 2	310	364	-	333	358	-	-	-	-	-	-	-	
Approach	EB			WB			NB			SB			
HCM Control Delay, s	\$ 729.8			26.5			0.2			0.5			
HCM LOS	F			D									
Minor Lane/Major Mvr	mt	NBL	NBT	NBR	EBLn1V	VBLn1	SBL	SBT	SBR				
Capacity (veh/h)		727	-	-	71	248	722	-	-				
HCM Lane V/C Ratio		0.02	-	-	2.323	0.328	0.053	-	-				
HCM Control Delay (s	5)	10.1	0	-\$	729.8	26.5	10.3	0	-				
HCM Lane LOS	/	В	А	-	F	D	В	А	-				
HCM 95th %tile Q(ver	ר)	0.1	-	-	15.7	1.4	0.2	-	-				
Notes													
~: Volume exceeds ca	apacity	\$: De	elay exc	eeds 3	00s	+: Com	putation	Not De	fined	*: All r	najor volu	ume in platoon	

Intersection

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		4			4			4			4		
Traffic Vol, veh/h	108	14	16	20	4	49	19	642	25	66	784	162	
Future Vol, veh/h	108	14	16	20	4	49	19	642	25	66	784	162	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free	
RT Channelized	-	-	None										
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-	
Veh in Median Storage	,# -	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	97	97	97	97	97	97	97	97	97	97	97	97	
Heavy Vehicles, %	12	33	2	2	2	2	38	10	2	42	2	11	
Mvmt Flow	111	14	16	21	4	51	20	662	26	68	808	167	

Major/Minor	Minor2		I	Minor1			Major1		Ν	/lajor2				
Conflicting Flow All	1771	1756	892	1758	1826	675	975	0	0	688	0	0		
Stage 1	1028	1028	-	715	715	-	-	-	-	-	-	-		
Stage 2	743	728	-	1043	1111	-	-	-	-	-	-	-		
Critical Hdwy	7.22	6.83	6.22	7.12	6.52	6.22	4.48	-	-	4.52	-	-		
Critical Hdwy Stg 1	6.22	5.83	-	6.12	5.52	-	-	-	-	-	-	-		
Critical Hdwy Stg 2	6.22	5.83	-	6.12	5.52	-	-	-	-	-	-	-		
Follow-up Hdwy	3.608	4.297		3.518	4.018	3.318		-	-	2.578	-	-		
Pot Cap-1 Maneuver	~ 61	72	341	66	77	454	582	-	-	746	-	-		
Stage 1	271	275	-	422	434	-	-	-	-	-	-	-		
Stage 2	392	386	-	277	285	-	-	-	-	-	-	-		
Platoon blocked, %								-	-		-	-		
Mov Cap-1 Maneuver	~ 41	54	341	41	58	454	582	-	-	746	-	-		
Mov Cap-2 Maneuver	~ 41	54	-	41	58	-	-	-	-	-	-	-		
Stage 1	256	218	-	398	410	-	-	-	-	-	-	-		
Stage 2	326	364	-	195	226	-	-	-	-	-	-	-		
Approach	EB			WB			NB			SB				
HCM Control Delay, \$	1096.5			89.7			0.3			0.7				
HCM LOS	F			F										
Minor Lane/Major Mvr	nt	NBL	NBT	NBR	EBLn1V	VBLn1	SBL	SBT	SBR					
Capacity (veh/h)		582	-	-	47	110	746	-	-					
HCM Lane V/C Ratio		0.034	-	-	3.027	0.684	0.091	-	-					
HCM Control Delay (s)	11.4	0	\$	1096.5	89.7	10.3	0	-					
HCM Lane LOS		В	А	-	F	F	В	А	-					
HCM 95th %tile Q(veh	ı)	0.1	-	-	15.4	3.6	0.3	-	-					
Notes														
~: Volume exceeds ca	pacity	\$: De	elay exc	eeds 3	00s -	+: Com	putation	Not De	fined	*: All r	najor volu	ume in platoor	1	

Intersection

		FDT			MOT			NDT			ODT	000
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	1	68	17	10	31	1	10	0	20	0	0	0
Future Vol, veh/h	1	68	17	10	31	1	10	0	20	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None									
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	80	80	80	80	80	80	80	80	80	80	80	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	1	85	21	13	39	1	13	0	25	0	0	0

Major/Minor	Major1		1	Major2			Minor1			Minor2			
Conflicting Flow All	40	0	0	106	0	0	164	164	96	176	174	40	
Stage 1	-	-	-	-	-	-	98	98	-	66	66	-	
Stage 2	-	-	-	-	-	-	66	66	-	110	108	-	
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22	
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-	
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-	
Follow-up Hdwy	2.218	-	-	2.218	-	-	0.010	4.018		3.518		3.318	
Pot Cap-1 Maneuver	1570	-	-	1485	-	-	801	729	960	786	719	1031	
Stage 1	-	-	-	-	-	-	908	814	-	945	840	-	
Stage 2	-	-	-	-	-	-	945	840	-	895	806	-	
Platoon blocked, %		-	-		-	-							
Mov Cap-1 Maneuver	1570	-	-	1485	-	-	795	722	960	760	712	1031	
Mov Cap-2 Maneuver	-	-	-	-	-	-	795	722	-	760	712	-	
Stage 1	-	-	-	-	-	-	907	813	-	944	832	-	
Stage 2	-	-	-	-	-	-	936	832	-	871	805	-	
Approach	EB			WB			NB			SB			
HCM Control Delay, s	0.1			1.8			9.2			0			
HCM LOS							А			А			
Minor Lane/Major Mvr	nt I	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1				

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR SI	BLn1	
Capacity (veh/h)	898	1570	-	-	1485	-	-	-	
HCM Lane V/C Ratio	0.042	0.001	-	-	0.008	-	-	-	
HCM Control Delay (s)	9.2	7.3	0	-	7.4	0	-	0	
HCM Lane LOS	А	А	А	-	А	А	-	А	
HCM 95th %tile Q(veh)	0.1	0	-	-	0	-	-	-	

Intersection

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		\$			\$			\$			\$	
Traffic Vol, veh/h	0	52	11	36	59	6	9	1	33	1	0	0
Future Vol, veh/h	0	52	11	36	59	6	9	1	33	1	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None									
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	80	80	80	80	80	80	80	80	80	80	80	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	65	14	45	74	8	11	1	41	1	0	0

Major/Minor	Major1		1	Major2			Minor1			Minor2			
Conflicting Flow All	82	0	0	79	0	0	240	244	72	261	247	78	
Stage 1	-	-	-	-	-	-	72	72	-	168	168	-	
Stage 2	-	-	-	-	-	-	168	172	-	93	79	-	
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22	
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-	
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-	
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318	
Pot Cap-1 Maneuver	1515	-	-	1519	-	-	714	658	990	692	655	983	
Stage 1	-	-	-	-	-	-	938	835	-	834	759	-	
Stage 2	-	-	-	-	-	-	834	756	-	914	829	-	
Platoon blocked, %		-	-		-	-							
Mov Cap-1 Maneuver	1515	-	-	1519	-	-	697	638	990	646	635	983	
Mov Cap-2 Maneuver	-	-	-	-	-	-	697	638	-	646	635	-	
Stage 1	-	-	-	-	-	-	938	835	-	834	735	-	
Stage 2	-	-	-	-	-	-	808	733	-	875	829	-	
Approach	EB			WB			NB			SB			
HCM Control Delay, s	0			2.7			9.3			10.6			
HCM LOS							А			В			
Minor Lane/Major Mvn	nt N	IBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1				

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR S	SBLn1	
Capacity (veh/h)	899	1515	-	-	1519	-	-	646	
HCM Lane V/C Ratio	0.06	-	-	-	0.03	-	-	0.002	
HCM Control Delay (s)	9.3	0	-	-	7.4	0	-	10.6	
HCM Lane LOS	Α	Α	-	-	Α	А	-	В	
HCM 95th %tile Q(veh)	0.2	0	-	-	0.1	-	-	0	

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Intersection

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		ર્સ	1		4		7	ţ,			र्स	1
Traffic Vol, veh/h	41	0	120	124	0	53	44	490	66	21	790	14
Future Vol, veh/h	41	0	120	124	0	53	44	490	66	21	790	14
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None									
Storage Length	-	-	0	-	-	-	430	-	-	-	-	405
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	90	90	90	90	90	90	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2	2	8	12	2	10	2
Mvmt Flow	46	0	133	138	0	59	49	544	73	23	878	16

Major/Minor	Minor2		1	Minor1			Major1		Ν	/lajor2				
Conflicting Flow All	1632	1639	878	1678	1619	581	894	0	0	617	0	0		
Stage 1	924	924	-	679	679	-	-	-	-	-	-	-		
Stage 2	708	715	-	999	940	-	-	-	-	-	-	-		
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-		
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-		
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-		
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018		2.218	-	-	2.218	-	-		
Pot Cap-1 Maneuver	81	100	347	~ 75	103	514	759	-	-	963	-	-		
Stage 1	323	348	-	441	451	-	-	-	-	-	-	-		
Stage 2	426	434	-	293	342	-	-	-	-	-	-	-		
Platoon blocked, %								-	-		-	-		
Mov Cap-1 Maneuver		89	347	~ 42	92	514	759	-	-	963	-	-		
Mov Cap-2 Maneuver	66	89	-	~ 42	92	-	-	-	-	-	-	-		
Stage 1	302	331	-	412	422	-	-	-	-	-	-	-		
Stage 2	353	406	-	172	326	-	-	-	-	-	-	-		
Approach	EB			WB			NB			SB				
HCM Control Delay, s	51.2		\$ [·]	1224.7			0.7			0.2				
HCM LOS	F			F										
Minor Lane/Major Mvr	nt	NBL	NBT	NBR	EBLn1	EBLn2\	VBLn1	SBL	SBT	SBR				
Capacity (veh/h)		759	-	-	66	347	58	963	-	-				
HCM Lane V/C Ratio		0.064	-	-	0.69	0.384	3.391	0.024	-	-				
HCM Control Delay (s	;)	10.1	-	-			1224.7	8.8	0	-				
HCM Lane LOS		В	-	-	F	Ċ	F	A	A	-				
HCM 95th %tile Q(ver	ר)	0.2	-	-	3	1.8	20.9	0.1	-	-				
Notes														
~: Volume exceeds ca	apacity	\$: De	elay exc	eeds 3	00s	+: Com	putatior	n Not De	fined	*: All n	najor vol	ume in plato	on	

Intersection

Int Delay, s/veh

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		ŧ	1		\$		5	ţ,			ا	1
Traffic Vol, veh/h	30	1	83	88	0	36	135	744	146	64	602	45
Future Vol, veh/h	30	1	83	88	0	36	135	744	146	64	602	45
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	0	-	-	-	430	-	-	-	-	405
Veh in Median Storage,	, # -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	90	90	90	90	90	90	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2	2	8	12	2	10	2
Mvmt Flow	33	1	92	98	0	40	150	827	162	71	669	50

Major/Minor	Minor2		ļ	Minor1			Major1		ľ	Major2			
Conflicting Flow All	2039	2100	669	2091	2069	908	719	0	0	989	0	0	
Stage 1	811	811	-	1208	1208	-	-	-	-	-	-	-	
Stage 2	1228	1289	-	883	861	-	-	-	-	-	-	-	
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-	
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-	
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-	
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-	
Pot Cap-1 Maneuver	42	52	458	~ 38	54	334	882	-	-	699	-	-	
Stage 1	373	393	-	224	256	-	-	-	-	-	-	-	
Stage 2	218	234	-	340	372	-	-	-	-	-	-	-	
Platoon blocked, %								-	-		-	-	
Mov Cap-1 Maneuver	~ 28	36	458	~ 22	37	334	882	-	-	699	-	-	
Mov Cap-2 Maneuver	~ 28	36	-	~ 22	37	-	-	-	-	-	-	-	
Stage 1	310	326	-	186	212	-	-	-	-	-	-	-	
Stage 2	159	194	-	224	308	-	-	-	-	-	-	-	
Approach	EB			WB			NB			SB			
HCM Control Delay, s	135.1		\$	1882.8			1.3			1			
HCM LOS	F			F									
Minor Lane/Major Mvr	nt	NBL	NBT	NBR	EBLn1	EBLn2V	VBLn1	SBL	SBT	SBR			
Capacity (veh/h)	-	882	-	-	28	458	30	699	-	-			
HCM Lane V/C Ratio		0.17	-	-	1.23	0.201	4.593	0.102	-	-			
HCM Control Delay (s	;)	9.9	-	-\$	457.1		1882.8	10.7	0	-			
HCM Lane LOS		A	-	-	F	B	F	В	Ă	-			
HCM 95th %tile Q(veh	ר)	0.6	-	-	4	0.7	16.6	0.3	-	-			
Notes													
	nacity	\$. D.		oode 3	000	+: Com	nutation	Not De	fined	*· All n	azior vol	ume in platoon	
~: Volume exceeds ca	apacity	φ. De	elay exc	eeus 3	005	Com	pulation	I NOL DE	inteu	. All fi	najui vui	une in platoon	

Synchro 11 Report

Intersection	
Int Delay s/veh	

Int Delay, s/veh	48.7					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	٦	1	ħ	1		÷
Traffic Vol, veh/h	78	88	596	133	183	927
Future Vol, veh/h	78	88	596	133	183	927
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	0	-	590	-	-
Veh in Median Storage	e, # 0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	96	96	96	96	96	96
Heavy Vehicles, %	38	15	8	22	9	5
Mvmt Flow	81	92	621	139	191	966

Major/Minor	Minor1	Ν	/lajor1	ľ	Major2			
Conflicting Flow All	1969	621	0	0	760	0		
Stage 1	621	-	-	-	-	-		
Stage 2	1348	-	-	-	-	-		
Critical Hdwy	6.78	6.35	-	-	4.19	-		
Critical Hdwy Stg 1	5.78	-	-	-	-	-		
Critical Hdwy Stg 2	5.78	-	-	-	-	-		
Follow-up Hdwy	3.842	3.435	-	-	2.281	-		
Pot Cap-1 Maneuver	~ 55	465	-	-	821	-		
Stage 1	473	-	-	-	-	-		
Stage 2	203	-	-	-	-	-		
Platoon blocked, %			-	-		-		
Mov Cap-1 Maneuver	· ~ 27	465	-	-	821	-		
Mov Cap-2 Maneuver		-	-	-	-	-		
Stage 1	473	-	-	-	-	-		
Stage 2	101	-	-	-	-	-		
Approach	WB		NB		SB			
HCM Control Delay, s	\$ 576.7		0		1.8			
HCM LOS	F							
Minor Lane/Major Mv	mt	NBT	NBRW	BLn1V	VBLn2	SBL	SBT	
Capacity (veh/h)		-	-	27	465	821	-	
HCM Lane V/C Ratio		-	- 3	3.009	0.197	0.232	-	
HCM Control Delay (s	6)	-	\$ 12	210.8	14.6	10.7	0	
HCM Lane LOS		-	-	F	В	В	А	
HCM 95th %tile Q(vel	n)	-	-	9.9	0.7	0.9	-	
Notes								
~: Volume exceeds ca	apacity	\$: De	lay exce	eds 30)0s	+: Comp	utation Not Defined	*: All major volume in platoon

Intersection							
Int Delay, s/veh	68.9						
Movement	WBL	WBR	NBT	NBR	SBL	SBT	-
Lane Configurations	٢	1	ħ	1		ŧ	1
Traffic Vol, veh/h	100	179	956	110	130	756	;
Future Vol, veh/h	100	179	956	110	130	756	;
Conflicting Peds, #/hr	0	0	0	0	0	0)
Sign Control	Stop	Stop	Free	Free	Free	Free	;
RT Channelized	-	None	-	None	-	None	;
Storage Length	0	0	-	590	-	-	
Veh in Median Storage	e, # 0	-	0	-	-	0)
Grade, %	0	-	0	-	-	0)
Peak Hour Factor	96	96	96	96	96	96	;
Heavy Vehicles, %	38	15	8	22	9	5	;
Mvmt Flow	104	186	996	115	135	788	}

Major/Minor	Minor1	Ν	Major1	N	Major2			 	
Conflicting Flow All	2054	996	0		1111	0			
Stage 1	996	-	-	-	-	-			
Stage 2	1058	-	-	-	-	-			
Critical Hdwy	6.78	6.35	-	-	4.19	-			
Critical Hdwy Stg 1	5.78	-	-	-	-	-			
Critical Hdwy Stg 2	5.78	-	-	-	-	-			
Follow-up Hdwy		3.435	-	-	2.281	-			
Pot Cap-1 Maneuver		280	-	-	603	-			
Stage 1	307	-	-	-	-	-			
Stage 2	286	-	-	-	-	-			
Platoon blocked, %			-	-		-			
Mov Cap-1 Maneuve		280	-	-	603	-			
Mov Cap-2 Maneuve		-	-	-	-	-			
Stage 1	307	-	-	-	-	-			
Stage 2	172	-	-	-	-	-			
Approach	WB		NB		SB				
HCM Control Delay, s	\$ 544.7		0		1.9				
HCM LOS	F								
Minor Lane/Major Mv	mt	NBT	NBRW	BLn1V	VBLn2	SBL	SBT		
Capacity (veh/h)		-	-	29	280	603	-		
HCM Lane V/C Ratio		-	- 3			0.225	-		
HCM Control Delay (s)	-		447.7	40.2	12.7	0		
HCM Lane LOS		-	-	F	Е	В	А		
HCM 95th %tile Q(ve	h)	-	-	12.5	4.4	0.9	-		

Notes

~: Volume exceeds capacity

\$: Delay exceeds 300s +: Computation Not Defined

*: All major volume in platoon

Intersection

Int Delay, s/veh	3.2						
Movement	WBL	WBR	NBT	NBR	SBL	SBT	•
Lane Configurations	Y		ţ,			ŧ	1
Traffic Vol, veh/h	0	33	71	0	44	42	2
Future Vol, veh/h	0	33	71	0	44	42	2
Conflicting Peds, #/hr	0	0	0	0	0	0	1
Sign Control	Stop	Stop	Free	Free	Free	Free	;
RT Channelized	-	None	-	None	-	None	ļ
Storage Length	0	-	-	-	-	-	-
Veh in Median Storage	,# 0	-	0	-	-	0)
Grade, %	0	-	0	-	-	0)
Peak Hour Factor	92	92	92	92	92	92	2
Heavy Vehicles, %	2	2	2	2	2	2)
Mvmt Flow	0	36	77	0	48	46	;

Major/Minor	Minor1	Ν	lajor1	Ν	/lajor2	
Conflicting Flow All	219	77	0	0	77	0
Stage 1	77	-	-	-	-	-
Stage 2	142	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	769	984	-	-	1522	-
Stage 1	946	-	-	-	-	-
Stage 2	885	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	744	984	-	-	1522	-
Mov Cap-2 Maneuver	744	-	-	-	-	-
Stage 1	946	-	-	-	-	-
Stage 2	857	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	8.8		0		3.8	
	٨					

HCM LOS А

Minor Lane/Major Mvmt	NBT	NBRW	/BLn1	SBL	SBT
Capacity (veh/h)	-	-	984	1522	-
HCM Lane V/C Ratio	-	-	0.036	0.031	-
HCM Control Delay (s)	-	-	8.8	7.4	0
HCM Lane LOS	-	-	А	А	А
HCM 95th %tile Q(veh)	-	-	0.1	0.1	-

Int Delay, s/veh	3.2						
Movement	WBL	WBR	NBT	NBR	SBL	SBT	•
Lane Configurations	Y		ţ,			ŧ	1
Traffic Vol, veh/h	0	48	60	0	42	80)
Future Vol, veh/h	0	48	60	0	42	80	1
Conflicting Peds, #/hr	0	0	0	0	0	0	1
Sign Control	Stop	Stop	Free	Free	Free	Free	;
RT Channelized	-	None	-	None	-	None	;
Storage Length	0	-	-	-	-	-	-
Veh in Median Storage	,# 0	-	0	-	-	0)
Grade, %	0	-	0	-	-	0)
Peak Hour Factor	92	92	92	92	92	92	į
Heavy Vehicles, %	2	2	2	2	2	2	,
Mvmt Flow	0	52	65	0	46	87	•

Major/Minor	Minor1	Ν	lajor1	Ν	/lajor2	
Conflicting Flow All	244	65	0	0	65	0
Stage 1	65	-	-	-	-	-
Stage 2	179	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	744	999	-	-	1537	-
Stage 1	958	-	-	-	-	-
Stage 2	852	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	721	999	-	-	1537	-
Mov Cap-2 Maneuver	721	-	-	-	-	-
Stage 1	958	-	-	-	-	-
Stage 2	826	-	-	-	-	-
Approach	WB		NB		SB	

Approach	WB	NB	SB
HCM Control Delay, s	8.8	0	2.6
HCM LOS	А		

Minor Lane/Major Mvmt	NBT	NBRW	BLn1	SBL	SBT
Capacity (veh/h)	-	-	999	1537	-
HCM Lane V/C Ratio	-	- (0.052	0.03	-
HCM Control Delay (s)	-	-	8.8	7.4	0
HCM Lane LOS	-	-	А	А	А
HCM 95th %tile Q(veh)	-	-	0.2	0.1	-

Int Delay, s/veh	5.5						
Movement	EBT	EBR	WBL	WBT	NBL	NBR	L I
Lane Configurations	1	1	٦	1	Y		
Traffic Vol, veh/h	62	26	46	33	52	78	\$
Future Vol, veh/h	62	26	46	33	52	78	}
Conflicting Peds, #/hr	0	0	0	0	0	0)
Sign Control	Free	Free	Free	Free	Stop	Stop)
RT Channelized	-	None	-	None	-	None)
Storage Length	-	420	655	-	0	-	
Veh in Median Storage,	# 0	-	-	0	0	-	-
Grade, %	0	-	-	0	0	-	
Peak Hour Factor	92	92	92	92	92	92)
Heavy Vehicles, %	2	2	2	2	2	2)
Mvmt Flow	67	28	50	36	57	85	5

Major/Minor	Major1	N	Jaiar?		Minor1	
	Major1		Major2			07
Conflicting Flow All	0	0	95	0	203	67
Stage 1	-	-	-	-	67	-
Stage 2	-	-	-	-	136	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1499	-	786	997
Stage 1	-	-	-	-	956	-
Stage 2	-	-	-	-	890	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	r –	-	1499	-	760	997
Mov Cap-2 Maneuver		-	-	-	760	-
Stage 1	_	-	-	-	956	-
Stage 2	-	-	-	-	861	-
olugo 2					001	
Approach	EB		WB		NB	
HCM Control Delay, s	s 0		4.4		9.8	
HCM LOS					А	
			FDT			MOT
Minor Lane/Major Mv	mt N	IBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		886	-	-	1499	-
HCM Lane V/C Ratio		0.159	-	-	0.033	-
HCM Control Delay (s	s)	9.8	-	-	7.5	-

Capacity (veh/h)	886	-	- 1499	-		
HCM Lane V/C Ratio	0.159	-	- 0.033	-		
HCM Control Delay (s)	9.8	-	- 7.5	-		
HCM Lane LOS	А	-	- A	-		
HCM 95th %tile Q(veh)	0.6	-	- 0.1	-		

Int Delay, s/veh	5.1						
Movement	EBT	EBR	WBL	WBT	NBL	NBR	ł
Lane Configurations	1	1	٦	1	Y		
Traffic Vol, veh/h	46	59	87	39	41	64	ŀ
Future Vol, veh/h	46	59	87	39	41	64	ŀ
Conflicting Peds, #/hr	0	0	0	0	0	0	1
Sign Control	Free	Free	Free	Free	Stop	Stop)
RT Channelized	-	None	-	None	-	None	ļ
Storage Length	-	420	655	-	0	-	
Veh in Median Storage,	# 0	-	-	0	0	-	-
Grade, %	0	-	-	0	0	-	-
Peak Hour Factor	92	92	92	92	92	92)
Heavy Vehicles, %	2	2	2	2	2	2)
Mvmt Flow	50	64	95	42	45	70)

Major/Minor	Major1		Major2		Minor1	
					-	E0
Conflicting Flow All	0	0	114	0	282	50
Stage 1	-	-	-	-	50	-
Stage 2	-	-	-	-	232	-
Critical Hdwy	-	-	4.12	-	•••-	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1475	-	708	1018
Stage 1	-	-	-	-	972	-
Stage 2	-	-	-	-	807	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	_	_	1475	-	663	1018
Mov Cap-2 Maneuver	-	-	-	-	663	-
Stage 1	-		-	-	070	-
		-	-	-	755	
Stage 2	-	-	-	-	755	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		5.3		9.9	
HCM LOS	v		0.0		A	
					Λ	
Minor Lane/Major Mvm	nt I	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		842	-	-	1475	-
HCM Lane V/C Ratio		0.136	-	-	0.064	-
HCM Control Delay (s)	1	9.9	-	-	7.6	-
HCM Lane LOS		A	-	-	A	-

_

0.5

_

0.2

HCM 95th %tile Q(veh)

Int Delay, s/veh	7.6						
Movement	WBL	WBR	NBT	NBR	SBL	SBT	-
Lane Configurations	Y		ţ,			ŧ	1
Traffic Vol, veh/h	10	108	6	5	142	9)
Future Vol, veh/h	10	108	6	5	142	9)
Conflicting Peds, #/hr	0	0	0	0	0	0)
Sign Control	Stop	Stop	Free	Free	Free	Free	;
RT Channelized	-	None	-	None	-	None	;
Storage Length	0	-	-	-	-	-	-
Veh in Median Storage	,# 0	-	0	-	-	0)
Grade, %	0	-	0	-	-	0)
Peak Hour Factor	92	92	92	92	92	92	2
Heavy Vehicles, %	2	2	2	2	2	2	2
Mvmt Flow	11	117	7	5	154	10)

Major/Minor	Minor1	Ν	lajor1	Ν	/lajor2	
Conflicting Flow All	328	10	0	0	12	0
Stage 1	10	-	-	-	-	-
Stage 2	318	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	666	1071	-	-	1607	-
Stage 1	1013	-	-	-	-	-
Stage 2	738	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	602	1071	-	-	1607	-
Mov Cap-2 Maneuver	602	-	-	-	-	-
Stage 1	1013	-	-	-	-	-
Stage 2	667	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	9.1		0		7	

HCM LOS А

Minor Lane/Major Mvmt	NBT	NBRW	BLn1	SBL	SBT
Capacity (veh/h)	-	-	1005	1607	-
HCM Lane V/C Ratio	-	-	0.128	0.096	-
HCM Control Delay (s)	-	-	9.1	7.5	0
HCM Lane LOS	-	-	Α	Α	Α
HCM 95th %tile Q(veh)	-	-	0.4	0.3	-

Int Delay, s/veh	7.8					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	Y		ħ			÷
Traffic Vol, veh/h	10	163	9	12	134	5
Future Vol, veh/h	10	163	9	12	134	5
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	,# 0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	11	177	10	13	146	5

Major/Minor	Minor1	Ν	/lajor1	Ма	ajor2	
Conflicting Flow All	314	17	0	0	23	0
Stage 1	17	-	-	-	-	-
Stage 2	297	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	- 2	.218	-
Pot Cap-1 Maneuver	679	1062	-	- ′	592	-
Stage 1	1006	-	-	-	-	-
Stage 2	754	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuve	617	1062	-	- '	1592	-
Mov Cap-2 Maneuve	· 617	-	-	-	-	-
Stage 1	1006	-	-	-	-	-
Stage 2	685	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	9.3		0		7.2	
HCM LOS	А					

Minor Lane/Major Mvmt	NBT	NBRW	/BLn1	SBL	SBT
Capacity (veh/h)	-	-	1019	1592	-
HCM Lane V/C Ratio	-	-	0.185	0.091	-
HCM Control Delay (s)	-	-	9.3	7.5	0
HCM Lane LOS	-	-	А	А	Α
HCM 95th %tile Q(veh)	-	-	0.7	0.3	-

Int Delay, s/veh	7.1					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		ŧ	ţ,		Y	
Traffic Vol, veh/h	7	0	0	4	12	7
Future Vol, veh/h	7	0	0	4	12	7
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage,	# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	8	0	0	4	13	8

Major/Minor	Major1	Ν	/lajor2	1	Minor2	
Conflicting Flow All	4	0	-	0	18	2
Stage 1	-	-	-	-	2	-
Stage 2	-	-	-	-	16	-
Critical Hdwy	4.12	-	-	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	2.218	-	-	-	3.518	
Pot Cap-1 Maneuver	1618	-	-	-	1000	1082
Stage 1	-	-	-	-	1021	-
Stage 2	-	-	-	-	1007	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1618	-	-	-	995	1082
Mov Cap-2 Maneuver	-	-	-	-	995	-
Stage 1	-	-	-	-	1016	-
Stage 2	-	-	-	-	1007	-
Approach	EB		WB		SB	
HCM Control Delay, s	7.2		0		8.6	
HCM LOS					А	
Minor Lane/Major Mvn	nt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)		1618	-	-	-	1025
HCM Lane V/C Ratio		0.005	-	-	-	0.02
HCM Control Delay (s))	7.2	0	-	-	8.6
HCM Lane LOS		А	А	-	-	А
HCM 95th %tile Q(veh)	0	-	-	-	0.1

Int Delay, s/veh	5.1					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		ŧ	ţ,		Y	
Traffic Vol, veh/h	7	0	0	13	8	7
Future Vol, veh/h	7	0	0	13	8	7
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage,	# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	8	0	0	14	9	8

Major/Minor	Major1	Ν	lajor2		Minor2	
Conflicting Flow All	14	0		0	23	7
Stage 1	-	-	-	-	7	-
Stage 2	-	-	-	-	16	-
Critical Hdwy	4.12	-	-	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	2.218	-	-	-	3.518	3.318
Pot Cap-1 Maneuver	1604	-	-	-	993	1075
Stage 1	-	-	-	-	1016	-
Stage 2	-	-	-	-	1007	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1604	-	-	-	988	1075
Mov Cap-2 Maneuver	-	-	-	-	988	-
Stage 1	-	-	-	-	1011	-
Stage 2	-	-	-	-	1007	-
Approach	EB		WB		SB	
HCM Control Delay, s	7.3		0		8.6	
HCM LOS					А	
Minor Lane/Major Mvr	nt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)		1604	-	-	-	1027
HCM Lane V/C Ratio		0.005	-	-	-	0.016
HCM Control Delay (s)	7.3	0	-	-	8.6
HCM Lane LOS		А	А	-	-	А
HCM 95th %tile Q(veh	ı)	0	-	-	-	0

Appendix L Intersection Volume Projections

Project No. 23017 Mission Rise

-														Counts on			
Inters	ection V	/olume	S											7/19/2023			
Perio	d			Tgen	Enter	Exit								SF	AGR	Years	Legend
A	M Peak				81	241								1.06	2.00%	10	Backg'd + {Vested} + (Project) =
Inters	ection=		SR 19	9 & CR 48													1
Approa	ach Mvmt	Raw	SF	Adjusted	GR	Redirect	Adj Bg'd	The Reserve	Whisp. Hills	Talichet	Lake Hills	Watermark	Vested	%Proj Ent	%Proj Ext	Project	Total Formula
	L	0	1.06	0	1.20		0		-				0	-	-	0	0
EB	Т	0	1.06	0	1.20		0						0			0	0
	R	0	1.06	0	1.20		0						0			0	0
	L	326	1.06	346	1.20		415	32	14		36	7	89	23%		18	522 415 + {89} + (18) = 522
WB	Т	0	1.06	0	1.20		0						0			0	0
	R	216	1.06	229	1.20		275				59		59			0	334 275 + {59} = 334
	L	0	1.06	0	1.20		0						0			0	0
NB	Т	298	1.06	316	1.20		379	21	24		12	14	71		2%	5	455 379 + {71} + (5) = 455
	R	429	1.06	455	1.20		546	82	23		14	20	139		23%	55	740 546 + {139} + (55) = 740
	L	261	1.06	277	1.20		332				81		81			0	413 332 + {81} = 413
SB	Т	92	1.06	98	1.20		118	8	14		33	5	60	2%		2	180 118 + {60} + (2) = 180
	R	0	1.06	0	1.20		0						0			0	0

Inters	ection=		SR 19	& Central	Ave													
Approa	ch Mvmt Ra	w	SF	Adjusted	GR	Redirect /	Adj Bg'd	The Reserve	Whisp. Hills	Talichet	Lake Hills	Watermark	Vested	%Proj Ent	%Proj Ext	Project	Total	Formula
	L	33	1.06	35	1.20		42	62		16			78		10%	24	144 42	+ {78} + (24) = 144
В	Т	3	1.06	3	1.20		4						0			0	4 4	
	R	9	1.06	10	1.20		12						0			0	12 12	
	L	10	1.06	11	1.20		13						0			0	13 13	
VB	Т	1	1.06	1	1.20		1						0			0	1 1	
	R	14	1.06	15	1.20		18		47				47			0	65 18	+ {47} = 65
	L	11	1.06	12	1.20		14						0			0	14 14	
lΒ	Т	356	1.06	377	1.20		452	82		42	26	34	184		15%	36	672 45	2 + {184} + (36) = 672
	R	23	1.06	24	1.20		29						0			0	29 29	
	L	4	1.06	4	1.20		5		32				32			0	37 5 +	· {32} = 37
SB	Т	404	1.06	428	1.20		514	32		24	69	12	137	15%		12	663 51	4 + {137} + (12) = 663
	R	7	1.06	7	1.20		8	24		9			33	10%		8	49 8 +	{33} + (8) = 49

Inter	section=		Centr	al Ave & S	. Florid	da Ave										3
Appro	oach Mvmt R	aw	SF	Adjusted	GR	Redirect Adj Bg'd	The Reserve Whisp. Hills	Talichet	Lake Hills	Watermark	Vested	%Proj Ent	%Proj Ext	Project	Total	Formula
	L	1	1.06	1	1.20	1					0			0	1 1	
EB	Т	35	1.06	37	1.20	44					0		10%	24	68 44	+ (24) = 68
	R	11	1.06	12	1.20	14		3			3			0	17 14	+ {3} = 17
	L	1	1.06	1	1.20	1		9			9			0	10 1 +	{9} = 10
WВ	т	18	1.06	19	1.20	23					0	10%		8	31 23	+ (8) = 31
	R	1	1.06	1	1.20	1					0			0	1 1	
	L	4	1.06	4	1.20	5		5			5			0	10 5 +	{5} = 10
NB	т	0	1.06	0	1.20	0					0			0	0	
	R	3	1.06	3	1.20	4		16			16			0	20 4 +	{16} = 20
	L	0	1.06	0	1.20	0					0			0	0	
SB	т	0	1.06	0	1.20	0					0			0	0	
	R	0	1.06	0	1.20	0					0			0	0	

Intersection=	SR 19	9 & Revels	Rd												
Approach Mvmt Ra	aw SF	Adjusted	GR	Redirect Adj Bg'd	The Reserve	Whisp. Hills	Talichet	Lake Hills	Watermark	Vested	%Proj Ent	%Proj Ext	Project	Total	Formula
L	2 1.06	2	1.20	2	3					3		15%	36	41 2 +	{3} + (36) = 41
EB T	0 1.06	0	1.20	0						0			0	0	
R	5 1.06	5	1.20	6	30					30		35%	84	120 6 +	{30} + (84) = 120
L	5 1.06	5	1.20	6		37			81	118			0	124 6 +	{118} = 124
WB T	0 1.06	0	1.20	0						0			0	0	
R	4 1.06	4	1.20	5					48	48			0	53 5 +	{48} = 53
L	3 1.06	3	1.20	4	12					12	35%		28	44 4 +	{12} + (28) = 44
NB T	306 1.06	324	1.20	389	67			26		93	10%		8	490 389	+ {93} + (8) = 490
R	12 1.06	13	1.20	16		22			28	50			0	66 16 -	{50} = 66
L	3 1.06	3	1.20	4					17	17			0	21 4 +	{17} = 21
SB T	410 1.06	435	1.20	522	175			69		244		10%	24	790 522	+ {244} + (24) = 790
R	0 1.06	0	1.20	0	2					2	15%		12		+ (12) = 14

Interse	ection=	:	SR 19	& CR 455													
Approad	ch Mvmt	Raw	SF	Adjusted	GR	Redirect Adj I	g'd The Reserve	e Whisp. Hills	Talichet	Lake Hills	Watermark	Vested	%Proj Ent	%Proj Ext	Project	Total Form	nula
	L	0	1.00	0	1.20	(0			0	0	
ΞB	Т	0	1.00	0	1.20	C						0			0	0	
	R	0	1.00	0	1.20	C						0			0	0	
	L	65	1.00	65	1.20	7						0			0	78 78	
VB	Т	0	1.00	0	1.20	C						0			0	0	
	R	43	1.00	43	1.20	5	16			5	7	28	10%		8	88 52 + {28} + (8) = 8	38
	L	0	1.00	0	1.20	(0			0	0	
IB	Т	394	1.00	394	1.20	47	3 55			21	19	95	35%		28	596 473 + {95} + (28)	= 596
	R	111	1.00	111	1.20	13	3					0			0	133 133	
	L	70	1.00	70	1.20	8	41			14	20	75		10%	24	183 84 + {75} + (24) =	183
SВ	т	492	1.00	492	1.20	59) 144			55	54	253		35%	84	927 590 + {253} + (84	= 927
	R	0	1.00	0	1.20	C						0			0	0	

Inters	ection=	Inter	connect Rd	& Spi	ne Rd (Proposed)										6
Approa	ch Mvmt Raw	SF	Adjusted	GR	Redirect Adj Bg'	The Reserve Whisp. Hills	Talichet	Lake Hills	Watermark	Vested	%Proj Ent	%Proj Ext	Project	Total	Formula
	L				0								0	0	
EB	т				0								0	0	
	R				0								0	0	
	L				0								0	0	
WB	т				0								0	0	
	R				25						10%		8	33 25 + (8	3) = 33
	L				0								0	0	
NB	т				20								51	71 20 + (5	51) = 71
	R				0								0	0	
	L				20							10%	24	44 20 + (2	24) = 44
SB	т				25								16	41 25 + (1	16) = 41
	R				0								0	0	

Inters	ection=		Numb	per 2 Rd &	Spine	Road / No	rth Acces	55									7
Approa	ch Mvmt	Raw	SF	Adjusted	GR	Redirect	Adj Bg'd	The Reserve Whisp. H	lls Talichet	Lake Hills	Watermark	Vested	%Proj Ent	%Proj Ext	Project	Total	Formula
	L						0								0	0	
EB	Т						59					3			0	62 59 + {3} = 62	2
	R						15						15%		11	26 15 + (11) = 2	26
	L						30						20%		16	46 30 + (16) = 4	16
WB	Т						28					5			0	33 28 + {5} = 33	3
	R						0								0	0	
	L						15							15%	37	52 15 + (37) = 5	52
NB	Т						0								0	0	
	R						30							20%	48	78 30 + (48) = 7	78
	L						0								0	0	
SB	Т						0								0	0	
	R						0								0	0	

