

APOPKA CITY COUNCIL AGENDA

October 03, 2018 1:30 PM APOPKA CITY HALL COUNCIL CHAMBERS

CALL TO ORDER INVOCATION PLEDGE

APPROVAL OF MINUTES:

1. City Council regular meeting and budget hearing September 19, 2018.

AGENDA REVIEW

EMPLOYEE RECOGNITION:

- Five Year Service Award Marianne R. Zerillo Public Services/Utility Administration
- * Ten Year Service Award Clifford R. MacDonald II Police/Field Services
- ❖ Fifteen Year Service Award Clifford A. White Public Services/Grounds
- ❖ Fifteen Year Service Award Barry Hornett Fire/EMS
- Fifteen Year Service Award Mark J. Fry Fire/EMS

PRESENTATIONS:

1. Presentation of funding by the Florida Department of Environmental Protection (FDEP)

Robert Charles Brooks for the Apopka Athletic Complex Florida Recreation Development Assistance Program (FRDAP) grant.

 Boy Scout Troop 211: WWII Monument Marker at Kit Land Nelson Park. Project: Monument to include a brick outlay with a bronze plaque. Phil Lamphere

PUBLIC COMMENT PERIOD:

The Public Comment Period is for City-related issues that may or may not be on today's Agenda. If you are here for a matter that requires a public hearing, please wait for that item to come up on the agenda. If you wish to address the Council, you must fill out an Intent to Speak form and provide it to the City Clerk prior to the start of the meeting. If you wish to speak during the Public Comment Period, please fill out a green-colored Intent-to-Speak form. If you wish to speak on a matter that requires a public hearing, please fill out a white-colored Intent-to-Speak form. Speaker forms may be completed up to 48 hours in advance of the Council meeting. Each speaker will have four minutes to give remarks, regardless of the number of items addressed. Please refer to Resolution No. 2016-16 for further information regarding our Public Participation Policy & Procedures for addressing the City Council.

CONSENT (Action Item)

- 1. Approve an amendment to the Agreement with Lake County for shared public service radio communication facilities.
- 2. School Concurrency Mitigation Agreement with Vista Reserve.
- 3. School Concurrency Mitigation Agreement with Meadow View Apartments.
- 4. Sewer and Water Capacity Agreement Lakeside Phase 2.

BUSINESS (Action Item)

1. Award a contract for the construction of the Alonzo Williams Park Community Center and off-street parking. Edward Bass

Final Development Plan/Plat - Lakeside, Phase 2
 Project: Avatar Properties, Inc.
 Location: South of Marshall Lake and West of SR 451

Bobby Howell

3. Final Development Plan/Plat – Vista Reserve

Jean Sanchez

Project: Pulte Home Company, LLC

Location: East side of Rogers Road, approx. ½ mile north of the intersection of Rogers Road & Lester Road.

PUBLIC HEARINGS/ORDINANCES/RESOLUTION (Action Item)

 Ordinance No. 2679 – Second Reading – Comprehensive Plan Amendment Project: City of Apopka - Capital Improvements Element – Recreation Improvements David Moon

Ordinance No. 2678 – First Reading – Change of Zoning/PUD Master Plan/Preliminary Development Plan Project: Mid-Florida Freezer Warehouses LTD; Florida Express Trucking, Inc.; Eagles Landing at Ocoee, LLC. Location: West side of SR 429, south of General Electric Road, and east of Hermit Smith Road

 Ordinance No. 2681 – First Reading – 2018 Annexation Cycle 5 Project: Construesse USA, Inc. Location: 2600 Rock Springs Road Jean Sanchez

4. Resolution 2018-20 - TEFRA Hearing on Revenue Bonds to Waste Management, Inc.

Edward Bass

Resolution 2018-21 - Statewide Mutual Aid Agreement

Assistant Chief Wylam

6. Resolution 2018-22 - Railroad Reimbursement Agreement

Jay Davoll

CITY COUNCIL REPORTS

MAYOR'S REPORT

1. Follow up on building located at Park Ave. and 5th Street.

ADJOURNMENT

MEETINGS AND UPCOMING EVENTS

DATE	TIME	EVENT
October 4, 2018	5:30pm – 9:00pm	Food Truck Round Up
October 8, 2018	6:30pm –	CONA Meeting – UCF Apopka Business Incubator
October 9, 2018	5:30pm – 7:30pm	Planning Commission Meeting
October 17, 2018	7:00pm –	City Council Meeting
October 20, 2018	11:00am – 12:00pm	Cookies & Milk with a Cop – NW Orange/Apopka Library
October 22, 2018	10:00am –	Lake Apopka Natural Gas District Board Meeting: Winter Garden
October 27, 2018	5:00pm – 9:00pm	Hometown Halloween in the Park – Kit Land Nelson Park
November 1, 2018	5:30pm – 9:00pm	Food Truck Round Up
November 7, 2018	1:30pm –	City Council Meeting
November 12, 2018	-	City Offices Closed in observance of Veterans Day
November 12, 2018	6:30pm –	CONA Meeting – UCF Apopka Business Incubator
November 13, 2018	5:30pm – 7:30pm	Planning Commissioner Meeting
November 17, 2018	11:00am – 12:00pm	Cookies & Milk with a Cop – NW Orange/Apopka Library
November 20, 2018	6:00pm –	Code Enforcement Hearing
November 21, 2018	7:00pm –	City Council Meeting
November 22, 2018	-	City Offices Closed in observance of Thanksgiving
November 23, 2018	-	City Offices Closed in observance of Thanksgiving
November 26, 2018	10:00am –	Lake Apopka Natural Gas District Board Meeting: Winter Garden

Individuals with disabilities needing assistance to participate in any of these proceedings should contact the City Clerk at least two (2) working days in advance of the meeting date and time at (407) 703-1704. F.S. 286.0105 If a person decides to appeal any decision or recommendation made by Council with respect to any matter considered at this meeting, he will need record of the proceedings, and that for such purposes he may need to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based.

Any opening invocation that is offered before the official start of the Council meeting shall be the voluntary offering of a private person, to and for the benefit of the Council. The views or beliefs expressed by the invocation speaker have not been previously reviewed or approved by the City Council or the city staff, and the City is not allowed by law to endorse the religious or non-religious beliefs or views of such speaker. Persons in attendance at the City Council meeting are invited to stand during the opening ceremony. However, such invitation shall not be construed as a demand, order, or any other type of command. No person in attendance at the meeting shall be required to participate in any opening invocation that is offered or to participate in the Pledge of Allegiance. You may remain seated within the City Council Chambers or exit the City Council Chambers and return upon completion of the opening invocation and/or Pledge of Allegiance if you do not wish to participate in or witness the opening invocation and/or the recitation of the Pledge of Allegiance.

19ITY OF APOPKA

Minutes of the regular City Council meeting held on September 19, 2018, at 7:00 p.m., in the City of Apopka Council Chambers.

PRESENT: Mayor Bryan Nelson

Commissioner Doug Bankson Commissioner Kyle Becker Commissioner Alice Nolan Commissioner Alexander Smith City Attorney Cliff Shepard City Administrator Edward Bass

PRESS PRESENT: John Peery - The Apopka Chief

Reggie Connell, The Apopka Voice

Wesh News

INVOCATION: - Mayor Nelson called on Chaplain Jim Schrock, Apopka Police Department, who gave the invocation.

PLEDGE OF ALLEGIANCE: Mayor Nelson introduced Emanuel Dejesus who led in the Pledge of Allegiance. He said on September 17, 1787, George Washington and James Madison signed the first U.S. Constitution at the Philadelphia Convention.

OPEN PUBLIC HEARING FOR FY18/19 BUDGET

Mayor Nelson announced that the City of Apopka City Council convenes this Public Hearing on the City of Apopka's Fiscal Year 2018-2019 Final Millage rate and Final Budget as required by Florida Statutes, Chapters 129 and 200.

Florida Statutes, Chapter 200 requires that a final public hearing on the budget be preceded by a two to five day notice of hearing. Florida Statutes, Chapter 129 requires that we advertise a summary of the final budget. He asked the clerk if there was proof of publication.

Mrs. Goff stated there was proof of publication of the Tax Increase Notice and the Budget Summary were advertised in the Orlando Sentinel on Sunday, September 16, 2018.

SET FINAL MILLAGE & BUDGET FOR FISCAL YEAR 2018-2019

1. Resolution No. 2018-18 - Setting the millage levy for the fiscal year 2018-2019 at 4.0376. The City Clerk read the title as follow:

RESOLUTION NO. 2018-18

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF APOPKA, FLORIDA, SETTING THE MILLAGE LEVY FOR FISCAL YEAR 2018-2019.

Mayor Nelson said Resolution 2018-18 is setting the millage levy for the FY 2018-2019 at 4.0376 mills, which represents an increase of 12.08% over the rolled back rate of 3.6024 mills.

Edward Bass, City Administrator, provided an overview of the proposed millage rate and proposed FY 18/19 Budget. He affirmed the first Public Hearing was held on September 5, 2018, at 5:15 p.m. to set the tentative millage rate and proposed budget. This is the final Public Hearing to set the final millage rate and budget for fiscal year that begins October 1, 2018, and ends September 30, 2019. He provided highlights stating the millage rate is at 4.0376 mills per \$1,000 of assessed value, which is a .25 increase from the prior year. There were no reserves or borrowing to balance the general fund this year. As of December 31, 2018, the Red Light Camera program is eliminated in the budget. There is funding for School Resource Officers in all of the Apopka Schools funded in this budget. Other highlights include the Orange County Station 29 agreement has been executed, and the meter replacement program are included. The City received \$85,000 for the Bear Cart Grant, which has been adjusted in this budget. Also, another change is the Police Department Grant funding for \$26,757 is included in this budget. He reported some money has been redirected from the Police and Fire Impact Fees to start the process of a needs assessment for a Public Safety Facility. Funding has been included for merit increases on a scale of 1-6%. He advised the evaluation process is being reviewed to tighten down on the employee performance. Money has been included from the Recreation Impact Fees for improved and additional parking at the NW Recreation Complex. He reviewed capital improvements that have had funding included in this budget. He stated that as these funds are expended they will come before Council for approval.

Mayor Nelson opened the meeting to a public hearing.

William Gusler provided copies of spreadsheets to Council pertaining to salary and merit pay looking at a comparative to surrounding cities. He said the City of Apopka was currently 3.4% higher than the other cities in the area. He stated the initial budget for merit raises started at 3% and with contention, it went back to the 1-6% increase. He said Mr. Bass said the evaluation process was going to be reviewed to make sure employees are being evaluated properly. He said the city averaged 4.5% citywide last year and some departments averaged over 5%. He stated he did not think this was realistic. He said with the data, 3% would be reasonable and higher than surrounding entities.

No one else wishing to speak, Mayor Nelson closed the public hearing.

MOTION by Commissioner Nolan, and seconded by Commissioner Smith to approve Resolution No. 2018-18, establishing Fiscal Year 2018-2019 final millage rate at 4.0376 mills. Motion carried unanimously with Mayor Nelson, and Commissioners Bankson, Becker, Smith, and Nolan voting aye.

Mayor Nelson said the City of Apopka has determined that a final millage rate of 4.0376 mills is necessary to fund the final budget. The final millage rate represents an increase of 12.08% from the rolled back rate of 3.6024 mills.

2. Resolution No. 2018-19 - Adopt the annual budget for fiscal year 2018-2019. The City Clerk read the title as follows:

RESOLUTION NO. 2018-19

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF APOPKA, FLORIDA, ADOPTING THE ANNUAL BUDGET FOR THE GENERAL FUND, SPECIAL REVENUE FUNDS, AND ENTERPRISE FUNDS FOR FISCAL YEAR 2018-2019.

Mayor Nelson said the Fiscal Year 2018-2019 proposed budget for all funds is balanced at \$114,691,561. This represents a decrease of \$9,981,148 or 8.0% from the FY 2017-2018 budget.

Commissioner Becker said at the last meeting Finance Director Roberson asked Council to let her know what reports going forward. He provided some examples of reports that would allow transparency and reports could be given either monthly or quarterly that would be helpful to see the year over year broken down and to see the total deficit.

Ms. Roberson said they planned to start providing reports on a quarterly basis.

Mayor Nelson opened the meeting to a public hearing. No one wishing to speak, he closed the public hearing.

Call for a MOTION to adopt Resolution No. 2018-19 adopting revenues, expenditures, and fund balances for the City's Fiscal Year Budget commencing on October 1, 2018, and ending on September 30, 2019.

MOTION by Commissioner Bankson, and seconded by Commissioner Nolan, to adopt Resolution 2018-19 adopting FY Budget 2018-2019 commencing on October 1, 2018, and ending on September 30, 2019. Motion carried unanimously with Mayor Nelson, and Commissioners Bankson, Becker, Smith, and Nolan voting aye.

Mayor Nelson said the City of Apopka has adopted Resolution No. 2018-19, which adopts revenues, expenditures, and fund balances for the City's Fiscal Year Budget commencing on October 1, 2018 and ending September 30, 2019 balancing all funds at \$114,691,561. He stated this concludes the Public Hearing on the City of Apopka's Fiscal Year 2018-2019 Final Millage rate and Final Budget as required by Florida Statutes, Chapters 129 and 200.

CLOSE PUBLIC HEARING FOR FY18/19 BUDGET

APPROVAL OF MINUTES:

- 1. City Council regular meeting September 5, 2018.
- 2. City Council budget hearing September 5, 2018.

MOTION by Commissioner Bankson, and seconded by Commissioner Nolan, to approve the minutes of August 15, 2018 as presented. Motion carried unanimously with Mayor Nelson, and Commissioners Bankson, Becker, Smith and Nolan voting aye.

AGENDA REVIEW – City Administrator Bass advised of one change under Business. Item 4 will be moved to Item 3.

PUBLIC COMMENT; STAFF RECOGNITION AND ACKNOWLEDGEMENT Presentations:

1. Super Hero Award to Christian Redmon and Anthony Torres for their outstanding community efforts.

Mayor Nelson presented Christian Redmon with a "Super Hero" award for his outstanding community efforts in raising money to help his friend who has childhood cancer. He raised approximately \$800 more or less by holding a carwash, selling pizza and lemonade, and a raffle to raise money.

Mayor Nelson presented Anthony Torres with a "Super Hero" award for his outstanding community efforts in raising approximately \$800 from selling lemonade from a lemonade stand on Wekiva Springs Road to help the homeless. He purchased all the food and he and his family helped serve food to the homeless at First Baptist Church.