Inters	section=	:	Revel	ls Rd & Spi	ne Rd	/ Propose	d												8
Appro	ach Mvmt	Raw	SF	Adjusted	GR	Redirect	Adj Bg'd	The Reserve	Whisp. Hills	Talichet	Lake Hills	Watermark	Vested	%Proj Ent	%Proj Ext	Project	Total	Formula	1
	L						0									0	0		
EB	Т						0									0	0		
	R						0									0	0		
	L						3								3%	7	10 3	+ (7) = 10	
WB	Т						0									0	0		
	R						62							25%		46	108 62	2 + (46) = 108	
	L						0									0	0		
NB	Т						4							2%		2	6 4	+ (2) = 6	
	R						3							3%		2	5 3	+ (2) = 5	
	L						74								25%	68	142 74	1 + (68) = 142	
SB	Т						4								2%	5	9 4	+ (5) = 9	
	R						0									0	0		

Inters	section=	-	Revel	ls Rd & Ora	ange B	lossom R	d / South	Access												9
Appro	ach Mvmt	Raw	SF	Adjusted	GR	Redirect	Adj Bg'd	The Reserve	Whisp. Hills	Talichet	Lake Hills	Watermark	Vested	%Proj Ent	%Proj Ext	Project	Total	For	mula	
	L						7									0	7	7		
EB	Т						0									0	0			
	R						0									0	0			
	L						0									0	0			
WB	Т						0									0	0			
	R						0							5%		4	4	(4)		
	L						0									0	0			
NB	Т						0									0	0			
	R						0									0	0			
	L						0								5%	12	12	(12)		
SB	Т						0									0	0			
	R						7									0	7	7		

Project No. 23017 Mission Rise

-														Counts on			
Inters	ection V	/olume	S											7/19/2023			
Perio	d			Tgen	Enter	Exit								SF	AGR	Years	Legend
P	M Peak				284	167								1.06	2.00%	10	Backg'd + {Vested} + (Project) =
Inters	ection=		SR 19	9 & CR 48													1
Approa	ach Mvmt	Raw	SF	Adjusted	GR	Redirect	Adj Bg'd	The Reserve	Whisp. Hills	Talichet	Lake Hills	Watermark	Vested	%Proj Ent	%Proj Ext	Project	Total Formula
	L	0	1.06	0	1.20		0						0			0	0
EB	Т	0	1.06	0	1.20		0						0			0	0
	R	0	1.06	0	1.20		0						0			0	0
	L	409	1.06	434	1.20		521	92	23		25	24	164	23%		66	751 521 + {164} + (66) = 751
WB	Т	0	1.06	0	1.20		0						0			0	0
	R	301	1.06	319	1.20		383				100		100			0	483 383 + {100} = 483
	L	0	1.06	0	1.20		0						0			0	0
NB	Т	68	1.06	72	1.20		86	15	14		37	9	75		2%	3	164 86 + {75} + (3) = 164
	R	333	1.06	353	1.20		424	58	14		39	14	125		23%	39	588 424 + {125} + (39) = 588
	L	287	1.06	304	1.20		365				86		86			0	451 365 + {86} = 451
SB	Т	79	1.06	84	1.20		101	23	24		24	16	87	2%		6	194 101 + {87} + (6) = 194
	R	0	1.06	0	1.20		0						0			0	0

Inters	ection=		SR 19	e & Centra	l Ave													
Approa	ch Mvmt Ra	w	SF	Adjusted	GR	Redirect	Adj Bg'd	The Reserve	Whisp. Hills	Talichet	Lake Hills	Watermark	Vested	%Proj Ent	%Proj Ext	Project	Total	Formula
	L	30	1.06	32	1.20		38	44		9			53		10%	17	108 38	+ {53} + (17) = 108
EB	Т	11	1.06	12	1.20		14						0			0	14 14	
	R	12	1.06	13	1.20		16						0			0	16 16	
	L	16	1.06	17	1.20		20						0			0	20 20	
WB	Т	3	1.06	3	1.20		4						0			0	4 4	
	R	13	1.06	14	1.20		17		32				32			0	49 17	+ {32} = 49
	L	15	1.06	16	1.20		19						0			0	19 19	
NB	Т	342	1.06	363	1.20		436	58		24	76	23	181		15%	25	642 436	6 + {181} + (25) = 642
	R	20	1.06	21	1.20		25						0			0	25 25	
	L	15	1.06	16	1.20		19		47				47			0	66 19	+ {47} = 66
SB	Т	408	1.06	432	1.20		518	92		42	49	40	223	15%		43	784 518	3 + {223} + (43) = 784
	R	38	1.06	40	1.20		48	69		16			85	10%		29	162 48	+ {85} + (29) = 162

Inter	section=		Centr	al Ave & S	. Florie	da Ave												3
Appro	ach Mvmt R	aw	SF	Adjusted	GR	Redirect Adj Bg'	d The Reserve	Whisp. Hills	Talichet	Lake Hills	Watermark	Vested	%Proj Ent	%Proj Ext	Project	Total	Formula	
	L	0	1.06	0	1.20	0						0			0	0		
EB	Т	27	1.06	29	1.20	35						0		10%	17	52 35 +	+ (17) = 52	
	R	5	1.06	5	1.20	6			5			5			0	11 6 +	{5} = 11	
	L	16	1.06	17	1.20	20			16			16			0	36 20 -	+ {16} = 36	
WB	Т	24	1.06	25	1.20	30						0	10%		29	59 30 +	+ (29) = 59	
	R	5	1.06	5	1.20	6						0			0	6 6		
	L	5	1.06	5	1.20	6			3			3			0	9 6+	{3} = 9	
NB	Т	1	1.06	1	1.20	1						0			0	1 1		
	R	19	1.06	20	1.20	24			9			9			0	33 24 -	+ {9} = 33	
	L	1	1.06	1	1.20	1						0			0	1 1		
SB	Т	0	1.06	0	1.20	0						0			0	0		
	R	0	1.06	0	1.20	0						0			0	0		

Intersection=	SR 1	9 & Revels	Rd											
Approach Mvmt Ra	w SF	Adjusted	GR	Redirect Adj Bg'o	d The Reserve	Whisp. Hills	Talichet	Lake Hills	Watermark	Vested	%Proj Ent	%Proj Ext	Project	Total Formula
L	3 1.06	3	1.20	4	1					1		15%	25	30 4 + {1} + (25) = 30
EB T	1 1.06	1	1.20	1						0			0	1 1
R	4 1.06	4	1.20	5	21					21		35%	57	83 5 + {21} + (57) = 83
L	8 1.06	8	1.20	10		22			56	78			0	88 10 + {78} = 88
WB T	0 1.06	0	1.20	0						0			0	0
R	3 1.06	3	1.20	4					32	32			0	36 4 + {32} = 36
L	1 1.06	1	1.20	1	35					35	35%		99	135 1 + {35} + (99) = 135
NB T	351 1.06	372	1.20	446	194			76		270	10%		28	744 446 + {270} + (28) = 744
R	11 1.06	12	1.20	14		37			95	132			0	146 14 + {132} = 146
L	7 1.06	7	1.20	8					56	56			0	64 8 + {56} = 64
SB T	324 1.06	343	1.20	412	124			49		173		10%	17	602 412 + {173} + (17) = 602
R	0 1.06	0	1.20	0	2					2	15%		43	45 {2} + (43) = 45

Inters	ection=		SR 19	& CR 455													
Approa	ch Mvmt F	Raw	SF	Adjusted	GR	Redirect A	dj Bg'd	The Reserve Whisp. Hills	Talichet	Lake Hills	Watermark	Vested	%Proj Ent	%Proj Ext	Project	Total For	mula
	L	0	1.00	0	1.20		0					0			0	0	
В	Т	0	1.00	0	1.20		0					0			0	0	
	R	0	1.00	0	1.20		0					0			0	0	
	L	83	1.00	83	1.20		100					0			0	100 100	
VB	т	0	1.00	0	1.20		0					0			0	0	
	R	55	1.00	55	1.20		66	46		15	24	85	10%		28	179 66 + {85} + (28) =	= 179
	L	0	1.00	0	1.20		0					0			0	0	
В	т	476	1.00	476	1.20		571	161		61	64	286	35%		99	956 571 + {286} + (99	9) = 956
	R	92	1.00	92	1.20		110					0			0	110 110	
	L	50	1.00	50	1.20		60	29		10	14	53		10%	17	130 60 + {53} + (17) =	= 130
BB	т	433	1.00	433	1.20		520	102		39	37	178		35%	58	756 520 + {178} + (58	3) = 756
	R	0	1.00	0	1.20		0					0			0	0	

Inters	ection=	Inter	connect Rd	& Spi	ne Rd (Proposed)										6
Approa	ch Mvmt Raw	SF	Adjusted	GR	Redirect Adj Bg'	The Reserve Whisp. Hills	Talichet	Lake Hills	Watermark	Vested	%Proj Ent	%Proj Ext	Project	Total	Formula
	L				0								0	0	
EB	Т				0								0	0	
	R				0								0	0	
	L				0								0	0	
WB	Т				0								0	0	
	R				20						10%		28	48 20 + (28	3) = 48
	L				0								0	0	
NB	Т				25								36	61 25 + (36	6) = 61
	R				0								0	0	
	L				25							10%	17	42 25 + (1	7) = 42
SB	Т				20								61	81 20 + (6	1) = 81
	R				0								0	0	

Inters	ection=	:	Numb	ber 2 Rd & S	Spine	Road / No	rth Acces	ss											7
Appro	ach Mvmt	Raw	SF	Adjusted	GR	Redirect	Adj Bg'd	The Reserve	Whisp. Hills	Talichet	Lake Hills	Watermark	Vested	%Proj Ent	%Proj Ext	Project	Total	Formula	
	L						0									0	0		
EB	Т						41						5			0	46 41 + {5} = 4	6	
	R						15							15%		44	59 15 + (44) =	59	
	L						30							20%		57	87 30 + (57) =	87	
WB	Т						36						3			0	39 36 + {3} = 3	39	
	R						0									0	0		
	L						15								15%	26	41 15 + (26) =	41	
NB	Т						0									0	0		
	R						30								20%	34	64 30 + (34) =	64	
	L						0									0	0		
SB	Т						0									0	0		
	R						0									0	0		

Inters	section=	-	Reve	ls Rd & Spi	ne Rd	/ Propose	d												8
Appro	ach Mvmt	Raw	SF	Adjusted	GR	Redirect	Adj Bg'd	The Reserve	Whisp. Hills	Talichet	Lake Hills	Watermark	Vested	%Proj Ent	%Proj Ext	Project	Total	Formula	
	L						0									0	0		
EB	Т						0									0	0		
	R						0									0	0		
	L						4								3%	6	10 4	+ (6) = 10	
WB	Т						0									0	0		
	R						74							25%		89	163 7	4 + (89) = 163	
	L						0									0	0		
NB	Т						3							2%		6	9 3	+ (6) = 9	
	R						4							3%		8	12 4	+ (8) = 12	
	L						62								25%	72	134 6	2 + (72) = 134	
SB	Т						3								2%	2	5 3	+ (2) = 5	
	R						0									0	0		

Inters	section=	-	Reve	ls Rd & Ora	ange B	lossom R	d / South	Access											9
Appro	ach Mvmt	Raw	SF	Adjusted	GR	Redirect	Adj Bg'd	The Reserve	Whisp. Hills	Talichet	Lake Hills	Watermark	Vested	%Proj Ent	%Proj Ext	Project	Total	Formula	
	L						7									0	7 7		
EB	Т						0									0	0		
	R						0									0	0		
	L						0									0	0		
WB	Т						0									0	0		
	R						0							5%		13	13 (13)		
	L						0									0	0		
NB	Т						0									0	0		
	R						0									0	0		
	L						0								5%	8	8 (8)		
SB	Т						0									0	0		
	R						7									0	7 7		

Appendix M Background Conditions / Buildout Conditions with Mitigation

	1	*	Ť	1	1	ŧ
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	5	1	1	1	5	1
Traffic Volume (veh/h)	504	334	450	685	413	178
Future Volume (veh/h)	504	334	450	685	413	178
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00	v	1.00	1.00	-
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No		No			No
Adj Sat Flow, veh/h/ln	1752	1589	1767	1811	1737	1811
Adj Flow Rate, veh/h	520	203	464	0	426	184
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	10	21	9	6	11	0.97
Cap, veh/h	386	312	695	U	506	1139
Arrive On Green	0.23	0.23	0.39	0.00	0.17	0.63
	0.23 1668	0.23 1346				1811
Sat Flow, veh/h			1767	1535	1654	
Grp Volume(v), veh/h	520	203	464	0	426	184
Grp Sat Flow(s),veh/h/ln	1668	1346	1767	1535	1654	1811
Q Serve(g_s), s	22.7	13.4	21.2	0.0	14.2	4.1
Cycle Q Clear(g_c), s	22.7	13.4	21.2	0.0	14.2	4.1
Prop In Lane	1.00	1.00		1.00	1.00	
Lane Grp Cap(c), veh/h	386	312	695		506	1139
V/C Ratio(X)	1.35	0.65	0.67		0.84	0.16
Avail Cap(c_a), veh/h	386	312	695		539	1139
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	0.00	1.00	1.00
Uniform Delay (d), s/veh	37.7	34.1	24.4	0.0	16.8	7.5
Incr Delay (d2), s/veh	172.2	4.7	5.0	0.0	11.0	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	41.4	8.1	14.4	0.0	10.4	2.7
Unsig. Movement Delay, s/veh		0.1		0.0	10.1	
LnGrp Delay(d),s/veh	209.9	38.8	29.5	0.0	27.8	7.8
LnGrp LOS	203.5 F	00.0 D	23.5 C	0.0	27.0 C	7.0 A
Approach Vol, veh/h	723		464	А	<u> </u>	610
· · · · · · · · · · · · · · · · · · ·	161.9		404 29.5	A		21.8
Approach Delay, s/veh	161.9 F		29.5 C			21.8 C
Approach LOS	F		U			C
Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	23.0	45.0		30.0		68.0
Change Period (Y+Rc), s	6.5	6.4		7.3		6.4
Max Green Setting (Gmax), s	18.5	38.6		22.7		38.6
Max Q Clear Time (g_c+l1), s	16.2	23.2		24.7		6.1
Green Ext Time (p_c), s	0.4	2.5		0.0		1.0
<i>u</i> = <i>y</i> .		2.0		5.0		
Intersection Summary						
HCM 6th Ctrl Delay			80.1			
HCM 6th LOS			F			
Notoo						

Notes

Unsignalized Delay for [NBR] is excluded from calculations of the approach delay and intersection delay.

	1	*	Ť	1	1	ŧ
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	7	1	1	1	٦	1
Traffic Volume (veh/h)	685	483	161	549	451	188
Future Volume (veh/h)	685	483	161	549	451	188
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00	v	1.00	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No		No			No
Adj Sat Flow, veh/h/ln	1752	1589	1767	1811	1737	1811
Adj Flow Rate, veh/h	706	302	166	0	465	194
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	10	21	9	6	11	0.97
Cap, veh/h	380	307	685	U	740	1149
Arrive On Green	0.23	0.23	0.39	0.00	0.18	0.63
	0.23 1668	0.23 1346	0.39 1767			1811
Sat Flow, veh/h				1535	1654	
Grp Volume(v), veh/h	706	302	166	0	465	194
Grp Sat Flow(s),veh/h/ln	1668	1346	1767	1535	1654	1811
Q Serve(g_s), s	22.7	22.2	6.3	0.0	16.0	4.4
Cycle Q Clear(g_c), s	22.7	22.2	6.3	0.0	16.0	4.4
Prop In Lane	1.00	1.00		1.00	1.00	
Lane Grp Cap(c), veh/h	380	307	685		740	1149
V/C Ratio(X)	1.86	0.98	0.24		0.63	0.17
Avail Cap(c_a), veh/h	380	307	685		747	1149
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	0.00	1.00	1.00
Uniform Delay (d), s/veh	38.4	38.3	20.6	0.0	12.3	7.4
Incr Delay (d2), s/veh	395.5	46.9	0.8	0.0	1.7	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	79.4	16.3	4.8	0.0	9.5	2.9
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	433.9	85.1	21.5	0.0	13.9	7.8
LnGrp LOS	+00.0 F	55.1 F	21.5 C	0.0	но.5 В	A
Approach Vol, veh/h	1008		166	А	U	659
· · · · ·	329.4		21.5	A		12.1
Approach Delay, s/veh	329.4 F		21.5 C			12.1 B
Approach LOS	F		U			В
Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	24.6	45.0		30.0		69.6
Change Period (Y+Rc), s	6.5	6.4		7.3		6.4
Max Green Setting (Gmax), s	18.5	38.6		22.7		38.6
Max Q Clear Time (g_c+l1), s	18.0	8.3		24.7		6.4
Green Ext Time (p_c), s	0.1	0.9		0.0		1.1
	0.1	0.0		0.0		1.1
Intersection Summary						
HCM 6th Ctrl Delay			187.5			
HCM 6th LOS			F			
Notoo						

Notes

Unsignalized Delay for [NBR] is excluded from calculations of the approach delay and intersection delay.

Intersection

Int Delay, s/veh

		FDT			MOT			NDT		0.01	ODT	000
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	120	4	12	13	1	65	14	636	29	37	651	41
Future Vol, veh/h	120	4	12	13	1	65	14	636	29	37	651	41
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None									
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	97	97	97	97	97	97	97	97	97	97	97	97
Heavy Vehicles, %	12	33	2	2	2	2	38	10	2	42	2	11
Mvmt Flow	124	4	12	13	1	67	14	656	30	38	671	42

Major/Minor	Minor2			Vinor1			Major1		Ν	/lajor2			
Conflicting Flow All	1501	1482	692	1475	1488	671	713	0	0	686	0	0	
Stage 1	768	768	-	699	699	-	-	-	-	-	-	-	
Stage 2	733	714	-	776	789	-	-	-	-	-	-	-	
Critical Hdwy	7.22	6.83	6.22	7.12	6.52	6.22	4.48	-	-	4.52	-	-	
Critical Hdwy Stg 1	6.22	5.83	-	6.12	5.52	-	-	-	-	-	-	-	
Critical Hdwy Stg 2	6.22	5.83	-	6.12	5.52	-	-	-	-	-	-	-	
Follow-up Hdwy	3.608	4.297	3.318	3.518	4.018	3.318	2.542	-	-	2.578	-	-	
Pot Cap-1 Maneuver	~ 95	107	444	104	124	456	742	-	-	747	-	-	
Stage 1	380	369	-	430	442	-	-	-	-	-	-	-	
Stage 2	397	392	-	390	402	-	-	-	-	-	-	-	
Platoon blocked, %								-	-		-	-	
Mov Cap-1 Maneuver	~ 74	95	444	89	110	456	742	-	-	747	-	-	
Mov Cap-2 Maneuver	~ 74	95	-	89	110	-	-	-	-	-	-	-	
Stage 1	368	338	-	417	428	-	-	-	-	-	-	-	
Stage 2	327	380	-	343	368	-	-	-	-	-	-	-	
Approach	EB			WB			NB			SB			
HCM Control Delay, s	\$ 472.6			24.5			0.2			0.5			
HCM LOS	F			С									
Minor Lane/Major Mvr	nt	NBL	NBT	NBR	EBLn1V	VBLn1	SBL	SBT	SBR				
Capacity (veh/h)		742	-	-	80	265	747	-	-				
HCM Lane V/C Ratio		0.019	-	-	1.753	0.307	0.051	-	-				
HCM Control Delay (s	;)	9.9	0	-\$	472.6	24.5	10.1	0	-				
HCM Lane LOS		А	А	-	F	С	В	А	-				
HCM 95th %tile Q(veh	ו)	0.1	-	-	11.9	1.3	0.2	-	-				
Notes													
~: Volume exceeds ca	apacity	\$: De	elay exc	eeds 3	00s	+: Com	putation	Not De	fined	*: All r	najor volu	ume in platoon	

Intersection

Int Delay, s/veh

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
	EDL		EDR	VVDL		VVDN	INDL		NDN	SDL		SDR	
Lane Configurations		4			4			4			÷.		
Traffic Vol, veh/h	91	14	16	20	4	49	19	617	25	66	741	133	
Future Vol, veh/h	91	14	16	20	4	49	19	617	25	66	741	133	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free	
RT Channelized	-	-	None										
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-	
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	97	97	97	97	97	97	97	97	97	97	97	97	
Heavy Vehicles, %	12	33	2	2	2	2	38	10	2	42	2	11	
Mvmt Flow	94	14	16	21	4	51	20	636	26	68	764	137	

Major/Minor	Minor2		I	Minor1		ļ	Major1		Ν	Major2			
Conflicting Flow All	1686	1671	833	1673	1726	649	901	0	0	662	0	0	
Stage 1	969	969	-	689	689	-	-	-	-	-	-	-	
Stage 2	717	702	-	984	1037	-	-	-	-	-	-	-	
Critical Hdwy	7.22	6.83	6.22	7.12	6.52	6.22	4.48	-	-	4.52	-	-	
Critical Hdwy Stg 1	6.22	5.83	-	6.12	5.52	-	-	-	-	-	-	-	
Critical Hdwy Stg 2	6.22	5.83	-	6.12	5.52	-	-	-	-	-	-	-	
Follow-up Hdwy	3.608	4.297	3.318	3.518	4.018	3.318		-	-	2.578	-	-	
Pot Cap-1 Maneuver	~ 70	81	369	76	89	470	624	-	-	764	-	-	
Stage 1	292	294	-	436	446	-	-	-	-	-	-	-	
Stage 2	405	397	-	299	308	-	-	-	-	-	-	-	
Platoon blocked, %								-	-		-	-	
Mov Cap-1 Maneuver		63	369	50	69	470	624	-	-	764	-	-	
Mov Cap-2 Maneuver	~ 49	63	-	50	69	-	-	-	-	-	-	-	
Stage 1	277	240	-	414	423	-	-	-	-	-	-	-	
Stage 2	340	377	-	219	251	-	-	-	-	-	-	-	
Approach	EB			WB			NB			SB			
HCM Control Delay, st	\$ 701.2			65.2			0.3			0.7			
HCM LOS	F			F									
Minor Lane/Major Mvr	nt	NBL	NBT	NBR	EBLn1V	VBLn1	SBL	SBT	SBR				
Capacity (veh/h)		624	-	-	57	130	764	-	-				
HCM Lane V/C Ratio		0.031	-	-	2.188	0.579	0.089	-	-				
HCM Control Delay (s)	11	0	-\$	701.2	65.2	10.2	0	-				
HCM Lane LOS		В	А	-	F	F	В	А	-				
HCM 95th %tile Q(veh	ı)	0.1	-	-	12.3	2.9	0.3	-	-				
Notes													
~: Volume exceeds ca	apacity	\$: De	elay exc	eeds 3)0s	+: Com	putation	Not De	fined	*: All r	najor volu	ime in platoon	

Intersection

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	1	44	17	10	23	1	10	0	20	0	0	0
Future Vol, veh/h	1	44	17	10	23	1	10	0	20	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None									
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	80	80	80	80	80	80	80	80	80	80	80	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	1	55	21	13	29	1	13	0	25	0	0	0

Major/Minor	Major1			Major2			Minor1			Minor2			
Conflicting Flow All	30	0	0	76	0	0	124	124	66	136	134	30	
Stage 1	-	-	-	-	-	-	68	68	-	56	56	-	
Stage 2	-	-	-	-	-	-	56	56	-	80	78	-	
Critical Hdwy	4.12	-	-	4.12	-	-	••••	6.52	6.22	7.12	6.52	6.22	
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-	
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-	
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518		3.318	
Pot Cap-1 Maneuver	1583	-	-	1523	-	-	850	766	998	835	757	1044	
Stage 1	-	-	-	-	-	-	942	838	-	956	848	-	
Stage 2	-	-	-	-	-	-	956	848	-	929	830	-	
Platoon blocked, %		-	-		-	-							
Mov Cap-1 Maneuver	1583	-	-	1523	-	-	843	758	998	808	749	1044	
Mov Cap-2 Maneuver	-	-	-	-	-	-	843	758	-	808	749	-	
Stage 1	-	-	-	-	-	-	011	837	-	000	840	-	
Stage 2	-	-	-	-	-	-	947	840	-	905	829	-	
Approach	EB			WB			NB			SB			
HCM Control Delay, s	0.1			2.2			9			0			
HCM LOS							А			А			
Minor Lane/Major Myr	nt N	IRI n1	FRI	FRT	EBR	W/RI	W/RT		QRI n1				

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR SI	BLn1	
Capacity (veh/h)	940	1583	-	-	1523	-	-	-	
HCM Lane V/C Ratio	0.04	0.001	-	-	0.008	-	-	-	
HCM Control Delay (s)	9	7.3	0	-	7.4	0	-	0	
HCM Lane LOS	А	А	А	-	А	А	-	А	
HCM 95th %tile Q(veh)	0.1	0	-	-	0	-	-	-	

Intersection

Int Delay, s/veh

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		\$			\$			\$			\$	
Traffic Vol, veh/h	0	35	11	36	30	6	9	1	33	1	0	0
Future Vol, veh/h	0	35	11	36	30	6	9	1	33	1	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None									
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	80	80	80	80	80	80	80	80	80	80	80	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	44	14	45	38	8	11	1	41	1	0	0

Major1		N	lajor2			Vinor1		l	Vinor2			
46	0	0	58	0	0	183	187	51	204	190	42	
-	-	-	-	-	-	51	51	-	132	132	-	
-	-	-	-	-	-	132	136	-	72	58	-	
4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22	
-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-	
-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-	
2.218	-	- 1	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318	
1562	-	-	1546	-	-	778	708	1017	754	705	1029	
-	-	-	-	-	-	962	852	-	871	787	-	
-	-	-	-	-	-	871	784	-	938	847	-	
	-	-		-	-							
1562	-	-	1546	-	-	760	687	1017	706	684	1029	
-	-	-	-	-	-	760	687	-	706	684	-	
-	-	-	-	-	-	962	852	-	871	763	-	
-	-	-	-	-	-	845	760	-	899	847	-	
EB			WB			NB			SB			
0			3.7			9.1			10.1			
						А			В			
	46 - - 4.12 - - 2.218 1562 - - - 1562 - - - - - - - - - - - - - - - - - - -	46 0 4.12 - 2.218 - 1562 - 1562 - 1562 - EB	46 0 0 - - - 4.12 - - - - - 2.218 - - 1562 - - - - - 1562 - - - - - 1562 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - <td>46 0 0 58 - - - - 4.12 - - 4.12 - - - - 4.12 - - 4.12 - - - - 2.218 - - 2.218 1562 - 1546 - - - 1562 - 1546 - - - 1562 - 1546 - - - 1562 - 1546 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -</td> <td>46 0 0 58 0 - - - - - 4.12 - - 4.12 - - - - - - 4.12 - - 4.12 - - - - - - 2.218 - 2.218 - - 1562 - - 1546 - - - - - - 1562 - 1546 - - - - - - - - 1562 - 1546 - - - - - - - - - - 1562 - - 1546 - - - - - - - - - - - - - - - - - - - - - - - - - <td< td=""><td>46 0 0 58 0 0 - - - - - - 4.12 - - 4.12 - - 4.12 - - 4.12 - - 2.218 - - 2.218 - - 1562 - 1546 - - - - - - - - - 1562 - 1546 - - - - - - - - - - 1562 - 1546 - - - - - - - - - - - - 1562 - 1546 -</td><td>46 0 0 58 0 0 183 - 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- 871 784 938 847 - - - - 760 687 1017 706</td>	46 0 0 58 0 0 183 187 51 204 190 42 - - - - 51 51 - 132 132 - - - - - 132 136 - 72 58 - 4.12 - - 4.12 - - 7.12 6.52 6.22 7.12 6.52 6.22 - - - - 6.12 5.52 - 6.12 5.52 - - - - - 6.12 5.52 - 6.12 5.52 - 2.218 - - 5.51 4.018 3.318 3.518 4.018 3.318 1562 - - 1546 - - 778 708 1017 754 705 1029 - - - - 871 784 938 847 - - - - 760 687 1017 706

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1	
Capacity (veh/h)	940	1562	-	-	1546	-	-	706	
HCM Lane V/C Ratio	0.057	-	-	-	0.029	-	-	0.002	
HCM Control Delay (s)	9.1	0	-	-	7.4	0	-	10.1	
HCM Lane LOS	А	Α	-	-	А	А	-	В	
HCM 95th %tile Q(veh)	0.2	0	-	-	0.1	-	-	0	

23017 Mission Rise

Background PM Peak Hour

Intersection

M		CDT						NDT			ODT		
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		4			4			T.			4		
Traffic Vol, veh/h	5	0	36	124	0	53	16	482	66	21	766	2	
Future Vol, veh/h	5	0	36	124	0	53	16	482	66	21	766	2	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free	
RT Channelized	-	-	None										
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-	
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	90	90	90	90	90	90	90	90	90	90	90	90	
Heavy Vehicles, %	2	2	2	2	2	2	2	8	12	2	10	2	
Mvmt Flow	6	0	40	138	0	59	18	536	73	23	851	2	

Major/Minor	Minor2		1	Minor1			Major1		Ν	/lajor2			
Conflicting Flow All	1536	1543	852	1527	1508	573	853	0	0	609	0	0	
Stage 1	898	898	-	609	609	-	-	-	-	-	-	-	
Stage 2	638	645	-	918	899	-	-	-	-	-	-	-	
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-	
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-	
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-	
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-	
Pot Cap-1 Maneuver	95	115	359	~ 96	121	519	786	-	-	970	-	-	
Stage 1	334	358	-	482	485	-	-	-	-	-	-	-	
Stage 2	465	467	-	326	358	-	-	-	-	-	-	-	
Platoon blocked, %								-	-		-	-	
Mov Cap-1 Maneuver		106	359	~ 80	112	519	786	-	-	970	-	-	
Mov Cap-2 Maneuver	79	106	-	~ 80	112	-	-	-	-	-	-	-	
Stage 1	322	342	-	465	468	-	-	-	-	-	-	-	
Stage 2	398	451	-	277	342	-	-	-	-	-	-	-	
Approach	EB			WB			NB			SB			
HCM Control Delay, s	22.5		\$	478.9			0.3			0.2			
HCM LOS	С			F									
Minor Lane/Major Mvn	nt	NBL	NBT	NBR	EBLn1V	VBLn1	SBL	SBT	SBR				
Capacity (veh/h)		786	-	-	251	107	970	-	-				
HCM Lane V/C Ratio		0.023	-	-	0.181	1.838	0.024	-	-				
HCM Control Delay (s))	9.7	-	-		478.9	8.8	0	-				
HCM Lane LOS		A	-	-	С	F	A	A	-				
HCM 95th %tile Q(veh)	0.1	-	-	0.6	15.9	0.1	-	-				
Notes													
~: Volume exceeds ca	pacity	\$: De	elay exc	eeds 3	00s	+: Com	putation	Not De	fined	*: All n	najor volu	ume in platoon	

Intersection

Int Delay, s/veh

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		\$			\$			ħ			र्भ	
Traffic Vol, veh/h	5	1	26	88	0	36	36	716	146	64	585	2
Future Vol, veh/h	5	1	26	88	0	36	36	716	146	64	585	2
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None									
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	90	90	90	90	90	90	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2	2	8	12	2	10	2
Mvmt Flow	6	1	29	98	0	40	40	796	162	71	650	2

Major/Minor	Minor2		ſ	Minor1			Major1		Ν	/lajor2			
Conflicting Flow All	1770	1831	651	1765	1751	877	652	0	0	958	0	0	
Stage 1	793	793	-	957	957	-	-	-	-	-	-	-	
Stage 2	977	1038	-	808	794	-	-	-	-	-	-	-	
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-	
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-	
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-	
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-	
Pot Cap-1 Maneuver	65	76	469	~ 65	86	348	935	-	-	718	-	-	
Stage 1	382	400	-	310	336	-	-	-	-	-	-	-	
Stage 2	302	308	-	375	400	-	-	-	-	-	-	-	
Platoon blocked, %								-	-		-	-	
Mov Cap-1 Maneuver		58	469	~ 49	66	348	935	-	-	718	-	-	
Mov Cap-2 Maneuver		58	-	~ 49	66	-	-	-	-	-	-	-	
Stage 1	346	338	-	281	304	-	-	-	-	-	-	-	
Stage 2	242	279	-	296	338	-	-	-	-	-	-	-	
Approach	EB			WB			NB			SB			
HCM Control Delay, s	30		\$	653.3			0.4			1			
HCM LOS	D			F									
Minor Lane/Major Mvr	nt	NBL	NBT	NBR	EBLn1V	VBLn1	SBL	SBT	SBR				
Capacity (veh/h)		935	-	-	179	65	718	-	-				
HCM Lane V/C Ratio		0.043	-	-	0.199	2.12	0.099	-	-				
HCM Control Delay (s)	9	-	-		653.3	10.6	0	-				
HCM Lane LOS	,	А	-	-	D	F	В	А	-				
HCM 95th %tile Q(veh	ı)	0.1	-	-	0.7	13.1	0.3	-	-				
Notes													
~: Volume exceeds ca	pacity	\$: De	elay exc	eeds 3	00s ·	+: Com	putation	Not De	fined	*: All r	najor volu	ume in platoon	

Intersection							
Int Delay, s/veh	26.6						
Movement	WBL	WBR	NBT	NBR	SBL	SBT	
Lane Configurations	٦	1	Þ	7		र्स	
Traffic Vol, veh/h	78	80	568	133	159	843	
Future Vol, veh/h	78	80	568	133	159	843	
Conflicting Peds, #/hr	0	0	0	0	0	0	
Sign Control	Stop	Stop	Free	Free	Free	Free	
RT Channelized	-	None	-	None	-	None	
Storage Length	0	0	-	590	-	-	

RT Channelized	-	ivone	-	Ivone	-	None
Storage Length	0	0	-	590	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	96	96	96	96	96	96
Heavy Vehicles, %	38	15	8	22	9	5
Mvmt Flow	81	83	592	139	166	878

Major/Minor	Minor1	Ν	/lajor1	ľ	/lajor2			
Conflicting Flow All	1802	592	0	0	731	0		
Stage 1	592	-	-	-	-	-		
Stage 2	1210	-	-	-	-	-		
Critical Hdwy	6.78	6.35	-	-	4.19	-		
Critical Hdwy Stg 1	5.78	-	-	-	-	-		
Critical Hdwy Stg 2	5.78	-	-	-	-	-		
Follow-up Hdwy	3.842	3.435	-	-	2.281	-		
Pot Cap-1 Maneuver	~ 71	483	-	-	842	-		
Stage 1	489	-	-	-	-	-		
Stage 2	239	-	-	-	-	-		
Platoon blocked, %			-	-		-		
Mov Cap-1 Maneuver		483	-	-	842	-		
Mov Cap-2 Maneuver	~ 44	-	-	-	-	-		
Stage 1	489	-	-	-	-	-		
Stage 2	147	-	-	-	-	-		
Approach	WB		NB		SB			
HCM Control Delay, s	\$ 303.4		0		1.6			
HCM LOS	F							
Minor Lane/Major Mvi	mt	NBT	NBRW	BLn1V	VBLn2	SBL	SBT	
Capacity (veh/h)		-	-	44	483	842	-	
HCM Lane V/C Ratio		-	- '	1.847	0.173	0.197	-	
HCM Control Delay (s	6)	-	-\$ 6	600.2	14	10.3	0	
HCM Lane LOS		-	-	F	В	В	А	
HCM 95th %tile Q(vel	h)	-	-	8.3	0.6	0.7	-	
Notes								
~: Volume exceeds ca	apacity	\$: De	lay exce	eds 30)0s	+: Comp	outation Not Defined	*: All major volume in platoon

Intersection							
Int Delay, s/veh	40.5						
Movement	WBL	WBR	NBT	NBR	SBL	SBT	•
Lane Configurations	٦	1	Þ	1		र्स	•
Traffic Vol, veh/h	100	151	857	110	113	698	5
Future Vol, veh/h	100	151	857	110	113	698	}
Conflicting Peds, #/hr	0	0	0	0	0	0)
Sign Control	Stop	Stop	Free	Free	Free	Free	;
RT Channelized	-	None	-	None	-	None)
Storage Length	0	0	-	590	-	-	
Veh in Median Storage	e, # 0	-	0	-	-	0)
Grade, %	0	-	0	-	-	0)
Peak Hour Factor	96	96	96	96	96	96	j
Heavy Vehicles, %	38	15	8	22	9	5	j
Mvmt Flow	104	157	893	115	118	727	'

Major/Minor	Minor1	Ν	Major1	Ν	/lajor2							
Conflicting Flow All	1856	893	0		1008	0						
Stage 1	893	-	-	-	-	-						
Stage 2	963	-	-	-	-	-						
Critical Hdwy	6.78	6.35	-	-	4.19	-						
Critical Hdwy Stg 1	5.78	-	-	-	-	-						
Critical Hdwy Stg 2	5.78	-	-	-	-	-						
Follow-up Hdwy	3.842	3.435	-	-	2.281	-						
Pot Cap-1 Maneuver	~ 65	322	-	-	661	-						
Stage 1	347	-	-	-	-	-						
Stage 2	320	-	-	-	-	-						
Platoon blocked, %			-	-		-						
Mov Cap-1 Maneuver		322	-	-	661	-						
Mov Cap-2 Maneuver		-	-	-	-	-						
Stage 1	347	-	-	-	-	-						
Stage 2	224	-	-	-	-	-						
Approach	WB		NB		SB							
HCM Control Delay, s	\$ 322.1		0		1.6							
HCM LOS	F											
Minor Lane/Major Mvr	nt	NBT	NBRWB	Ln1W	/BLn2	SBL	SBT					
Capacity (veh/h)		-	-	46	322	661	-					
HCM Lane V/C Ratio		-	- 2.			0.178	-					
HCM Control Delay (s)	-	-\$ 76		26.4	11.6	0					
HCM Lane LOS	/	-	-	F.	20.1	B	Ă					
HCM 95th %tile Q(veh	1)	-	- 1	0.9	2.5	0.6	-					
	.,					0.0						
Notes												

~: Volume exceeds capacity

\$: Delay exceeds 300s +: Computation Not Defined

*: All major volume in platoon

Item 3.