- 2. Boy Scout Troop 211: WWII Monument Marker at Kit Land Nelson Park. Project: Monument to include a brick outlay with a bronze plaque. Withdrawn to a later date.
- 3. Chief McKinley recognized Captain Jerome Miller for his accomplishments in completing the FBI National Academy professional course at Quantico, VA. He said the FBI-NA is a national course of study for US and International law enforcement managers nominated by their agency head because of demonstrated leadership qualities. Participation in the Academy is by invitation only through a nomination process. Captain Miller attended Session 273 which consisted of approximately 220 law enforcement officials from around the world. Classes were offered in Intelligence Theory, Terrorism and Terrorist Mindsets, Management Science, Law, Behavioral Science, Law Enforcement Communication, and Forensic Science. In addition to academics, Captain Miller was required to participate in a demanding fitness program. Captain Miller is the first Apopka Police Officer to attend this prestigious law enforcement management training. He congratulated Captain Miller in completing this milestone in his law enforcement career.

Captain Miller thanked the Mayor, Commissioners and city staff for supporting him in his endeavor. He said he already had his information in the database prior to Chief McKinley coming to Apopka. Chief McKinley asked him if he was interested in attending the National Academy and his name was submitted for nomination. He said this was a once in a lifetime experience.

Public Comment:

Garvin Persad said he and his brother own Hi-Flo Muffler shop located in Apopka at 545 S. Orange Blossom Trail and for the past two years they have been establishing their business in Apopka. They would like to extend their business out and open a car wash under the existing awning. The prior owner conduced outdoor car repairs under this awning. They have requested a

permit for the carwash and it has not been issued. He reiterated their desire to expand their business and said they have a plan for the water retention.

Commissioner Becker said he has discussed this matter with them a few times and stated the city staff has made a notation regarding the downtown overlay district. He stated it was a broad term to the specific nature of what they are doing. They were told outdoor activity would be prohibited. He inquired how staff was classifying outdoor activity as well as indoor activity.

Mr. Hitt said they have not had any conversations since the owners spoke at the Planning Commission meeting. He said they would need to speak with the city engineer regarding retention of water.

Following discussion, Mr. Bass asked Mr. Persad to provide his contact information and staff will contact him to set up a meeting to discuss specifics with him.

Alyssa James & Catalina Sandoval, from the Apopka High School Drama Club, spoke about the Dram Club and what they try to accomplish, as well as exposing children to the arts. They do not receive any funding from the school. The Drama Club is getting ready to hold their fundraiser and requested support from the City. They left flyers with the Clerk to provide to the Mayor and Commissioners stating they hope the City will be able to offer support.

CONSENT

1. Approval of alcohol sales at the R&B Festival at Kit Land Nelson Park on September 29, 2018.

MOTION by Commissioner Becker, and seconded by Commissioner Smith, to approve one item on the Consent Agenda. Motion carried unanimously with Mayor Nelson and Commissioners Bankson, Becker, and Nolan voting aye.

BUSINESS

1. Reject RFP 2018-20 Insurance: Property, Casualty, and Liability & Workers Compensation.

Mayor Nelson opened the meeting to public comment.

David Lodwick, Halifax of Century and Public Risk, spoke in support of the staff recommendation. He said they understand this is a trying time to bid this service out. He said they were able to put together a proposal that included the Florida Municipal Insurance Trust administered by the Florida League of Cities. He said their proposal represented over a 10% decrease in opposition of the 9% increase in the current budget. Their bid also did not have a provision requiring a letter from the city 45 days in advance nor a resolution or ordinance from Council. Their proposal did not have any hidden fees. He said they were here to be a resource for the City and staff to allow them to get to know the Leagues program.

Mayor Nelson advised the current provider has a buyout clause that would cost additional funds. This action gets the City to the position that they will be able to rebid next year.

No others wishing to speak, Mayor Nelson closed the public comment.

MOTION by Commissioner Bankson, and seconded by Commissioner Smith to reject all bids for RFP 2018-20 and rebid at a future date. Motion carried unanimously with Mayor Nelson, and Commissioners Bankson, Becker, Smith, and Nolan voting aye.

2. Memorandum of Agreement – Property Exchange

Project: St. John's River Water Management District and the City of Apopka

Location: Off of Binion Road

Jim Hitt, Community Development Director, said this was a Memorandum of Agreement between the City of Apopka and St. John's River Water Management District (SJRWMD). The property the City is looking to exchange is located off Lust Road and Binion Road. The property is at the entrance of the Wildlife Trail, also known as the loop. He reviewed the location on a map and said this was probably one of the best viewing areas in Central Florida for birders. He said this is an entrance feature and the Orange Audubon Society representatives is present to discuss. He explained we are looking to do a property exchange, stating this property was declared surplus in 2012 and it has to retain environmentally friendly and conscious property, which is a reflection of the property when it was provided to SJRWMD. He said the City would be stewards of the property, having worked out a 69-acre parcel with an entrance off Lust Road. Part of the exchange is the City taking over this portion and at a future date the SJRWMD may relocate their offices on a 5-acre piece of property the City owns off of Binion Road on the west side. IFAS is located nearby and the opportunity to have SJRWMD office in Apopka on the shores of Lake Apopka is something to seriously consider. He explained there are three parts to this, the Memorandum of Agreement and two options; one option is to possibly take over an additional portion of property for \$10.00. He reiterated the swap of land is the City exchanging 5-acres for 69acres of land.

Mayor Nelson opened public comment.

Deborah Green, Orange Audubon Society, said Bird of Palooza introduced people to the Lake Apopka North Shore wildlife, which began a public movement to try to obtain access to see the wildlife. This led to the Lake Apopka Loop Trail being open by Orange County from Magnolia Park to the Pump House in 2013. The plan is for this to connect to the coast-tocoast connector trail. The Lake Apopka Wildlife Trail opened in 2015 with approximately 2,500 people going through the drive each weekend. She said there has not been a lot of advertising on the trail and most of the comments are through Facebook where some good photographers are posting. The wildlife drive is only open Friday, Saturday, Sundays, and Federal Holidays. She said the Hickerson property is to the right of the entrance to the Wildlife Drive and the SJRWMD purchased this property in the late 1990's and they are not using it to restore Lake Apopka, so the property was been placed on the surplus list in 2012. She stated this could be a passive nature park open 7-days a week. She reviewed the surrounding parcels. The Orange Audubon Society is proposing a Gateway Birding Park, passive recreation park, immediate valuate of parking for carpooling on the drive for the three days the drive is open. This could also be utilized for parking for cycling or pedestrian entry for the drive on the days it is closed, as well as a place to be able to go birding and hiking 7-days a week. This is an upland site that several species of birds need and found on this site. Orange Audubon did a study and found over 100 species of birds. She suggested the renovation of the existing building at some point could serve various functions. Prior to

opening a passive birding park, the concrete pads from the greenhouses could be utilized for parking and would only require cleaning up of the site. Fencing and a gate would need to be installed near the entrance, bear proof trashcans, and port-o-lets would be required. She said this would be a low-level park for people to walk around and utilization of parking. They would plant bird friendly trees as well as other vegetation install benches and mowing paths. She affirmed they have a tentative plan for this and advised that a Memorandum of Understanding between Orange Audubon and the City was signed June 17, 2017. She urged Council to approve the Memorandum of Agreement with SJRWMD to accept this property exchange.