	1	*	t	1	1	ŧ
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	5	1	1	1	500	1
Traffic Volume (veh/h)	522	334	454	740	413	180
Future Volume (veh/h)	522	334	454	740	413	180
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00	U	1.00	1.00	0
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No	1.00	No	1.00	1.00	No
Adj Sat Flow, veh/h/ln	1752	1589	1767	1811	1737	1811
	538	205	468	0	426	186
Adj Flow Rate, veh/h						
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	10	21	9	6	11	6
Cap, veh/h	548	442	485	0.00	430	991
Arrive On Green	0.33	0.33	0.27	0.00	0.21	0.55
Sat Flow, veh/h	1668	1346	1767	1535	1654	1811
Grp Volume(v), veh/h	538	205	468	0	426	186
Grp Sat Flow(s),veh/h/ln	1668	1346	1767	1535	1654	1811
Q Serve(g_s), s	35.2	13.3	28.8	0.0	23.1	5.7
Cycle Q Clear(g_c), s	35.2	13.3	28.8	0.0	23.1	5.7
Prop In Lane	1.00	1.00		1.00	1.00	
Lane Grp Cap(c), veh/h	548	442	485		430	991
V/C Ratio(X)	0.98	0.46	0.96		0.99	0.19
Avail Cap(c_a), veh/h	548	442	485		430	991
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	0.00	1.00	1.00
Uniform Delay (d), s/veh	36.6	29.3	39.4	0.0	31.2	12.6
Incr Delay (d2), s/veh	33.9	0.8	33.0	0.0	40.8	0.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	25.7	7.5	23.3	0.0	22.6	4.2
Unsig. Movement Delay, s/veh		1.5	20.0	0.0	22.0	4.2
		30.0	72.4	0.0	72.0	13.0
LnGrp Delay(d),s/veh	70.5			0.0		
LnGrp LOS	E	С	E		E	B
Approach Vol, veh/h	743		468	А		612
Approach Delay, s/veh	59.4		72.4			54.1
Approach LOS	E		E			D
Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	30.0	36.6		43.4		66.6
Change Period (Y+Rc), s	6.5	6.4		7.3		6.4
Max Green Setting (Gmax), s	23.5	30.2		36.1		60.2
Max Q Clear Time (g_c+I1), s	25.1	30.8		37.2		7.7
Green Ext Time (p_c), s	0.0	0.0		0.0		1.1
Intersection Summary						
HCM 6th Ctrl Delay			60.9			
,						
HCM 6th LOS			Е			
Notes						

Notes

Unsignalized Delay for [NBR] is excluded from calculations of the approach delay and intersection delay.

Intersection							
Intersection Delay, s/veh	17.7						
Intersection LOS	С						
Approach		WB		NB		SB	
Entry Lanes		2		2		2	
Conflicting Circle Lanes		1		1		1	
Adj Approach Flow, veh/h		882		1231		612	
Demand Flow Rate, veh/h		1008		1319		670	
Vehicles Circulating, veh/h		510		473		592	
Vehicles Exiting, veh/h		1282		789		926	
Ped Vol Crossing Leg, #/h		0		0		0	
Ped Cap Adj		1.000		1.000		1.000	
Approach Delay, s/veh		14.2		23.0		11.9	
Approach LOS		В		С		В	
Lane	Left	Right	Left	Right	Left	Right	
Designated Moves	L	TR	LT	R	L	TR	
Assumed Moves	L	TR	LT	R	L	TR	
RT Channelized							
Lane Util	0.587	0.413	0.387	0.613	0.706	0.294	
Follow-Up Headway, s	2.535	2.535	2.535	2.535	2.535	2.535	
Critical Headway, s	4.544	4.544	4.544	4.544	4.544	4.544	
Entry Flow, veh/h	592	416	510	809	473	197	
Cap Entry Lane, veh/h	893	893	923	923	829	829	
Entry HV Adj Factor	0.909	0.827	0.917	0.943	0.901	0.943	
Flow Entry, veh/h	538	344	468	763	426	186	
Cap Entry, veh/h	811	738	847	871	746	782	
V/C Ratio	0.663	0.466	0.552	0.876	0.571	0.238	
Control Delay, s/veh	16.0	11.4	12.1	29.7	13.9	7.2	
LOS	С	В	В	D	В	А	
95th %tile Queue, veh	5	2	3	11	4	1	

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Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	۲	1	1	1	1	1
Traffic Volume (veh/h)	751	483	164	587	451	194
Future Volume (veh/h)	751	483	164	587	451	194
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No		No			No
Adj Sat Flow, veh/h/ln	1752	1589	1767	1811	1737	1811
Adj Flow Rate, veh/h	774	359	169	0	465	200
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	10	21	9	6	11	6
Cap, veh/h	777	627	259	0	467	743
Arrive On Green	0.47	0.47	0.15	0.00	0.20	0.41
	1668	1346	1767	1535	1654	1811
Sat Flow, veh/h						
Grp Volume(v), veh/h	774	359	169	0	465	200
Grp Sat Flow(s),veh/h/ln	1668	1346	1767	1535	1654	1811
Q Serve(g_s), s	50.9	21.4	9.9	0.0	22.5	8.1
Cycle Q Clear(g_c), s	50.9	21.4	9.9	0.0	22.5	8.1
Prop In Lane	1.00	1.00		1.00	1.00	
Lane Grp Cap(c), veh/h	777	627	259		467	743
V/C Ratio(X)	1.00	0.57	0.65		1.00	0.27
Avail Cap(c_a), veh/h	777	627	259		467	743
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	0.00	1.00	1.00
Uniform Delay (d), s/veh	29.3	21.4	44.3	0.0	33.2	21.5
Incr Delay (d2), s/veh	31.4	1.3	12.2	0.0	40.4	0.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/In	33.4	10.6	8.9	0.0	12.2	6.4
Unsig. Movement Delay, s/veh			0.0	0.0		0.1
LnGrp Delay(d),s/veh	60.7	22.7	56.5	0.0	73.6	22.4
LnGrp LOS	00.7 Е	C	50.5 E	0.0	73.0 E	22.4 C
Approach Vol, veh/h	1133	0	169	А	<u> </u>	665
••				A		
Approach Delay, s/veh	48.7		56.5			58.2
Approach LOS	D		E			E
Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	29.0	22.5		58.5		51.5
Change Period (Y+Rc), s	6.5	6.4		7.3		6.4
Max Green Setting (Gmax), s	22.5	16.1		51.2		45.1
Max Q Clear Time (g_c+l1), s	24.5	11.9		52.9		10.1
Green Ext Time (p_c), s	0.0	0.3		0.0		1.1
. ,	0.0	0.0		0.0		1.1
Intersection Summary						
HCM 6th Ctrl Delay			52.6			
HCM 6th LOS			D			
Notos						

Notes

Unsignalized Delay for [NBR] is excluded from calculations of the approach delay and intersection delay.

Intersection							
Intersection Delay, s/veh	16.1						
Intersection LOS	С						
Approach		WB		NB		SB	
Entry Lanes		2		2		2	
Conflicting Circle Lanes		1		1		1	
Adj Approach Flow, veh/h		1272		774		665	
Demand Flow Rate, veh/h		1454		825		728	
Vehicles Circulating, veh/h		184		516		851	
Vehicles Exiting, veh/h		1157		1063		787	
Ped Vol Crossing Leg, #/h		0		0		0	
Ped Cap Adj		1.000		1.000		1.000	
Approach Delay, s/veh		12.6		15.7		23.4	
Approach LOS		В		С		С	
Lane	Left	Right	Left	Right	Left	Right	
Designated Moves	L	TR	LT	R	L	TR	
Assumed Moves	L	TR	LT	R	L	TR	
RT Channelized							
Lane Util	0.585	0.415	0.223	0.777	0.709	0.291	
Follow-Up Headway, s	2.535	2.535	2.535	2.535	2.535	2.535	
Critical Headway, s	4.544	4.544	4.544	4.544	4.544	4.544	
Entry Flow, veh/h	851	603	184	641	516	212	
Cap Entry Lane, veh/h	1201	1201	888	888	655	655	
Entry HV Adj Factor	0.910	0.826	0.917	0.944	0.901	0.943	
Flow Entry, veh/h	774	498	169	605	465	200	
Cap Entry, veh/h	1092	992	815	838	590	618	
V/C Ratio	0.708	0.502	0.207	0.722	0.788	0.324	
Control Delay, s/veh	14.4	9.7	6.6	18.2	29.0	10.2	
LOS	В	А	А	С	D	В	
95th %tile Queue, veh	6	3	1	6	8	1	

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		4			4			4			4		
Traffic Volume (veh/h)	144	4	12	13	1	65	14	672	29	37	663	49	
Future Volume (veh/h)	144	4	12	13	1	65	14	672	29	37	663	49	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No			No			No			No		
Adj Sat Flow, veh/h/ln	1722	1411	1870	1870	1870	1870	1337	1752	1870	1278	1870	1737	
Adj Flow Rate, veh/h	148	4	12	13	1	67	14	693	30	38	684	51	
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	
Percent Heavy Veh, %	12	33	2	2	2	2	38	10	2	42	2	11	
Cap, veh/h	310	10	15	105	29	252	78	1054	45	101	1041	75	
Arrive On Green	0.18	0.18	0.18	0.18	0.18	0.18	0.64	0.64	0.64	0.64	0.64	0.64	
Sat Flow, veh/h	965	56	81	128	159	1375	11	1642	70	43	1623	118	
Grp Volume(v), veh/h	164	0	0	81	0	0	737	0	0	773	0	0	
Grp Sat Flow(s),veh/h/lr		0	0	1663	0	0	1722	0	0	1783	0	0	
Q Serve(g_s), s	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Cycle Q Clear(g_c), s	7.2	0.0	0.0	2.2	0.0	0.0	13.5	0.0	0.0	13.2	0.0	0.0	
Prop In Lane	0.90	0.0	0.07	0.16	0.0	0.83	0.02	0.0	0.04	0.05	0.0	0.07	
Lane Grp Cap(c), veh/h		0	0.07	386	0	0.00	1177	0	0.04	1218	0	0.07	
V/C Ratio(X)	0.49	0.00	0.00	0.21	0.00	0.00	0.63	0.00	0.00	0.63	0.00	0.00	
Avail Cap(c_a), veh/h	506	0.00	0.00	645	0.00	0.00	1177	0.00	0.00	1218	0.00	0.00	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	
Uniform Delay (d), s/vel		0.00	0.0	18.1	0.0	0.00	5.7	0.00	0.0	5.7	0.00	0.00	
	1.1	0.0	0.0	0.3	0.0	0.0	2.5	0.0	0.0	2.5	0.0	0.0	
Incr Delay (d2), s/veh							2.5 0.0	0.0				0.0	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0		
%ile BackOfQ(95%),veh		0.0	0.0	1.4	0.0	0.0	6.1	0.0	0.0	6.4	0.0	0.0	
Unsig. Movement Delay			0.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
LnGrp Delay(d),s/veh	21.0	0.0	0.0	18.3	0.0	0.0	8.2	0.0	0.0	8.2	0.0	0.0	
LnGrp LOS	С	A	A	В	<u>A</u>	A	A	A	A	A	A	A	
Approach Vol, veh/h		164			81			737			773		
Approach Delay, s/veh		21.0			18.3			8.2			8.2		
Approach LOS		С			В			А			Α		
Timer - Assigned Phs		2		4		6		8					
Phs Duration (G+Y+Rc)). S	37.5		13.9		37.5		13.9					
Change Period (Y+Rc),		4.5		4.5		4.5		4.5					
Max Green Setting (Gm		33.0		18.0		33.0		18.0					
Max Q Clear Time (g_c		15.5		9.2		15.2		4.2					
Green Ext Time (p_c), s		5.0		0.5		5.4		0.3					
	,	5.0		0.0		3.4		0.0					
Intersection Summary													
HCM 6th Ctrl Delay			9.9										
HCM 6th LOS			Α										

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N		EDT	-					NDT		0.01	0.0.7	000	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	400	4	10	00	4	40	40	4	05	00	4	404	
Traffic Volume (veh/h)	108	14	16	20	4	49	19	642	25	66	784	161	
Future Volume (veh/h)	108	14	16	20	4	49	19	642	25	66	784	161	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approac		No			No			No			No		
Adj Sat Flow, veh/h/ln	1722	1411	1870	1870	1870	1870	1337	1752	1870	1278	1870	1737	
Adj Flow Rate, veh/h	111	14	16	21	4	51	20	662	26	68	808	166	
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	
Percent Heavy Veh, %	12	33	2	2	2	2	38	10	2	42	2	11	
Cap, veh/h	338	28	21	191	43	187	124	917	35	154	784	155	
Arrive On Green	0.17	0.17	0.17	0.17	0.17	0.17	0.56	0.56	0.56	0.56	0.56	0.56	
Sat Flow, veh/h	839	169	129	296	258	1130	18	1650	64	64	1410	279	
Grp Volume(v), veh/h	141	0	0	76	0	0	708	0	0	1042	0	0	
Grp Sat Flow(s),veh/h/li	n1136	0	0	1684	0	0	1731	0	0	1753	0	0	
Q Serve(g_s), s	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1	0.0	0.0	
Cycle Q Clear(g_c), s	3.7	0.0	0.0	1.3	0.0	0.0	9.9	0.0	0.0	18.0	0.0	0.0	
Prop In Lane	0.79		0.11	0.28		0.67	0.03		0.04	0.07		0.16	
Lane Grp Cap(c), veh/h	387	0	0	421	0	0	1077	0	0	1094	0	0	
V/C Ratio(X)	0.36	0.00	0.00	0.18	0.00	0.00	0.66	0.00	0.00	0.95	0.00	0.00	
Avail Cap(c_a), veh/h	803	0	0	1020	0	0	1077	0	0	1094	0	0	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	
Uniform Delay (d), s/vel		0.0	0.0	11.8	0.0	0.0	5.4	0.0	0.0	7.6	0.0	0.0	
Incr Delay (d2), s/veh	0.6	0.0	0.0	0.2	0.0	0.0	1.5	0.0	0.0	17.1	0.0	0.0	
Initial Q Delay(d3),s/vel		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(95%),veh		0.0	0.0	0.7	0.0	0.0	2.7	0.0	0.0	11.8	0.0	0.0	
Unsig. Movement Delay				-						-			
LnGrp Delay(d),s/veh	13.3	0.0	0.0	12.0	0.0	0.0	6.8	0.0	0.0	24.7	0.0	0.0	
LnGrp LOS	B	A	A	B	A	A	A	A	A	C	A	A	
Approach Vol, veh/h	_	141			76			708		Ţ	1042		
Approach Delay, s/veh		13.3			12.0			6.8			24.7		
Approach LOS		В			12.0 B			0.0 A			<u>с</u>		
••					U						U		
Timer - Assigned Phs		2		4		6		8					
Phs Duration (G+Y+Rc)		22.5		9.9		22.5		9.9					
Change Period (Y+Rc),		4.5		4.5		4.5		4.5					
Max Green Setting (Gm		18.0		18.0		18.0		18.0					
Max Q Clear Time (g_c		11.9		5.7		20.0		3.3					
Green Ext Time (p_c), s	5	2.5		0.6		0.0		0.3					
Intersection Summary													
HCM 6th Ctrl Delay			16.9										
HCM 6th LOS			В										
			_										

HCM 6th Signalized Intersection Summary 4: SR 19 & Revels Rd/Revels Rd

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		÷.	1		4		٦	f,			र्स	7
Traffic Volume (veh/h)	41	0	120	124	0	53	44	490	66	21	790	14
Future Volume (veh/h)	41	0	120	124	0	53	44	490	66	21	790	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1781	1722	1870	1752	1870
Adj Flow Rate, veh/h	46	0	133	138	0	59	49	544	73	23	878	16
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Percent Heavy Veh, %	2	2	2	2	2	2	2	8	12	2	10	2
Cap, veh/h	377	0	210	0	0	210	342	980	131	104	1093	1010
Arrive On Green	0.13	0.00	0.13	0.00	0.00	0.13	0.64	0.64	0.64	0.64	0.64	0.64
Sat Flow, veh/h	1455	0	1585	0	0	1585	622	1538	206	16	1716	1585
Grp Volume(v), veh/h	46	0	133	0	0	59	49	0	617	901	0	16
Grp Sat Flow(s),veh/h/ln	1455	0	1585	0	0	1585	622	0	1744	1731	0	1585
Q Serve(g_s), s	0.0	0.0	3.1	0.0	0.0	1.3	2.5	0.0	7.8	0.0	0.0	0.1
Cycle Q Clear(g_c), s	0.9	0.0	3.1	0.0	0.0	1.3	17.5	0.0	7.8	15.0	0.0	0.1
Prop In Lane	1.00		1.00	0.00		1.00	1.00		0.12	0.03		1.00
Lane Grp Cap(c), veh/h	377	0	210	0	0	210	342	0	1111	1197	0	1010
V/C Ratio(X)	0.12	0.00	0.63	0.00	0.00	0.28	0.14	0.00	0.56	0.75	0.00	0.02
Avail Cap(c_a), veh/h	819	0	731	0	0	731	630	0	1921	1984	0	1745
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	0.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	15.1	0.0	16.0	0.0	0.0	15.3	11.8	0.0	4.0	5.3	0.0	2.6
Incr Delay (d2), s/veh	0.1	0.0	3.1	0.0	0.0	0.7	0.2	0.0	0.4	1.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/In	0.6	0.0	2.0	0.0	0.0	0.8	0.5	0.0	1.7	3.3	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	15.2	0.0	19.2	0.0	0.0	16.0	12.0	0.0	4.4	6.3	0.0	2.6
LnGrp LOS	В	Α	В	А	Α	В	В	Α	Α	Α	Α	A
Approach Vol, veh/h		179			59			666			917	
Approach Delay, s/veh		18.2			16.0			5.0			6.2	
Approach LOS		В			В			А			А	
Timer - Assigned Phs		2	3	4		6		8				
Phs Duration (G+Y+Rc), s		29.4	0.0	9.7		29.4		9.7				
Change Period (Y+Rc), s		4.5	4.5	4.5		4.5		4.5				
Max Green Setting (Gmax), s		43.0	5.0	18.0		43.0		18.0				
Max Q Clear Time (g_c+I1), s		19.5	0.0	5.1		17.0		3.3				
Green Ext Time (p_c), s		4.8	0.0	0.5		7.9		0.2				
Intersection Summary												
HCM 6th Ctrl Delay			7.3									
HCM 6th LOS			А									

HCM 6th Signalized Intersection Summary 4: SR 19 & Revels Rd/Revels Rd

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4	1		4		٦	f,			र्स	1
Traffic Volume (veh/h)	30	1	83	88	0	36	135	744	146	64	602	45
Future Volume (veh/h)	30	1	83	88	0	36	135	744	146	64	602	45
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1781	1722	1870	1752	1870
Adj Flow Rate, veh/h	33	1	92	98	0	40	150	827	162	71	669	50
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Percent Heavy Veh, %	2	2	2	2	2	2	2	8	12	2	10	2
Cap, veh/h	244	6	140	0	0	140	388	1102	216	126	1006	1207
Arrive On Green	0.09	0.09	0.09	0.00	0.00	0.09	0.76	0.76	0.76	0.76	0.76	0.76
Sat Flow, veh/h	1422	65	1585	0	0	1585	733	1447	283	80	1321	1585
Grp Volume(v), veh/h	34	0	92	0	0	40	150	0	989	740	0	50
Grp Sat Flow(s),veh/h/ln	1486	0	1585	0	0	1585	733	0	1730	1401	0	1585
Q Serve(g_s), s	0.0	0.0	3.4	0.0	0.0	1.4	9.8	0.0	19.1	4.7	0.0	0.5
Cycle Q Clear(g_c), s	1.1	0.0	3.4	0.0	0.0	1.4	33.6	0.0	19.1	24.0	0.0	0.5
Prop In Lane	0.97		1.00	0.00		1.00	1.00		0.16	0.10		1.00
Lane Grp Cap(c), veh/h	249	0	140	0	0	140	388	0	1318	1133	0	1207
V/C Ratio(X)	0.14	0.00	0.66	0.00	0.00	0.29	0.39	0.00	0.75	0.65	0.00	0.04
Avail Cap(c_a), veh/h	542	0	476	0	0	476	600	0	1818	1548	0	1666
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	0.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	25.4	0.0	26.5	0.0	0.0	25.6	15.2	0.0	4.0	3.3	0.0	1.8
Incr Delay (d2), s/veh	0.2	0.0	5.2	0.0	0.0	1.1	0.6	0.0	1.2	0.6	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/In	0.8	0.0	2.5	0.0	0.0	1.0	2.7	0.0	4.3	2.3	0.0	0.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	25.6	0.0	31.6	0.0	0.0	26.7	15.8	0.0	5.1	3.9	0.0	1.8
LnGrp LOS	С	A	С	A	A	С	В	A	A	A	A	<u> </u>
Approach Vol, veh/h		126			40			1139			790	
Approach Delay, s/veh		30.0			26.7			6.5			3.8	
Approach LOS		С			С			A			A	
Timer - Assigned Phs		2	3	4		6		8				
Phs Duration (G+Y+Rc), s		50.5	0.0	9.8		50.5		9.8				
Change Period (Y+Rc), s		4.5	4.5	4.5		4.5		4.5				
Max Green Setting (Gmax), s		63.0	5.0	18.0		63.0		18.0				
Max Q Clear Time (g_c+I1), s		35.6	0.0	5.4		26.0		3.4				
Green Ext Time (p_c), s		10.8	0.0	0.3		7.2		0.1				
Intersection Summary												
HCM 6th Ctrl Delay			7.3									
HCM 6th LOS			А									

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Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	٢	1	1	1		र्भ
Traffic Volume (veh/h)	78	88	596	133	183	927
Future Volume (veh/h)	78	88	596	133	183	927
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	h No		No			No
Adj Sat Flow, veh/h/ln	1337	1678	1781	1574	1767	1826
Adj Flow Rate, veh/h	81	92	621	139	191	966
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	38	15	8	22	9	5
Cap, veh/h	101	113	1527	1143	214	983
Arrive On Green	0.08	0.08	0.86	0.86	0.86	0.86
Sat Flow, veh/h	1273	1422	1781	1334	216	1146
Grp Volume(v), veh/h	81	92	621	139	1157	0
Grp Sat Flow(s), veh/h/ln		1422	1781	1334	1362	0
Q Serve(g_s), s	8.9	9.1	10.9	2.4	105.7	0.0
Cycle Q Clear(g_c), s	8.9	9.1	10.9		116.6	0.0
Prop In Lane	1.00	1.00	10.0	1.00	0.17	0.0
Lane Grp Cap(c), veh/h		113	1527	1143	1197	0
V/C Ratio(X)	0.80	0.81	0.41	0.12	0.97	0.00
Avail Cap(c_a), veh/h	161	180	1540	1153	1208	0.00
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh		64.4	2.2	1.6	12.5	0.00
• • • •	13.6	13.9	0.2	0.0	18.3	0.0
Incr Delay (d2), s/veh						
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh		6.7	4.5	0.8	40.9	0.0
Unsig. Movement Delay			0.4	47	20.0	0.0
LnGrp Delay(d),s/veh	78.0	78.4	2.4	1.7	30.8	0.0
LnGrp LOS	E	E	A	A	С	A
Approach Vol, veh/h	173		760			1157
Approach Delay, s/veh	78.2		2.3			30.8
Approach LOS	E		Α			С
Timer - Assigned Phs		2				6
Phs Duration (G+Y+Rc)		126.5				126.5
Change Period (Y+Rc),	S	4.5				4.5
Max Green Setting (Gma						123.0
Max Q Clear Time (g_c+						118.6
Green Ext Time (p_c), s		5.3				3.4
Intersection Summary						
			24.3			
HCM 6th Ctrl Delay						
HCM 6th LOS			С			

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Movement	WBL	WBR	NBT	NBR	SBL	SBT			
Lane Configurations	٦	1	†	1		र्स			
Traffic Volume (veh/h)	100	179	956	110	130	756			
Future Volume (veh/h)	100	179	956	110	130	756			
Initial Q (Qb), veh	0	0	0	0	0	0			
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00				
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approac	h No		No			No			
Adj Sat Flow, veh/h/ln	1337	1678	1781	1574	1767	1826			
Adj Flow Rate, veh/h	104	186	996	115	135	788			
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96			
Percent Heavy Veh, %	38	15	8	22	9	5			
Cap, veh/h	153	171	1461	1094	141	755			
Arrive On Green	0.12	0.12	0.82	0.82	0.82	0.82			
Sat Flow, veh/h	1273	1422	1781	1334	138	921			
Grp Volume(v), veh/h	104	186	996	115	923	0		 -	
Grp Sat Flow(s),veh/h/li	n1273	1422	1781	1334	1059	0			
Q Serve(g_s), s	11.7	18.0	34.2	2.5	88.8	0.0			
Cycle Q Clear(g_c), s	11.7	18.0	34.2	2.5	123.0	0.0			
Prop In Lane	1.00	1.00		1.00	0.15				
Lane Grp Cap(c), veh/h	153	171	1461	1094	896	0			
V/C Ratio(X)	0.68	1.09	0.68	0.11	1.03	0.00			
Avail Cap(c_a), veh/h	153	171	1461	1094	896	0			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	0.00			
Uniform Delay (d), s/vel	n 63.2	66.0	5.5	2.7	24.2	0.0			
Incr Delay (d2), s/veh	11.6	95.0	1.3	0.0	38.1	0.0			
Initial Q Delay(d3),s/vel		0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(95%),vel		17.1	15.7	1.1	52.3	0.0			
Unsig. Movement Delay									
LnGrp Delay(d),s/veh	74.9		6.8	2.7	62.3	0.0			
LnGrp LOS	Е	F	А	А	F	А			
Approach Vol, veh/h	290		1111			923			
Approach Delay, s/veh			6.4			62.3			
Approach LOS	F		A			E			
		•				•			
Timer - Assigned Phs		2				6	8		
Phs Duration (G+Y+Rc)		127.5				127.5	22.5		
Change Period (Y+Rc),		4.5				4.5	4.5		
Max Green Setting (Gm						123.0	18.0		
Max Q Clear Time (g_c						125.0	20.0		
Green Ext Time (p_c), s	3	11.8				0.0	0.0		
Intersection Summary									
HCM 6th Ctrl Delay			44.1						
HCM 6th LOS			D						

Appendix N Lake County Land Development Code (LDC)

2. Turn Lanes

Turn lanes consist of left-turn lanes and right-turn lanes (deceleration lanes). Turn lanes shall be installed on the road which is being accessed at the proposed entrance(s) to the development, as deemed necessary by the County Manager or Designee. The County Manager or Designee may also require turn lanes at adjacent or nearby intersections in lieu of, or in addition to, turn lanes at the development entrances.

Conditions which are to be considered in determining the need for turn lanes include the following:

- a) If the property accessing the road is projected to generate 500 or more vehicle trips per day, or 50 or more vehicle trips in any hour;
- b) If a traffic analysis indicates that turn lanes would be necessary to maintain capacity on fronting roads and/or on adjacent or nearby intersections.
- c) If entrances are proposed at locations where grade, topography, site distance, traffic, or other unusual conditions indicate that turn lanes would be needed for traffic safety. The need for turn lanes to accommodate right turn movements and left turn movements shall be based upon anticipated traffic distribution and projected turning movement volumes among other considerations, including traffic safety.

C. <u>Traffic Analysis</u>

1. Transportation Concurrency Management System

Transportation Concurrency Management System is administered by the Lake-Sumter Metropolitan Planning Organization (LSMPO). All information regarding traffic study could be found on LSPMO website www.lakesumtermpo.com/concurrency/index.aspx

D. <u>Road Classification</u>

1. Arterial Roads

An arterial road is a route providing service which is relatively continuous and of relatively high traffic volume, long average trip length, high operating speed and of high mobility importance.

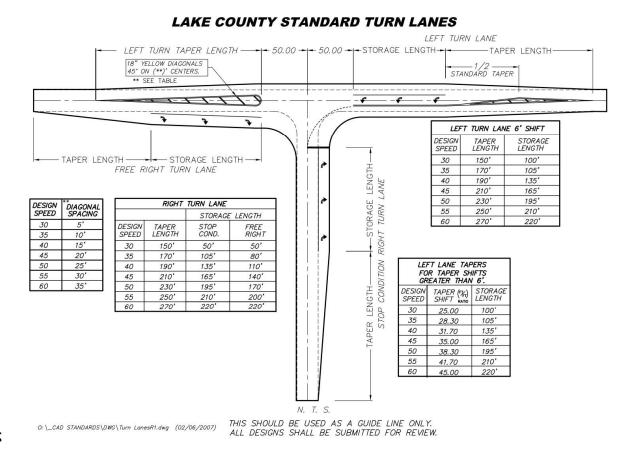
Arterial roads are grouped into the following sub-categories:

- a) Principal Arterial
- b) Minor Arterial

The classification of roads as arterials shall be based upon criteria established by the Florida Department of Transportation utilizing their most recent, adopted functional classification system.

2. Collector Roads

A collector road is a route providing services which is of relatively moderate traffic volume, moderate trip length and moderate operating speed. Collector roads collect and distribute the traffic between local roads and arterial roads and serves as a linkage between land access and mobility needs.

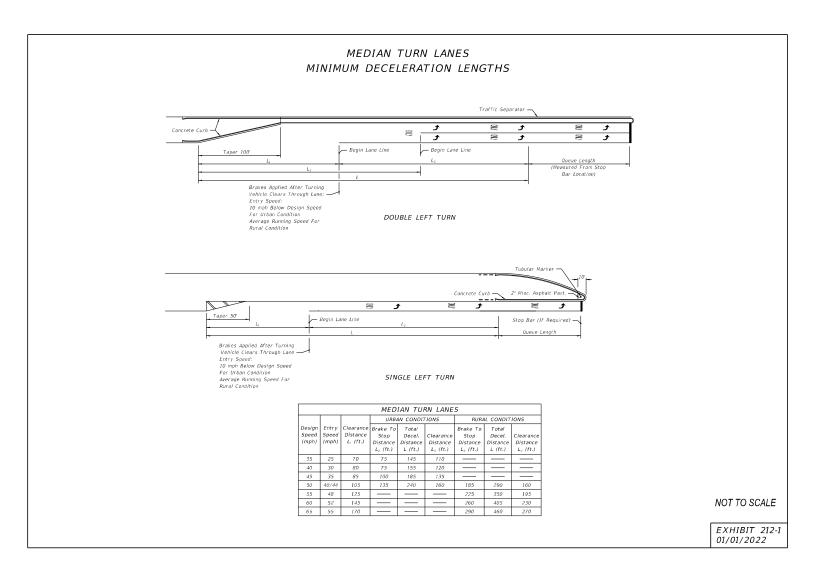


Typical Details

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Item 3.

Appendix O FDOT Design Manual Exhibit 212-1



Appendix B Preliminary Development Plan Appendix C Lake County CMP Database and 2023 FDOT Q/LOS Appendix D Turning Movement Counts and Seasonal Factor Data **Appendix E** HCM Analysis Worksheets - Existing Conditions Appendix F ITE Trip Generation Sheets Appendix G CFRPM Model Output Appendix H
LSMPO TIP and LSMPO LOPP

Appendix I Vested Trips Data

Appendix J AADT Model Plot Appendix K HCM Worksheets - Projected Conditions Appendix L Intersection Volume Projections Appendix M Background Conditions / Buildout Conditions with Mitigation Appendix N Lake County Land Development Code (LDC) **Appendix O** FDOT Design Manual Exhibit 212-1



I. PROJECT OVERVIEW

On behalf of the Property Owner, ASF TAP FL I, LLC. ("Applicant"), enclosed please find a Rezone Application to amend the Planned Unit Development ("PUD") zoning of the Mission Rise Property ("Property"). The Property consists of 243+/- acres including 4 parcels, PIDs: 02-21-25-0002-000-04800; 34-20-25-0004-000-01003; 34-20-25-0001-000-00100; 27-20-25-0004-000-01200. It is generally located south of Number Two Road, west of SR 19, and east of Silverwood Lane in the southwestern portion of the Town of Howey-in-the-Hills (see Aerial Map, included in the application materials).

The Property is designated as Village Mixed Use (VMU) and Conservation (CON) based on the Town of Howey-in-the-Hills Future Land Use Map. In 2005, the Property was rezoned to PUD per Ordinance 2005-357, with a binding conceptual development plan allowing for development of 400 dwelling units. The Developer's Agreement related to the Rezone was approved in 2007 and expired 10 years later in February 2017. The Property is currently vacant, consisting of pasturelands and wetlands. The Property can be accessed from Number 2 Road and Revels Road.

The purpose of this petition is to rezone the Property from PUD to PUD with a new Conceptual Land Use Plan and Developer's Agreement, to allow for a maximum of <u>499 dwelling units</u>, along with supportive amenities and infrastructure. A multi-use trail and parks system as well as a trailhead site is also included as the non-residential use within the PUD.

II. SURROUNDING USES

While a majority of land surrounding the Property is predominantly vacant currently, many properties are entitled for development.

The surrounding lands to the north, south, and west of the Property consist of vacant agricultural lands, groves, or pastures along with a few dispersed single-family residential dwellings. The Reserve (Hillside Grove) PUD was approved to the east in November 2021 (Ordinance 2021-010), allowing for 284 single-family homes, 291-single-family cluster homes, and 153 townhouse units, along with up to 300,000 square feet of commercial uses and 100,000 square feet of institutional uses. Lands to the east of SR 19, known as the Simpson Parcels, was also rezoned to PUD as the Watermark PUD (Ordinance 2022-016). The PUD was approved for 275 single-family dwelling units. Table 1 below provides a comprehensive inventory of the surrounding land use pattern.

	Future Land Use	Zoning	Existing Land Use	
North	Village Mixed Use	AR (Lake County),	ROW (Number 2 Road)	
	(VMU), Conservation	PUD (The Reserve,	Agriculture/Pasture	
		Ordinance 2021-010)		

TABLE 1: INVENTORY OF SURROUNDING USES

Item 3.

	(CON), Urban Low Density (Lake County)		
South	Rural Transition (Lake County)	A (Lake County)	Single-family residential
East	Village Mixed Use (VMU), Conservation (CON), Medium Density Residential (MDR)	PUD (The Reserve, Ordinance 2021-010 & Watermark PUD, Ordinance 2022-016), Ll	Future Residential (The Reserve (Lennar) PUD/Agriculture (Orange Grove)/Pasture
West	Village Mixed Use (VMU), Conservation (CON)	AG, A (Lake County), R-3 (Lake County)	Agriculture/Pasture/Single -family/Manufactured Home

Based on the development of the adjacent Reserve PUD and Watermark PUD, the surrounding area will be transitioning into denser residential or mixed-use neighborhoods.

III. HISTORY

Following annexation into the Town limits in 2005, the Property was rezoned to PUD per Ordinance 2005-037. The conceptual development plan, approved by the Town Council, authorizes the development of 400 single-family residential units. The Mission Rise Developer's Agreement was approved in February 2007, to establish mutually agreed upon terms regarding the development of the Property. This agreement expired 10 years following the effective date. In 2018, Hanover Properties attempted to secure zoning entitlements through a PUD rezone for 629 single-family residential units with associated amenities and infrastructure on the Property. However, this rezone request was denied by the Town Council.

IV. REZONE REQUEST

The Applicant is requesting to rezone the Property from PUD to PUD with a new Binding Development Plan and Developer's Agreement, to allow for a maximum of 499 dwelling units, along with supportive amenities and infrastructure. A regional multi-use trail and park system and a civic tract is planned as the non-residential component of this PUD, consistent with the requirements of the VMU future land use district.

The proposed density of 499 dwelling units is within the limitations of the base density permitted per the Town's Comprehensive Plan. The proposed density calculations are as follows:

Net Land Area	= Total acreage – Waterbodies acreage ¹ – Required open space ² –	
	Remaining Wetlands acreage ³	

¹ Only pre-existing water bodies are to be included in the calculation.

² 25% of gross land area has to be reserved as open space. Per Policy 1.2.2 of the Future Land Use Element of the Town's Comprehensive Plan, no more than 50% of the open space requirement can be met with wetlands. Landscaped buffers and stormwater facilities may be counted towards open space if designed in a park-like setting with pedestrian facilities and free-form ponds. Up to

10% of open space may be impervious. ³ Wetlands not counted towards the open space requirement.

Net Land Area	= 243.3 – 0 – 60.8 – 29.4 = 153.1 acres
Total Yield	= 153.1 x 4 = 612 dwelling units
Max. Potential Units per FLU Max. Units Requested	= 612 dwelling units. = 499 dwelling units.

Only single-family detached residential units are proposed within the PUD, including a mix of 75-foot-wide and 55-foot-wide lots. The smaller lots are strategically located in the interior of the Property, with larger lots proposed along the boundaries. Compatibility with the adjacent properties will be addressed via sensitive site design that addresses the placement of buffers, open space/preserve areas, and proposed residential development tracts. The proposed density and lot sizes is consistent with the recent approval for the Reserve PUD to the immediate east.

Access to the project will be via Number 2 and Revels Road, as shown on the proposed Conceptual Land Use Plan. The N-S spine roadway (Connector #1) passing through the Property, connecting Number Two Road and SR 19 through Revels Road, will be designed as a two-lane Collector roadway with a 90' right-of-way. This roadway will traverse through the proposed development providing interconnectivity. Additional future potential access points connecting to the Reserve PUD to the east and to the west are also proposed. A full access point is proposed to the south, connecting to Orange Blossom Road.

Connector #1 is designed with a continuous multimodal trail of min. 12' that will provide for pedestrian and bicycle connectivity across the project. The multimodal trail will be designed to capture natural viewsheds along the preserved wetlands, serving as an amenity for the project's residents as well as the Town as a whole. Additional pedestrian paths are planned along stormwater ponds throughout the development forming a system of parks adjacent to the N-S Spine Roadway. The system of multi-use trails and parks are designed to take advantage of the natural features of the site.

Over 25% of open space is provided within the project, consistent with the requirements of the Comprehensive Plan. On-site wetlands have been preserved along with upland buffers to the greatest extent possible, with minimal planned impacts.

V. INFRASTRUCTURE

Transportation:

Traffic & Mobility Consultants have prepared a Transportation Impact Analysis for this project, which is included in the application materials. Please see the report for additional details on the impacts of the proposed development.

Utilities:

Potable water will be provided through the Town's public water supply system. Sanitary sewer service will be secured through the Mission Inn Wastewater Treatment Plant, which is operated by the Central Lakes Community Development District (CDD). The Applicant is working with the Town and CDD to establish

available capacity to serve the project.

Fire and EMS:

Fire and EMS services will be provided by the Lake County Fire District.

Schools:

Lake County School District has reviewed this project (application reviewed for 592 dwelling units, as initially proposed) and provided an Adequate Public Facilities Determination Letter.

VI. ENVIRONMENTAL

An Environmental Assessment for the Property was prepared by Bio-Tech Consulting Inc., which contains information related to soils, land use types, listed and protected flora and fauna species, wetland delineation, and other environmental constraints.

Only 0.3 +/- acres of impacts to the 60.1 +/- acres of on-site wetlands is proposed, as reflected on the proposed Conceptual Land Use Plan. Consistent with Section 3.02.03 of the Land Development Code (LDC), no development is proposed within 25' of a wetland and no building or impervious surface area with the exception of stormwater ponds is planned within 50' of a wetland.

Any impacts to protected/listed species or wetlands will be permitted in accordance with relevant State and Federal guidelines as further described in the Environmental Assessment. Required buffers are maintained from the identified bald eagle's nest.

The project is in the X, A and AE flood zones. The proposed development is designed to have a majority of development, outside of areas prone to flooding per FEMA.

VII. STORMWATER MANAGEMENT

The project will provide adequate stormwater management facilities to ensure water quality and attenuation in accordance with all applicable local, state and federal regulations. It is understood that the Applicant will obtain an Environmental Resource Permit (ERP) from the St. John's River Water Management District (SJRWMD) and any required Section 404 permits from the Florida Department of Environmental Protection (FDEP) prior to construction.

Stormwater runoff from the developed portions of the project will be conveyed to stormwater management ponds. Approximately 26.8+/- acres of the Property are planned as stormwater ponds. The ponds will treat and attenuate the stormwater runoff in accordance with SJRWMD and Town's requirements prior to discharging off site. Stormwater will be detained within the ponds where chemical and physical processes within the ponds will improve water quality. The ponds will attenuate the project's runoff rate by holding back water, reducing the discharge rate.

Information related to proposed impervious surfaces will not be available until detailed design, which will be provided during at later stages of the Town's permitting process. Management of stormwater run-off, considering changes in existing and proposed impervious surfaces, will comply with SJRWMD and the Town of Howey-in-the-Hills requirements.

VIII. FUTURE LAND USE/COMPREHENSIVE PLAN COMPLIANCE

The proposed amendment is consistent with the Goals, Objectives and Policies of the Howey-in-the-Hills County Comprehensive Plan as follows:

Policy 1.1.1: Land Use Designations, Village Mixed Use (VMU)

 Minimum of 25 acres to apply for this land use. Maximum density of 4 dwelling units per acre, which may be increased to 6 dwelling units per acre if the development includes 20% usable public open space (no wetlands).

RESPONSE: The Property is 243 +/- acres in size, meeting the minimum threshold to be developed under the VMU future land use designation. The PUD is proposed for a maximum of 499 dwelling units, that is under the maximum base density of 4 dwelling units per acre, as demonstrated by the calculations included earlier in this narrative.

- Residential areas shall comprise a minimum of 70% of the net land area and a maximum of 85% of the net land area.
- Commercial/non-residential areas shall comprise a minimum of 15% of the net land area and a maximum of 30% of the net land area. This includes community facilities and schools.

RESPONSE: 15.2 % of the net land area or 23.2 acres is planned as non-residential areas within the project. This includes a mix of community recreational areas and the system of multi-use trails and parks, with trailhead site. The remainder of the net land area is proposed for residential uses.

• For developments with more than 100 acres, 5% of the non-residential land shall be dedicated for public/civic buildings.

RESPONSE: A 1.2 +/- acre site (5% of non-residential area) along SR 19 is designated as a civil tract which is planned to be developed with a trailhead to support the proposed trail and park system.

• Commercial/non-residential may be 2 stories with 50% coverage as long as parking and other support facilities (stormwater) are met. The maximum building height is 35 feet.

RESPONSE: The project will comply with this requirement.

• Public recreational uses must occupy a minimum of 10% of the useable open space (no wetlands).

RESPONSE: Over 10% of usable open space or 6.8 +/- acres is planned as public recreation areas.

• A minimum of 25% open space is required.

RESPONSE: 28.5% or 69.4 +/- acres is planned as open space within the project. Please note that any areas accredited towards non-residential area requirements are not included in this open space calculation.

• The maximum building size is 30,000 sq. ft.; unless a special exception is granted to the developer

by the Town Council.

RESPONSE: The project will comply with the maximum building size requirement of 30,000 SF. No special exception is being requested.

Policy 1.1.2: Village Mixed Use – Primarily intended to create sustainability and maintain the unique charm of the Town, including the provisions of reducing the dependability on the automobile, protecting more open land, and providing quality of life by allowing people to live, work, socialize, and recreate in close proximity. Elementary, middle, and high schools are also permitted in this category.

RESPONSE: The project meets the required mix of residential and non-residential areas for the VMU future land use designation. Non-residential areas are planned as the multi-use trail and park system that will be compatible with the residential development and maximize the natural features of the site. Special emphasis has been paid to multimodal connectivity across the project, especially connecting to the non-residential areas, consistent with the intent of this category.

Policy 1.3.1: Limiting Development in Wetland Areas. The Town shall limit development within all wetland areas to land uses supporting conservation facilities and water-related passive recreation activities, as defined in the Recreation and Open Space Element. Wetlands shall be identified on the Future Land Use Map Series as Conservation lands. No development shall be permitted in wetlands except for conservation or passive recreation uses as defined within policies cited herein.

RESPONSE: On-site wetlands are preserved to the greatest extent feasible with only 0.3 +/- acres of impacts proposed. This impact area is to accommodate the north-south Connector #1, consistent with the Town's 2035 Future Transportation Map.

Policy 1.11.2 Use of Cluster Developments. To promote the conservation of permeable surface area and maintain the Town's rural character, cluster developments shall be promoted by the Town during the development review process. Developers of Mixed Use/Planned Unit Developments and residential subdivisions shall be encouraged to cluster development in order to preserve open space.

RESPONSE: As seen on the proposed Conceptual Land Use Plan, the development is clustered consistent with this policy to allow for maximum preservation of on-site natural wetlands and native habitat. Approximately 25% of the site is wetland habitat, almost all of which is proposed to be preserved along with required upland buffers. 28.5% of open space has been provided within the project, only including 50% of on-site wetlands within the open space calculation. Thus, the development will help conserve permeable surface area and maintain the Town's rural character.

Based on the above analysis, the proposed rezone petition is in substantial compliance with the Goals, Objectives and Policies of the Town's Comprehensive Plan.

IX. REZONING CRITERIA COMPLIANCE

1. Is the rezoning request consistent with the Town's comprehensive plan?

Yes, the rezoning request is consistent with the Town's Comprehensive Plan, as further detailed in Section VIII above.

 Describe any changes in circumstances of conditions affecting the property and the surrounding area that support a change in the current zoning.

The Property is currently zoned PUD. This request does not seek to change the zoning designation of the subject property. Instead, it seeks approval of a new Conceptual Land Use Plan and Developer's Agreement for the Property, as the prior Conceptual Land Use Plan and Developer's Agreement expired in February 2017.

The proposed density is consistent with the maximum permitted per the underlying future land use of VMU. The proposed development will meet all requirements of the VMU category. Further, at current, development in the surrounding including the Reserve PUD and Watermark PUD is supportive of the requested density. The proposed lot sizes within the project are consistent with the lot sizes approved in the Reserve PUD that is immediately to the east of the Property. It uses clustering principles to allow for wetland preservation and open space enhancement to maximize the natural features of the Property.

Overall, the proposed rezoning will be consistent with the underlying future land use and mimics the nature of development seen in the surrounding area.

3. Will the proposed rezoning have any negative effects on adjacent properties?

No, the proposed rezoning will not have a negative effect on adjacent properties. The site has been sensitively designed such that preserved wetlands, stormwater ponds, and open space form a natural buffer adjacent to a majority of the Property's boundaries. Where residential use is proposed adjacent to single-family development to the west, larger 75'-wide-lots are planned. Smaller lots are strategically located in the interior of the Property and adjacent to the Reserve PUD, where similar lot sizes are approved. In terms of connectivity, the Conceptual Land Use Plan depicts the north-south Connector #1. This 90' ROW will connect Number Two Road to SR 19, improving connectivity in the area. Thus, the proposed development will not have any negative effects on adjacent properties and instead serve as a continuation of the existing development pattern with enhanced connectivity.

4. Will the proposed rezoning have any impacts upon natural resources?

No, the proposed rezoning will not have any impacts upon natural resources. Please see the attached Environmental Assessment by Bio-Tech Consulting Inc. which provides detailed information of natural resources on site.

On-site wetlands have been preserved to the greatest extent feasible, along with upland buffers as required by the Town's Comprehensive Plan. Any impacts to listed species and their habitat will be permitted through relevant State and Federal agencies. Required buffers have been maintained from the identified bald eagle's nest on site, in accordance with the U.S Fish and Wildlife Service's management plans.

5. Will the proposed rezoning have any impacts upon adjacent properties?

The proposed rezoning is a continuance of development seen in the adjacent area in recent years with approval of the Reserve PUD and Watermark PUD. Consistent with the intent of

PUDs, the proposed Conceptual Land Use Plan proposes a clustered development with greater extent of environmental protection, open space, and public recreational areas. The proposed development meets all requirements of the VMU future land use designation, as described in Section VIII of this narrative. Further, the project will help interconnectivity within the area through the inclusion of the north-south Connector #1. This roadway is to be designed as a two-lane roadway with dedicated continuous min. 12' multimodal trail to ensure both vehicular and pedestrian connectivity from Number Two Road down to Revels Road and SR 19.

- 6. Will the rezoning create any impacts on services including schools, transportation, utilities, stormwater management and solid waste disposal?
 - Schools An Adequate School Facilities Determination Letter has been provided by the Lake County School District.
 - Transportation Transportation & Mobility Consultants, Inc. has prepared a Traffic Impact Analysis based on a methodology approved by the Town.
 - Utilities Potable water will be provided through the Town's public water supply system; the Town has indicated adequate capacity to serve the project. Sanitary sewer service will be secured through the Mission Inn Wastewater Treatment Plant, which is operated by the Central Lakes Community Development District (CDD). The Applicant is working with the CDD to establish available capacity to serve the project.
 - Stormwater Management Please see Section VII of this narrative. Stormwater systems will be designed to manage stormwater on-site and receive applicable permits from the SJRWMD and the Town, prior to construction.
 - Solid Waste Solid waste service will be provided through the Town.
- 7. Are there any mistakes in the assignment of the current zoning classification?

No, the proposed rezoning is not to change the current zoning classification of PUD, but instead to seek approval of a new Conceptual Land Use Plan and Developer's Agreement for the Mission Rise Property.

X. CONCLUSION

The proposed petition seeks approval of a new Conceptual Land Use Plan and Developer's Agreement for the Mission Rise site. The proposed development will continue to meet all requirements of the VMU future land use designation, be consistent with the requirements of the LDC and uphold the Goals, Objectives and Policies of the Town of Howey-in-the-Hills' Comprehensive Plan. For these reasons, the Applicant respectfully requests approval of rezoning and reserves the right to modify this application through the review process.



September 28, 2023

Thomas A. Harowski, AICP Town of Howey-in-the-Hills 101 N. Palm Ave., P.O. Box128, Howey-In-The-Hills, Florida 34737

RE: Mission Rise PUD

Dear: Mr. Harowski

Enclosed please find responses to Staff's comments below in bold. The following items are resubmitted in response to Staff's comments:

- 1. Revised Conceptual Land Use Plan
- 2. Revised Development Agreement
- 3. Revised Traffic Impact Analysis

PLANNING REVIEW COMMENTS: CONCEPT PLAN:

 The project still fails to meet the 15% non-residential land area requirements of the Village Mixed Use land use classification. The stormwater areas allocated to the non-residential use calculation are in fact engineering elements of other land uses. The civic land use, the amenity centers and the park areas can count toward the non-residential land use as proposed. Staff is willing to include the major trail area that falls outside the central collector road right-of-way (so long as this area is not already counted as park area).

RESPONSE: Please see page 4 of the Conceptual Land Use Plan, which provides distinct details of the non-residential land area proposed within the development. Stormwater areas have been excluded from the calculation. An additional park area is proposed in the southern part of Phase 2.

2. The proposed recreational facilities have been better detailed, but the "regional" park still fails to meet the definition included in the comprehensive plan. Perhaps revising the name to a neighborhood facility is more appropriate given that the park is unlikely to draw significant interest from residents outside the neighborhood.

RESPONSE: The "regional" park has been renamed to "neighborhood" parks. In turn, the previous "neighborhood parks" have been renamed to "mini" parks. The mini parks are planned as recreational space for the use of the residents of the community. The neighborhood parks are intended to serve the larger community and facilitate access and use of the multiuse trail system.

3. The area in the center designated as regional park is a bonafide park area. The highlighted areas in Phase 3 and at the south end of Phase 2 are just open space and should not be

counted as park area.

RESPONSE: The proposed park areas have been detailed, in terms of the proposed features/amenities on page 3 of the Conceptual Land Use Plan.

4. The applicant has elected to retain stormwater retention areas within the central core area which staff recommended for tree preservation and green space. As noted in our comments last time, the retention ponds are part of the residential land use and should be located there. Be advised this item will be a comment in the staff report.

RESPONSE: Acknowledged.

5. The park area developments have been detailed but outside of the amenity centers are essentially passive designs. As an additional item, the applicant could consider including some court activities as part of the overall program. We renew our suggestions for repurposing the small residential development at the southeast corner of Phase 2 as a central community facility.

RESPONSE: Active recreational amenities may be provided in the park area in the southern part of Phase 2. The planned facilities/amenities and design of the park areas are intended to be further detailed at the subdivision/site plan process.

6. The applicant needs to address how the double-frontage lots located in Phase 2 and Phase 3 will be addressed. These lots have access from a parallel street so that the rear yards of these properties will front on the central collector road. Perhaps some sort of buffer such as a landscaped berm or wall is appropriate.

RESPONSE: The double-frontage lots will have a 10' landscaped buffer along the Collector Road to protect views from this roadway.

7. For the 55-foot-wide lots where no alley access is proposed, what design options are suggested to reduce the impact of a garage-dominate streetscape.

RESPONSE: In accordance with LDC Section 4.06.02.A.3., at least 25% of the lots in the development will have to provide recessed garages. Further, side-loaded garages are encouraged, as stated in the proposed Development Agreement.

8. The unit totals provided for the phase allocations do not add correctly on the table provided.

RESPONSE: The unit totals have been revised on the Phase Development Table. Please see page 2 of the Conceptual Land Use Plan.

9. The note to the table needs to be removed. Movement of units between phases will be considered a major amendment of the development agreement. As an alternative the applicant could propose language in the development agreement allowing for a specifc level of shifting units between phases for Town Council consideration.

RESPONSE: Acknowledged. The note has been removed and language related to movement of units between phases will be added to the Development Agreement.

10. At the last DRC meeting the applicant was requested to provide a timing proposal for construction of the central collector road. The agreement needs to include a proposed timing.

RESPONSE: Please see the revised Development Agreement.

11. Map 2 seems to be unclear. Phase lines are similar to the symbols for pathways, parking, non-residential areas etc. Perhaps the information can be divided into more maps that will present a clearer summary.

RESPONSE: Please see page 2 of the Conceptual Land Use Plan where the phase line type has been updated for better readability.

PUD/DEVELOPMENT AGREEMENT:

1. On page two the development agreement states the project is 592 units while the concept plan has 499. These documents need to be in agreement.

RESPONSE: Please see the revised Development Agreement.

2. On page three the minimum lot width at the building line needs to be 75 feet for the 75 x 120 lot size.

RESPONSE: Please see the revised Development Agreement.

3. On page three the wetland buffer needs to reflect the town requirements in Sec. 3.02.03C as well as the water management district and DEP requirements. The Town's requirements vary in some respects from the state requirements.

RESPONSE: Please see the revised Development Agreement.

4. On page four, the language setting the timing for the Town to ask for utility upgrades is still not satisfactory. The proposed 270 days from approval of the plan is still not what we need. The timing should be triggered by the application for final subdivision approval for the phase of the project proposed. The final subdivision approval gives authorization to construct subdivision improvements. The Town should be required to make its needs and commitments at this point. If final subdivision approval is sought by phase, then the Town's opportunity to seek utility line upgrades should attach to each phase.

RESPONSE: Please see the revised Development Agreement.

5. On page 6, the Town is not requiring all roads to be public. The applicant has the choice to use gated access for the project or for sub-areas within the project. While the collector road should remain with full public access, the applicant may wish to revise the proposed language to preserve the option for gated areas.

RESPONSE: Please see the revised Development Agreement.

6. On page eleven, the termination language related to sewer service acquisition should be modified to include other options than the CLCDD.

RESPONSE: Please see the revised Development Agreement.

TRAFFIC IMPACT ASSESSMENT:

1. Defer to the Town engineer comments

RESPONSE: Acknowledged.

ENGINEERING REVIEW COMMENTS: TRAFFIC STUDY:

1. The conceptual land use plan states the maximum number of lots is 499. The traffic study and the development agreement states 592 lots. All three need to be the same.

RESPONSE: The Traffic Impact Analysis and Development Agreement have been revised to state a maximum of 499 units.

2. The methodology states that Lake Hills & Watermark are to be included in the background traffic projection. The submitted study left these developments out.

RESPONSE: Please see the revised Traffic Impact Analysis.

3. For the future condition intersection analysis for SR 19 & Revels Rd. include right & left turn lanes on SR 19 and a right turn lane on revels.

RESPONSE: Please see the revised Traffic Impact Analysis.

4. For the future condition intersection analysis for the Spine Rd. and Number 2 Rd., include right & left turn lanes on Number 2 Rd.

RESPONSE: Please see the revised Traffic Impact Analysis.

5. Per the MPO TIS Guidelines the study needs to include a section for Mitigation Strategies. This needs to address the road segments and intersections with deficiencies. For unsignalized intersections, side streets with deficient delays need to be evaluated for mitigation. Also, the narrow width of Number 2 Road needs to be addressed in this section. While capacity is not an issue, operational safety is.

RESPONSE: Please see the revised Traffic Impact Analysis.

6. There is no proposed widening of SR 19 at Central Avenue as stated in the study.

RESPONSE: Please see the revised Traffic Impact Analysis.

7. Based on Lake County's requirement for turn lane widening on Number 2 Road (all on the south side) the length of tapers will need to be twice the standard length.

RESPONSE: Please see the revised Traffic Impact Analysis.

CONCEPT PLAN:

 The main N-S spine road and realigned Revels Road should not have driveway connections or on-street parking. They should have full pedestrian accommodation including the multi-use trail and raised crosswalks/speed tables at key points along its length connecting the trail and sidewalks to amenity, open space, and park areas.

RESPONSE: On-street parking/driveway connections along the Collector Road have been removed from the plan. All lots abutting the Collector Road will have access from another local street or alley.

2. The curb & gutter for the neighborhood roads should 2' wide Type F or Drop Curb.

RESPONSE: Please see page 6 of the Conceptual Land Use Plan, where the curb and gutter has been updated to 2' width.

Development Agreement

1. Section 1. (f) Wetlands: Wetland impacts and buffering shall also be subject to the Town's land development regulations as well as the St Johns River Water Management District.

RESPONSE: Please see the revised Development Agreement.

2. Section 1. (j) Transportation, Streets and Sidewalks: Revels Road and the Spine Road must have a minimum 90-foot right-of-way, 2' curb and gutter, and a minimum 32-foot-wide pavement with 12-foot travel lanes and 4' curb lanes.

RESPONSE: Please see the revised Development Agreement.

Thank you in advance for your consideration of the above information. If you require further information, please do not hesitate to contact me at 607.216.2390 or <u>rlopes@rviplanning.com</u> Sincerely,

RVi Planning + Landscape Architecture

Rhea Lopes, AICP Project Manager

Enclosures

cc: Alexis Crespo, RVi Planning + Landscape Architecture Jason Humm, ASF TAP FL I LLC Jonathan Huels, Lowndes Law Group



Planning & Zoning Board Meeting

December 21, 2023 at 6:00 PM Howey-in the-Hills Town Hall 101 N. Palm Ave., Howey-in-the-Hills, FL 34737

MINUTES

CALL TO ORDER ROLL CALL

BOARD MEMBERS PRESENT:

Board Member Alan Hayes | Board Member Richard Mulvany | Board Member Ellen Yarckin | Board Member Shawn Johnson | Board Member Frances Wagler | Vice-Chair Ron Francis III | Chair Tina St. Clair

STAFF PRESENT:

Sean O'Keefe, Town Manager | John Brock, Town Clerk | Tom Harowski, Town Planner | Tom Wilkes, Town Attorney

CONSENT AGENDA

Routine items are placed on the Consent Agenda to expedite the meeting. If a Planning & Zoning Board Member wishes to discuss any item, the procedure is as follows: (1) Pull the item(s) from the Consent Agenda; (2) Vote on the remaining item(s); and (3) Discuss each pulled item and vote.

1. Consideration and Approval of the November 16, 2023, Planning and Zoning Board Meeting minutes.

Motion made by Board Member Johnson to approve the Consent Agenda; seconded by Board Member Mulvany. Motion approved unanimously by voice-vote.

Voting

Yea: Board Member Hayes, Board Member Mulvany, Board Member Yarckin, Board Member Johnson, Board Member Wagler, Vice-Chair Francis III, Chair St. Clair Nay: None

PUBLIC HEARING

2. Consideration and Recommendation: Mission Rise Development PUD Rezoning Submittal

Town Planner, Tom Harowski, introduced and explained this item. Mr. Harowski reviewed his staff report with the Board. Mr. Harowski explained that the project included 499 single-family homes with lots measuring 55' x 120' and 75' x 120'.

Mr. Harowski summarized that the applicants have presented a conceptual plan that meets the minimum Village Mixed Use requirements as presented in Future Land Use Policy 1.1.1 and that the proposed development agreement includes setbacks that address the issues related to onsite parking and adequate area to accommodate accessory structures.

Mr. Harowski explained to the Board that there were three options before the Board. Those options included: recommending approval of the proposed development as submitted; recommending denial of the proposed application (based on a failure to comply with Policy 1.1.2 regarding community character, the addition of traffic to road segments that are projected to fall below the level of service standard [even though the road segments will still fail without the project], failure to comply with Policy 1.2.6 on the allocation of residential density in the community, and/or other findings that the Planning Board may determine); or recommending a conditional approval providing the project make some changes.

Chair St. Clair asked the applicant to introduce themselves and give their presentation to the Board. Jonathan Huels (Attorney for the applicant) introduced himself and the group of applicant representatives. They included Jason Humm (Owner Representative), Jacqueline St. Juste (Engineer), Charlotte Davidson (Transportation Planner), Mark Ausley (Biologist), Jack Caldwell (Landscape Architect), and Alexis Crespo (Planner). Ms. Crespo gave the applicant's presentation to the Board.

Board Member Yarckin quoted proposed changes to the Town's Comprehensive Plan that would require developers to have at least 50% of all Single-Family Residences to have a minimum area of 10,800 square feet and the applicant's biggest lots were only 9,000 square feet. Mr. Huels stated that this is a policy under consideration and has not yet been adopted and the applicant has been working with the existing regulations.

Chair St. Clair open Public Comment for this item only.

Eric Gunesch, 448 Avila Place – Mr. Gunesch stated that he wanted a recommendation of denial until the applicant comes back with a site plan that follows the Town's MDR-2 zoning requirements.

Greg Kiffer, 11348 Valley View Dr., Howey-in-the-Hills (unincorporated Lake County) – Mr. Kiffer had questions about school concurrency. Mr. Kiffer was concerned about the traffic getting worse in the area.

Frank Martinez, 10400 Woodland Hills Ct., Howey-in-the-Hills (unincorporated Lake County) – Mr. Martinez stated that he appreciated the applicant's consideration as it relates to the connection to Orange Blossom on the south side of the project but does not think it is enough. Mr. Martinez stated that he wanted a recommendation for denial.

Nathaniel White, Owner of Contours Landscaping Solutions – Mr. White was concerned about the flow of traffic around his business and wanted an access to the neighborhood through the south side of his property.

Janice McLain, 109 S Lakeshore Blvd. – Ms. McLain stated that she thought her 65' wide lot that she lives on is too small and that she wanted the Board to make a recommendation of denial.

Tim Everline, 1012 N Lakeshore Blvd. – Mr. Everline stated that Florida is no longer a paradise due to growth. Mr. Everline stated that he believed the lots were too small and that Number Two Rd. may not be fixed in 10 years. Mr. Everline stated that he wanted a recommendation for denial.

Ken Dunsmoor, 9950 Orange Blossom Rd., Howey-in-the-Hills (unincorporated Lake County) – Mr. Dunsmore stated that he did not think they could stop people from exiting out onto Orange Blossom Rd. and he was not in favor of this proposed development.

David Miles (Town Councilor), 500 E Camelia Way – Councilor Miles stated that he thinks 100% of all future lots should be at least 10,800 square feet and reminded the audience that he had stated this in a recent Town Council Meeting. Councilor Miles stated that he thought the Town's staff was dragging their feet on getting the Town's Comprehensive Plan amended.

Councilor Miles stated that he will make a motion in a future Town Council meeting to put a moratorium on building within the Town if they cannot come get this developer to change their path.

Councilor Miles asked the Planning and Zoning Board to reject this proposal. Councilor Miles stated that this proposal would not get his vote and that it would not get several other Councilors' votes.

Sandy Russ, 6813 Lakeview Dr. Yalaha, FL. – Mrs. Russ stated that she did not think Number Two Road could handle more traffic. Mrs. Russ wanted to know what employment opportunities this development would bring. Mrs. Russ stated that the board should not recommend approval.

Chair St. Clair closed Public Comment for this item.

Mr. Huels addressed several points from the public's comments.

Board Member Wagler stated that Number Two Rd was a major concern and was dangerous. Board Member Wagler stated the Planning and Zoning Board and Town Council were in favor of restoring larger lot sizes for the Town.

Board Member Mulvany said that the Town Planner has told developers to look at lot sizes and to look at keeping traffic off of Number Two Rd. and developers have yet to come back with larger lots. Board Member Mulvany stated that 55' x 120' was an unacceptable size for a lot.

Vice-Chair Francis stated that his 1/4-acre lot was too small and 55' x 120' lot was also too small.

Mr. Wilkes explained that the property that the Board was reviewing was currently zoned as PUD and without an active Development Agreement the owners could not develop their land. Mr. Wilkes explained that there had to be a negotiated agreement between the Town and the landowner. Mr. Wilkes explained that the Town cannot refuse to give the landowners a Development Agreement, and that there needed to be a reasonable negotiation. The Planning and Zoning Board was tasked with making a recommendation to the Town Council.

Board Member Wagler asked if the applicant had secured wastewater rights yet. Mr. Huels stated that they had not yet, but that the Development Agreement would have a time frame to allow for them to secure the rights.

Board Member Yarckin stated that she liked the clubhouse and the trail head, but she only wanted to allow them to have 250 homes in the development.

Board Member Wagler made a motion that was seconded by Board Member Yarckin. Board Member Wagler moved that the Planning and Zoning Board recommend approval of Ordinance 2024-001 and the Village Mixed Use PUD for Mission Rise only if the proposed Development Agreement is modified to include:

1) 80% of the residential lots can be no smaller than 1/4 acre in size (10,890 sq feet) – the remainder of the lots can be 75' lots as proposed by the applicant.

2) Access to Number Two Rd can be constructed but cannot be open to access until Phases 1 and 2 have been completed and access to Number Two Rd shall be constructed and ready to open before a certificate of occupancy is issued for 50% of the lots in Phase 3.

3) The open space area between Phase 2 and Phase 3 shall be redesigned to eliminate the drainage ponds (as recommended in the Town Planner's staff report).

Board Member Hayes made a motion to amend the current motion to require 100% of all the residential lots to be 1/4 acre lots. There was no second to his motion to amend the standing motion, so the motion to amend died.

Motion made by Board Member Wagler; seconded by Board Member Yarckin. Board Member Wagler moved that the Planning and Zoning Board recommend approval of Ordinance 2024-001 and the Village Mixed Use PUD for Mission Rise only if the proposed Development Agreement is modified to include:

1) 80% of the residential lots can be no smaller than 1/4 acre in size (10,890 sq feet) – the remainder of the lots can be 75' lots as proposed by the applicant.

2) Access to Number Two Rd can be constructed but cannot be open to access until Phases 1 and 2 have been completed and access to Number Two Rd shall be constructed and ready to open before a certificate of occupancy is issued for 50% of the lots in Phase 3.

3) The open space area between Phase 2 and Phase 3 shall be redesigned to eliminate the drainage ponds (as recommended in the Town Planner's staff report).

Motion was approved by roll call vote.

Voting

Yea: Board Member Mulvany, Board Member Yarckin, Board Member Johnson, Board Member Wagler, Vice-Chair Francis III, Chair St. Clair Nay: Board Member Hayes

3. Consideration and Recommendation: Ordinance 2023-013 Comprehensive Plan Amendment -Future Land Use Element

Town Planner, Tom Harowski, introduced and explained this item. Mr. Harowski reviewed his staff report with the Board. Town Attorney, Tom Wilkes, explained that this Ordinance would amend the Town Comprehensive Plan and would create limitations on future Town Councils.

Mr. Harowski said that, if you limit the lot size too much, the developers would not be able to create amenities to their developments.

Board Member Yarckin stated that she wanted a moratorium on all development within the Town until after the Town changes its Comprehensive Plan and LDC.

Chair St. Clair open Public Comment for this item only.

David Miles (Town Councilor), 500 E Camelia Way – Councilor Miles stated that three developers had already taken advantage of the Town. Those three developments were filled with affordable housing due to the small lot sizes. Councilor Miles stated that he had provided 12 pages of recommendations for amendments to the Comprehensive Plan and LDC. Councilor Miles submitted those recommendations in June of 2023. Councilor Miles had stated that many of the recommendations were designed to create larger setbacks.

Councilor Miles reminded everyone that the Talichet neighborhood had no amenities and narrow streets. Councilor Miles also stated that he wanted to get rid of PUDs in the Town. **Tim Everline, 1012 N. Lakeshore Blvd.** – Mr. Everline stated that Mission Inn was not what it was, people do not like the small lots in Las Colinas and people cannot get tee times on the golf course because there are too many people living there. Mr. Everline stated he had met with a Talichet resident that told him that they didn't like cars parked on the street in their neighborhood.

David Miles (Town Councilor), 500 E Camelia Way – Councilor Miles stated he wanted a High Density Residential (HDR)-1 and a HDR-2 zoning category to be created. Councilor Miles wanted to know if the Planning and Zoning Board had received all of the Comprehensive Plan and Land Development Code (LDC) comments that the Town Councilors had created and submitted to Mr. Harowski. Many of the Planning and Zoning Board members stated that they had not and would like a copy of them.

Joshua Husemann, 671 Avila Pl. – Mr. Husemann suggested that the Town should create rules that only allow parking on one side of the road to make it easier for emergency vehicles to travel through the Town. Mr. Husemann was also concerned that, if the Town did not allow PUDs in the future, it would remove potential for new parks.

Greg Kiffer, 11348 Valley View Dr., Howey-in-the-Hills (unincorporated Lake County) – Mr. Kiffer stated that, with the size of homes these days, 1/4 of an acre lot may not be big enough.

Chair St. Clair closed Public Comment for this item.

Board Member Wagler reviewed Policy 1.2.6 and recommended striking the current version and rewriting it. After discussion by the Board, it was decided Policy 1.2.6 should be changed to the following:

Reorientation of Residential Densities. The Town may allow lot sizes smaller than one-fourth acre (10,890 sq. ft.) only in the following locations: areas in or adjacent to the Town center (e.g., the Town central commercial district) and areas abutting major arterial road corridors such as state roads and county roads, not neighborhood roads with higher traffic counts and areas abutting commercial or industrial land uses. The Town shall require single family residential lots in all other areas to be one-fourth of an acre (10,890 sq. ft.) or larger.

Motion made by Board Member Wagler to strike through the original Policy 1.2.6 and amend it to the above listed policy; seconded by Board Member Hayes. Motion approved unanimously by roll call vote.

Voting

Yea: Board Member Hayes, Board Member Mulvany, Board Member Yarckin, Board Member Johnson, Board Member Wagler, Vice-Chair Francis III, Chair St. Clair Nay: None

Motion made by Board Member Hayes recommend approval of the amended Ordinance 2023-013; seconded by Board Member Johnson. Motion approved unanimously by roll call vote.

Voting

Yea: Board Member Hayes, Board Member Mulvany, Board Member Yarckin, Board Member Johnson, Board Member Wagler, Vice-Chair Francis III, Chair St. Clair Nay: None

OLD BUSINESS

None

NEW BUSINESS

None

PUBLIC COMMENTS

Any person wishing to address the Planning and Zoning Board and who is not on the agenda is asked to speak their name and address. Three (3) minutes is allocated per speaker.

David Miles (Town Councilor), 500 E Camelia Way – Councilor Miles thanked the Planning and Zoning Board for their hard work.

Janice McLain, 109 S Lakeshore Blvd - Mrs. McLain stated that there was a stop sign and a Do Not Enter sign posted before an alleyway in front of her house. Mrs. McLain stated that no one pays attention to the signs, and she wanted them removed. Sean O'Keefe, Town Manager, said that he would speak with Mrs. McLain after the meeting.

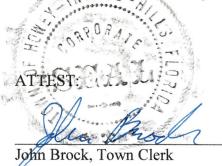
BOARD COMMENTS

Board Member Mulvany stated that he wanted the Board to discuss a letter that the Town had received from Lake County in reference to Number Two Road and he wanted it added to the next Board Meeting's agenda.

ADJOURNMENT

There being no further business to discuss, a motion was made by Board Member Yarckin to adjourn the meeting; Vice-Chair Francis III seconded the motion. Motion was approved unanimously by voice vote.

The Meeting adjourned at 9:12 p.m. | Attendees: 38



Tina St. Clair Chairperson



MISSION RISE PUD REZONE

Town of Howey-in-the-Hills Town Council March 11, 2024

- ✤ Jason Humm, ASF TAP FL I LLC
- Jonathan Huels, Lowndes
- Mike Ripley, Land Advisors
- ✤ Jacqueline St. Juste, Atwell
- Charlotte Davidson, Traffic Mobility Consultants
- Mark Ausley, Bio-Tech Consulting
- Jack Caldwell, Alexis Crespo & Rhea Lopes, RVi Planning + Landscape Architecture

PROJECT TEAM

MISSION RISE PUD

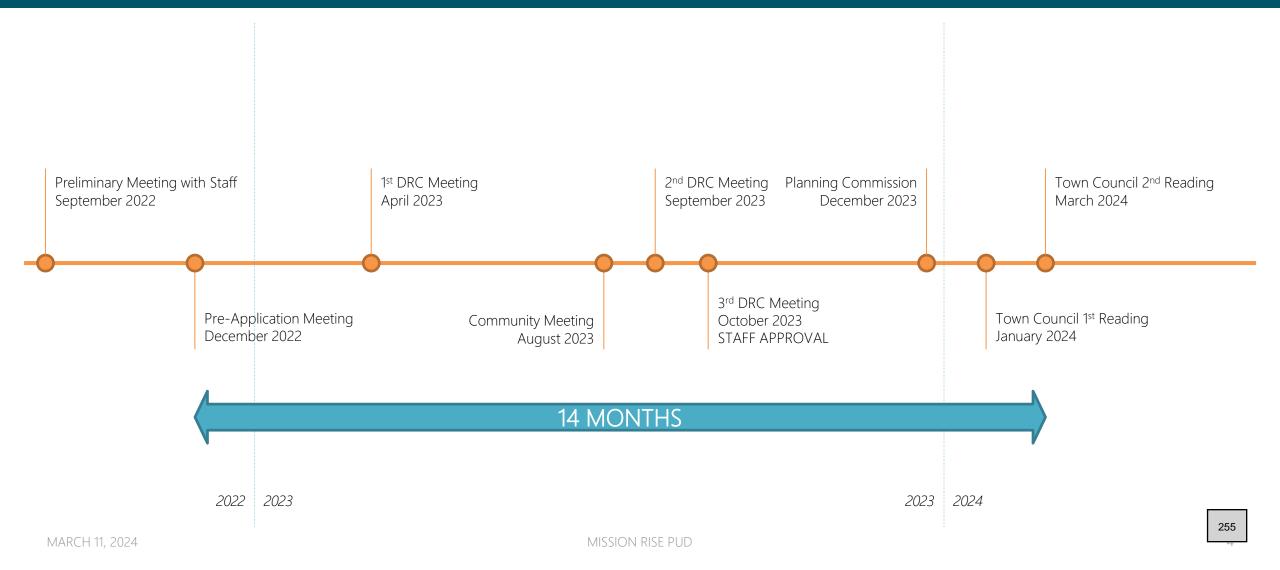
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Item 3.

REQUEST SUMMARY

Rezone 243 acres from PUD to PUD to allow for a maximum of <u>438</u> single-family dwelling units, public and private recreational amenities, 90+/acres of combined open space and wetland preservation areas, and substantial public benefits via binding Developers Agreement

PROJECT TIMELINE



Item 3.

VMU FUTURE LAND USE

Future Land Use	Maximum Density/Intensity	Description	
Village Mixed Use (VMU)	Must have a minimum of 25 acres for this land use. 4 dwelling units per acre; May be increased to 6 dwelling units per acre if the development includes 20% usable public open space (no wetlands).	and required in this category in order to promote sustainable development,	≥.86 DU/NA
	Residential areas shall comprise a minimum of 70% of the Net Land Area and a max. of 85% of the Net Land Area.	including the provisions of	84.5%
		the automobile, protecting	
	Commercial/non-residential areas shall comprise a minimum of 15% of the Net Land Area and a maximum of 30% of the Net Land Area. This includes community facilities and schools.	providing quality of life by allowing people to live, work, socialize, and recreate in	15.5%
	For developments with more than 100 acres, 5% of the non-res. land shall be dedicated for public/civic buildings. Commercial/non-residential may be 2 stories with 50% coverage as long as parking and other support facilities (stormwater) are met.	Elementary, middle, and high schools are also permitted in this category.	5.7%
	Public recreational uses must occupy a minimum of 10% of the useable open space (no wetlands).		17.4%
	A minimum of 25% open space is required.		28.5%



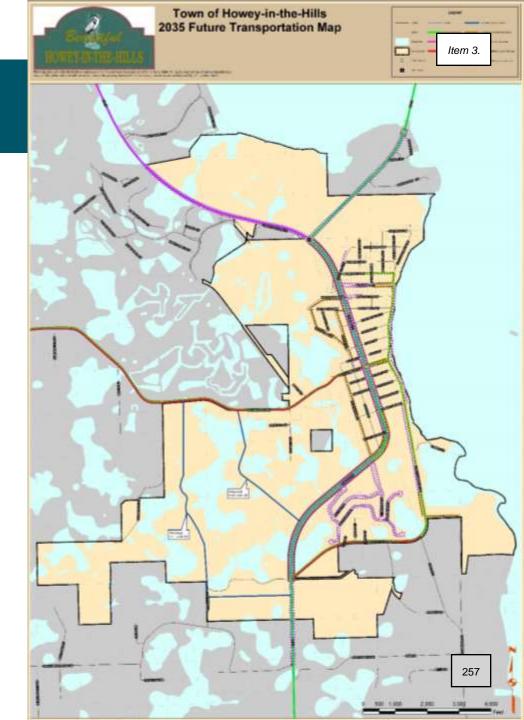
TRANSPORTATION

• 90' Collector Roadway

7. Deficiencies in Town

Currently, there are no LOS deficiencies for roads in Town. Most of the roads have additional capacity to support growth. The primary transportation issue in Howey-in-the-Hills in the future will be SR 19. Although most of the traffic on SR 19 is through traffic that does not originate nor end in Howey-in-the-Hills, the Town understands the need to address this issue.

The Town has also addressed the issue of SR 19 with regards to new growth in the development review process. Two large planned unit developments that lie between SR 19 and County Road No. 2 were required to include collector roads within their developments that would connect SR 19 with County Road No. 2. These future roadways will allow for better distribution of traffic and prevent all trips from having to use SR 19 through the downtown area. As future growth is proposed in Howey-in-the-Hills, the Town will continue to ensure that the road network provides for the most efficient system and that alternative modes of transportation are encouraged. The Town's emphasis on mixed use developments and the redevelopment of the Town Center to a live-work environment will also help to alleviate traffic on SR 19 and the road network overall.