Robert Stamps said he was a 4-year resident of the area and hopes Council approves this agreement. He stated Dr. Green has pointed out the benefits to Apopka. He said more bird species have been seen on the Wildlife Drive in Apopka than at Black Point Drive at Merritt Island National Wildlife Refuge. He said there were multiple economic benefits to Apopka with more people coming to this park and they will make purchases while here. The citizens will have a very unique park not seen any place else that will be free and provide access to the Lake Apopka Loop Trail, Wildlife Drive, and to this 69-acre passive park. Another potential is concerning the Director of IFAS sending a letter to the Executive Director of the SJRWMD about doing some cooperative programs and work.

Steve Coleman said he was here to speak on behalf of the Gateway Birding Park proposal. He stated it is his hope Council would approve and proceed with this proposal and by doing this Apopka will make an unprecedented statement in eco-tourism. This very action would put Apopka on the map as a destination for anyone living in or visiting Central Florida. He said the best part is that this is free for families to come, explore, learn, and get away for a few hours. He stated he has learned so much about Lake Apopka and its wildlife since coming to the Wildlife Drive. The Gateway Birding Park will be the next step in the evolution of Apopka's rise and commitment to something that is unique, different, and the only one of its kind in Central Florida. He said he comes to the drive every weekend to capture the landscape, gators, bald eagles, and sunsets in photographs. He spoke of many people he has met from all over while at the Wildlife Drive. He declared the Gateway Birding Park would attract hundreds of birders from all over the world to come visit and spend money in Apopka.

Commissioner Becker said the photographs of sunsets and wildlife Steve takes are amazing. He thanked Steve for his comments.

Commissioner Bankson said Dr. Green mentioned 2,500 visitors a week and that is 130,000 a year. He stated that could grow and bring business and interest to Apopka.

Commissioner Nolan said we are very fortunate that we have the Wildlife Drive. She stated her family was recently out there and spoke of the people that were there enjoying the area. She would like to see more education for this area.

Commissioner Smith said being an Agriculturist, this is his ideal that we have something no one else has to be able to enjoy and give citizens a different aspect of nature. He stated he fully supports this idea of the project.

Mayor Nelson said for Apopka to be able to have the SJRWMD Service Center there would make this a win-win. He stated Fred Brummer brought on the Bird of Palooza and got it started. They were not able to hold it last year due to the dikes being compromised from the storm. He affirmed that two years ago we were in the top 10 of birding destinations.

MOTION by Commissioner Nolan and seconded by Commissioner Smith to approve the Memorandum of Agreement as presented. Motion carried unanimously with Mayor Nelson, and Commissioners Bankson, Becker, Smith, and Nolan voting aye.

Mr. Hitt complimented the Audubon Society stating that Dr. Green has been out there tirelessly planting different trees and putting a lot into this based on our Memorandum of Understanding with the Orlando Audubon Society.

 Final Development Plan – Apopka Medical Office Project: Urgent Care Developers of Apopka, LLC

Location: 1520 West Orange Blossom Trail

Jean Sanchez, Planner, provided an overview of the Apopka Medial Office Final Development Plan. She reviewed the location on a map and showed the surrounding land uses. She advised only a portion of this area is proposed to be developed at this time. The total area is approximately 4.5 acres and the applicant intends to replat the parcels and form lots 1 and 2. Approximately a 5,300 square foot building will be developed for this use. The stormwater will be located on the southern portion of the site that may later be incorporated into a master stormwater pond jointly used by the entire development. There will be 26 parking spaces will be provided, of which two are handicap accessible. This project will have right in right out only access to U.S. 441. She reviewed the landscape plan. The DRC recommends approval. The Planning Commission recommends approval subject to the findings of the staff report. The recommendation is to approve the Apopka Medical Office Final Development Plan subject to the findings of the staff report.

Commissioner Becker said this was less than half a mile from the developments they reviewed at the last meeting in terms of the lack of a right turn lane into the property.

Ms. Sanchez said the Transportation Planner as well as the project engineer and applicant are in contact with FDOT in terms of the right turn lane.

Selby Weeks, Engineer for the project said the staff report has been reviewed and they agree with the conditions. He stated the City and the applicant have reached out to FDOT regarding the right turn lane. They are in the permitting process on the driveway and they anticipate a right turn lane will not be required on this first phase of the project. The trips generated do not warrant a right turn lane for this project, but as it develops out, a right turn lane is more of a possibility.

Pam Richmond, Transportation Planner, said this is a valid point, but with a traffic analysis, there are certain boundaries they have to stay within, one being that they can require a traffic study if the project generates less than 400 trips. In this case, they did not due to knowing more development is coming. She stated when they do that traffic study they will do an accumulative study for the site. She declared with regards to a right turn lane, they are at the

mercy of FDOT on a road that they have jurisdiction. She advised FDOT has been asked to please consider the safety with regards to a right turn lane for this area.

Mr. Weeks said as this site is developed, it may have a higher number of trips generated and they will be back before Council with another plan and DOT will look at the site accumulatively. At that time the developer may be required to put in a right turn lane.

Mayor Nelson opened the meeting to public comment. No one wishing to speak he closed the public comment.

MOTION by Commissioner Bankson, and seconded by Commissioner Nolan to approve the Final Development Plan for Apopka Medical Office Building. Motion carried 4-1 with Mayor Nelson, and Commissioners Bankson, Smith, and Nolan voting aye, and Commissioner Becker voting nay.

PUBLIC HEARINGS/ORDINANCES/RESOLUTION

1. Resolution No. 2018-17 – Land Dedication for Public Right-of-Way

Project: The Coca-Cola Company

Location: Grand Avian Parkway. The City Clerk read the title as follows:

RESOLUTION 2018-17

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF APOPKA, FLORIDA, ACCEPTING A QUIT CLAIM DEED FROM THE COCA-COLA COMPANY FOR REAL PROPERTY; DIRECTING THE CITY CLERK OR DESIGNEE TO RECORD THE EXECUTED DEED IN THE PUBLIC RECORDS OF ORANGE COUNTY, AND PAY ALL FEES NECESSARY TO EFFECTUATE SUCH RECORDATION; PROVIDING SEVERABILITY AND AN EFFECTIVE DATE.

David Moon, Planning Manager, said this resolution is for City Council to accept a 30-foot wide tract of land owned by the Coca-Cola Company. The site is located on the east side of a 30-acre piece of property owned by Coca-Cola. This dedication of land will allow improved road access to the Coca-Cola property, as well as allow Grand Avian Parkway to contain an 80-foot wide right-of-way in lieu of 50-feet, allowing room for a two-lane divided street with a landscape or grass median and a multi-use trail and sidewalk on opposite sides of the street. DRC recommends acceptance of the land dedication.

Mayor Nelson opened the meeting to a public hearing. No one wishing to speak, he closed the public hearing.

MOTION by Commissioner Nolan, and seconded from Commissioner Smith to approve Resolution 2018-17, accepting a Quit Claim deed from Coca-Cola for the donation of said property. Motion carried unanimously with Mayor Nelson, and Commissioners Bankson, Becker, Smith, and Nolan voting aye.