MISSION RISE PUD

AREAS OF CONCERN

- 1. Lot Sizes
- 2. Project Density
- 3. Amenities/Park Commitments
- 4. Stormwater Areas Between Phase 2/3
- 5. Alley Width

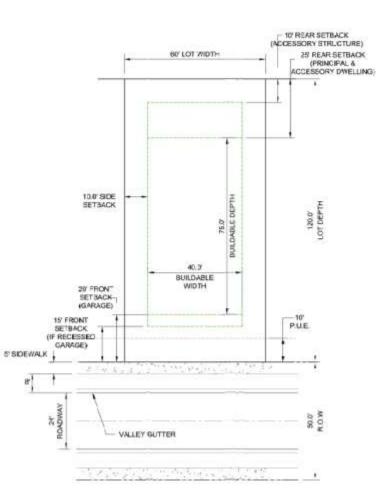


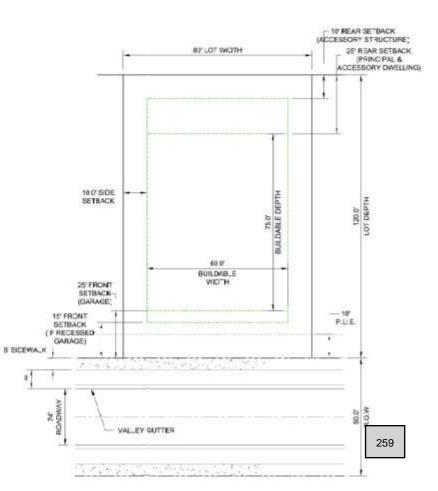
1 – LOT SIZES

- 55' → 60'
- 75′ → 80′
- 10' side setbacks

60' LOT FRONT LOAD GARAGE

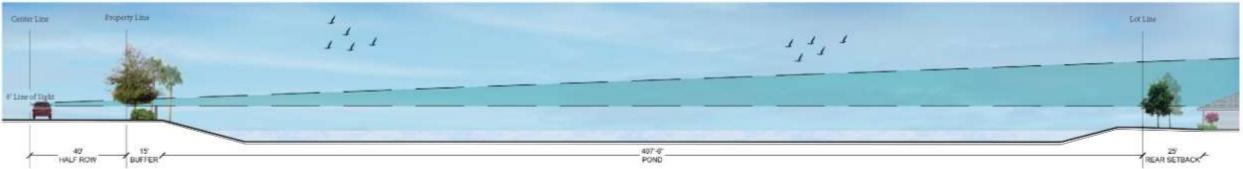
80' LOT FRONT LOAD GARAGE



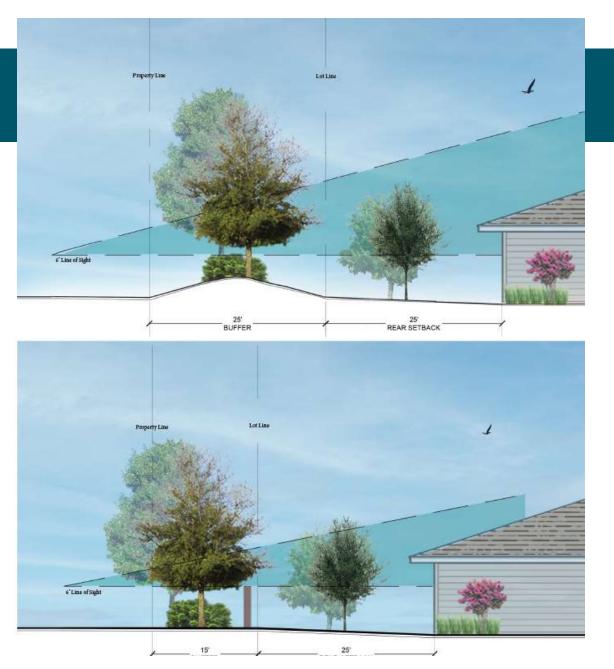


COMPATIBILITY - SITE LAYOUT

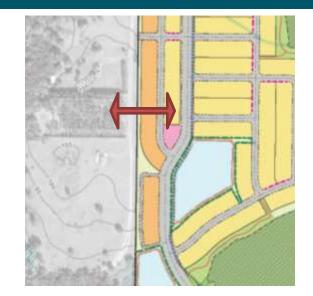




Item 3.



COMPATIBILITY - BUFFERS



Item 3.

COMPATIBILITY - DESIGN





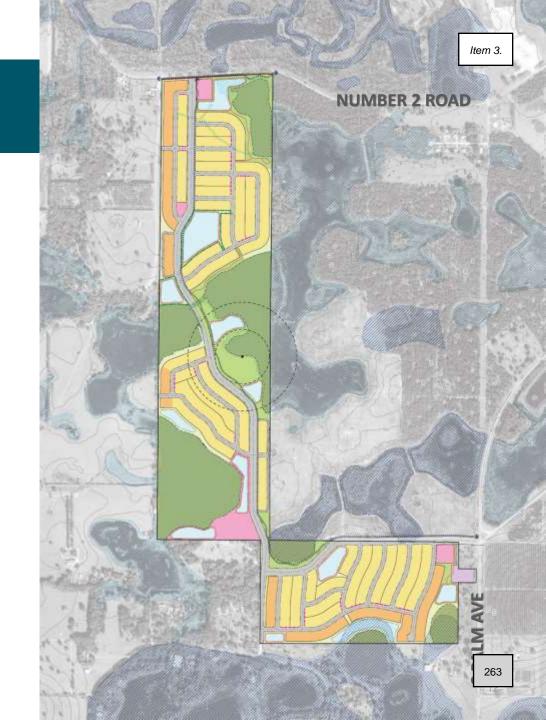
MARCH 11, 2024

MISSION RISE PUD

2 – PROJECT DENSITY

- Reduced Density from 499 to 438 units
- 2.86 DU/NA (Net Acreage: 153 AC)
- **POLICY 1.1.4:** *Interpretation of Open Space and Density Designations.* Open space is figured on the Gross Land Area. Up to 50% of the open space requirement may be met with wetlands. Open space may include landscaped buffers and stormwater facilities if they are designed to be a park-like setting with pedestrian amenities and free form ponds. Open space may be passive or active. Open space may include public recreational components of developments. The majority of the open space shall be permeable; however, up to 10% may be impervious (plazas, recreational facilities, etc.). Wet ponds are not counted as part of that 10%.

Densities would be determined by the Net Land Area. The Net Land Area is figured by taking the Gross Land Area (total property less any lakes or water bodies), then subtracting from that any open space requirements, then subtracting from that any remaining unbuildable acreage (remaining wetlands).



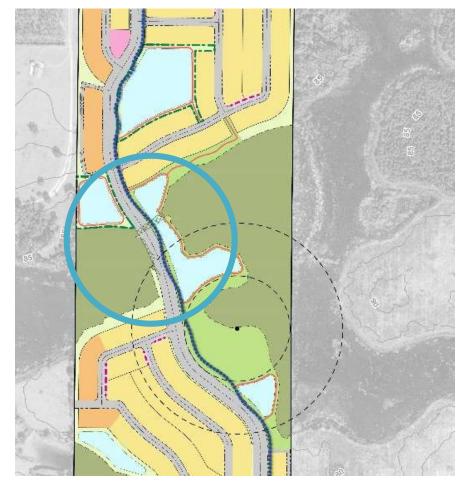
3 – AMENITIES/PARK COMMITMENTS

PARK & AMENITY FEATURES

Amenity / Park	Acreage	Access Restrictions	Minimum Features
Trail Head Site	1.3 Ac	Public	Restrooms, benches, picnic tables, bike repair station, cooling station, pet station(s)
Trail Head Park	0.6 Ac	Public	Benches, pathway(s)
Amenity 1	1.2 Ac	Private	Dog park or tot lot; flex lawn, benches, picnic table(s)
Amenity 2	4.0 Ac	Private	Pool & Cabana, Pickball Court(s), tot lot, flex lawn, pet station(s), pathways, gathering area
Neighborhood Park 1	2.2 Ac	Public	Benches, picnic table(s), exercise station(s), flex lawn, pet station, gathering area
Neighborhood Park 2	8.2 Ac	Public	Benches, picnic table(s), flex lawn, pathways, exercise station(s), gathering area, pet station(s)
Mini Park	0.4 Ac	Private	Benches, picnic table(s), flex lawn, pet station, gathering area
Neighborhood Park 3	3.9 Ac	Public	Benches, picnic table(s), flex lawn, pathways, gathering area, pet station(s)
Amenity 3	1.2 Ac	Private	Dog park or tot lot; flex lawn, benches, picnic table(s)
Total	23.0 Ac	3	Lan all and



4 – STORMWATER AREAS

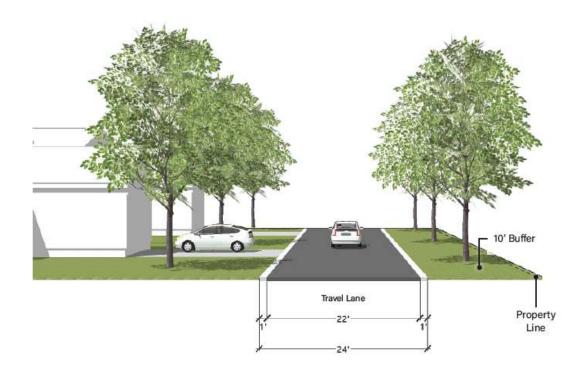




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5 – ALLEY WIDTH

ALLEY ROAD OPTION 1 - PARALLEL 24' ROW

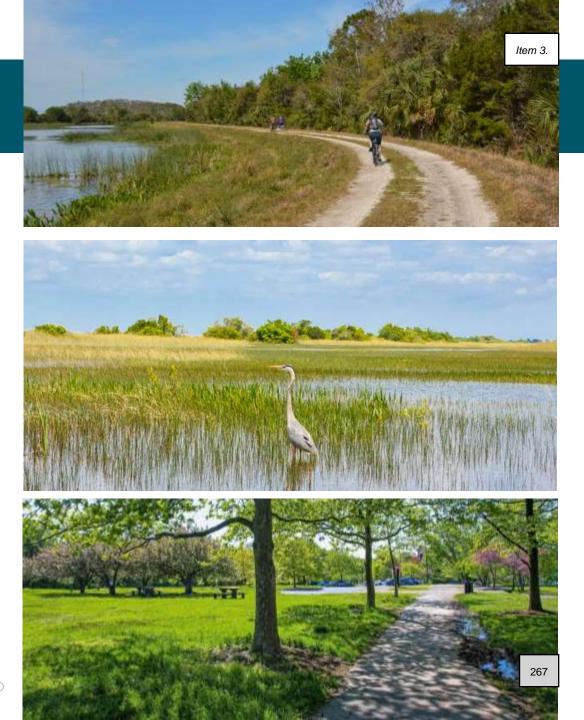


OPTION 2 - PAIRED 24' ROW



PUBLIC BENEFITS OF PROJECT

- Open Space: 69.4 AC (28.5%)
- 99% Wetland Preservation (±60.1 AC) & Eagle's Nest Buffer
- ± 23.0 AC of Parks/Amenity Areas
- On-site Active Recreational Amenities
- 12' Wide Multiuse Trail & Trail Head Site
- 90' Wide Collector Roadway
- Intersection Improvements at SR 19 & Revels Road



- CONSISTENT with the Comprehensive Plan & LDC
- CONTEXT-SENSITIVE Site Design
- ENVIRONMENTAL Preservation
- SUBSTANTIAL PUBLIC BENEFITS via roadway
 improvements, public parks & multi-use trail system

CONCLUSION MISSION RISE PUD

THANK YOU!

QUESTIONS?

Item 3.



TMHConsulting@cfl.rr.com 97 N. Saint Andrews Dr. Ormond Beach, FL 32174 PH: 386.316.8426

MEMORANDUM

TO:	Howey-in-the-Hills Planning Board
CC:	J. Brock, Town Clerk
FROM:	Thomas Harowski, AICP, Planning Consultant
SUBJECT:	Lake Hills Commercial Variance Requests
DATE:	February 2, 2024

The Town has received an application from Windcrest Development Group for the Lake Hills Commercial development seeking a variance from two regulations governing requirements in the Town's landscape regulations. The requested variances ask for relief from Section 7.04.02 which requires a minimum 10-foot wide landscaped area be provided along all sides of non-single family primary structures and from Section 7.05.01 (C) which requires a minimum 10-foot wide divider median abutting rows of parking. The requested variances are seeking complete elimination of both requirements.

The subject property is the commercial component of the approved Lake Hills Development. The applicant's are seeking approval to develop a 50,000 square foot grocery store, 8,400 square feet of additional retail space and four outparcels with uses to be determined. The applicaant has submitted an application for preliminary site plan approval for the grocery store and retail building, along with designation of the outparcel sites.

The requested variance from Section 7.04.02 will affect all buildings including the outparcel sites by allowing the elimination of any foundation landscaping. The requested variance from Sectiion 7.05.01 will affect the layout of the parking lots by allowing for angled parking with pull-through stalls.

The applicants have four options to address the code requirements. First, they can design the site layout in accordance with the current code. Secondly, they seek a varaince from the current regulations based on a demonstrated hardship unique to the property or building. This is the fastest option and the one the applicants have chosen. Thirdly the applicants could amend the master development agreement to include their desired design within the provisions of the planned unit development ordinance. Fourthly they could propose an amendment to the land development regulations to amend the code sections in question.

Applicant Statements

The applicants submited an application and supportive narrative that lays out their case for each variance. The arguments are summarized as follows:

Section 7.04.02 10-Foot Foundation Landscape Area

7.04.01 Landscaping Non-Single-Family Primary Structures

- A. A minimum 10-foot wide landscaped area shall be provided along all sides of the building, except the following:
 - 1. Where areas such as motor vehicle bays or loading zones would prohibit it
 - 2. In front of storefront windows that directly abut a pedestrian way
 - 3. Where the building is within 25 feet of a required landscaped buffer or natural areas which will be preserved.
- B. This required area shall be primarily comprised of shrubs, ornamental plants, and groundcovers. Turf should not be used in this area and trees that require more room for mature growth should not be placed close to buildings. Irrigation should be limited to drip or other components that will not spray towards the building or trap water near the building foundation. Hardscape, such as benches, sculpture, or planters, is encouraged within this area.
- C. Landscape materials required by this section should be located to achieve the following:
 - 1. Screen mechanical equipment, air conditioning units or any other visible outdoor equipment adjacent to the primary building
 - 2. Provide visual interest along building facades
 - 3. Enhance walkways, entrances, seating areas, and other similar pedestrian areas

The applicants state that the section

- Is an obstacle to ADA compliance.
- Could stimulate allergic responses and creates a trip and fall hazard
- Is impractical to maintain
- Presents a risk to structural integrity
- Clashes with the aesthetic look of the project.

Section 7.05.01 (C) Landscaped Divider Median

7.05.01 Parking Lots

The following requirements are established to provide shade and visual interest to parking lot areas. The Town will place emphasis on preserving existing trees and applicants will be expected to take existing trees into consideration when designing parking lots.

C. Divider medians. Landscaped divider medians shall form a continuous landscaped strip between abutting rows of parking. The minimum width of a divider median shall be 10 feet. Canopy trees at least 4 inches DBH at time of planting shall be spaced no fewer than one tree every 40 feet. Ground cover, shrubs, and understory trees shall also be included in divider medians.

The applicants state that the

- Islands are an inefficient use of space
- Adversely affect traffic flow and safety for drivers and pedestrians
- Create barriers to ADA compliance
- Increase maintenance costs
- Clash with the site aesthetics

Standards for Approval of A Variance

The standards for granting of a variance are presented in Section 4.13.04 and are reproduced below.

4.13.01 Standards in Granting a Variance

The Board of Adjustment may authorize a variance from the terms of this LDC as will not be contrary to the public interest where, owing to special conditions, a literal enforcement of the provisions of this Code will result in unnecessary and undue hardship. In authorizing a variance from the terms of this LDC, the Board of Adjustment shall find:

- A. That special conditions and circumstances exist which are peculiar to the land, structure or building involved, and which are not applicable to other lands, structures, or buildings in the same zoning district,
- B. That the special conditions and circumstances do not result from the actions of the applicant,
- C. That literal interpretation of the provisions of this LDC would deprive the applicant of rights commonly enjoyed by other properties in the same zoning district under the terms of this LDC and would work unnecessary and undue hardship on the applicant,
- D. That the variance created is the minimum variance that will make possible the reasonable use of the land, building or structure, and
- E. That the granting of the variance will be in harmony with the general intent and purpose of this LDC and that such variance will not be injurious to the area involved or otherwise detrimental to the public welfare.
- F. In granting any variance, the Board of Adjustment may prescribe appropriate conditions and safeguards in conformity with this LDC. Violation of such conditions and safeguards, when made a part of the terms under which the variance is granted, shall be deemed a violation of this LDC.

Discussion and Analysis

It is common for commercial developments to be developed without extensive foundation planting and to use a parking lot design that has angled, pull-through parking lot design, however, it is common to find both of these elements on commercial sites and in commercial parking lots. In preparing the development regulations, the Town included the foundatiion landscaping and the parking lot medians in an effort to increase the landscape appeal of non-single-family development. The key for the variance is to compare the applicant's statements with the criteria included in the ordinance.

That special conditions and circumstances exist which are peculiar to the land, structure or building involved, and which are not applicable to other lands, structures, or buildings in the same zoning district,

Given that the proposed project is on a site with no previous urban development, it is difficult to claim that there is a unique condition peuliar to the site that requires relief from the code. The applicant can simply design around either of the two issues raised in the application. If the Board is to recommend either or both variances, the Board will need to find that there is a condition unique to the building that supports the variance.

That the special conditions and circumstances do not result from the actions of the applicant,

Again this is a difficult criterion to meet given that the site is a new development site which the applicant has free reign to design in compliance with the code. As with the first criterion, the Board will need to base a recommendation for approval on some aspect of the building.

That literal interpretation of the provisions of this LDC would deprive the applicant of rights commonly enjoyed by other properties in the same zoning district under the terms of this LDC and would work unnecessary and undue hardship on the applicant,

The rules in question will apply to any commercial site plan presented for approval. The only commercial site plan approved by the Town to date is the plant nursery on SR 19 at Revels Road, and that project did include foundation plantings. That project did not have any head to head rows of parking that would have required the divider medians. The question for the Board to assess is would the application of the current rules create an unnecessary and undue hardship for the applicant. The conditions cited by the applicant may go to this issue.

That the variance created is the minimum variance that will make possible the reasonable use of the land, building or structure, and

Given that the applicants claim that either rule is negatively affecting the project, complete elimination of the requirement is the minimum relief needed.

That the granting of the variance will be in harmony with the general intent and purpose of this LDC and that such variance will not be injurious to the area involved or otherwise detrimental to the public welfare.

Given that both requested waivers are internal to the subject site and are consistent with commercial development sites in other communities, the relief requested is unlikely to be detrimental to the public welfare.

In granting any variance, the Board of Adjustment may prescribe appropriate conditions and safeguards in conformity with this LDC. Violation of such conditions and safeguards, when made a part of the terms under which the variance is granted, shall be deemed a violation of this LDC.

The Board does have the option of setting additional conditions that might be appropriate to the requests. As an example, since the primary purpose of the two regulations in question is to add landscaping to the site, the Board may wish to increase the level of perimeter landscaping, and/or require more landscaped islands in the planned parking area.

Based on the effects cited in the application for the variances, the staff has some additional comments for consideration:

- We question whether the inclusion of the divider median results in a less safe traffic layout than the option that allows pull through traffic mid-row. The layout with the divider median is likely less convenient for drivers as they would be required to go to the end of the row to access adjacent rows of parking. It is difficult to see how the pull-through parking stall design is safer for pedestrians.
- The site plan proposes 306 parking spaces. The minimum code requirement is 245 spaces, so the addition of the divider medians is unlikely to cause a shortfall in the parking required by code.
- As ADA design parking stalls are typically placed close to the building, it is difficult to see how the divider median design make compliance more difficult. If needed the Board could allow the divider median where accessible parking spaces are located to include sidewalks if necessary.
- There may be additional cost to maintain the added landscape area, but cost is not a criterion for determining the variance outcome.
- The project has not presented a particular aesthetic design proposal at this point in the review process. Where added landscaping is required by the rule, the applicant has wide latitude in selecting the plant material. The rule for

foundation planting is clear in the recommendation that trees not be applied in these areas to avoid building damage.

Summary

The applicant has asked for approval for variances from two landscape design regulations in the Town's code. The Board may consider each request independently when forming their recommendation to the Town Council. The applicants have provided their reasons why the variances should be granted, and the staff has provided an analysis of the requests. Basing the variance on any unique conditions demanded by the building may be the best option if the Board wishes to grant the variance. As noted, the Board may recommend additional conditions if the Board believes these are warranted to support a variance recommendation. For example, the Board could lessen the area required for foundation plantings and/or increase landscaping requirements elsewhere such as the added landscape islands noted previously.



VARIANCE APPLICATION Howey-in-the-Hills

PLEASE PRINT LEGIBLY

Property Owner (if there are multiple owners, please provide all the information on the attached ownership list):

Property Owner's Contact Information (If multiple owners, please provide mailing address, daytime phone, and fax and/or email for each owner):

First Owner:	Lake Harris (Orlando) ASLI VII Owner #1 LLC
Mailing Address:	923 N. Pennsylvania Ave., Winter Park, FL 32789
Daytime Phone:	
Second Owner:	
Mailing Address:	
Fax and/or Email:	
If more than two owners,	please attach additional information,
Applicant (If different from	n owner): <u>WindCrest Development Group, Inc.</u> Tom Murray, Principal
Mailing Address:	605 E. Robinson St., Suite 340, Orlando, FL 32801
Daytime Phone:	(407) 219-3540
	traverse Quinderecting and

Fax and/or Email: tmurray@windcrestinc.com

If the Applicant does not own the property, or is not the sole owner, please complete the Authorized Agent Affidavit form, attached.

If the Applicant is Not the Owner of the Property, is the Applicant:

- _____ A Tenant
- ____ An Authorized Agent for the Owner
 - _____ Other (please explain): __

Property's Physical Address: <u>North corner</u>, intersection of CR-48 and SR-19 The attached Verified Legal Description Form must also be completed as part of the application.

A survey of the property, showing all current improvements on the site, to scale, is required as part of the application submittal. The survey can be no larger than 11" X 17" in size.

An additional copy of the survey or a site plan drawn to scale should be included as part of the application which specifically shows any improvements that are being requested as part of the variance. Again, this site plan can be no larger than 11" X 17" in size.

Property Information: Tax Parcel ID: 23-20-25-0004-000-00200 Alt Key #: 1780438

Please identify below the current land uses located on the site and all adjacent properties. For example, land uses would be identified as single family home, office, grocery store, etc.

Subject Site:	Abandoned cit	rus		
Adjacent property to the North: Adjacent property to the South:		Vacant CR-48 and golf		
Adjacent proper	-	SR-19 and vacant		
Adjacent property to the West:		Abandoned citrus		
Does the proper	rty currently have			
Town W	ater:	X YES	NC)
Central S	Sewer:	YES	<u> X </u>)
Potable	Water Well:	YES	_X NC)
Septic T	ank:	YES	<u> </u>)

How long has the current owner owned the property? 2013 - current Please attach property tax records or other documentation to verify how long the current owner has owned the property.

What specific Code requirement is the applicant seeking a variance from?

- 1. Sec. 7.04.02
- 2. Sec. 7.05.01 (C)

What, in the applicant's point of view, are the specific special conditions or circumstances that exist on the property?

Please see attached.

What, in the applicant's point of view, is the unnecessary and undue hardship that exists to provide justification for the variance?

Please see attached.

The applicant should provide any additional information that may be helpful to the Town in rendering a decision on the requested variance.

Please see attached.

Additional information may be necessary. The applicant is required to provide a daytime telephone number where he/she can be reached.

The applicant is required to provide the names and mailing addresses of all property owners within 300 feet of the subject property, in the form of mailing labels. Three (3) sets of labels are required. These names and addresses may be obtained from the Lake County Property Appraiser's Office.

The Town will also provide a sign which must be posted on the subject property, visible from the adjacent right-of-way or road access. The sign must be posted at least one week prior to the Planning and Zoning Board meeting where this application will be on the agenda and the sign must remain posted until the Town Council public hearing.

A \$400 application fee is due and payable at the time this application is submitted to the Town. In addition to this application fee, a \$1,000 review deposit is required. By signing this application, the applicant acknowledges that the \$400 application fee covers advertising costs, mailings, and the time spent on the application by the Town Clerk. The applicant also acknowledges by his/her signature below that he/she understands he or she will be responsible for any additional costs that the Town incurs as a result of having Town consultants review the application. Once those additional costs are paid by the applicant, the Town will return the balance of the \$1,000 review deposit to the applicant. By signing this application, the applicant also acknowledges that he/she understands that variances expire if not acted upon within the timeframes outlined in the Town's Land Development Regulations.

Witnesses:

Name Signature and Kerkhan

Applicant:

Tom Murray, Principal Print Name

Please hand deliver completed application and fee to:

Town Clerk Town of Howey in the Hills 101 N. Palm Avenue Howey in the Hills, FL 34737

Please make application fee and review deposit checks payable to the Town of Howey in the Hills.

The Town Clerk may be reached at 352-324-2290 or by visiting Town Hall during normal business hours.

FOR TOWN CLERK OFFICE USE ONLY
Date Received:
 3 sets of labels attached? current survey attached? site plan attached showing proposed improvements? verified legal description form attached? authorized agent affidavit attached? ownership list attached?
APPLICATION NO.
Reviewed and Accepted By:
Provided to Town Planner on:
Planning & Zoning Board meeting date:
Town Council meeting date:

Seeking variance to delete foundation plantings as required by Code Sec. 7.04.02

1. Compliance with ADA Accessibility:

- **Special Condition:** Obstacles to ADA compliance.
- **Circumstances:** Foundation plantings are identified as obstacles to ADA compliance, hindering accessibility. The removal of these plantings is proposed to ensure that the property is accessible to all individuals without any hindrance, aligning with ADA requirements. The removal of the foundation plantings ensures the property is accessible to all individuals without hindrance.

2. Health and Safety Concerns:

- Special Condition: Presence of safety hazards.
- **Circumstances:** The applicant expresses concerns about health and safety issues associated with certain plants, including allergies to customers that are not known, and attraction of pests. Foundation plantings can be more susceptible to increased risk of trip and fall injuries. Removal is advocated as a measure to mitigate these risks and ensure a safer environment.

3. Unique Property Characteristics:

- Special Condition: Unique features or constraints.
- **Circumstances:** The limited space between the building and sidewalks is highlighted as a unique characteristic making it impractical to maintain foundation plantings. Compliance is argued to create undue hardship due to these unique property characteristics.

4. Structural Integrity:

- **Special Condition:** Risk to building structure.
- **Circumstances:** There are potential risks posed by the foundation plantings to the structural integrity of the building. The removal is necessary to prevent possible future damage to the foundation or other essential structures.

5. Aesthetic or Design Considerations:

- Special Condition: Clash with intended aesthetic.
- **Circumstances:** Foundation plantings are asserted to clash with the intended aesthetic and design plans for the property. Removal is presented as a solution to avoid undue hardship in achieving the desired vision for the property.

Seeking variance to delete landscape divider islands, as required by Code Sec. 7.05.01 (C)

1. Space Utilization:

- Special Condition: Limited available land.
- Circumstances: The applicant asserts that the available land is restricted, and the presence of landscape islands represents an inefficient use of space. Removing the islands is deemed necessary to optimize space utilization, accommodating the required parking demand for the shopping center use.

2. Traffic Flow and Safety:

- Special Condition: Impact on traffic flow.
- Circumstances: The applicant argues that the landscape islands adversely affect traffic flow within the parking lot. Removal is proposed to enhance vehicular movement, reduce congestion, and improve overall safety for drivers and pedestrians, especially those using shopping carts.

3. ADA Accessibility:

- Special Condition: Obstacles to ADA compliance.
- Circumstances: The applicant points out that the landscape islands create barriers to compliance with the Americans with Disabilities Act (ADA), specifically in relation to accessible parking spaces. Removing the islands is presented as a solution to ensure ADA requirements are met without hindrance.

4. Cost Considerations:

- Special Condition: Ongoing costs for maintenance.
- Circumstances: The applicant emphasizes the economic aspect, stating that maintaining landscape islands incurs ongoing costs related to landscaping, irrigation, and maintenance. The proposal suggests that removing the islands would result in cost savings for both the property owner and users of the parking facility.

5. Property Design and Aesthetics:

- Special Condition: Conflict with property design.
- Circumstances: The presence of landscape islands is said to conflict with the overall design and aesthetics of the property. Removal is advocated to create a more cohesive and visually appealing parking layout that aligns with the desired aesthetic for the shopping center.



Authorized Agent Affidavit

STATE OF FLORIDA COUNTY OF LAKE

Before me, the undersigned authority, this day personally appeared **homes** Murray hereinafter "Owner", and Tom Murray, Principal hereinafter "Applicant", who, being by me first duly sworn, upon oath, depose and sayS."

- 1. The Applicant is the duly authorized representative of the Owner, on the real property as described and listed on the pages attached to this affidavit and made a part of hereof.
- 2. That all Owners have given their full and complete permission for the Applicant to act in their behalf as set out in the accompanying application.
- 3. That the attached ownership list is made a part of the Affidavit and contains the legal description(s) for the real property, and the names and mailing addresses of all Owners having an interest in said land.

FURTHER Affiant(s) sayeth not.

My Commission Expires:

01-10-2024 Sworn to and subscribed before me Owner, (Authorized Agent) 10th day of Jan 20. Notary Public State of Florida at Large **NICOLE MARTIN** My Commission Expires: Commission # HH 249622 Expires August 5, 2026 Sworn to and subscribed before me this _ day of _____, 20____ Owner Notary Public State of Florida at Large My Commission Expires: Sworn to and subscribed before me this ____ day of _____, 20___ Owner Notary Public State of Florida at Large My Commission Expires: Sworn to and subscribed before me this _____ day of ______, 20____ Owner Notary Public State of Florida at Large





Owner's Name: Ownership Interest:	Lake Harris (Orlando) ASLI VII Owner #1 LLC	
Mailing Address: 923 N. Pennsylvania Ave. Winter Park, FL 32789		
Legal Description:		
	(dthorized Agent) 01-10-2024 Date	
The foregoing instrum Thomas Murra	tent was acknowledged before me on <u>1/10/24</u> by who is <u>personally known to me</u> or has presented as identification and who did or did not	
Commissio	E MARTIN n#HH 249622 ugust 5, 2026 × Micole Martin	
Seal	Notary Fublic	
*****	************	
Owner's Name: Ownership Interest: Mailing Address:		
Legal Description:		
Signature	Date	
The foregoing instrum	ent was acknowledged before me on by who is personally known to me or has presented	
take an oath.	as identification and who did or did not	
Seal	Notary Public	

MULTIPLE COPIES OF THIS FORM MAY BE MADE AND ATTACHED AS NECESSARY.

RE: Project Name: TBD Grocery Parcel #23-20-25-0004-000-00200, Alt Key #1780438

To Whom It May Concern:

I hereby authorize WindCrest Development Group, Inc. (APPLICANT) and Madden, Moorhead & Stokes, LLC (ENGINEER) to apply for and obtain permits from County/City Government, Water Management District, Florida Department of Environmental Protection, Florida Department of Transportation, Army Corps of Engineers and any other municipality or regulatory entity requiring permits be issued.

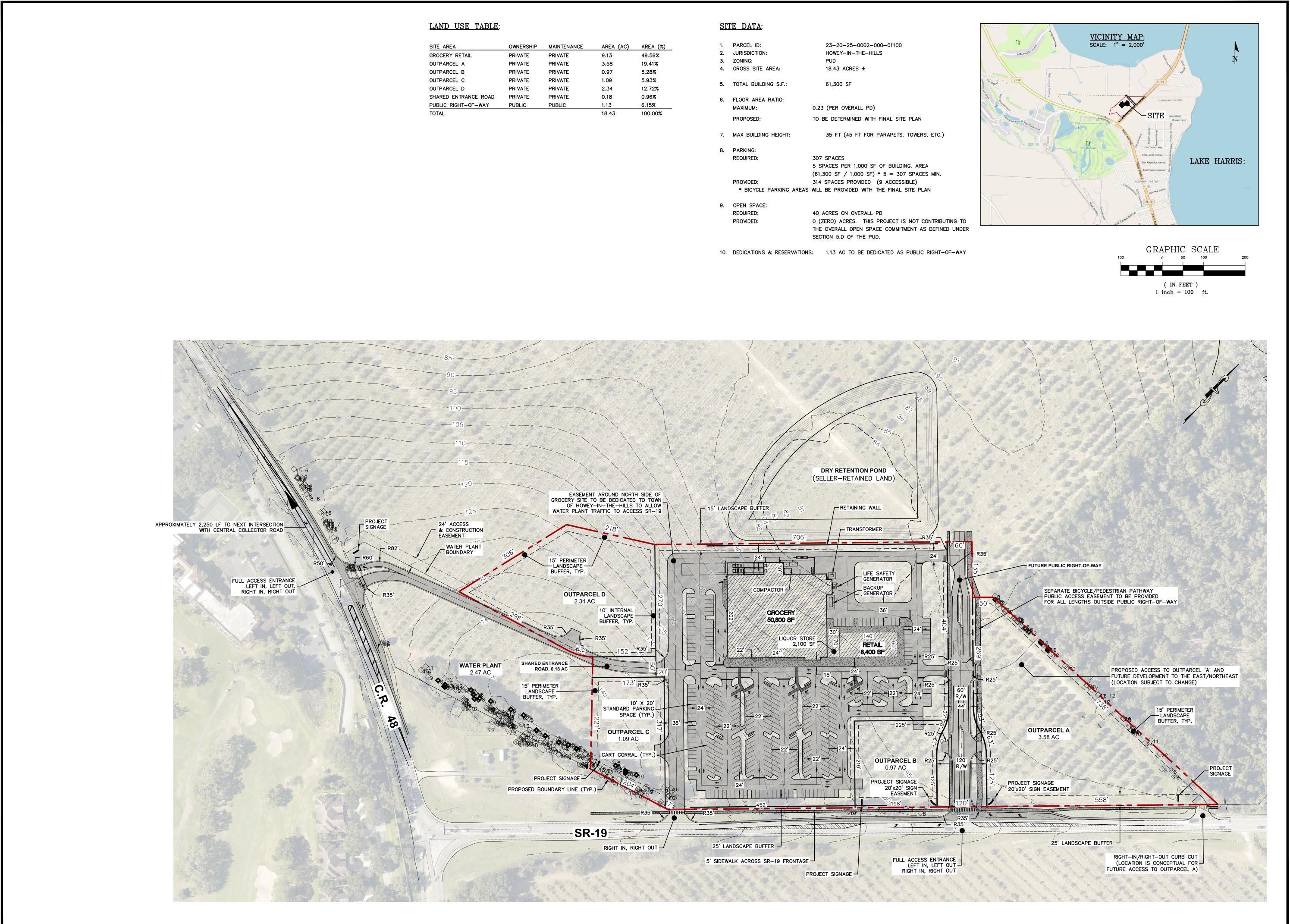
Owner Signature	10/6/2023 Date			
Print Name:	Ryan Lefkowitz, Vice President/Agent of Seller			
Print Phone #:	(407) 628-8488			
Print Email Address:	rlefkowitz@avantiprop.com			
For: LAKE HARRIS (ORLANDO) ASLI VII OWNER #1 LLC 923 N PENNSYLVANIA AVE WINTER PARK, FL32789				

Sworn to and subscribed before me this day of October 2023, by Ryan Lefkowitz . He/She is personally known to me or has produced identification. Type of identification

Notary Public Signature

Name: Margaret Hill Commission No: HH 242771 Commission Expires: March 21, 2026

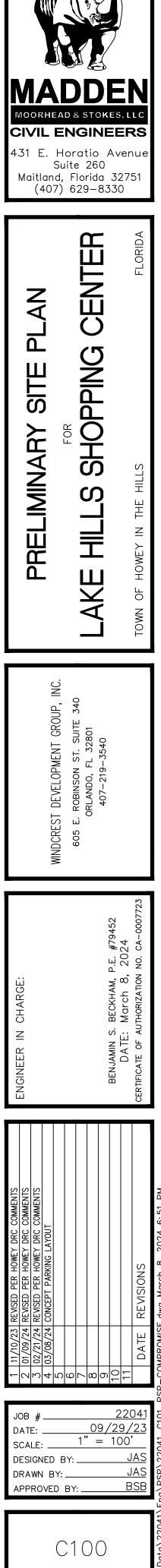




SITE AREA	OWNERSHIP	MAINTENANCE	AREA (AC)	AREA (%)
GROCERY RETAIL	PRIVATE	PRIVATE	9.13	49.56%
OUTPARCEL A	PRIVATE	PRIVATE	3.58	19.41%
OUTPARCEL B	PRIVATE	PRIVATE	0.97	5.28%
OUTPARCEL C	PRIVATE	PRIVATE	1.09	5.93%
OUTPARCEL D	PRIVATE	PRIVATE	2.34	12.72%
SHARED ENTRANCE ROAD	PRIVATE	PRIVATE	0.18	0.96%
PUBLIC RIGHT-OF-WAY	PUBLIC	PUBLIC	1.13	6.15%
TOTAL			18.43	100.00%

•	PARCEL ID: JURISDICTION: ZONING: GROSS SITE AREA:	23-20-25-0002-000-01100 HOWEY-IN-THE-HILLS PUD 18.43 ACRES ±
•	TOTAL BUILDING S.F.:	61,300 SF
•	FLOOR AREA RATIO: MAXIMUM:	0.23 (PER OVERALL PD)
	PROPOSED:	TO BE DETERMINED WITH FINAL SITE PLAN
•	MAX BUILDING HEIGHT:	35 FT (45 FT FOR PARAPETS, TOWERS, ETC.)
•	PARKING:	
	REQUIRED:	307 SPACES 5 SPACES PER 1,000 SF OF BUILDING. AREA (61,300 SF / 1,000 SF) * 5 = 307 SPACES MIN.
	PROVIDED: * BICYCLE PARKING AREAS	314 SPACES PROVIDED (9 ACCESSIBLE) WILL BE PROVIDED WITH THE FINAL SITE PLAN
	OPEN SPACE:	
	REQUIRED:	40 ACRES ON OVERALL PD
	PROVIDED:	0 (ZERO) ACRES. THIS PROJECT IS NOT CONTRIBUT THE OVERALL OPEN SPACE COMMITMENT AS DEFINED SECTION 5.D OF THE PUD.
0.	DEDICATIONS & RESERVATIONS	: 1.13 AC TO BE DEDICATED AS PUBLIC RIGHT-C







TMHConsulting@cfl.rr.com 97 N. Saint Andrews Dr. Ormond Beach, FL 32174 PH: 386.316.8426

MEMORANDUM

TO:	Howey-in-the-Hills Planning Board
CC:	J. Brock, Town Clerk
FROM:	Thomas Harowski, AICP, Planning Consultant
SUBJECT:	Lake Hills Commercial Development
DATE:	February 13, 2024

The Town has received an application for Preliminary Site Plan Approval for the commercial portion of the Lake Hills Development. This project is governed by Ordinance 2011-008, Ordinance 2015-005 and a development agreement recorded February 24, 2016 in addition to the land development code including Section 4.03 which addresses site plan review. The commercial portion of the project runs along the SR-19 frontage from the location of the Town's new water plant east to the eastern edge of the subject property. The adopted development agreement designates the commercial area within the larger Lake Hills project, and the preliminary site plan under consideration will locate the buildings, roads, parking areas, landscaping and other features of the project in sufficient detail to assess compliance with the Town codes. The final site plan will complete the project detail based on final engineering, landscaping and other site improvements.

The project proposes a grocery store (50,800 square feet), a liquor store (2,100 square feet) and a retail building of 8,400 square feet. The project will also include four outparcels as follows:

Outparcel A	3.58 acres
Outparcel B	0.97 acres
Outparcel C	1.09 acres
Outparcel D	2.34 acres

The project includes an entry road from SR 19 that separates Outparcel A from the balance of the tract and also serves as a primary entrance to the residential development parcel. The commercial site includes an entrance from CR 48 along side the Town's water plant site. Outparcel A also includes a conceptual access to the properties to the east of the Lake Hills Project. The intent of this access is to allow future development in that area to access the commercial development without the necessity of driving on SR 19. The development agreement specifically cites grocery stores, retail sales and services, restaurants and offices as permitted uses, and the uses identified to date fall within the list of permitted uses. When proposals are submitted for the outparcels, the permitted uses will be examined at that time. Note that convenience stores with fuel sales are permitted in the project.

The commercial devlopment is part of the larger Lake Hills development which has been determined to meet the minimum requirements for a Village Mixed Use development. In addition to the residential and commercial components, the larger project includes private community recreation faciliteis, a four-acre public park and a bicycle/pedestrian link along the primary collector road connecting SR 19 with CR 48 through the main residential portion of the project. Additionally, the Town has purchased a 3.23-acre tract for new wells and a water treatment plant. This facility is currently under construction. The Lake County School Board has also purchased a 22-acre site at the northwest corner of the project for eventual development of an elementary school. However, no planned school improvements are programmed for at least the next five years.

The commercial project has been reviewed by the Town's Development Review Committee for compliance with the development agreement, compliance with the Town codes, and compliance with the Village Mixed Use development rules. The project includes several proposals that are not compliant with Town codes and the adopted development agreement. The applicant is seeking approval from the Town to vary from the affected requirements for parking lot design and some foundation planting landscape requirements. These items, along with some other items will be suggested as conditions to the Planning Board action.

Concurrency Review

At the preliminary site plan stage, a review is conducted to determine if sufficient capacity is available to support the public services rrequired by the project. At this stage the Town conducts a planning level review; no certificate of concurrency will be issued until the final site plan is approved. The key concurrency items are potable water, sanitary sewer, storm water management and traffic. The findings are as follows:

<u>Potable Water</u>: With the completion of the new wells and water treatment plant, the Town will have adequate water volume and water presure to support the proposed project.

<u>Sanitary Sewer</u>: Sewer is not currently available to the site. Capacity may be available from the Central Lake Community Development Distric (CDD) or potentially from other options currently under consideration by the Town Council. If timing becomes an issue, the applicants have indicated they may propose an on-site treatment facility as an interim option. The sewer service issue will need to be resolved before a final site plan can be approved.

<u>Storm Water Management</u>: Storm water treatment will be provided in a retention area to be constructed to the north of the commercial tract in a facility that will be shared by the

commercial and residential development. The two projects will need to provide the Town with sufficient documentation to ensure access to the off-site retention area. The size of the retention area is an engineering issue that will be reviewed by the Town's engineer and reviewed and permitted by the St. Johns River Water Management District.

<u>Traffic</u>: The applicant submitted a traffic study that covered both the commercial and residential portions of the development. The study included existing traffic, growth in background traffic that is a normal part of traffic movement, and other development projects that have been approved. These projects include:

- Talichet Phases 1 and 2 (2023)
- Whispering Heights (2023)
- Drake Point (Unicorporated Lake County) (2025)
- The Reserve (All components) (2028)
- Watermark (2027)

While other developments in and around Howey have been discussed, and in some cases preliminarily reviewed, none of these projects have received any level of formal approval. These projects will rank behind the Lake Hills development in the pecking order for traffic capacity. The traffic study uses very compressed time lines for each of the background projects (as noted by the dates in parentheses) and for the subject project (both commercial and residential) at 2028. Actual traffic impacts will certainly extend over a longer period of time giving more opportunity to address identified needs.

The traffic study made recommendations in three areas including impacts to road segments, impacts to intersections and access control design. The impacts can be addressed as follows:

- SR-19 from CR 561 to Central Avenue is projected to operate over the designated level of service. In part, this segment can be addressed through a reclassification of the link in the FDOT system. The segment is mis-calssified and should have a higher designated capacity. There is a current project to widen SR-19 to four lanes from CR 561 to Citrus Avenue. The project is currently funded through the PD&E stage and the segment will eventually move through construction.
- SR 19 from CR 455 to US 27 is another segment that would operate within the designated level of service if the link was properly classified in the FDOT system.
- The intersection of SR 19 and CR 48 falls below the adopted level of service with delays generated by a traffic signal. The traffic study examined the intersection with a roundabout traffic control and found that it would operate within the designated level of service under that scenario. FDOT has determined that the intersection should be managed with a roundabout, and the applicant will be required to contribute funding to the project equivalent to its fair share of the traffic generation.
- The intersection of SR-19 at Central Avenue can be addressed with a traffic signal, and the Town has been working with FDOT to review a warrant study for

installation of a full signal. This project does not generate traffic on the eastbound approach which is the source of the problem.

- The intersection of SR 19 with the project east entrance, which serves both the commercial and residential portions of the project, will initially operate with stop sign control, but will eventually need a signal upgrade. The signal will be provided by the commercial and residential project components. There is some discussion about using a roundabout at this project entrance as well as at the intersection with CR 48. The proposed project will need to fund the final option selected.
- In reviewing site access, turn lanes will be required at all interesections based on the design and permitting requirements of FDOT for SR-19 and Lake County for CR-48. Part of the access mangement review will include an analysis of right-ofway increases if any are required. If right-of-way is needed, the projects will be expected to provide that area as part of the permitting process.

Discussion and Conditions

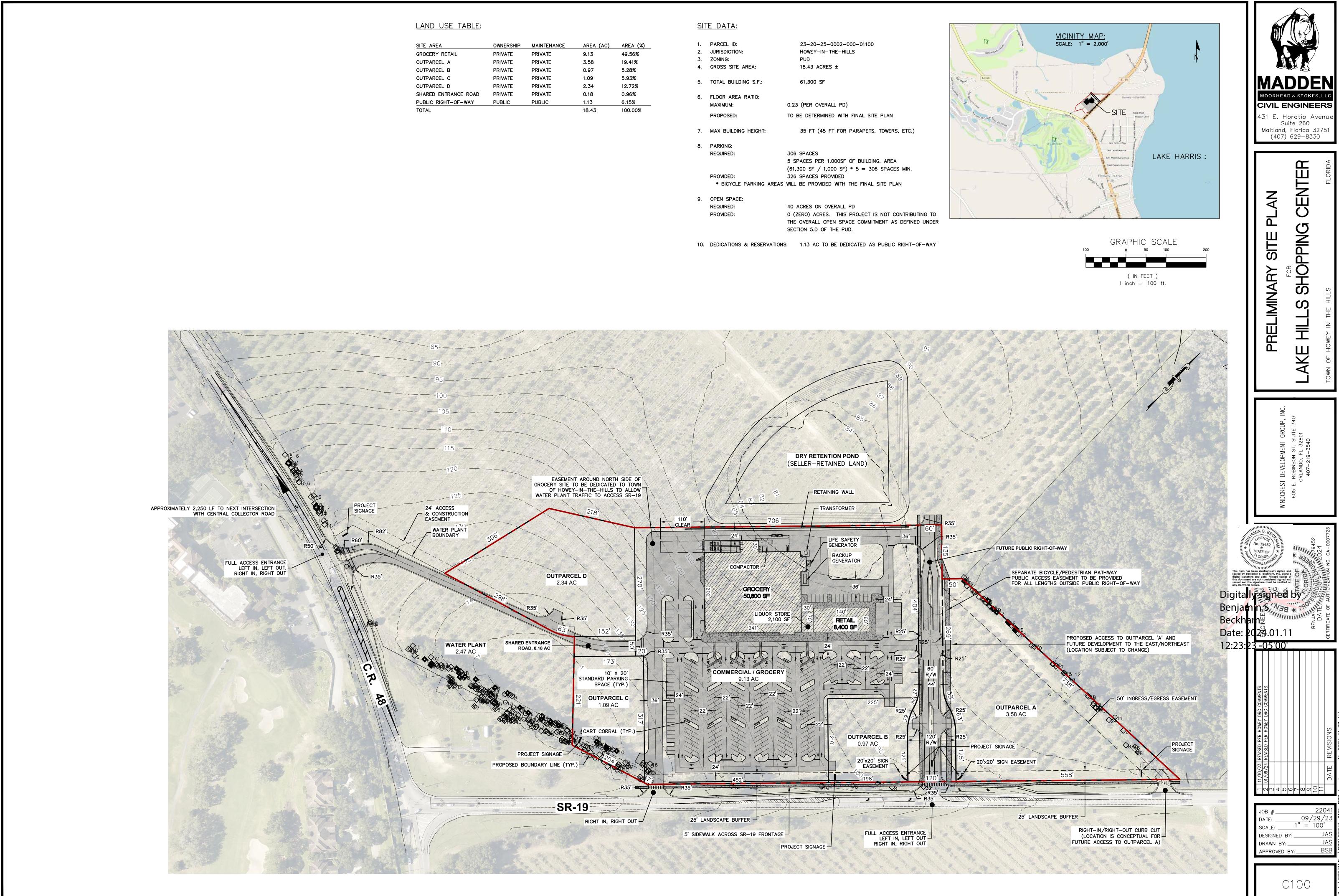
The proposed commercial development is consistent with approved Lake Hills adopting ordinance and development agreement with regard to the location of commercial uses and the type of uses proposed. The most recent version of the preliminary site plan does not fully comply with the land development code and the development agreement. Therefore any recommendation for approval offered by the Planning Board should include a set of conditions addressing these items. The conditions offered for consideration include:

- Redesign of the parking lot layout to include landscaped medians between facing rows of parking stalls (Section 7.05.01) unless the requested variance is approved. The applicants are proposing a design with no medians between rows of parking stalls.
- 2. Foundation plantings around buildings (Section 7.04.02) be provided unless the requested variance is given.
- 3. Perimeter buffers of 10-feet or 15-feet as required be provided along the north side of the parent parcel and along the perimeter of each proposed outparcel. The applicant has agreed to this condition.
- 4. A 10-foot landscaped buffer be provided along the interior parcel lines between the parent parcel and the outparcels. The applicant has agreed to this condition.
- 5. In areas where existing trees are to be retained, no grade change or only minor grade change be allowed to support the tree preservation. Tree preservation areas are along the east side of Outparcel A and the south property line of Outparcel C, so preservation should be reasonably completed. The applicant is proposing removal of seven trees to allow for the driveway construction alongside Outparcel C. The applicant has agreed to this condition.

- 6. The access point to Outparcel C from the entrance drive be shifted further north. The applicant has agreed to this condition.
- 7. The sidewalk on SR 19 in front of Outparcel C be constructed with any improvements to Outparcel C. The sidewalk is required of the applicant, but the timing is being adjusted to allow for the final resolution of the SR-19 and CR 48 intersection. The applicant has agreed to this condition.
- The applicant needs to calculate the "fair share" cost of its impact on the SR-19 and CR-48 intersection and provide the payment for use in intersection improvements. Design and construction will be coordinated with FDOT and Lake County.
- 9. The applicant needs to provide an adequate guarantee for improvements to the east entrance of the project from SR 19. This guarantee can be done in conjunction with the residential development component. These improvements are solely project related and the funding contributions need to be assured if the intersection upgrades do not occur with the initial construction. The traffic study recommendations suggest signalization may not be warranted with the initial project phases.
- 10. The applicant will provide at its cost the access controls required by FDOT for SR-19 and Lake County for CR-48 as part of their respective permitting process. These items will include turn lanes, deceleration lanes, and other access controls and, if necessary, right-of-way required by the permitting agencies.

Recommendation

The staff recommends approval of the preliminary site plan with the conditions noted above.



SITE AREA	OWNERSHIP	MAINTENANCE	AREA (AC)	AREA (%)
GROCERY RETAIL	PRIVATE	PRIVATE	9.13	49.56%
OUTPARCEL A	PRIVATE	PRIVATE	3.58	19.41%
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PUBLIC RIGHT-OF-WAY	PUBLIC	PUBLIC	1.13	6.15%
TOTAL			18.43	100.00%

•	PARCEL ID: JURISDICTION: ZONING: GROSS SITE AREA:	23-20-25-0002-000-01100 HOWEY-IN-THE-HILLS PUD 18.43 ACRES ±
•	TOTAL BUILDING S.F.:	61,300 SF
•	FLOOR AREA RATIO: MAXIMUM: PROPOSED:	0.23 (PER OVERALL PD) TO BE DETERMINED WITH FINAL SITE PLAN
•	MAX BUILDING HEIGHT:	35 FT (45 FT FOR PARAPETS, TOWERS, ETC.)
•	PARKING:	
	REQUIRED:	306 SPACES
		5 SPACES PER 1,000SF OF BUILDING. AREA (61,300 SF $/$ 1,000 SF) * 5 = 306 SPACES MIN.
	PROVIDED:	326 SPACES PROVIDED
	* BICYCLE PARKING AREAS	WILL BE PROVIDED WITH THE FINAL SITE PLAN
	OPEN SPACE:	
	REQUIRED:	40 ACRES ON OVERALL PD
	PROVIDED:	0 (ZERO) ACRES. THIS PROJECT IS NOT CONTRIBUT THE OVERALL OPEN SPACE COMMITMENT AS DEFINED SECTION 5.D OF THE PUD.
0.	DEDICATIONS & RESERVATIONS	S: 1.13 AC TO BE DEDICATED AS PUBLIC RIGHT-O



RE: Project Name: TBD Grocery Parcel #23-20-25-0004-000-00200, Alt Key #1780438

To Whom It May Concern:

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Owner Signature	10/6/2023 Date
C.C.	
Print Name:	Ryan Lefkowitz, Vice President/Agent of Seller
Print Phone #:	(407) 628-8488
Print Email Address:	rlefkowitz@avantiprop.com
For: LAKE HARRIS (ORLAND 923 N PENNSYLVANIA A WINTER PARK, FL32789	
Sworn to and subscribed I 2023, by Ryan Lefk	

as produced identification. Type of identification

Notary Public Signature

Name: Margaret Hill Commission No: HH Z42771 Commission Expires: March 21, 2026



Tree Table See sheet 2 for tree location

TREE TABLE		
POINT #	DESCRIPTION	
74	CAMP 6	
76	CAMP 6	
256	CAMP 6	
272	CAMP 6	
283	CAMP 6	
307	CAMP 6	
75	CAMP 7	
243	CAMP 7	
369	CAMP 7	
395	CAMP 7	
402	CAMP 7	
248	CAMP 8	
249	CAMP 8	
261	CAMP 8	
267	CAMP 8	
277	CAMP 8	
289	CAMP 8	
303	CAMP 8	
308	CAMP 8	
251	CAMP 9	
311	CAMP 10	
391	CAMP 10	
398	CAMP 10	
397	CAMP 11	
242	CAMP 12	
389	CAMP 12	

TREE TABLE	
POINT #	DESCRIPTION
119	OAK 6
121	OAK 6
122	OAK 6
134	OAK 6
154	OAK 6
159	OAK 6
176	OAK 6
205	OAK 6
211	OAK 6
257	OAK 6
263	OAK 6
276	OAK 6
280	OAK 6
285	OAK 6
287	OAK 6
288	OAK 6
291	OAK 6
293	OAK 6
296	OAK 6
310	OAK 6
373	OAK 6
382	OAK 6
21	OAK 7
104	OAK 7
106	OAK 7
147	OAK 7

TREE TABLE	
POINT #	DESCRIPTION
191	OAK 8
199	OAK 8
234	OAK 8
286	OAK 8
301	OAK 8
309	OAK 8
321	OAK 8
368	OAK 8
370	OAK 8
19	OAK 8 6
7	OAK 9
83	OAK 9
169	OAK 9
220	OAK 9
221	OAK 9
236	OAK 9
238	OAK 9
273	OAK 9
378	OAK 9
316	OAK 9 5
2	OAK 10
16	OAK 10
17	OAK 10
23	OAK 10
31	OAK 10
43	OAK 10

TREE TABLE	
POINT #	DESCRIPTION
337	OAK 12
350	OAK 12
371	OAK 12
384	OAK 12
401	OAK 12
3	OAK 13
14	OAK 13
24	OAK 13
25	OAK 13
28	OAK 13
30	OAK 13
132	OAK 13
192	OAK 13
194	OAK 13
228	OAK 13
254	OAK 13
387	OAK 13
10	OAK 14
22	OAK 14
26	OAK 14
79	OAK 14
217	OAK 14
338	OAK 14
339	OAK 14
359	OAK 14
9	OAK 15

.

TREE TABLE		
POINT #	DESCRIPTION	
8	OAK 24	
252	OAK 24	
330	OAK 24	
98	OAK 27	
49	OAK 32	
50	OAK 32	
72	OAK 32	
42	OAK 42	
297	PALM 12	
340	PALM 12	
365	PALM 12	
39	PALM 13	
47	PALM 14	
298	PALM 14	
40	PALM 15	
41	PALM 16	
1	PALM 18	
173	PINE 6	
178	PINE 6	
181	PINE 6	
165	PINE 7	
166	PINE 7	
184	PINE 7	
278	PINE 7	
158	PINE 8	
196	PINE 8	

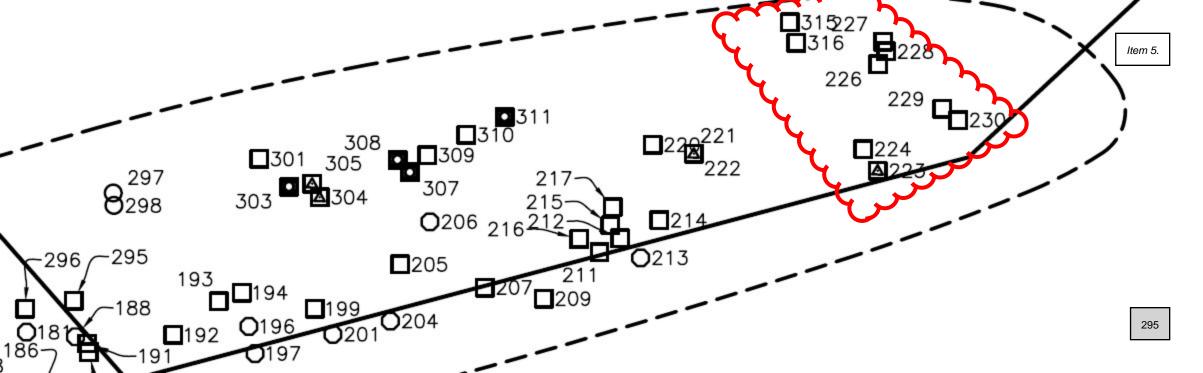
394	CAMP 12	
73	CAMP 13 12	
86	CHERRY 6	
87	CHERRY 6	
94	CHERRY 6	
95	CHERRY 6	
135	CHERRY 6	
140	CHERRY 6	
143	CHERRY 6	
144	CHERRY 6	
153	CHERRY 6	
319	CHERRY 6	
89	CHERRY 7	
109	CHERRY 7	
115	CHERRY 7	
222	CHERRY 7	
223	CHERRY 7	
304	CHERRY 8	
318	CHERRY 8	
90	CHERRY 9	
91	CHERRY 9	
247	CHERRY 9	
93	CHERRY 9 6	
108	CHERRY 10	
145	CHERRY 10	
305	CHERRY 12	
45	OAK 6	
99	OAK 6	
100	OAK 6	

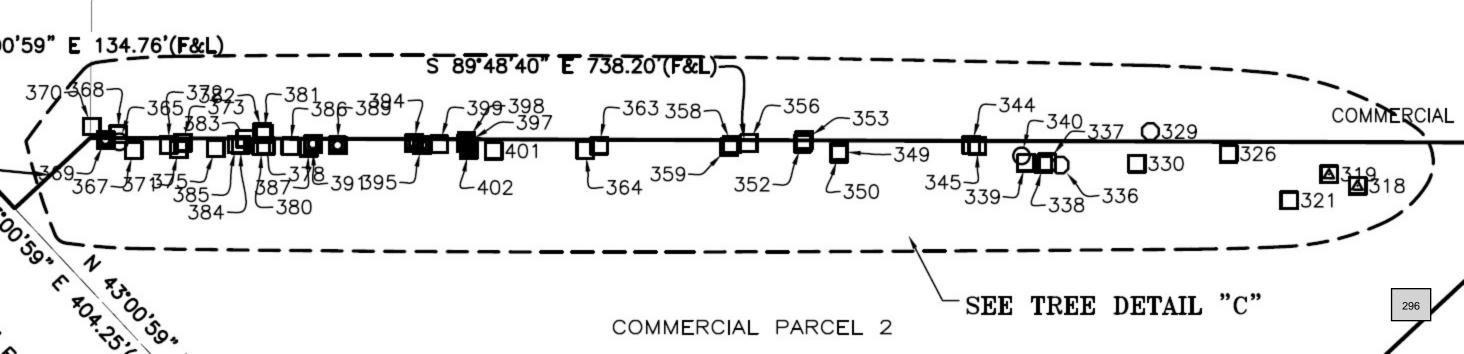
148	OAK 7
151	OAK 7
167	OAK 7
216	OAK 7
227	OAK 7
229	OAK 7
230	OAK 7
264	OAK 7
295	OAK 7
315	OAK 7
367	OAK 7
372	OAK 7
375	OAK 7
380	OAK 7
381	OAK 7
399	OAK 7
20	OAK 8
46	OAK 8
48	OAK 8
101	OAK 8
120	OAK 8
124	OAK 8
126	OAK 8
142	OAK 8
162	OAK 8
170	OAK 8
185	OAK 8
186	OAK 8
187	OAK 8

44	OAK 10
92	OAK 10
97	OAK 10
157	OAK 10
172	OAK 10
182	OAK 10
209	OAK 10
212	OAK 10
214	OAK 10
215	OAK 10
224	OAK 10
226	OAK 10
235	OAK 10
363	OAK 10
385	OAK 10
5	OAK 11
6	OAK 11
27	OAK 11
29	OAK 11
82	OAK 11
231	OAK 11
237	OAK 11
245	OAK 11
383	OAK 11
13	OAK 11 7
15	0AK 12
32	OAK 12
105	OAK 12
112	OAK 12

11	OAK 15
103	OAK 15
269	OAK 15
294	OAK 15
345	OAK 15
353	OAK 15
33	OAK 15 6
18	OAK 16
127	OAK 16
128	OAK 16
130	OAK 16
207	OAK 16
233	OAK 16
317	OAK 16
386	OAK 16
12	0AK 17
160	OAK 17
349	OAK 17
356	OAK 17
364	OAK 17
352	OAK 17 12
80	OAK 18
244	OAK 18
113	OAK 19
193	OAK 19 7
4	OAK 20
344	OAK 20
358	OAK 20
326	OAK 22

197	PINE 8
201	Item 5.
206	
213	PINE 8
110	PINE 9
137	PINE 9
138	PINE 9
174	PINE 9
177	PINE 9
279	PINE 9
136	PINE 10
141	PINE 10
183	PINE 10
336	PINE 10
139	PINE 11
155	PINE 11
188	PINE 11
204	PINE 11
270	PINE 11
329	PINE 11
150	PINE 12
161	PINE 12
168	PINE 12
259	PINE 13
116	PINE 14
275	PINE 14
284	PINE 15
	294





PROPERTY RECORD CARD

General Information

Name:	LAKE HARRIS (ORLANDO) ASLI VII OWNER #1 LLC	Alternate Key:	1780438
Mailing Address:	923 N PENNSYLVANIA AVE WINTER PARK, FL 32789	Parcel Number: 🕡	23-20-25- 0004-000- 00200
	<u>Update Mailing Address</u>	Millage Group and City:	000H Howey in the Hills
		2023 Total Certified Millage Rate:	20.4342
		Trash/Recycling/Water/Info:	<u>My Public</u> Services Map (
Property Location:	COUNTY ROAD 48 HOWEY IN THE HILLS FL, 34737	Property Name:	 <u>Submit Property</u> <u>Name</u> (i)
		School Information:	School Locator & Bus Stop Mar School Boundary Maps
	1/4 OF SE 1/4, RUN N 000 WATERS EDGE OF LAKE 89DEG 35MIN 28SEC W TO S'LY WATERS EDGE O S'LY WATERS OF LAKE H SOUTHWEST CORNER O 1/4 OF SAID SECTION 23 GOVERNMENT LOT 8 RU LINE OF SAID LOT 8 A DI OF STATE ROAD 459, RU SAID CENTERLINE 259.1 THE POINT OF BEGINNIN TO A POINT ON THE NOF RUN THENCE EASTERLY 363.60 FEET TO THE POI OF WAY LINE WITH THE ROAD 459, RUN THENCE SAID WESTERLY RIGHT OF ADDITIONAL ROAD R CORNER OF THE SOUTH SOUTH RANGE 25 EAST A POINT ON THE NORTH 48, SAID POINT LYING OF HAVING A RADIUS OF 56 DISTANCE OF SOUTH 69 THE ARC OF SAID CURV OF WAY LINE 1188.29 FE NORTHERLY RIGHT OF V CURVATURE OF A CURV RADIUS OF 2341.83 FEE SOUTH 72-35-58 EAST 22 CURVE TO THE RIGHT A	ANGE 25 EASTLESS BEG AT SE (DEG 04MIN 21SEC E 1314.20 FT TO HARRIS & PT A, RETURN TO POE 1100 FT, N 00DEG 27MIN 54SEC E OF LAKE HARRIS, THENCE E'LY AL IARRIS TO PT A & LESS FROM THE OF THE SOUTHEAST 1/4 OF THE S , AND ALSO THE SOUTHEAST CO IN THENCE NORTHERLY ALONG T STANCE OF 567.40 FEET TO THE O IN THENCE SOUTH 46-47-00 WEST 3 FEET, NORTH 43-13-00 WEST 50 NG, RUN SOUTH 74-54-00 WEST 70 RTH RIGHT OF WAY LINE OF STAT (ALONG SAID NORTH RIGHT OF W NT OF INTERSECTION OF SAID N WESTERLY RIGHT OF WAY LINE OF SOF WAY LINE TO THE POINT OF B IGHT OF WAY & LESS FROM THE IWEST 1/4 OF SECTION 23 TOWN RUN NORTH 00-53-14 EAST 1171. IERLY RIGHT OF WAY LINE OF CO N A CURVE CONCAVE NORTHEAS 79.58 FEET AND A CHORD BEARIN 0-35-43 EAST 1186.12 FEET, THENC E TO THE LEFT AND SAID NORTH ET OTHE LEFT AND SAID NORTH ET ONCAVE SOUTHWESTERLY H. T AND A CHORD BEARING AND DI 23.25 FEET, THENCE ALONG THE // ND ALONG SAID NORTHERLY RIG E POINT OF BEGINNING, THENCE	D S'LY 3, RUN S 1484.76 FT ONG SAID E OUTHEAST RNER OF THE EAST CENTERLINE T ALONG 0 FEET FOR 42.75 FEET E ROAD 48, VAY LINE ORTH RIGHT ORTH RIGHT ORTH RIGHT OF STATE ET ALONG EGINNING SOUTHWES SHIP 20 08 FEET TO UNTY ROAD TERLY NG AND CE ALONG ERLY RIGHT SAID OF AVING A STANCE OF ARC OF SAIE HT OF WAY

SAID NORTHERLY RIGHT OF WAY LINE NORTH 15-36-38 EAST 52.62 FEET, NORTH 75-08-12 EAST 258.80 FEET, NORTH 75-51-45 EAST 298.35 FEET TO A POINT OF CURVATURE OF A CURVE CONCAVE NORTHWESTERLY HAVING A RADIUS OF 133.42 FEET AND A CHORD BEARING AND DISTANCE OF NORTH 62-15-27 EAST 62.77 FEET, THENCE ALONG THE ARC OF SAID CURVE TO THE LEFT, A DISTANCE OF 63.36 FEET, THENCE SOUTH 41-20-52 EAST 270.88 FEET TO A POINT ON THE NORTHERLY RIGHT OF WAY LINE OF STATE ROAD 19. THENCE SOUTH 75-06-54 WEST ALONG SAID NORTHERLY RIGHT OF WAY LINE 531.94 FEET TO A POINT ON THE NORTHERLY RIGHT OF WAY LINE OF COUNTY ROAD 48 AND A POINT ON A CURVE CONCAVE SOUTHWESTERLY HAVING A RADIUS OF 2341.83 FEET AND A CHORD BEARING AND DISTANCE OF NORTH 66-12-04 WEST 299.49 FEET, THENCE ALONG THE ARC OF SAID CURVE TO THE LEFT AND ALONG SAID NORTHERLY RIGHT OF WAY LINE 299.69 FEET TO THE POINT OF BEGINNING--ORB 4394 PG 1276

NOTE: This property description is a condensed/abbreviated version of the original description as recorded on deeds or other legal instruments in the public records of the Lake County Clerk of Court. It may not include the Public Land Survey System's Section, Township, Range information or the county in which the property is located. It is intended to represent the land boundary only and does not include easements or other interests of record. This description should not be used for purposes of conveying property title. The Property Appraiser assumes no responsibility for the consequences of inappropriate uses or interpretations of the property description.

Land Data

Lin	e Land Use	Frontage	Depth Notes	No. Units	Туре	Class Value	Land Value
2	WETLAND (9600)	0	0	10.530	Acre	\$0.00	\$474.00
3	ACREAGE - NON AGRICULTURAL (9900)	0	0	144.180	Acre	\$0.00	\$2,162,700.00
<u>CI</u> Ma	ick here for Zoning Info 0 ap		E	EMA Flo	<u>od</u>		

Miscellaneous Improvements

There is no improvement information to display.

Sales History

NOTE: This section is not intended to be a complete chain of title. Additional official book/page numbers may be listed in the property description above and/or recorded and indexed with the Clerk of Court. Follow this link to search all documents by owner's name.

Book/Page Sale Date Instrument			Qualified/Unqualified	Sale Price				
4394 / 1276	10/2013	Warranty Deed	Unqualified	Vacant	\$5,775,500.00			
<u>3847 / 276</u>	11/2009	Quit Claim Deed	Unqualified	Vacant	\$100.00			
1594 / 1451	03/1998	Quit Claim Deed	Unqualified	Vacant	\$1.00			
1594 / 1447	03/1998	Personal Rep Deed	Unqualified	Vacant	\$1.00			
<u>1230 / 311</u>	05/1993	Trustees Deed	Unqualified	Vacant	\$1.00			
Click here to	Click here to search for mortgages, liens, and other legal documents. 🕡							

Values and Estimated Ad Valorem Taxes o

Values shown below are 2023 CERTIFIED VALUES (July 1 Preliminary Tax Roll Certification)

Tax Authority	Market Value	Assessed Value	Taxable Value	Millage	Estimated Taxes
LAKE COUNTY BCC GENERAL FUND	\$2,163,174	\$2,163,174	\$2,163,174	5.0364	\$10,894.61
SCHOOL BOARD STATE	\$2,163,174	\$2,163,174	\$2,163,174	3.2080	\$6,939.46
SCHOOL BOARD LOCAL	\$2,163,174	\$2,163,174	\$2,163,174	2.9980	\$6,485.20

/6/23, 10:16 AM		Prop	perty Details : La	ke County Pro	operty Appraiser
LAKE COUNTY WATER AUTHORITY	\$2,163,174	\$2,163,174	\$2,163,174	0.2940	\$635.97
NORTH LAKE HOSPITAL DIST	\$2,163,174	\$2,163,174	\$2,163,174	0.1500	\$324.48
ST JOHNS RIVER FL WATER MGMT DIST	\$2,163,174	\$2,163,174	\$2,163,174	0.1793	\$387.86
TOWN OF HOWEY IN THE HILLS	\$2,163,174	\$2,163,174	\$2,163,174	7.5000	\$16,223.81
LAKE COUNTY MSTU AMBULANCE	\$2,163,174	\$2,163,174	\$2,163,174	0.4629	\$1,001.33
LAKE COUNTY VOTED DEBT SERVICE	\$2,163,174	\$2,163,174	\$2,163,174	0.0918	\$198.58
LAKE COUNTY MSTU FIRE	\$2,163,174	\$2,163,174	\$2,163,174	0.5138	\$1,111.44
				Total: 20.4342	Total: \$44,202.74

Exemptions Information

This property is benefitting from the following exemptions with a checkmark \checkmark

Homestead Exemption (first exemption up to \$25,000)	<u>Learn More</u>	View the Law
Additional Homestead Exemption (up to an additional \$25,000)	Learn More	View the Law
Limited Income Senior Exemption (applied to county millage - up to \$50,000)	<u>Learn More</u>	View the Law
Limited Income Senior Exemption (applied to city millage - up to \$25,000)	<u>Learn More</u>	View the Law
Limited Income Senior 25 Year Residency (county millage only-exemption amount varies)	Learn More	View the Law
Widow / Widower Exemption (up to \$5,000)	Learn More	View the Law
Blind Exemption (up to \$500)	Learn More	View the Law
Disability Exemption (up to \$5,000)	Learn More	View the Law
Total and Permanent Disability Exemption (amount varies)	Learn More	View the Law
Veteran's Disability Exemption (\$5,000)	Learn More	View the Law
Veteran's Total and Permanent Disability Exemption (amount varies)	Learn More	View the Law
Veteran's Combat Related Disability Exemption (amount varies)	Learn More	View the Law
Deployed Servicemember Exemption (amount varies)	Learn More	View the Law
First Responder Total and Permanent Disability Exemption (amount varies)	Learn More	View the Law
Surviving Spouse of First Responder Exemption (amount varies)	<u>Learn More</u>	View the Law
Conservation Exemption (amount varies)	Learn More	View the Law
Tangible Personal Property Exemption (up to \$25,000)	Learn More	View the Law
Religious, Charitable, Institutional, and Organizational Exemptions (amount varies)		View the Law
Economic Development Exemption	Learn More	View the Law
Government Exemption (amount varies)	Learn More	View the Law

NOTE: Information on this Property Record Card is compiled and used by the Lake County Property Appraiser for the sole purpose of ad valorem property tax assessment administration in accordance with the Florida Constitution, Statutes, and Administrative Code. The Lake County Property Appraiser makes no representations or warranties regarding the completeness and accuracy of the data herein, its use or interpretation, the fee or beneficial/equitable title ownership or encumbrances of the property, and assumes no liability associated with its use or misuse. See the posted <u>Site Notice</u>.

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TMHConsulting@cfl.rr.com 97 N. Saint Andrews Dr. Ormond Beach, FL 32174 PH: 386.316.8426

MEMORANDUM

TO:Howey-in-the-Hills Development Review CommitteeCC:J. Brock, Town ClerkFROM:Thomas Harowski, AICP, Planning ConsultantSUBJECT:Lake Hills Commercial 1/11/24 ResubmittalDATE:January 29, 2024

The following comments are offered in response to the resubittal package for the Lake Hills Commercial preliminary site plan.

- 1. Response to Town Comment 3: The Town's engineer will need to evaluate the proposal excluding the noted lane omissions.
- 2. Response to Comment 6: This plan needs to show the proposed connection, even if the location needs to be revised once the development proposal for Outparcel A is submitted. This is the most effective way to keep track of the access commitment.
- 3. Response to Comment 11: The tree information is still unreadable. Enlarging the drawing did not result in a layout that can be reviewed. As noted in the last set of comments, the tree data is needed with the preliminary site and not deferred to a future submittal. In this case the trees seem to be at the periphery of the parcels, so preservation should be relatively easy. A calculation of historic and specimen trees is required and not provided. A tabulation is cited in the comment, but could not be located in the submittal package.
- 4. Response to Comments 12 and 13: As noted in the earlier staff review comments, the Town's sign code is limiting in terms of signage allowed. The applicant should evaluate the current code in comparison to the project proposals so that any differences between the desired signage and the signage allowed by code can be addressed. Deferring this analysis to a future submittal will likely contribute to future problems with plan approvals.
- 5. Response to Comment 17: While the detailed landscaping design may be deferred to the final site plan submittal, the designation of the landscaped buffer areas cannot be deferred (Section 7.01.01 B). The requested buffer along the rear property line is not identified on the plan and needs to be shown. This requirement applies to the exterior property lines of the outparcels as well.

- 6. Response to Comment 18: This response is inadequate. Deferring the required buffer until after a determination is made on the sale of the outparcel(s) is likely to result in there being no room for the buffer. Reading Section 7.02.02 requires a ten foot buffer along the property line of the primary parcel and the outparcels.
- 7. Response to Comment 21: The Town engineer will need to partcipate in decisions on site grading and retaining wall construction. Site grading should not result in the elimination of trees that could otherwise remain with the use of a retaining wall.
- Outparcel A includes a 50-foot ingress/egress easement and a access from SR-19. Why are these proposed? To maintain traffic flow on SR 19, access points should be kept to a minimum.
- 9. The access to Outparcel C is too close to SR-19 and needs to be relocated.
- 10. The sidewalk on the SR-19 frontage needs to be extended across the front of Outparcel C.
- 11. Traffic Impact Assessment:
 - a. The widening project for SR-19 is not funded for construction in the current 5year plan. An alternative solution to "wait for the widening" needs to be proposed.
 - b. The road segment on SR-19 between Citrus Avenue and Florida Avenue is considered constrained in the Town's comprehensive plan. This segment will not be widened. How does this factor impact the traffic study findings and recommendations?
 - c. The roundabout at SR-19 and CR-48 appears to be the prefered solution for the intersection impacts. How does the applicant(s) propose to consider funding for the implementation?
 - d. Who is responsible for the traffic signal at SR-19 and the east driveway? Between the commercial and residential project, how is funding to be guaranteed?
 - e. The applicant(s) need to provide an assessment of the fair share cost for a signal at SR-19 and Central Avenue.

GRIFFEY ENGINEERING, INC.