2. Ordinance No. 2618 – Second Reading – Comprehensive Plan Amendment – Large Scale –

Project: Orlando Beltway Associates

Location: West & East of S.R. 429, north of Kelly Park Road. The City Clerk read the title as

follows:

ORDINANCE NO. 2618

AN ORDINANCE OF THE CITY OF APOPKA, FLORIDA, AMENDING THE **FUTURE** LAND **USE ELEMENT OF** THE **APOPKA** COMPREHENSIVE PLAN OF THE CITY OF APOPKA; CHANGING THE FUTURE LAND USE DESIGNATION FROM "COUNTY" RURAL RESIDENTIAL DISTRICT TO "CITY" MIXED USE - INTERCHANGE FOR CERTAIN REAL PROPERTY GENERALLY LOCATED WEST OF PLYMOUTH SORRENTO ROAD AND EAST OF EFFIE DRIVE, OWNED BY ORLANDO BELTWAY ASSOCIATES; COMPRISING 107.5 ACRES, MORE OR LESS, PROVIDING FOR SEVERABILITY; AND PROVIDING FOR AN EFFECTIVE DATE.

David Moon, Planning Manager, advised there have been no changes since the first reading.

Mayor Nelson opened the meeting to a public hearing. No one wishing to speak, he closed the public hearing.

MOTION by Commissioner Bankson, and seconded by Commissioner Nolan to adopt Ordinance No. 2618. Motion carried unanimously with Mayor Nelson, and Commissioners Bankson, Becker, Smith, and Nolan voting aye.

3. Ordinance No. 2658 – Second Reading – Comprehensive Plan Amendment – Large Scale – Legislative Project: Eagles Landing at Ocoee, LLC

Location: South of Peterson Road, West of SR 429. The City Clerk read the title as follows:

ORDINANCE NO. 2658

AN ORDINANCE OF THE CITY OF APOPKA, FLORIDA, AMENDING THE **FUTURE LAND USE ELEMENT OF** THE **APOPKA** COMPREHENSIVE PLAN OF THE CITY OF APOPKA; CHANGING THE FUTURE LAND USE DESIGNATION FROM MIXED USE AND AGRICULTURE TO INDUSTRIAL FOR CERTAIN REAL PROPERTY GENERALLY LOCATED SOUTH OF PETERSON ROAD AND WEST OF STATE ROAD 429, OWNED BY EAGLES LANDING AT OCOEE, LLC; COMPRISING 37.4 ACRES, MORE OR LESS, PROVIDING FOR SEVERABILITY; AND PROVIDING FOR AN EFFECTIVE DATE.

Phil Martinez, Planner, advised there have been no changes since the first reading.

Mayor Nelson opened the meeting to a public hearing. No one wishing to speak, he closed the public hearing.

MOTION by Commissioner Nolan, seconded by Commissioner Bankson to adopt Ordinance No. 2658. Motion carried unanimously with Mayor Nelson, and Commissioners Bankson, Becker, Smith, and Nolan voting aye.

4. Ordinance No. 2659 – Second Reading - Comp Plan – Large Scale – Kelly Park Reserve Project: Min Sun Cho, Hong Sik and Deok Hwa Kim Location: 4068, 4046, & 4022 Plymouth Sorrento Road. The City Clerk read the title as follows:

ORDINANCE NO. 2659

AN ORDINANCE OF THE CITY OF APOPKA, FLORIDA, AMENDING THE OF THE **FUTURE** LAND **USE ELEMENT APOPKA** COMPREHENSIVE PLAN OF THE CITY OF APOPKA; CHANGING THE FUTURE LAND USE DESIGNATION FROM RESIDENTIAL VERY LOW SUBURBAN TO MIXED USE - INTERCHANGE FOR CERTAIN REAL PROPERTY GENERALLY LOCATED WEST OF PLYMOUTH SORRENTO ROAD AND NORTH OF APPY LANE, OWNED BY MIN SUN CHOE, HONG SIK KIM & DEOK HWA KIM; COMPRISING 20 ACRES, MORE OR LESS, PROVIDING FOR SEVERABILITY; AND PROVIDING FOR AN EFFECTIVE DATE.

Mr. Martinez advised there have been no changes since the first reading.

Mayor Nelson opened the meeting to a public hearing. No one wishing to speak, he closed the public hearing.

MOTION by Commissioner Smith, seconded by Commissioner Nolan to adopt Ordinance No. 2659. Motion carried unanimously with Mayor Nelson, and Commissioners Bankson, Becker, Smith, and Nolan voting aye.

 Ordinance No. 2671 – Second Reading - PUD Master Plan Amendment – Avian Pointe Project: Apopka Clear Lake Investments, LLC Location: East side of SR 429, north of Lust Road. The City Clerk read the title as follows:

ORDINANCE NO. 2671

AN ORDINANCE OF THE CITY OF APOPKA, FLORIDA, AMENDING ORDINANCE 2292, WHICH AMENDS THE ADOPTED "AVIAN POINTE PLANNED UNIT DEVELOPMENT (PUD) MASTER PLAN" FOR CERTAIN REAL PROPERTY LOCATED NORTH OF LUST ROAD AND EAST OF SR 429, COMPRISING 127.21 ACRES MORE OR LESS; OWNED BY APOPKA CLEAR LAKE INVESTMENTS, LLC; PROVIDING FOR DIRECTIONS TO THE COMMUNITY DEVELOPMENT DIRECTOR, SEVERABILITY, CONFLICTS, AND AN EFFECTIVE DATE.

Mr. Moon advised there have been no changes to the Ordinance. City Council is requested to take two actions, one is to adopt Ordinance No. 2671 and the second is to approve the Development Agreement related to the development site. He advised the developer is present to answer any questions by Council and he finds the agreement acceptable.

Mayor Nelson opened the meeting to a public hearing.

Derek Ryan lives on Petersen Road and expressed concerns regarding traffic and safety of equipment and trucks traveling in the area of King Street and Petersen Road. He said that Florida Cactus sells their succulents retail, so there is also a lot of smaller vehicle traffic. He stated the road was not wide enough for two-lane traffic to safely pass each other and trucks must swing wide to go around the 90-degree curve, which is also a blind curve.

Commissioner Bankson inquired if the reason the curve is a blind curve was due to overgrowth, to which Mr. Ryan responded in the affirmative.

Mr. Moon affirmed staff has been aware of the situation on Petersen Road and King Street since Mr. Bombeeck began planning this site. He stated it is likely that Petersen Road from King Street to the project entrance will require some type of improvement. He affirmed there was sufficient right-of-way on both streets.

No one else wishing to speak, Mayor Nelson closed the public hearing.

MOTION by Commissioner Bankson, and seconded by Commissioner Becker to adopt Ordinance No. 2671. Motion carried unanimously with Mayor Nelson, and Commissioners Bankson, Becker, Nolan, and Smith voting aye.

MOTION by Commissioner Smith and seconded by Commissioner Nolan to approve the Development Agreement for Avian Pointe. Motion carried unanimously with Mayor Nelson, and Commissioners Bankson, Becker, Smith, and Nolan voting aye.

6. Ordinance No. 2672 – Second Reading - "MEdTech Campus Overlay District" Project: City of Apopka – Kelly Park Interchange Form-Based Code Amendment. The City Clerk read the title as follows:

ORDINANCE NO. 2672

AN ORDINANCE OF THE CITY OF APOPKA, FLORIDA, AMENDING THE KELLY PARK INTERCHANGE FORM BASED CODE BY CREATING A NEW OVERLAY DISTRICT ENTITLED "MEDTECH CAMPUS OVERLAY DISTRICT", PROVIDING FOR DIRECTIONS TO THE CITY CLERK; SEVERABILITY; CONFLICTS; AND AN EFFECTIVE DATE.