February 5, 2024 Lake Hills Commercial Preliminary Site Plan Engineering Review Comments Page 1

<u>Traffic</u>

Access connections and offsite improvements need to be coordinated between the residential and commercial portions of Lake Hills PUD. The town is working with Lake County and FDOT to develop an improvement plan for this area. Approval of this preliminary site plan should include a condition that the final construction plans will incorporate those improvements. A copy of the most recent concept plan is included with these comments.

SR 19 & CR 48 Intersection: This intersection will need to be modified to accommodate future traffic. This should be an Impact Fee project through the Lake County road improvement program. Lake Hills PUD (residential and commercial) should provide a proportionate share contribution towards that project.

CR 48 & Commercial Side Entrance: This intersection would work best as a roundabout. It would provide full access and would eliminate the need for an easement through the commercial site to accommodate traffic from the water plant.

SR 19 & Project Entrance: This intersection would work better as a roundabout. It would function as a town & project gateway, it would slow down traffic coming into town, it would provide safer egress for project traffic, and it would eliminate the need of a future traffic signal.

Site Plan

This development will need an easement from the town for the portion of the CR 48 access that goes over town property. A condition of the easement should include a maintenance guarantee of the access road from the commercial property owner. This can be addressed with the final site plan submittal.

Grading of the site needs to be coordinated with the town. The design of the town's water treatment plant has recently started. During the final site plan design process the engineer for the commercial site needs to work with the town's engineers to develop a common grading design that works for both projects.

Legend: (as applicable)			Tree	Legend		Γ
SET 4"X4" CONCRETE MONUMENT LB#8405	BW/F BARBED-WIRE FENCE	SYMBOL	NAME	SYMBOL	NAME	
O SET CAPPED IRON ROD LB#8405	CATV CABLE TELEVISION VAULT CI CURB INLET		OAK	\bigcirc	PINE	
SET PARKER-KALON NAIL & DISK LB#8405	CL/F CHAIN LINK FENCE					
FOUND 4"X4" CONCRETE MONUMENT	CMP CORRUGATED METAL PIPE		PALM		CAMPHORE	
 FOUND AS NOTED FOUND PARKER-KALON NAIL & DISK 	CONC CONCRETE		CHERRY			
FOUND PARKER-KALON NAIL & DISK EDGE OF WATER	CPP CORRUGATED PLASTIC PIPE EBX ELECTRIC BOX		LAUREL			
-EDP EDGE OF PAVEMENT	ELEC ELECTRIC		NOTE: TREE	SIZES IN INCH	HES	
—×— FENCE (METAL)	EPC ENVIRONMENTAL PROTECTION COMMISS	ON				
FENCE (WOOD)	ERCP ELLIPTICAL REINFORCED CONCRETE PIF	E				
— F—— FIRE LINE —□HL—— OVERHEAD UTILITY LINE	FCIP FOUND CAPPED IRON PIPE					
	FCIR FOUND CAPPED IRON ROD FCM FOUND CONCRETE MONUMENT					
—san— SANITARY	FDC FIRE DEPARTMENT CONNECTION					
	FDOT FLORIDA DEPARTMENT OF TRANSPORTA	rion				
—™BB— TOP OF BANK —™S— TOE OF SLOPE	FFE FINISH FLOOR ELEVATION					
	FIP FOUND IRON PIPE FIR FOUND IRON ROD					
A/C AIR CONDITIONER UNIT	FIR FOUND IRON ROD FPIP FOUND PINCHED IRON PIPE					
BFP BACK FLOW PREVENTER	FPKN&D FOUND PARKER-KALON NAIL & DISK					
BOLLARD BOW OFF	FRRS FOUND RAILROAD SPIKE					
CO CLEAN OUT	GA GUY ANCHOR ICV IRRIGATION CONTROL VALVE					
	ICV IRRIGATION CONTROL VALVE ID IDENTIFICATION					
CURB INLET DRAINAGE CONTROL STRUCTURE DRAINAGE MANHOLE	IE INVERT ELEVATION					
DRAINAGE CONTROL STRUCTURE D DRAINAGE MANHOLE	LB LICENSED BUSINESS					100
	M/F METAL FENCE					
	NAVD NORTH AMERICAN VERTICAL DATUM					
	NGVD NATIONAL GEODETIC VERTICAL DATUM OHL OVERHEAD UTILITY LINE					
C FIRE HYDRANT	O.R.B. OFFICIAL RECORDS BOOK					
深 FIRE HYDRANT 匝M GAS METER	PG. PAGE					
GRATE INLET	PRM PERMANENT REFERENCE MONUMENT RCP REINFORCED CONCRETE PIPE					
HH HAND HOLE	SCIR SET CAPPED IRON ROD 1/2" LB #840	5				
رخ HANDICAP PARKING	SCM SET CONCRETE MONUMENT (4"X4")					
GRATE INLET HH HAND HOLE HANDICAP PARKING LIGHT POLE MITERED END SECTION (MES)	SPKN&D SET PARKER-KALON NAIL & DISK LB S/W SIDEWALK	#8405				
MITERED END SECTION (MES)	TBM TEMPORARY BENCH MARK					
₩ PEDESTAL LIGHT	TBOX TELEPHONE PEDESTAL					
S SANITARY MANHOLE	TOB TOP OF BANK					
SIGN	TOS TOE OF SLOPE UP UTILITY POLE					
SPRINKLER HEAD TELEPHIONE MANUALE	W/F WOOD FENCE					8
TELEPHONE MANHOLE Ø UTILITY POLE	(Ŕ) RADIAL LINE					÷
VERIZON PEDESTAL	(NR) NON-RADIAL LINE					1
WALL	(C) CALCULATED (D) PER DEED					
WM WATER METER	(F) PER FIELD					
⋈ WATER VALVE ⊖ _{YD} YARD DRAIN	(L) PER LEGAL					

08 WNDCREST DEVELOPMENT\0001 FOUR SEASONS COMMERCIAL TRACT\SURV\2023 PUBLIX SITE REVISED\NOVEMBER 2023 PUBLIX SITE\04108.0001 LAKE HILLS NOV 2023 PUBLIX BS.dwg (Bdry-Topo-Tree) giancarlot Jan 09, 202

Surveyor's Notes:

ACCORDING TO CURRENT FLOOD INSURANCE MAPS ISSUED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, THE PROPERTY SHOWN APPEARS TO LIE WITHIN ZONE "X" AND "AE" PANEL NO. 12069C0485E, DATED DECEMBER 18, 2012. THE APPROXIMATE FLOOD ZONE TRANSITION, IF APPLICABLE, HAS BEEN OBTAINED AND PLOTTED FROM LARGE SCALE MAPS AND IS DEPICTED AS ACCURATELY AS POSSIBLE. THIS SURVEY BY NO MEANS REPRESENTS A DETERMINATION ON WHETHER PROPERTIES WILL OR WILL NOT FLOOD. LAND WITHIN THE BOUNDARIES OF THIS SURVEY MAY OR MAY NOT BE SUBJECT TO FLOODING; THE BUILDING DEPARTMENT OR OTHER CUSTODIAL AGENCY FOR FLOOD DETERMINATION WITHIN THIS MUNICIPALITY MAY HAVE ADDITIONAL INFORMATION REGARDING FLOODING AND RESTRICTIONS ON DEVELOPMENT.

- 1. BEARINGS SHOWN HEREON ARE BASED ON THE NORTHERLY RIGHT OF WAY OF STATE ROAD
- 19. HAVING A GRID BEARING OF S 46°59'01" W. 2. THERE MAY BE ADDITIONAL EASEMENTS AND/OR RESTRICTIONS AFFECTING THIS PROPERTY
- THAT MAY NOT BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY. 3. NO INFORMATION ON ADJACENT PROPERTY OWNERS OR ADJOINING PROPERTY RECORDING
- INFORMATION WAS PROVIDED TO THIS SURVEYOR. 4. THE SURVEYOR HAS MADE NO INVESTIGATION OR INDEPENDENT SEARCH FOR EASEMENTS OF RECORD, ENCUMBRANCES, RESTRICTIVE COVENANTS, OWNERSHIP TITLE EVIDENCE, OR ANY OTHER FACTS THAT AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE
- 5. THE BOUNDARY CORNERS AND LINES DEPICTED BY THIS SURVEY WERE ESTABLISHED PER INFORMATION AS FURNISHED.
- 6. UNLESS OTHERWISE SHOWN HEREON, NO JURISDICTIONAL WETLAND AREAS OR OTHER PHYSICAL TOPOGRAPHIC FEATURES HAVE BEEN LOCATED. 7. UNDERGROUND ENCROACHMENTS, SUCH AS UTILITIES, STRUCTURES, INSTALLATIONS,
- AS SHOWN. 8. THIS MAP DOES NOT DETERMINE OR REFLECT OWNERSHIP OF PROPERTY, BOUNDARY LINES
- AFFECTED BY ADVERSE USE, LINES OF CONFLICTING DEEDS, OR OTHER LINES THAT MAY OTHERWISE BE DETERMINED BY A COURT OF LAW. 9. UNDERGROUND UTILITY LOCATIONS AND IDENTIFICATIONS SHOWN HEREON ARE BASED UPON VISIBLE ABOVE GROUND APPURTENANCES AND DO NOT NECESSARILY SHOW ALL UTILITY
- LOCATIONS. NO SUBTERRANEAN EXCAVATION HAS BEEN MADE TO DETERMINE UNDERGROUND UTILITY LOCATIONS. 10. THE MEASURED MATHEMATICAL CLOSURE OF THE SURVEYED BOUNDARY EXCEEDS THE
- CONGRESS ON SURVEYING AND MAPPING AND THE AMERICAN LAND TITLE ASSOCIATION. 11. TIES FROM BUILDING CORNERS, FENCE CORNERS, SHED CORNERS, ETC., ARE NOT TO BE
- USED TO REESTABLISH PROPERTY BOUNDARIES. 12. ADDITIONS OR DELETIONS TO SURVEY MAPS OR REPORTS MADE BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.
- 13. THIS SURVEY HAS BEEN PREPARED EXPRESSLY FOR THE NAMED ENTITIES AND IS NOT TRANSFERABLE. NO OTHER PERSON OR ENTITY IS ENTITLED TO RELY UPON AND/OR REUSE THIS SURVEY FOR ANY OTHER PURPOSE WHATSOEVER WITHOUT THE EXPRESS WRITTEN CONSENT OF HAMILTON ENGINEERING & SURVEYING AND THE CERTIFYING PROFESSIONAL SURVEYOR AND MAPPER.
- 14. NOTHING HEREIN SHALL BE CONSTRUED TO GIVE ANY RIGHTS OR BENEFITS TO ANYONE OTHER THAN THOSE CERTIFIED TO ON THIS SURVEY.
- 15. FENCE OWNERSHIP NOT DETERMINED. 16. PRINTED DIMENSIONS SHOWN ON THE MAP OF SURVEY SUPERSEDE SCALED DIMENSIONS. THERE MAY BE ITEMS DRAWN OUT OF SCALE TO GRAPHICALLY SHOW THEIR LOCATION.
- FROM THE SIGNING SURVEYOR.
- 18. THE WORD "CERTIFIED" IS UNDERSTOOD TO BE AN EXPRESSION OF THE PROFESSIONAL SURVEYOR'S OPINION BASED ON HIS BEST KNOWLEDGE, INFORMATION AND BELIEF, AND THAT IT THUS CONSTITUTES NEITHER A GUARANTEE NOR A WARRANTY, EITHER EXPRESSED OR IMPLIED.
- FIELD SURVEY DATE AND IS BASED ON FOUND EXISTING MONUMENTATION IN THE FIELD. 20. THE SIGNATURE DATE DOES NOT UPDATE OR SUPERSEDE THE DATE OF SURVEY.

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VICINITY MAP NOT TO SCALE

IMPROVEMENTS AND FOUNDATIONS THAT MAY EXIST, HAVE NOT BEEN FIELD LOCATED EXCEPT

ACCURACY STANDARDS FOR AN URBAN CLASS SURVEY AS DEFINED BY THE AMERICAN

17. REPRODUCTION OF THIS SURVEY IS EXPRESSLY FORBIDDEN WITHOUT THE WRITTEN PERMISSION

19. THIS SURVEY IS A REPRESENTATION OF EXISTING FIELD CONDITIONS AT THE TIME OF THE

Legal Description:

A TRACT OF LAND BEING PART OF SECTION 23, TOWNSHIP 20 SOUTH, RANGE 25 EAST, LAKE COUNTY, FLORIDA, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS;

COMMERCIAL 2

A PORTION OF GOVERNMENT LOTS 2, 8, AND 9 LYING WESTERLY OF HIGHWAY 19, ALL LYING IN SECTION 23, TOWNSHIP 20 SOUTH, RANGE 25 EAST, LAKE COUNTY, FLORIDA BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: AS A POINT OF REFERENCE COMMENCE AT SOUTHWEST CORNER OF THE SOUTHWEST 1/4 OF SECTION 23, TOWNSHIP 20 SOUTH, RANGE 25 EAST, LAKE COUNTY, FLORIDA AND PROCEED N 00°53'14" E, ALONG THE WEST BOUNDARY OF THE SOUTHWEST 1/4 OF SAID SECTION 23, A DISTANCE OF 1171.08 FEET TO A POINT ON THE NORTHERLY RIGHT OF WAY LINE OF COUNTY ROAD 48 SAID POINT LYING ON A CURVE CONCAVE NORTHEASTERLY HAVING A RADIUS OF 5679.58 FEET AND A CHORD BEARING AND DISTANCE OF S 69°35'43" E, A DISTANCE OF 1186.12 FEET; THENCE ALONG THE ARC OF SAID CURVE TO THE LEFT AND SAID NORTHERLY RIGHT OF WAY LINE, A DISTANCE OF 1188.29 FEET; THENCE S 75°35'20" E, ALONG SAID NORTHERLY RIGHT OF WAY LINE, A DISTANCE OF 1460.31 FEET TO A POINT OF CURVATURE OF A CURVE CONCAVE SOUTHWESTERLY HAVING A RADIUS OF 2341.83 FEET AND A CHORD BEARING AND DISTANCE OF S 72°35'58" E, A DISTANCE OF 223.25 FEET; THENCE ALONG THE ARC OF SAID CURVE TO THE RIGHT AND ALONG SAID NORTHERLY RIGHT OF WAY LINE, A DISTANCE OF 223.33 FEET; THENCE LEAVING SAID NORTHERLY RIGHT OF WAY LINE, N 15°36'38" E, A DISTANCE OF 52.62 FEET; THENCE N 75°08'12" E, A DISTANCE OF 258.80 FEET TO THE POINT OF BEGINNING; THENCE N 15°36'16" E, A DISTANCE OF 306.32 FEET: THENCE N 60°15'03" E. A DISTANCE OF 218.37 FEET: THENCE N 46°59'01" E. A DISTANCE OF 705.92 FEET: THENCE S 43°00'59" E, A DISTANCE OF 404.25 FEET TO A POINT OF CURVATURE OF A CURVE CONCAVE SOUTHWESTERLY HAVING A RADIUS OF 100.00 FEET AND A CHORD BEARING AND DISTANCE OF S 27°52'48" E, A DISTANCE OF 52.22 FEET; THENCE ALONG THE ARC OF SAID CURVE TO THE RIGHT, A DISTANCE OF 52.84 FEET TO A POINT OF REVERSE CURVATURE OF A CURVE CONCAVE NORTHEASTERLY HAVING A RADIUS OF 120.00 FEET AND A CHORD BEARING AND DISTANCE OF S 27°52'48" E, A DISTANCE OF 62.67 FEET; THENCE ALONG THE ARC OF SAID CURVE TO THE LEFT, A DISTANCE OF 63.40 FEET; THENCE S 43°00'59" E, A DISTANCE OF 125.00 FEET TO A POINT ON THE WESTERLY RIGHT OF WAY LINE OF STATE ROAD 19; THENCE S 46°59'01" W, ALONG SAID WESTERLY RIGHT OF WAY LINE, A DISTANCE OF 650.20 FEET TO A POINT ON THE NORTHERLY RIGHT OF WAY LINE OF STATE ROAD 19; THENCE S 75°06'54" W, ALONG SAID NORTHERLY RIGHT OF WAY LINE, A DISTANCE OF 210.88; THENCE LEAVING SAID NORTHERLY RIGHT OF WAY LINE, N 41°20'52" W, A DISTANCE OF 270.98 FEET TO A POINT OF CURVATURE OF A CURVE CONCAVE NORTHWESTERLY HAVING A RADIUS OF 133.42 FEET AND A CHORD BEARING AND DISTANCE OF S 62°15'27" W, A DISTANCE OF 62.77 FEET; THENCE ALONG THE ARC OF SAID CURVE TO THE RIGHT, A DISTANCE OF 63.36 FEET; THENCE S 75°51'45" W, A DISTANCE OF 298.03 FEET; THENCE S 75°08'12" W, A DISTANCE OF 229.89 FEET; THENCE S 15°36'38" W, A DISTANCE OF 28.52 FEET TO A POINT ON THE AFOREMENTIONED NORTHERLY RIGHT OF WAY LINE OF COUNTY ROAD 48 AND A POINT ON A CURVE CONCAVE SOUTHWESTERLY HAVING A RADIUS OF 2341.83 FEET AND A CHORD BEARING AND DISTANCE OF N 69°15'12" W, A DISTANCE OF 50.20 FEET; THENCE ALONG THE ARC OF SAID CURVE TO THE LEFT AND ALONG SAID NORTHERLY RIGHT OF WAY LINE, A DISTANCE OF 50.20 FEET TO THE POINT OF BEGINNING.

SAID PARCEL CONTAINING 630854 SQUARE FEET OR 14.48 ACRES MORE OR LESS.

TOGETHER WITH COMMERCIAL 2

A PORTION OF GOVERNMENT LOT 9 LYING WESTERLY OF HIGHWAY 19, ALL LYING IN SECTION 23, TOWNSHIP 20 SOUTH RANGE 25 EAST, LAKE COUNTY, FLORIDA BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: AS A POINT OF REFERENCE COMMENCE AT SOUTHWEST CORNER OF THE SOUTHWEST ¼ OF SECTION 23, TOWNSHIP 20 SOUTH, RANGE 25 EAST, LAKE COUNTY, FLORIDA AND PROCEED N 00°53'14" E, ALONG THE WEST BOUNDARY OF THE SOUTHWEST 1/4 OF SAID SECTION 23, A DISTANCE OF 1171.08 FEET TO A POINT ON THE NORTHERLY RIGHT OF WAY LINE OF COUNTY ROAD 48 SAID POINT LYING ON A CURVE CONCAVE NORTHEASTERLY HAVING A RADIUS OF 5679.58 FEET AND A CHORD BEARING AND DISTANCE OF S 69°35'43" E, A DISTANCE OF 1186.12 FEET; THENCE ALONG THE ARC OF SAID CURVE TO THE LEFT AND SAID NORTHERLY RIGHT OF WAY LINE, A DISTANCE OF 1188.29 FEET; THENCE S 75°35'20" E, ALONG SAID NORTHERLY RIGHT OF WAY LINE, A DISTANCE OF 1460.31 FEET TO A POINT OF CURVATURE OF A CURVE CONCAVE SOUTHWESTERLY HAVING A RADIUS OF 2341.83 FEET AND A CHORD BEARING AND DISTANCE OF S 68°56'00" E, A DISTANCE OF 521.94 FEET; THENCE ALONG THE ARC OF SAID CURVE TO THE RIGHT AND ALONG SAID NORTHERLY RIGHT OF WAY LINE, A DISTANCE OF 523.03 FEET TO A POINT ON THE NORTHERLY RIGHT OF WAY LINE OF STATE ROAD 19: THENCE N 75"06'54" E. ALONG SAID NORTHERLY RIGHT OF WAY LINE, A DISTANCE OF 742.75 FEET TO A POINT ON THE WESTERLY RIGHT OF WAY LINE OF STATE ROAD 19; THENCE N 46°59'01" E, ALONG SAID WESTERLY RIGHT OF WAY LINE, A DISTANCE OF 1328.28 TO THE POINT OF BEGINNING; THENCE LEAVING SAID WESTERLY RIGHT OF WAY LINE, N 89°48'40" W, A DISTANCE OF 738.20; THENCE S 46°59'01" W, A DISTANCE OF 50.00 FEET; THENCE S 43°00'59" E, A DISTANCE OF 269.48 FEET TO A POINT OF CURVATURE OF A CURVE CONCAVE NORTHEASTERLY HAVING A RADIUS OF 100.00 FEET AND A CHORD BEARING AND DISTANCE OF S 58'09'10" E, A DISTANCE OF 52.22 FEET; THENCE ALONG THE ARC OF SAID CURVE TO THE LEFT, A DISTANCE OF 52.84 FEET TO A POINT OF REVERSE CURVATURE OF A CURVE CONCAVE SOUTHWESTERLY HAVING A RADIUS OF 120.00 FEET AND A CHORD BEARING AND DISTANCE OF S 58'09'10" E, A DISTANCE OF 62.67 FEET; THENCE ALONG THE ARC OF SAID CURVE TO THE RIGHT, A DISTANCE OF 63.40 FEET; THENCE S 43'00'59" E, A DISTANCE OF 125.00 FEET TO A POINT ON THE AFOREMENTIONED WESTERLY RIGHT OF WAY OF STATE ROAD 19; THENCE N 46°59'01" E, ALONG SAID RIGHT OF WAY LINE, A DISTANCE OF 558.08 FEET TO THE POINT OF BEGINNING.

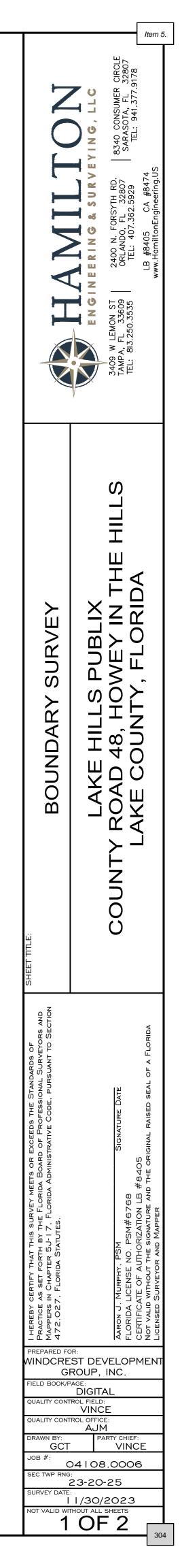
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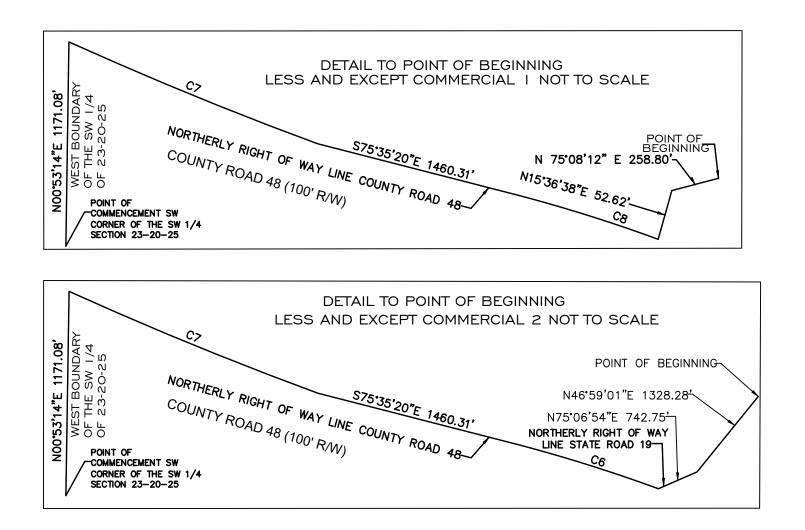
ACCESS EASEMENT

COMMENCE AT THE NORTHEAST CORNER OF THE SOUTHEAST 1/4 SECTION 23-20-25; THENCE SOUTH 00°28'42" WEST ALONG THE EAST LINE OF THE SOUTHEAST 1/4 OF SECTION 25, A DISTANCE OF 765.11 FEET TO THE NORTHERLY RIGHT OF WAY OF STATE ROAD 19; THENCE SOUTH 46°59'01" WEST ALONG THE NORTHERLY RIGHT OF WAY, A DISTANCE OF 1,350.12 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE SOUTH 46°59'01" WEST, A DISTANCE OF 120.00 FEET; THENCE NORTH 43°00'59" WEST, A DISTANCE OF 125.00 FEET; TO A POINT OF CURVATURE OF A CURVE CONCAVE NORTHEASTERLY, HAVING A RADIUS OF 120.00 FEET AND A CHORD WHICH BEARS NORTH 27'52'48" WEST, A DISTANCE 62.67 FEET; THENCE ALONG THE ARC OF SAID CURVE TO THE RIGHT, A DISTANCE OF 63.40 FEET; TO A POINT OF REVERSE CURVATURE OF A CURVE HAVING A RADIUS OF 100.00 FEET AND A CHORD WHICH BEARS NORTH 27*52'48" WEST, AND A DISTANCE OF 52.22 FEET; THENCE ALONG THE ARC OF SAID CURVE TO THE LEFT, A DISTANCE OF 52.84 FEET; THENCE NORTH 43°00'59" WEST, A DISTANCE OF 404.25 FEET; THENCE NORTH 46°59'01" EAST, A DISTANCE OF 60.00 FEET; THENCE SOUTH 43°00'59" EAST, A DISTANCE OF 404.25 FEET; TO A POINT OF CURVATURE OF A CURVE CONCAVE NORTHEASTERLY, HAVING A RADIUS OF 100.00 FEET AND A CHORD WHICH BEARS SOUTH 58°09'10" EAST. A DISTANCE 52.22 FEET; THENCE ALONG THE ARC OF SAID CURVE TO THE LEFT, A DISTANCE OF 52.84 FEET; TO A POINT OF REVERSE CURVATURE OF A CURVE HAVING A RADIUS OF 120.00 FEET AND A CHORD WHICH BEARS SOUTH 58'09'10" EAST, AND A DISTANCE OF 62.67 FEET; THENCE ALONG THE ARC OF SAID CURVE TO THE RIGHT, A DISTANCE OF 63.40 FEET; THENCE SOUTH 43"00'59" EAST, A DISTANCE OF 125.00 FEE; TO THE POINT OF BEGINNING.

CONTAINING 49,343.34 SQUARE FEET OR 1.13 ACRES, MORE OR LESS.

SAID PARCEL CONTAINING 155.772 SQUARE FEET OR 3.58 ACRES MORE OR LESS.



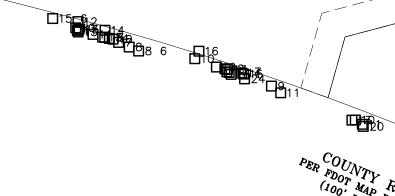


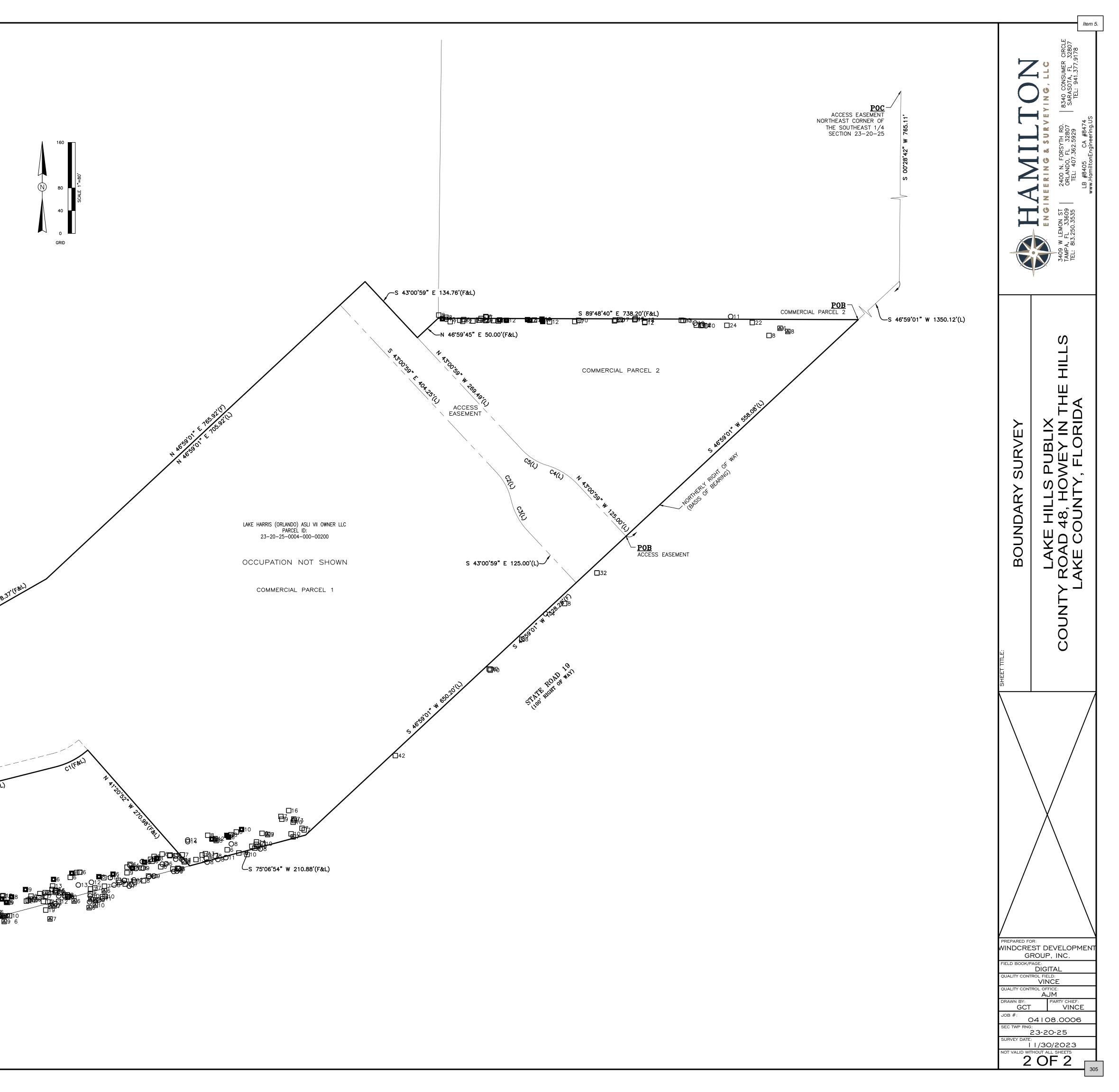
	CURVE TABLE						
CURVE#	RADIUS	CHORD BEARING	CHORD LENGTH	ARC LENGTH	DELTA		
C1	133.42'	N 62°15'26" E	62.77 '	63.36'	27 • 12'38"		
C2	100.00'	S 27°52'48" E	52.22 '	52.84'	30°16'22"		
C3	120.00'	S 27°52'48" E	62.67'	63.40'	30°16'22"		
C4	120.00'	N 58°09'10" W	62.67'	63.40'	30°16'22"		
C5	100.00'	N 58°09'10" W	52.22'	52.84'	30•16'22"		
C6	2341.83'	S 68°56'00" E	521.94'	523.03'	12•47'48"		
C7	5679.58'	S 69°35'43" E	1186.12'	1188.29'	11*59'15"		
C8	2341.83'	S 72°35'58" E	223.25'	223.33'	5 ° 27'51"		

PERPETUAL ACCESS AND TEMPORARY CONSTRUCTION - EASEMENT PER OFFICIAL RECORDS BOOK 6069, PAGE 242 COMMERCIAL PARCEL 2

1 LAKE HILLS NOV 2023 PUBLIX BS.dwg (Bdry—Topo—Tree (2)) giancarlot Jan 09, 20

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January 11, 2024

Howey-In-The-Hills Attn: John Brock N. Palm Ave., Howey-in-the-Hills, FL 34737

RE: Lake Hills Shopping Center

Dear John:

Below please find our responses to those comments.

TMH Consulting Comments:

Comment 1: As noted in the initial review comments, a subdivision plat needs to be submitted and approved to formally create the four parcels created so far from the Lake Hills development master agreement. The final plat needs to be approved prior to approval of a final site plan for this project.

Response: Noted. This work is being pursued by the land owner.

Comment 2: The proposed public portion of the central collector is creating some administrative issues in determining how to proceed with the platting. We need to determine whether the commercoal project or the residential project is going to actually construct the road from SR-19 to the start of the residential portion of the project. If this is to be a public road as indicated on the plans, then a plat is required to create the right-of-way and dedicate it to the Town. This needs to happen regardless of whether the commercial project is subdivided. The Town needs to have a sufficient guarantee that the road will be constructed to the plan requirements and Town specifications as would normally occur in a subdivision. This includes appropriate financial guarantees if the road is platted before it is constructed. If the road is to be constructed with the commercial project, then the final site plan submittal will need to include the roadway design details. If the commercial project is going to construct the road and prepare the dedication, the commercial property will need to include the roadway area so the dedication can be made. *Response: The public portion of the central collector road passing through the commercial site will be constructed by the commercial site developer. The right-of-way will be dedicated to the public by plat or separate instrument with the final site plans site plans for the commercial site. Item*

#10 on the Site Data notes indicates that the road will be dedicated to the public.

Comment 3: The entrance road design includes three left turns including an access to Outparcel B, a main access to the primary parcel and a service entrance to the primary parcel. Given that the road will also serve as the primary entrance to the 570 residential units, the prospect for congestion is significant. Left turn bays or a continuous left turn lane needs to be provided. *Response: The site plan has been revised to include left turn lanes from the northbound entrance road into the commercial sites. We do not believe right turn lanes or southbound left turn lanes are warranted for this location. The arrangement and details of all street sections will be finalized with the final site plans.*

Comment 4: The traffic study is still needed. *Response: The traffic study has been submitted for review.*

Comment 5: The plan notes state that there are no dedications or reservations, but the collector road is a dedication as presently identified.

Response: Item #10 on the Site Data notes indicates that the collector road will be dedicated to the public.

Comment 6: This project needs to coordinate with the residential project to provide of an access road to property to the east.

Response: As discussed during the DRC, an access road will be provided through Outparcel A once design development for Outparcel A has determined the location for this access through to the residential to the east.

Comment 7: The proposed stormwater retention for the commercial parcel is within the residential portion of the project. While a document granting the legal right to drain to the retention area is being prepared, the timing of construction and who actually constructs the retention area needs to be clarified. This retention area is in Phase 2 of the residential portion of the development which may not coincide with the timing for the commercial project.

Response: The retention pond will be constructed with commercial site development. The developer will secure a construction, access, and drainage easement from the landowner prior to work. It is the developer's intent to construct a portion of the pond sufficient to serve the needs of the commercial site. The residential site will modify and expand the pond as needed in the future. All pond construction will be permitted by SJRWMD.

Comment 8: The Town Attorney will need to review the off-site construction if the plan creating the retention area has not yet been approved by the Town Council. This is another timing issue that needs to be resolved.

Response: As mentioned above, the pond will be designed, permitted and constructed along with the commercial development. All required easements are being prepared to allow conveyance to and discharge from the pond with the property owner. These easements will be provided prior to construction document approval by the Town. Comment 9: The commercial plan set identifies the stormwater area as a dry retention area, while the residential plans identify it as a wet retention area. The plans need to be coordinated. *Response: The retention pond will be dry.*

Comment 10: The applicant notes that absent another sewer service solution, the commercial project intends to construct a treatment facility on Outparcel A. This option needs to be clearly understood by the Town Council for their decision process, and a site plan review will be required for construction of the treatment facility.

Response: Noted. If a treatment facility on Outparcel A becomes necessary, construction details will be provided with the final site plans.

Comment 11: The quality and legibility of the tree survey was limited for this site. Can the tree information be limited to just the commercial project area? The master tree survey for the residential portion of the project included a table of trees by size and type with notes on trees to be saved and trees to be removed. This data should be available for the commercial land area. The tree analysis needs to include an identification of any historic and specimen trees noting trees to be preserved. The code minimum is 100% of historic trees and 50% of specimen trees. *Response: Please see the attached site survey specific to the commercial site, with tree locations shown and tabulated. Tree preservation, removal, and mitigation will be provided with the final site plans.*

Comment 12: The proposed signage locations will need further discussion. The plan shows a free standing sign for each outparcel and a free standing sign at the CR-48 entrance. The signage proposed at the central collector entrance off of SR-19 is unclear as to whether this signage is intended for the residential project, the commercial project or both.

Response: The signage shown at the collector road entrance on SR-19 will serve both commercial and residential uses. The locations and configuration are conceptual. The other signage indicated on the commercial parcel will be for the commercial development only. It is the intent of the applicant to prepare a master sign plan for the entire commercial development and process this through the town after site plan approval.

Comment 13: Free standing signs in PUD developments have a maximum sign area of 32 square feet and a mximum height of eight feet. The code also limits free standing signs in shopping centers to one sign per street frontage. We are going to need to work with the legal staff to see how the outparcels can be handled. They may need to be subdivided to obtain individual signage. *Response: Noted. It is the intent of the applicant to prepare a master sign plan for the entire commercial development and process this through the town after site plan approval.*

Comment 14: Wall signage is limited to 15% of the building face and two signs total on the building. Corner lots may apply the signage to each street frontage. *Response: Noted. It is the intent of the applicant to prepare a master sign plan for the entire commercial development and process this through the town after site plan approval.*

Comment 15: The detailed landscape design is to be deferred to the final site plan. *Response: Noted. We agree with this assessment.*

Comment 16: The area on the main parcel near the service road designated as open space needs to be landscaped with trees and shrubs. This may be a good opportunity to include an outdoor seating area as some hardscape is allowed with the landscaping.

Response: The noted open space will be landscaped, with details provided with the final site plans. This location is a service area inclusive of dumpsters enclosures and utility back of house (BFP, meters, etc.), not intended for regular public use. It is the applicant's intent to discourage public use of this space.

Comment 17: The proposed buffer along the rear of the main parcel needs to include a full landscape treatment. A "distance buffer" is not cutting it. *Response: Noted. Additional landscape buffer details will be provided with the final site plans.*

Comment 18: Since there is a prospect that the outparcels will be subdivided and sold, perimeter landscaped buffers need to be provided.

Response: If outparcels are subdivided and sold, they will provide perimeter landscape buffers and setbacks as required with independent site plans.

Comment 19: The grocery store would benefit from an outdoor seating area where patrons could eat meals purchased from the grocery.

Response: Noted. The applicant will consider the suggestion.

Comment 20: Include bicycle storage areas in the plan. *Response: Bicycle parking will be provided with the final site plans. Please see the additional clarification added to note #8 on the Site Data notes.*

Comment 21: The plan shows one retaining wall location along the rear of the commercial site. Are other retaining walls anticipated? If just the one retaing wall is used, the amount of fill will be significant and may affect the outparcels and adjacent roadways.

Response: The retaining wall locations are conceptual at this time, based on preliminary grading estimations. All retaining wall locations and details will be provided with grading plans included with the final site plans. All retaining walls ultimately approved will be designed and permitted separately by others with a building permit.