Jim Hitt, Community Development Director, said suggested revisions were made to the definition of technology.

Commissioner Becker asked if they were trying to isolate technology to more hardware, to which Mr. Hitt responded in the negative. The consensus was to add verbiage to include

"production or research of advance or sophisticated devices or software technologies in the field of electronics, robotics, ...".

Mayor Nelson opened the meeting to a public hearing. No one wishing to speak, he closed the public hearing.

MOTION by Commissioner Nolan, and seconded by Commissioner Bankson, to adopt Ordinance No. 2672 with the revised verbiage as suggested. Motion carried unanimously with Mayor Nelson, and Commissioners Bankson, Becker, Nolan, and Smith voting aye.

7. Ordinance No. 2674 – Second Reading – 2018 Annexation Cycle 4 – Parcel

Project: City of Apopka

Location: East side of North Hiawassee Road, south of US 441. The City Clerk read the title

as follows:

ORDINANCE NO. 2674

AN ORDINANCE OF THE CITY OF APOPKA, FLORIDA, TO EXTEND ITS TERRITORIAL AND MUNICIPAL LIMITS TO ANNEX PURSUANT TO CHAPTER 171.044, FLORIDA STATUTES THE HERINAFTER DESCRIBED LANDS SITUATED AND BEING IN ORANGE COUNTY FLORIDA, OWNED BY THE CITY OF APOPKA; AND LOCATED ON THE EAST SIDE OF N HIAWASSEE ROAD AND SOUTH OF US 441/ORANGE BLOSSOM TRAIL; PROVIDING FOR DIRECTIONS TO THE CITY CLERK, SEVERABILITY, CONFLICTS, AND AN EFFECTIVE DATE.

Pam Richmond, Senior Planner, said there have been no changes since the first reading.

Mayor Nelson opened the meeting to a public hearing. No one wishing to speak, he closed the public hearing.

MOTION by Commissioner Nolan, and seconded by Commissioner Bankson to adopt Ordinance No. 2674. Motion carried unanimously with Mayor Nelson, and Commissioners Bankson, Becker, Nolan, and Smith voting aye.

8. Ordinance No. 2675 – Second Reading – 2018 Annexation Cycle 4 – Road Right-of-Ways Project: Orange County

Locations: North Hiawassee Road, Lust Road, East Votaw Road, North Christiana Avenue, South Christiana Avenue, Vick Road, West Martin Street, E Nancy Lee Lane, and W Nancy Lee Lane. The City Clerk read the title as follows:

ORDINANCE NO. 2675

AN ORDINANCE OF THE CITY OF APOPKA, FLORIDA, TO EXTEND ITS TERRITORIAL AND MUNICIPAL LIMITS TO ANNEX PURSUANT TO FLORIDA STATUTE 171.044 THE HEREINAFTER DESCRIBED

PUBLIC RIGHTS-OF-WAY KNOWN AS NORTH HIAWASSEE ROAD, LUST ROAD, EAST VOTAW ROAD, NORTH CHRISTIANA AVENUE, SOUTH CHRISTIANA AVENUE, VICK ROAD, WEST MARTIN STREET, EAST NANCY LEE LANE, AND WEST NANCY LEE LANE, SITUATED AND BEING IN ORANGE COUNTY, FLORIDA, AND COMPRISED OF APPROXIMATELY 16.341 ACRES; OWNED BY ORANGE COUNTY BOARD OF COUNTY COMMISSIONERS; PROVIDING FOR DIRECTIONS TO THE CITY CLERK, SEVERABILTY, CONFLICTS, AND AN EFFECTIVE DATE.

Ms. Richmond advised there have been no changes since the First Reading.

Mayor Nelson opened the meeting to a public hearing. No one wishing to speak, he closed the public hearing.

MOTION by Commissioner Smith, and seconded by Commissioner Becker to adopt Ordinance No. 2675. Motion carried unanimously with Mayor Nelson, and Commissioners Bankson, Becker, Nolan, and Smith voting aye.

9. Ordinance No. 2673 – First Reading – Land Development Code Amendment Project: City of Apopka – Article V, Section 5.05.00 – Floodplains. The City Clerk read the title as follows:

ORDINANCE NO. 2673

AN ORDINANCE BY THE APOPKA CITY COUNCIL AMENDING THE APOPKA CODE OF ORDINANCES TO REPEAL LAND DEVELOPMENT CODE SECTION 5.05.00 FLOODPLAINS; TO ADOPT A NEW SECTION 5.05.00; TO AMEND LAND DEVELOPMENT CODE SECTION 1.09.13 DEFINITIONS; TO ADOPT FLOOD HAZARD MAPS, TO DESIGNATE A FLOODPLAIN ADMINISTRATOR, TO ADOPT PROCEDURES AND CRITERIA FOR DEVELOPMENT IN FLOOD HAZARD AREAS, AND FOR OTHER PURPOSES; TO ADOPT TECHNICAL AMENDMENTS TO THE FLORIDA BUILDING CODE; PROVIDING FOR APPLICABILITY; SEVERABILITY, AND AN EFFECTIVE DATE

Richard Earp, City Engineer, said in order for the City to maintain compliance with the minimum requirements of FEMA National Flood Insurance program, revisions to the floodplain ordinance and associated floodplain elements of the Land Development Code are required. He stated he worked with FEMA to develop these code revisions as required by the Florida Division of Emergency Management and FEMA. The language addresses the consistency issues between our definitions for Floodplain Administrator and other definitions with the Florida Building Code and FEMA minimum requirements. He said the only change not required by FEMA was the increase of a home 2-feet above floodplain elevation. This allows the City to continue additional FEMA community rating system credits and discounts for residents with flood insurance. The recommendation is to approve at first reading and carry over for a second reading.

Mayor Nelson opened the meeting to a public hearing. No one wishing to speak, he closed the public hearing.

MOTION by Commissioner Nolan, and seconded by Commissioner Becker to approve Ordinance No. 2673 at First Reading and carry it over for a Second Reading. Motion carried unanimously with Mayor Nelson, and Commissioners Bankson, Becker, Smith, and Nolan voting aye.

10. Ordinance No. 2679 – First Reading – Comprehensive Plan Amendment
 Project: City of Apopka - Capital Improvements Element – Recreation Improvements. The
 City Clerk read the title as follows:

ORDINANCE NO. 2679

AN ORDINANCE OF THE CITY OF APOPKA, FLORIDA, AMENDING THE CAPITAL IMPROVEMENTS ELEMENT OF THE APOPKA COMPREHENSIVE PLAN OF THE CITY OF APOPKA INCORPORATING AN AMENDMENT TO THE CITY'S FIVE YEAR CAPITAL IMPROVEMENTS PLAN; PROVIDING FOR SEVERABILITY AND PROVIDING FOR AN EFFECTIVE DATE.

Mr. Moon said this was the first reading amending the Capital Improvement Element of the Comprehensive Plan to include playground improvements at Kit Land Nelson Park and the NW Recreation Area to be eligible for the grant.

Mayor Nelson opened the meeting to a public hearing. No one wishing to speak, he closed the public hearing.

MOTION by Commissioner Nolan, and seconded by Commissioner Smith to approve Ordinance No. 2679 at First Reading, and carry it over for a Second Reading. Motion carried unanimously with Mayor Nelson, and Commissioners Bankson, Becker, Smith, and Nolan voting aye.

CITY COUNCIL REPORTS

Commissioner Nolan thanked staff for constantly looking for grants to improve the City.

Commissioner Bankson said a representative from Israel will be here next month and he would like to work with staff regarding partnering on bringing jobs to our area and headquartering here. He said when he makes the trip to Israel he wants to represent for the City and look at partnering and sister cities.

Commissioner Smith said he attended, as well as Commissioner Becker, the event this weekend regarding Childhood Cancer Awareness and it was an outstanding event. He commended City staff for the lights out front of City Hall.

MAYOR'S REPORT

1. Billie Dean Building.

Mr. Bass said he met with Commissioner Dean and they came to a resolution of rather than naming a road after him, he is honored and satisfied with having his name on the new community center at Alonzo Williams Park.

2. UCF Incubator Building located at Park Ave. and 5th Street. Mayor Nelson said Mr. Hitt was going to lead a discussion on the property at Park Avenue and 5th Street. Mr. Hitt said this property is for sale and has been for sale for approximately a year. He stated the building was a little over 20,000 square feet with five units currently in the building. He said the interior could be easily changed. It is block construction built in 1953. The City has an opportunity to purchase the building that was originally put on the market for \$1.2 million and the real estate agent came in to discuss the plans for the downtown and discussed the opportunity for this in terms of development. The property was recently reduced to \$850,000. He said when Council discussed relocating the UCF Incubator; they talked about finding a more permanent home for it. He said the Chamber of Commerce also needs a larger facility and this would be an opportunity for these entities sharing the space of this building with an opportunity to expand spaces for businesses that go through the incubator to stay and pay rent for the space. He stated the City would have to determine funding if they decide to move on this opportunity.

Commissioner Becker said this was intriguing for the land, versus the building itself. He felt it would be a miss to exploit that location and use it for the incubator and chamber. In terms of making the area, an attractive space to tie in with the west development of Station Street makes that area a natural progression from there on to the City Center.

Mayor Nelson said this property is available and the City has land we are selling. He stated there is a possibility for funding available up to 80% for improvements of the UCF Incubator if located there.

Commissioner Nolan said this was a prime location for the private sector, but she did not see moving the incubator there or the City owning this property. She stated there were other areas they need to focus on more rather than spending money on this.

Commissioner Bankson said this would put the City in the position to help develop and have more control of what is developed. He mentioned the condition of the roof and said there would need to be inspections of the building.

Commissioner Smith said he felt it was a good idea for the City to purchase the property and have control of what types of businesses they would like to see there. He stated he looked at this as an investment and an opportunity to make more money to fill some of the gaps.

Commissioner Becker said if looking at this as just that building alone, he could see those points. He stated with the RFP for Station Street and tying in the other city owned properties, it is all ties in together and makes that bundle more attractive to a potential developer.

Commissioner Bankson said in regards to timing, it is a larger ticket item and the City can approach how to fund and finance this in a different way than smaller items. He stated interest rates were historically low now and it would be making an investment that will pay off longer in the end.

Mr. Bass said financing options would be utilizing proceeds from property the city sells and invest those in this capital. Another option would be to finance, or take from reserves. The reserves would be replenished when the property is sold.

Mayor Nelson said the next step would be to look into having an appraisal done if the Council is interested in moving on this.

Mr. Hitt said he had funds in his budget that would cover an appraisal and building inspection.

Commissioner Smith asked if the owner could sale this property while the City obtains an appraisal.

City Attorney Shepard said the owner could sale the property, unless the City puts it under an option contract to give them time, but the City would pay for the option. He explained the City could enter in to a contract for a specified amount and have it contingent on certain things such as the appraisal and inspection so that if anything comes back problematic, the City would then get their deposit money back, but they would pay for the time it is off the market as negotiated. He spoke of the City being able to control the palate being critical when discussing redevelopment and pointed out this is in the CRA.

Commissioner Nolan said she felt the City should have the money before going down this road.

Commissioner Bankson reiterated he would not want to purchase something without knowing what condition it is in.

Mayor Nelson suggested an option of \$10,000 and a purchase price of \$800,000 with all the conditions that go with it including a sound roof, appraised value of \$800,000 or more. If the appraisal does not come back, then we would not be out anything.

Mr. Hitt said he could ask for a 2-3 week grace period without doing an option, and if not, then move forward with an option.

MOTION by Commissioner Smith to allow Mr. Hitt to speak with the property owner to allow a three-week grace period to get the property inspected and appraised and if the owner does not agree to the grace period, and offer an option up to \$10,000 deposit to allow time to inspect the building and have an appraisal done with an offer of \$800,000. Motion failed due to lack of a second.

Discussion ensued regarding the building and what to utilize it for; whether to immediately put it on the market for development, or utilize for the Incubator and Chamber. It was determined this would be a matter to determine at a later time.

MOTION by Commissioner Smith, and seconded by Commissioner Becker to allow for an appraisal to be done and ask for a three week grace period to get it done. Motion CITY OF APOPKA
Minutes of a regular City Council meeting held on September 19, 2018, 7:00 p.m.
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carried 4-1 with Mayor Nelson, and Commissioners Bankson, Becker, and Smith voting aye and Commissioner Nolan voting nay.

Mayor Nelson reported that Rotarian Gary Kreisler's company, Clancy & Theys, is working with the Mason Lodge to get the wood repaired and painting of the lodge. Home Depot has offered all supplies to help with these improvements.

Mayor Nelson reported the total taken in for the Splash Pad to date is \$4,289. This has paid for the chemicals and staff. He announced that Porkie's purchased 200 tickets to give away to patrons that come in with children.

Mr. Bass said we were hearing complaints regarding the mowing of the golf course at Errol Estates and Rock Springs Ridge. He advised both owners have been contacted and they have started mowing. The City has requested schedules from both parties.

ADJOURNMENT: There being no further business the meeting adjourned at 10:21 p.m.



CITY OF APOPKA CITY COUNCIL

X	CONSENT AGENDA	MEETING OF:	October 3, 2018
	PUBLIC HEARING	FROM:	Police Department
	SPECIAL REPORTS	EXHIBITS :	Agreement
	OTHER:		

SUBJECT: TOWER SITE AGREEMENT

REQUEST: AUTHORIZE THE MAYOR TO EXTEND THE AGREEMENT WITH LAKE

COUNTY TO CO-LOCATE A NORTHERN COMMUNICATIONS SITE.

SUMMARY:

The City Council authorized the purchase and construction of a northern communications site (Motorola 2nd Site) to improve the radio communications coverage of public safety and general city services provided by the city. Apopka staff negotiated with Lake County staff regarding the colocation of radio services. Apopka City Council and Lake County Commission approved an agreement for Apopka's use of Lake County land and Lake County's use of Apopka's communications tower. The agreement had a six month permitting clause. The permitting process is nearly complete, however it has exceeded the six-month clause. Lake County and Apopka staff request an amendment to allow for a six-month extension.

FUNDING SOURCE:

N/A

RECOMMENDATION ACTION:

Authorize the Mayor to extend the permitting clause.