Comment 22: The development agreement includes design typology that needs to be addressed in the building design. Please keep this in mind. It is not too early to begin the analysis. **Response:** Noted. The developer is aware of these standards and will include them in the future building design.

Griffy Engineering Comments:

<u>Traffic</u>

Comment 1: The project needs to submit a Traffic Impact Study for review. *Response: The Traffic Impact Study has been submitted for review.*

Comment 2: The developments at this location (Lake Hills, Lake Hills Commercial, and Thompson Groves) will necessitate roadway improvements on SR 19 and CR 48. A copy of my recommended improvement plan for this area is attached.

Response: The site plan has been revised to include some suggestions from Griffy. Improvements on SR-19 have been limited to widening on the project-side only as needed to accommodate the required improvements. We have left space for future projects to incorporate this work and expand upon it for their own needs at that time. The final configuration and details of all street sections will be provided and reviewed with the final site plans.

Comment 3: The turn lanes along SR 19 and CR 48 at the access points are the responsibility of the developers. *Response: Noted.*

Comment 4: The improvement to the SR 19 / CR 48 intersection (conversion to a roundabout) will require the cooperative efforts of the Town, Lake County and FDOT. This project should also receive proportionate share funding from the impacting projects. *Response: Noted.*

Comment 5: The intersection on SR 19 for the main entrance to Lake Hills, Lake Hills Commercial, and Thompson groves will most likely require a traffic signal at some point in the future. The cost of that signal should be borne fully by the impacting projects. *Response: Noted.*

<u>Site Plan</u>

Comment 6: The site boundary on the submitted plan does not reflect current property boundaries. The plan needs to be updated to show actual property lines. Refer to the survey submitted with the Lake Hills PSP for an accurate depiction of property boundaries and easements.

Response: The site boundary has been revised to show the current water plant boundary.

Comment 7: Revise the site plan to incorporate the modifications shown in the SR 19 & CR 48 Improvement Plan including turn lanes, sidewalks, trails, traffic control and ADA routes. *Response: The site plan has been revised to include some suggestions from Griffy. Improvements on SR-19 have been limited to widening on the project-side only as needed to* accommodate the required improvements. We have left space for future projects to incorporate this work and expand upon it for their own needs at that time. The final configuration and details of all street sections will be provided and reviewed with the final site plans. Internal sidewalks and ADA routes will be detailed with the final site plans.

Comment 8: This development will need an easement from the town for the portion of the CR 48 access that goes over town property. A condition of the easement should include a maintenance guarantee of the access road from the commercial property owner. *Response: Noted. The property owner will work with the Town to secure the necessary reciprocal easements for both parties to access the road.*

Comment 9: The development will need to provide to the town an easement to allow traffic from the water treatment plant to access SR 19. Identify this on the plan (either graphically, with a note, or both).

Response: Noted. The site plan has been revised to include a note requiring an easement through the commercial site for the use of Town water plant traffic.

Comment 10: Modify the furthest west parking aisle of Commercial Site 1 to be all angled, one-way parking.

Response: The applicant wishes to decline this request. In the applicant's experience, it is valuable to have two-way traffic available on the ends of parking areas. Accordingly, the applicant wishes to keep the site plan as shown for now.

If you have any questions, please don't hesitate to contact our office.

Sincerely,

Benjamin Beckham, P.E., CFM Senior Project Manager

BSB/ja H:\Data\22041\Cor\Comments & Responses\Howey in the Hills Response - 2 - PSP.doc



COPYR



LAKE HARRIS SHOPPING CENTER

PUBLIX & RETAIL IN LAKE HARRIS C.R. 48 & SR-19 HOWEY-IN-THE-HILLS, F₃₁₂

Request and proposal for potable water service & reservation from the Town of Howey in the Hills Florida

Ref. property:

Blue Sky Capital Group LLC aka Cedar Creek

Location:

North of Number Two rd. and east of Bloomfield Ave., consisting of appx 160ac

Owner of record:

Blue Sky Capital LLC. hereafter; (applicant)

Tax ID parcels:

27-20-25-0003-000-03100 27-20-25-0002-000-00200 27-20-25-0001-000-03300 28-20-25-0001-000-00100

Project background.

On April 10, 2023, the Town of Howey in the Hills held a public hearing to consider a request from the applicant for voluntary annexation into the Municipal boundaries of Howey in the Hills.

Reference Document; "Ordinance 2023-008 Cedar Creek Annexation"

The Town Council approved the request conditioned on the approval of the Lake County Board of County Commissioners.

On April 11, 2023, the Lake County Board of County Commissioners objected to the annexation therefore rendering the Towns approval mute.

Please let this correspondence stand as the applicants request for potable water service and reservation from the Town of Howey in the Hills.

The proposed development known as Cedar Creek consist of +/- 110 single family residential homes, and lies within the Utility Service Boundary as defined in the 2013 Lake County / Howey in the Hills "Inter-Service Local Boundary Agreement", entered into by Lake County on June 19, 2013 and Howey in the Hills on September 9, 2013.

Terms and Conditions

(1) The applicant agrees at their sole cost to construct all water transmission lines and associated apparatus from the Towns designated point of connection on Number Two Rd. or the closest connection point to the applicant's property line in order to obtain potable water service from the Town.

(2) The applicant acknowledges Florida Statute allows a municipality to impose a water service surcharge for monthly potable water service to areas outside their municipal boundaries.

The surcharge is calculated based on the prevailing potable water usage rate set by the municipality. The applicant or their successor agrees to pay a surcharge of 15% above the prevailing water usage rate at the time of water meter service connection and notify the homeowner of such surcharge.

(3) The applicant agrees to move forward with the desired voluntary annexation under the following conditions prior to the submittal of final engineering plans to Lake County Planning & Zoning.

Request and proposal for potable water service & reservation from the Town of Howey in the Hills Florida

(a) The Lake County Commission withdraws its objection to the Towns April 10, 2023 annexation approval and agrees not to interfere further in the progression of the applicants project,

or

(b) The above-described property becomes contiguous to the Municipal boundaries of Howey in the Hills and qualifies for voluntary annexation pursuant to Part (I) Chapter 171, Florida Statutes.

(4) Prepayment of Potable water impact fees.

(a) The applicant agrees to pay the Town a 10% non-refundable deposit of the impact fees which the project will generate based on the Towns established 2024 potable water impact fee rate. The applicant will pay the fee no later than 30 days after receiving final engineering approval from Lake County.

This deposit as well as any additional deposits provided to extend the potable water reservation will be credited towards the full payment of the potable water impact fee as established in 2024 as each residential building permit is granted to the applicant or their successor.

(b) The Town agrees to reserve potable water capacity for +/- 110 single family residential homes in the proposed Cedar Creek development for a period of five years, (5yrs), unless extended as provided herein.

(c) The applicant reserves the option to extend the potable water reservation for an additional five years, (5yrs) by notifying the Town not less than 30 days in advance of the expiration of the initial reservation date, and by paying an additional 10% non-refundable deposit based on the 2024 potable water impact fee rate the project will generate, provided the applicant has received final engineering approval from Lake County.

(5) The applicant reserves the right to change the name of the development from Cedar Creek by notifying the Town and Lake County of such name change.

The prevailing identifier for the project will be the Lake County property appraisers tax parcel identification numbers as listed under the Tax ID Parcel numbers defined on page one of this proposal dated Feb. 20, 2024.

The applicant and Town will formalize these terms in a written agreement to be signed by the applicant and the Town.

By: Keith Trace 02/19/2024

On behalf of: Blue Sky Capital Group LLC 103 Commerce Street STE 160 Lake Mary, Fl 32746

MEMORANDUM

TO: Mayor and Town Council Members

FROM: Thomas J. Wilkes, Town Attorney

DATE: March 11, 2024

SUBJECT: Proposal by Cedar Creek Developers Regarding Potable-Water Service

This memorandum supplements Agenda Item No. 6 on the March 11, 2024 agenda for Town Council.

The developer is proposing an agreement under which, among other things, the developer will receive a contract right to potable-water service from the Town.

The proposal raises several policy issues that should be decided first by Town Council:

- 1. Is the Town willing to provide utility service, whether potable-water, wastewater, or both, to properties outside the Town's boundaries?
- 2. If so, is the Town willing to allow potable-water capacity to be *reserved* by future out-of-town customers, potentially to the detriment of future in-town customers?
- 3. If so, what should be the price, if any, to be paid by the future out-of-town customer in return for the Town reserving potable-water capacity for the customer? The Cedar Creek developer is proposing payment of 10% of the Town's water-system capital charge. Payment of the 10% will be due after Lake County grants its "final engineering approval" (not sure what that means).

There may be additional policy issues to discuss and decide beyond just these three.

We recommend that the Town Council decline the proposal and request in Agenda Item No. 6.

If the Town Council answers yes to issues 1 and 2 above, the Town Manager should bring back for Town Council consideration (i) a recommendation as to an amount to be paid by out-of-town customers for reservation of capacity and (ii) for the Cedar Creek proposal, a more comprehensive and more favorable agreement, including an agreement and petition for voluntary annexation of the Cedar Creek parcel when legally allowed.

I have recommended to the Town Manager that all these points be offered for discussion this evening.

Draft only 3-5-2024 Item 7.

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ORDINANCE NO. 2024 - 004

AN ORDINANCE OF THE TOWN OF HOWEY-IN-THE-HILLS, 3 FLORIDA, PERTAINING TO FIREWORKS; CREATING 4 CHAPTER 93 OF THE TOWN'S CODE OF ORDINANCES, 5 **ENTITLED "FIREWORKS"; DECLARING FINDINGS OF THE** 6 TOWN COUNCIL; PROVIDING DEFINITIONS; SPECIFYING 7 UNLAWFUL ACTS AND MEANS OF ENFORCEMENT; 8 SPECIFYING THE CONDITIONS AND REQUIREMENTS 9 UNDER WHICH THE TOWN MAY GRANT A PERMIT FOR A 10 PUBLIC DISPLAY OF FIREWORKS; PROVIDING FOR 11 SEVERABILITY. CONFLICTS 12 AMONG **ORDINANCES.** 13 **CODIFICATION, AND AN EFFECTIVE DATE.**

14

Be It Ordained by the Town Council of the Town of Howey-in-the-Hills, Florida:

- 17 **Section 1.** The title of Chapter 93 of the Code of Ordinances for the Town of
- Howey-in-the-Hills, Florida, is revised to read "Fireworks." Reference to Article Iof Chapter 93 is deleted.
- 20 Section 2. Sections 93-1, 93-2, and 93-3 of the town code are created to read:
- 21 Sec. 93-1. General.
- A. Town Council findings. The Town Council finds that the Town of Howey-22 23 in-the-Hills is predominately a residential town, with few nonresidential properties. The detonation and explosion of fireworks within the Town's 24 boundaries, whether by untrained individuals or by persons trained in the 25 Code of Fireworks Display approved by the American National Standards 26 Institute, can impose material risks to public safety and property. For that 27 28 reason the detonation of fireworks is subject to the prohibitions and restrictions of this chapter. 29
- 30
- B. Definitions. In this chapter "fireworks" and other terms have the meanings
 ascribed to them in Chapter 791 of Florida Statutes. "Pyrotechnics" means

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"fireworks." The phrase "public display of managed pyrotechnics" has the 1 same meaning as the phrase in Chapter 791 "public display of fireworks". 2 3 Sec. 93-2. Unlawful acts; violations. 4 A. It is unlawful to use, detonate, or explode fireworks within the boundaries of 5 the town at any time other than the following: 6 7 8 1. New Year's Eve, December 31, between 5:00 P.M. and 12:30 9 A.M.: 2. New Year's Day, January 1, between 4:00 P.M. and 10:00 P.M.; 10 and 11 3. Independence Day, July 4, between 4:00 P.M. and 10:00 P.M. 12 13 B. Violation of subsection A and other provisions of this chapter will be subject 14 to prosecution of a first-degree misdemeanor as provided in section 791.06 15 of Florida Statutes or enforced through town code-enforcement proceedings 16 under Chapters 162 and 166, Florida Statutes. 17 Public displays of managed pyrotechnics. A permit for the privilege Sec. 93-3. 18 19 of conducting within the boundaries of the town a supervised public display of managed pyrotechnics may be granted, but only under the following conditions: 20 A. By written resolution or by motion and vote the Town Council has 21 authorized conducting public displays of managed pyrotechnics and has not 22 23 rescinded its authorization; and 24 B. The public display will occur only on one of the three dates, and only during 25 the times, specified in section 93-2. Notwithstanding the foregoing, a public 26 display of managed pyrotechnics may be conducted on a different date or at 27 a different time upon its approval either by written resolution or by express 28 motion and vote by the Town Council; and 29 30 31 C. As contemplated under section 791.012 of Florida Statutes, the public display of managed pyrotechnics will be governed by and conducted in full 32 and strict compliance with the requirements of the National Fire Protection 33

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1	Association (NFPA) 1123, Code for Fireworks Display, 1995 Edition,
2	approved by the American National Standards Institute; and
3	
4	D. As contemplated under section 791.02 of Florida Statutes, both the town's
5	police chief and the county fire chief determine that the operator is
6	competent to conduct the managed pyrotechnics display; and
7	
8	E. As contemplated under section 791.02 of Florida Statutes, the county fire
9	chief determines that the managed pyrotechnics display is of such a nature
10	and will be so located, discharged, and fired as, in the fire chief's opinion
11 12	after proper inspection, will not be hazardous to property and will not endanger persons; and
12	endanger persons, and
13 14	F. The operator of the public display of managed pyrotechnics complies with
15	all conditions, requirements, and safety precautions imposed by both the
16	police chief and the county fire chief; and
17	
18	G. The operator of the public display of managed pyrotechnics pays to the
19	town, before the display occurs, all costs incurred or estimated to be incurred
20	by the town and the county in connection with the public display; and
21	
22	H. The town clerk issues the permit for the public display, but only after
23	confirmation from the police chief and the fire chief that the requirements of
24 25	C, D, E, and F have been fulfilled and the operator of the public display has
25	paid in full all actual and expected costs as required under G.
26	Section 3. Severability. If any part of this ordinance is declared by a court of
27	competent jurisdiction to be void, unconstitutional, or unenforceable, the
28	remaining parts of the ordinance shall remain in full effect. To that end, this
29	ordinance is declared severable.
30	Section 4. Conflicts. In a conflict between this ordinance and other existing
31	ordinances, this ordinance shall control and supersede.
32	Section 5. Codification. The provisions of sections 1 and 2 of this ordinance are
22	to be codified in Chapter 03 of the Code of Ordinances for the Town of Howey in

33 to be codified in Chapter 93 of the Code of Ordinances for the Town of Howey-in-

34 the-Hills, Florida. No other sections are to be codified.

1	Section 6. Effective Date.	This ordinance shall take effect upon its enactment.
2		
3	ORDAINED AND ENACT	ED this day of, 2024, by the
4	Town Council of the Town of	f Howey-in-the-Hills, Florida.
5		
6		TOWN OF HOWEY-IN-THE-HILLS,
7		FLORIDA
8		By: its Town Council
9		By:
10		Hon. Martha MacFarlane, Mayor
11		
12	ATTEST:	APPROVED AS TO FORM AND LEGALITY:
13		(for the use and reliance of the Town only)
14		
15		
16	John Brock, Town Clerk	Thomas J. Wilkes, Town Attorney
17		
18		
19	First Reading held March 11, 202	4
20	Second Reading and hearing held	, 2024
21	Public hearing advertised	, 2024

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2 #52947081 v3



MEMO

To: Town Council

CC:

From: John Brock, Town Clerk

RE: February 2024 Month-End Town Hall Report

Date: 03/06/2024

Utility Billing:

Top Utility Bill Bad Debt for February 2024

	last_	last_				
	payment_	payment_	_	current_	past_due_a	
account	amount	date	comments	charges	mount	service_address
			Remains Disconnected due to non			
			payment. Water meter will remain locked.			
			Possible lien. Resident agrees water was			
1272-00	27.07	10/19/2023	used.	142.69	1,453.18	489 AVILA PL - IRRIGATION
			Disconnected due to non payment. Water			
0463-00	149.88	07/24/2023	meter is locked since October.	114.72	568.52	201 S MARE AVE
			Disconnect due to non payment. Water			
0285-00	310.31	08/02/23	meter is locked.	55.99	333.00	504 E MISSION LANE
			Remaind Disconnected due to non payment. Water meter is lockesd. Resident			
0239-00	100.00	02/20204	not living in home, family paying as able.	55.99	285.25	607 N LAKESHORE BLVD
			Home owner promised to pay 3/6/24. Owner			
179-00	167.62	12/29/24	is sick and was unable to pay.	91.25	183.00	131 E PALMETTO AVE
			Resident has not paid irrigation form some			
			months and did not pay potable for last bill			
			cycle 2/25/24 Lien in process on irrigation			
1271-00	336.87	01/02/24	account. May include potable.	164.57	151.05	489 AVILA PL -POTABLE
0842-00	134.13	2/14/2024	New home owner moved in 3/5/24	133.70	129.84	215 MESSINA PL - POTABLE

Building Permits:

PERMITS	TOTAL Q1	JAN 24	FEB 24	TOTAL Q2
Talichet - SFR	1	0	0	0
Venezia TH SFR	16	6	0	6
Independent - SFR	0	0	1	1
Bldg Com. (Sign)	0	0	0	0
Building	3	0	3	3
Doors	0	2	0	2
Electrical	2	0	0	0
Fence	5	1	4	5
Gas	1	1	0	1
HVAC / Mechanical	3	1	1	2
Plumbing	1	0	1	1
Pool/Decks	2	0	0	0
Re-Roof	13	1	1	2
Screen Enclosure	1	0	0	0
Sheds	1	1	0	1
Solar	6	0	2	2
Windows	2	0	4	4
Monthly Totals	57	13	17	30
Monthly Permit Amount	\$237,420.02	\$72,973.01	\$7,996.15	\$80,969.16
CO: Talichet - SFR	5	0	4	4
CO: Venezia Townhome	29	6	3	9
CO:Independent - SFR	0	0	0	0

Activity Log Event Summary (Cumulative Totals)

Howey-in-the-Hills PD

(02/01/2024 - 02/29/2024)

Abandoned 911	2	Animal Complaint	2
Anti-Social Behavior	43	Arrest	2
Assist other Agency- Alarms	1	Assist other Agency- Back-up	4
Assist other Agency- In Progress calls	7	Assist other Agency- Other	6
Baker Act	1	Baker Act-Juvenile	1
Be on the look-out- BOLO	2	Citizen Assist	6
Civil Complaint-Legal Advice	4	Disabled Vehicle - Business	3
Disabled Vehicle (DAV)	1	Fire Investigation	1
Found / Lost Property	2	Fraud Investigation	1
Funeral Escort	1	Golf Cart Registration	5
Juvenile Complaint	1	Patrol	304
Patrol-Busines	30	Patrol-School	235
Property Check SRO	7	Property Check-Boat Ramp	22
Property Check-Business	55	Property Check-Residence	3
Property Check-Schools/Govt. Bldg.	22	Property Check-Town Property	146
Property Damage	1	Public Relations	2
Reckless Driver	5	Road Hazard	1
Sick/Injured Person	5	Solicitor Complaint	1
Suspicious Incident	2	Suspicious Person	4
Suspicious Vehicle	6	Theft - Grand/Petit	1
Traffic Control	2	Traffic Crash	2
Traffic Stop-Civil Citation	35	Traffic Stop-warning	30
Traffic Watch	13	Training-	4
Trespassing Complaint	1	VIN Verification	1
Warrant	1	Well Being Check	2

Total Number Of Events: 1,039

Date: 03/05/2024 -- Time: 09:52

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Town Council Open Monthly Case Report

Case Date	Parcel Address	Violation Type	Violation Type	Main Status	Date Closed
2/29/2024	205 MARILYN AVE	Parking	Parking	Open	
2/29/2024	MARILYN AVE	Parking	Parking	Open	
2/28/2024	448 AVILA PL	Fence	Zoning Chapter 5	Open	
2/27/2024	502 S DIXIE DR	Parking	Parking	Open	
2/26/2024	10400 COUNTY ROAD 48	Outside Storage	Zoning Chapter 5	Open	
2/26/2024	700 S FLORIDA AVE	Vehicle Sales	Parking	Open	
2/26/2024	118 SIXTH AVE	Life Safety (No Pool Barrier)	Zoning Chapter 5	Open	
2/21/2024	608 S FLORIDA AVE	Junk	Property Maintenance	Open	
2/1/2024	217 W CENTRAL AVE	Junk	Garbage	Closed	2/21/2024

02/01/2024 - 02/29/2024

Total Records: 9

3/1/2024

Town Council Closed Monthly Case Report

Main Status	Parcel Address	Violation Type	Violation Type	Case Date	Date Closed
Closed	217 W CENTRAL AVE	Junk	Garbage	2/1/2024	2/21/2024
Closed	118 E MAGNOLIA AVE	Accumulation of Refuse	Property Maintenance	1/29/2024	2/22/2024
Closed	1006 N HAMLIN AVE	Temporary Carport	Zoning Chapter 5	1/24/2024	2/22/2024
Closed	205 W HOLLY ST	Temporary Carport	Zoning Chapter 5	1/24/2024	2/22/2024
Closed	540 BELLISSIMO PL	Temporary Carport	Zoning Chapter 5	1/22/2024	2/22/2024
Closed	300 W DUPONT CIR	Junk	Property Maintenance	1/19/2024	2/7/2024
Closed	405 S DIXIE DR	Parking	Parking	1/19/2024	2/7/2024
Closed	506 N FLORIDA AVE	Parking	Parking	1/19/2024	2/5/2024
Closed	312 W DUPONT CIR	Parking	Parking	1/19/2024	2/7/2024
Closed	307 N DIXIE DR	Parking	Parking	1/19/2024	2/7/2024
Closed	311 N DIXIE DR	Parking	Parking	1/19/2024	2/7/2024
Closed	121 E PINE ST	Parking	Parking	1/11/2024	2/1/2024
Closed	114 E GARDENIA ST	RV Parking & Political Sign	Parking	11/7/2023	2/8/2024
Closed	121 E PINE ST		Parking	10/4/2023	2/7/2024
Closed	800 N CITRUS AVE	LDC 8.06.01 Exterior Lighting		9/14/2023	2/8/2024
Closed	10400 COUNTY ROAD 48	illicit discharge		4/20/2023	2/8/2024

02/01/2024 - 02/29/2024

Main Status	Parcel Address	Violation Type	Violation Type	Case Date	Date Closed
	215 MESSINA PL HOWEY IN THE HILLS FL 34737		Zoning Chapter 7	8/10/2022	2/26/2024

Total Records: 17

3/1/2024

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Public Works

February 2024 – Monthly Report

Activity	Location/ Address	Notes
Road Maintenance / Potholes		
Stormwater/Drainage		
Building Maintenance	Town Hall	PW Staff repaired toilet handle in Town Hall
Grounds Maintenance	Library	PW Staff trimmed trees and hedges.
	Sara Maude Nature Trail	PW Staff added mulch along the Nature Trail.
	Town Hall Complex	PW Staff is pressure washing all the sidewalks around the Town Hall Complex.
Tree Trimming/Tree Removal/Stump Removal	125 E Cedar St.	Tree Contractor trimmed low hanging limbs over the street and right-of way at 125 E Cedar St.
Mowing/Weed Eating	Main Water Plant Well # 3 Lakeshore Blvd Cemetery Blevins Park Little Lake Harris Shoreline	Monthly Maintenance mowing, weed eating and edging. Monthly Mowing of Town Right of Way 9 Acre – Town Owned Parcel Weed Eating Little Lake Harris Shoreline
Pre-Grade Inspections Landscape/Irrigation Inspections Sidewalk Inspections	Talichet	 1 – Pre-Grade Inspection - SFR 0 – Final Lot Grading Inspection - SFR 0 – Final Landscape Inspection - SFR 0 – Sidewalk Inspection – SFR
	Talichet 2	 0 – Pre-Grade Inspection – SFR 6 – Final Lot Grading Inspection 6 – Final Landscape Inspection 0 – Sidewalk Inspection
	Venezia Townhomes	 6 – Pre-Grade Inspections – Town Home 0 – Final Lot Grading Inspection – Town Home 0 – Final Landscape Inspection – Town Home 0 – Sidewalk Inspection – Town Home
	In Field Lots	0 – Final Lot Grading Inspection
Lot Grading Plan Reviews Landscape/Irrigation Plan Reviews	Talichet Phase 2 Venezia Town Homes	0 – Lot Grading Plan/Landscape/Irrigation Reviews 0 – Lot Grading Plan Reviews

Additional Updates:

- Sara Maude Mason Nature Preserve nature trail is open to the public:
- The boardwalk will stay closed. (Unsafe for pedestrian traffic)
- Town Staff is working with FEMA Funding of reimbursement on the cost for repairs to the boardwalk.
- The Public Works Director has completed the RFP for the Reconstruction of the Sara Maude Mason Boardwalk. The Town has selected a contractor for the Sara Maude Mason Boardwalk Restoration Project.
- Town Attorney is reviewing the contract for the Sara Maude Mason Boardwalk Restoration Project

• Pine Park Update:

- The Town Engineer has designed a concept plan of Pine Park with amenities that include a driveway, parking area with handicap spaces, pickle ball courts, restrooms, pavilions, playgrounds, bike trail and trails connecting to Venezia HOA property for Venezia resident access.
- The Town Engineer is working with FDOT on a Driveway Permit for Pine Park. Once the permit has been issued, the Town will start construction on the driveway.

• LCWA Stormwater Grant Update:

- The Public Works is working with SJRWMD for any permitting required for the project.
- The Public Works Director is in contact with LCWA for all grant reports and requirements.
- The Town Engineer is having the Project Site surveyed to determine the high-water line, wetland delineation, and designing a project plan to submit to SJRWMD for permitting.

• FDEM Lift Station #1 and Lift Station #2 Bypass Pump Grant Update:

- The Public Works Director is working with FDEM on both grant applications during the grant review process.
- The Public Works Director is in contact with FDEM staff to provide additional documents and information needed during the review process.

• N. Citrus Avenue Update:

- The Town Engineer is working with the Surveying Team to finalize the survey for N. Citrus Avenue.



Public Utilities February 2024– Monthly Report

Activity	Location/ Address	Notes
Service orders	41 throughout town	Meter installations, Rereads, Pressure checks.
Data Logs	3 throughout town	3 data logs for leak check and high usage
Repair	WTP 1	Replace time relay switch in VFD for HSP4
Maintenance	WTP 1	Pressure washed all building, finished painting all piping



Library Director's Report Marianne Beck Memorial Library For the Month of February 2024

Statistics for February 2024

Digital: 150, KOHA: 1,927 **Total:** 2,077. Items borrowed from other libraries: 515, items loaned to other libraries: 359. There were 87 computer sessions in February. There were 150 downloads of Ebooks and Audiobooks. 17 residents received new library cards. A total of 3,501 residents visited the library in February.

Lake County Library System Update:

The BCC voted to push the submission of the Library Impact Fee application to April 1, 2024. I am working on a submission of design for an extension to the library.

Funds collected for February:

Copies/Fax: \$60.05 Fines: \$75.40 Total: \$135.45

Activities during the month of February:

The library held an adult crafting hour in February on book folding and also held a Family Trivia night on February 16th. 29 Howey residents attended trivia; our next trivia night will be held in May. We added a Pokemon league that meets Monday afternoons at 4:15pm.

Total Program Attendance for February: 398 patrons

The January Reading Challenge Stats: Number of books read: 90. Number of pages read: 19,087. Number of patrons participating 30. The results were posted on Facebook and Instagram. Resident, Sophia Hamblen was the winner of the raffle. March's challenge will be to read books with green on the cover. Patrons can enter the challenge through Beanstack on the LCLS website or in person, at the library.

The library was opened for 24 days in February.

Respectively Submitted,

Tara Hall, Library Director

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HOWEY-IN-THE-HILLS

REVENUES V.S. EXPENDITURES

February 29, 2024

REVENUES		RECEIVED	RECEIVED		ESTIMATED		REVENUE		PERCENT
	<u>CU</u>	CURRENT MON. YEAR-TO-DATE		AR-TO-DATE	REVENUE		TO BE RECEIVED		RECEIVED
001 GENERAL FUND	\$	11,942.46	\$	1,512,155.98	\$	2,555,938.00	\$	1,043,782.02	59%
120 POLICE ADV TRAINING	\$	-	\$	529.46	\$	3,000.00	\$	2,470.54	18%
130 TREE FUND	\$	-	\$	-	\$	1,000.00	\$	1,000.00	0%
140 WATER IMPACT FEES*	\$	18,904.92	\$	103,977.06	\$	1,162,653.00	\$	1,058,675.94	9%
141 PARK IMPACT FEES*	\$	5,949.67	\$	32,862.00	\$	738,000.00	\$	705,138.00	4%
142 POLICE IMPACT FEES*	\$	6,337.66	\$	35,005.11	\$	738,000.00	\$	702,994.89	5%
143 ROAD IMPACT FEES*	\$	-	\$	-	\$	1.00	\$	1.00	0%
144 WASTEWATER IMPACT FEES*	\$	-	\$	-	\$	1.00	\$	1.00	0%
145 STORMWATER IMPACT FEES*	\$	-	\$	-	\$	1.00	\$	1.00	0%
150 INFRASTRUCTURE FUND	\$	1,992.18	\$	84,183.11	\$	273,355.00	\$	189,171.89	31%
155 BUILDING FUND	\$	39,556.05	\$	240,710.10	\$	679,565.00	\$	438,854.90	35%
401 WATER/SANITATION FUND	\$	134,970.46	\$	710,332.00	\$	6,943,736.00	\$	6,233,404.00	10%
651 POLICE RETIREMENT	\$	219,653.40	\$	2,962,207.17	\$	13,293,673.00	\$	10,331,465.83	22%
TOTALS	\$	439,306.80	\$	5,681,961.99	\$	26,388,923.00	\$	20,706,961.01	22%

EXPENDITURES	COMMITTED		<u>COMMITTED</u>		CURRENT		<u>AVAILABLE</u>		PERCENT	
	CURRENT MON.		YE	YEAR-TO-DATE A		APPROPRIATION		PPROPRIATION	<u>COMM.</u>	
001 GENERAL FUND	\$	116,315.26	\$	975,510.06	\$	2,555,938.00	\$	1,580,427.94	38%	
120 POLICE ADV TRAINING	\$	-	\$	-	\$	3,000.00	\$	3,000.00	0%	
130 TREE FUND	\$	-	\$	-	\$	1,000.00	\$	1,000.00	0%	
140 WATER IMPACT FEES*	\$	-	\$	738,100.00	\$	1,162,653.00	\$	424,553.00	63%	
141 PARK IMPACT FEES*	\$	-	\$	83,744.89	\$	738,000.00	\$	654,255.11	11%	
142 POLICE IMPACT FEES*	\$	-	\$	-	\$	738,000.00	\$	738,000.00	0%	
143 ROAD IMPACT FEES*	\$	-	\$	-	\$	1.00	\$	1.00	0%	
144 WASTEWATER IMPACT FEES*	\$	-	\$	-	\$	1.00	\$	1.00	0%	
145 STORMWATER IMPACT FEES*	\$	-	\$	-	\$	1.00	\$	1.00	0%	
150 INFRASTRUCTURE FUND	\$	-	\$	-	\$	273,355.00	\$	273,355.00	0%	
155 BUILDING FUND	\$	19,711.32	\$	206,756.91	\$	679,565.00	\$	472,808.09	30%	
401 WATER/SANITATION FUND	\$	75,957.03	\$	631,159.60	\$	6,943,736.00	\$	6,312,576.40	9%	
651 POLICE RETIREMENT	\$	-	\$	32,874.14	\$	198,423.00	\$	165,548.86	17%	
TOTALS	\$	211,983.61	\$	2,668,145.60	\$	13,293,673.00	\$	10,625,527.40	20%	

HOWEY-IN-THE-HILLS

REVENUES V.S. EXPENDITURES

January 31, 2024

REVENUES		RECEIVED		RECEIVED	EIVED ESTIMATED			REVENUE	PERCENT
_	CURRENT MON.		YEAR-TO-DATE			REVENUE		O BE RECEIVED	RECEIVED
001 GENERAL FUND	\$	25,309.27	\$	1,377,792.05	\$	2,555,938.00	\$	1,178,145.95	54%
120 POLICE ADV TRAINING	\$	-	\$	529.46	\$	3,000.00	\$	2,470.54	18%
130 TREE FUND	\$	-	\$	-	\$	1,000.00	\$	1,000.00	0%
140 WATER IMPACT FEES*	\$	31,508.20	\$	85,072.14	\$	1,162,653.00	\$	1,077,580.86	7%
141 PARK IMPACT FEES*	\$	9,928.64	\$	26,912.33	\$	738,000.00	\$	711,087.67	4%
142 POLICE IMPACT FEES*	\$	10,576.16	\$	28,667.45	\$	738,000.00	\$	709,332.55	4%
143 ROAD IMPACT FEES*	\$	-	\$	-	\$	1.00	\$	1.00	0%
144 WASTEWATER IMPACT FEES*	\$	-	\$	-	\$	1.00	\$	1.00	0%
145 STORMWATER IMPACT FEES*	\$	-	\$	-	\$	1.00	\$	1.00	0%
150 INFRASTRUCTURE FUND	\$	-	\$	65,899.38	\$	273,355.00	\$	207,455.62	24%
155 BUILDING FUND	\$	62,504.99	\$	201,154.05	\$	679,565.00	\$	478,410.95	30%
401 WATER/SANITATION FUND	\$	143,034.57	\$	571,469.52	\$	6,943,736.00	\$	6,372,266.48	8%
651 POLICE RETIREMENT	\$	-	\$	221,857.94	\$	198,423.00	\$	(23,434.94)	112%
TOTALS	\$	282,861.83	\$	2,579,354.32	\$	13,293,673.00	\$	10,714,318.68	19%

EXPENDITURES	<u>C</u>	<u>OMMITTED</u>	<u>(</u>	<u>COMMITTED</u>	<u>CURRENT</u>			<u>AVAILABLE</u>	PERCENT
	CURRENT MON.		Y	YEAR-TO-DATE		APPROPRIATION		PPROPRIATION	COMM.
001 GENERAL FUND	\$	132,507.96	\$	809,744.41	\$	2,555,938.00	\$	1,746,193.59	32%
120 POLICE ADV TRAINING	\$	-	\$	-	\$	3,000.00	\$	3,000.00	0%
130 TREE FUND	\$	-	\$	-	\$	1,000.00	\$	1,000.00	0%
140 WATER IMPACT FEES*	\$	-	\$	536,100.00	\$	1,162,653.00	\$	626,553.00	46%
141 PARK IMPACT FEES*	\$	24,923.00	\$	82,361.20	\$	738,000.00	\$	655,638.80	11%
142 POLICE IMPACT FEES*	\$	-	\$	-	\$	738,000.00	\$	738,000.00	0%
143 ROAD IMPACT FEES*	\$	-	\$	-	\$	1.00	\$	1.00	0%
144 WASTEWATER IMPACT FEES*	\$	-	\$	-	\$	1.00	\$	1.00	0%
145 STORMWATER IMPACT FEES*	\$	-	\$	-	\$	1.00	\$	1.00	0%
150 INFRASTRUCTURE FUND	\$	-	\$	-	\$	273,355.00	\$	273,355.00	0%
155 BUILDING FUND	\$	17,766.09	\$	153,037.68	\$	679,565.00	\$	526,527.32	23%
401 WATER/SANITATION FUND	\$	121,771.21	\$	534,668.15	\$	6,943,736.00	\$	6,409,067.85	8%
651 POLICE RETIREMENT	\$	-	\$	24,476.55	\$	198,423.00	\$	173,946.45	12%
TOTALS	\$	296,968.26	\$	2,140,387.99	\$	13,293,673.00	\$	11,153,285.01	16%

HOWEY IN THE HILLS BANK ACTIVITY REPORT February 29, 2024

			•		
	ACCOUNTS				
151200					
Florida Prime Acco	ount				
STATE BOARD ADM	VINISTRATION BALANCE				FDEP SRF LC
	SBA FUND A	\$	20,479.14		*Payments of \$72,3
INTERES	ST RECEIVED (APY 5.676%)	\$	96.87	5.676%	Beg Balance as o
	ENDING BALANCE	\$	20,576.01		Principal pai
101076					End Balance as o
	NEY MARKET ACCOUNT				
(RESERVES)	BEGINNING BALANCE	\$	684,789.41		
	TRANSFERS IN (OUT)		-		
INTERES	T RECEIVED (APY 4.299%)		2,294.92	4.022%	
	ENDING BALANCE	\$	687,084.33		
101080					
	NEY MARKET ACCOUNT				
(BISHOPS GATE)	BEGINNING BALANCE	\$	2,926.48		
Sinking Fund	TRANSFERS IN (OUT)		-	0.0000/	
INTERES	T RECEIVED (APY 0.008%) ENDING BALANCE	\$	0.02	0.008%	
101091	ENDING BALANCE	Ş	2,926.50		
101081	NEY MARKET ACCOUNT				
(Public Fund)	BEGINNING BALANCE	ć	1,404,523.88		
(Public Fulla)	TRANSFERS IN (OUT)	\$ \$	1,404,525.88		
INTER	ST RECEIVED (APY 5.25%)	\$	5,715.49	0.407%	
	ENDING BALANCE	\$	1,410,239.37	0.40770	
101005	ENDING BALANCE	Ļ	1,410,239.37		
	NG ACCOUNT (Operating)				
Operating Checking		\$	1,520,349.56		
operating encerning	REVENUES DEPOSITED	Ŷ	476,075.71		
	TRANSFERS IN (OUT)		-		
	EXPENDITURES CLEARED		(554,230.58)		
	ENDING BALANCE	\$	1,442,194.69		
101160		Ŧ	_,,		
SEASIDE MONEY N	ARKET ACCOUNT				
	BEGINNING BALANCE	\$	356,450.08		
	TRANSFERS IN (OUT)	·	, -		
	DORMANT CHARGE		-		
INTERES	T RECEIVED (APY 4.474%)		1,153.53	3.883%	
	ENDING BALANCE	\$	357,603.61		
101110					
SEASIDE CHECKING	G ACCOUNT (Pay Loan)				
	BEGINNING BALANCE	\$	18,083.56		
	TRANSFERS IN (OUT)		-		
	DEPOSITED		-		
	ENDING BALANCE	\$	18,083.56		
101120					
SEASIDE SRF LOAN	SWEEP ACCOUNT				
	BEGINNING BALANCE	\$	2,490.97		
	TRANSFERS IN (OUT)		-		
	EXPENDITURES CLEARED				
	ENDING BALANCE	\$	2,490.97		
		<u> </u>			
	TOTAL	\$	3,941,199.04		

LOANS

FDEP SRF LOAN (2.71%/2.12% interest)

End Balance as of 11/30/2023	\$1,154,861.81
Principal paid 10/1/2023	(\$56,676.98)
Beg Balance as of 04/15/2023	\$1,211,538.79
Payments of \$72,314.68 made bi-annually.	