DISTRIBUTION

Mayor NelsonFinance DirectorPublic Services DirectorCommissionersHR DirectorRecreation DirectorCity AdministratorIT DirectorCity ClerkCommunity Development DirectorPolice ChiefFire Chief

FIRST AMENDMENT TO INTERLOCAL AGREEMENT

BETWEEN

LAKE COUNTY, FLORIDA

AND

CITY OF APOPKA, FLORIDA

FOR SHARED PUBLIC SERVICE RADIO COMMUNICATION FACILITIES

THIS IS THE FIRST AMENDMENT to the Interlocal Agreement between Lake County, Florida, a political subdivision of the State of Florida ("COUNTY"), by and through its Board of County Commissioners, and the City of Apopka, Florida, a municipal corporation organized under the laws of the State of Florida ("CITY").

WHEREAS, on May 3, 2018, the COUNTY and CITY entered into an Interlocal Agreement for construction and operation of a public safety radio communication facilities on County Property ("Agreement"); and

WHEREAS, the COUNTY and CITY desire to amend the Agreement to extend the date in which all required approvals can be obtained from six (6) months to one (1) year from the effective date.

NOW, THEREFORE, IN CONSIDERATION of the mutual terms, understandings, conditions, premises, and covenants hereinafter set forth in this First Amendment, and intending to be legally bound, the COUNTY and the CITY agree as follows:

- 1. **RECITALS.** The foregoing recitals are true and correct and incorporated herein by reference.
- **2. AMENDMENT.** Section 21 is hereby amended to state as follows:
 - 21. <u>APPROVALS</u>. The CITY will be responsible to apply for the appropriate COUNTY variances, permits, zoning approvals, site plan approval and building permits, in accordance with the applicable provisions in the Lake County Code and Land Development Regulations. If the CITY does not or is unable to obtain all required approvals within 6-months 1 (one) year of the Effective Date this Agreement, this Agreement shall be deemed null and void.

3. EFFECT OF AMENDMENT. All other provisions of the Agreement will remain in full force and effect unless otherwise formally amended by the parties. To the extent this First Amendment conflicts with the Agreement, this First Amendment will govern.

IN WITNESS WHEREOF, the parties hereto have made and executed this First Amendment on the respective dates under each signature: Lake County, through its Board of County Commissioners, signing by and through its Chairman, and by the City of Apopka, Florida, through its City Council, signing by and through its Mayor.

ATTEST:

LAKE COUNTY, FLORIDA through its BOARD OF COUNTY COMMISSIONERS

Gary J. Cooney, Clerk of the Board of County Commissioners

Commissioners of Lake County, Florida

County, Florida

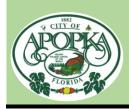
Timothy I. Sullivan, Chairman

This ale of September, 2018.

Approved as to form and legality:

Melanie Marsh, County Attorney

ATTEST:	CITY OF APOPKA, FLORIDA	
Linda F. Goff, City Clerk	Bryan Nelson, Mayor	-
	This day of, 20	18.
Approved as to form and legality:		
Cliff Shenard City Attorney		



CITY OF APOPKA CITY COUNCIL

X CONSENT AGENA MEETING OF: October 3, 2018

PUBLIC HEARING FROM: Community Development SPECIAL REPORTS EXHIBITS: Concurrency Agreement

OTHER:

SUBJECT: VISTA RESERVE SCHOOL CONCURRENCY MITIGATION

AGREEMENT

REQUEST: APPROVAL OF THE VISTA RESERVE SCHOOL CONCURRENCY

MITIGATION AGREEMENT

SUMMARY:

New residential development applications are reviewed by Orange County Public Schools (OCPS) for their impact placed on existing student capacity at public schools. This school impact analysis, called school concurrency, occurs at the time of a Final Development Plan and Plat application. In 2008 the City of Apopka entered into an interlocal agreement with the Orange County School Board to address public school facility planning and implementation of school concurrency (hereafter School Agreement). As a party to this School Agreement, the City becomes a party to this Agreement. Therefore, City Council must accept the Agreement and authorize the Mayor to sign it to allow OCPS to implement the mitigation plan. When school enrollment is over capacity at the public schools serving additional students generated by a proposed residential development, a new development must have a school concurrency mitigation analysis to determine additional cost of school impacts the proposed development will generate above that considered by the school impact fee. The developer pays these additional fees according to the conditions of the school concurrency mitigation fee. (See exhibit.)

OWNER/APPLICANT: Pulte Home Company, LLC/Pulte Home Corporation

PROJECT ENGINEER: Madden, Moorhead & Stokes, Inc.

LOCATION: East side of Rogers Road, approximately one half mile north of the

intersection of Rogers Road and Lester Road

PROPOSED DEVELOPMENT: 153 single family homes; developed in one phase

DEVELOPABLE AREA: 61.1 +/- acres

SCHOOL ATTENDENCE ZONES: Wolf Lake Elementary, Wolf Lake Middle, Apopka High

FUNDING SOURCE: N/A

DISTRIBUTION

Mayor Nelson Finance Director Public Services Director
Commissioners HR Director Recreation Director

City Administrator IT Director City Clerk
Community Development Director Police Chief Fire Chief

CITY COUNCIL – OCTOBER 3, 2018 VISTA RESERVE - SCHOOL CONCURRENCY MITIGATION AGREEMENT PAGE 2

<u>PUBLIC HEARING SCHEDULE</u>: October 3 – City Council (1:30 pm)

RECOMMENDATION ACTION:

City Council Recommended Motion: Approve the Vista Reserve Concurrency Mitigation Agreement and authorize the Mayor to sign the Agreement.

After recording return to:

Jamie Boerger, AICP Orange County Public Schools 6501 Magic Way, Building 200 Orlando, Florida 32809



SCHOOL CONCURRENCY MITIGATION AGREEMENT APK-18-017 Vista Reserve Parcel ID 29-20-28-0000-00-003

THIS SCHOOL CONCURRENCY MITIGATION AGREEMENT ("Agreement"), is entered into by THE SCHOOL BOARD OF ORANGE COUNTY, FLORIDA a body corporate and political subdivision of the State of Florida, ("School Board"); CITY OF APOPKA, a municipal corporation of the State of Florida, ("City") and PULTE HOME COMPANY, a State of Florida limited liability company, whose address is 4901 Vineland Road, Suite 500, Orlando, Florida 32811, (collectively, the "Applicant"), collectively referred to herein as the "Parties."

RECITALS:

WHEREAS, the School Board, Orange County, and the municipalities within Orange County have entered into that certain "Amended and Restated Interlocal Agreement For Public School Facility Planning and Implementation of Concurrency" (the "Interlocal Agreement"), and

WHEREAS, pursuant to Section 16.6 of the Interlocal Agreement, an applicant submitting a School Concurrency Determination Application for approval of a Site Plan that will generate additional students in a School Concurrency Service Area in which there is insufficient Available School Capacity to accommodate the anticipated additional students must enter into a Proportionate Share Mitigation Agreement to prevent school overcrowding attributable to the anticipated additional students generated by the Residential Development as specified in the Interlocal Agreement;

WHEREAS, an Applicant must submit the School Concurrency Determination Application along with a Development Analysis which identifies the proposed location of the Residential Development, the number of Residential Units that will be created, a phasing schedule (if applicable), a map demonstrating land use and zoning classifications for the Applicant's property, as well as all other information required pursuant to Section 16.5 of the Interlocal Agreement, to the City; and

WHEREAS, Applicant is the fee simple owner, or authorized agent of the owner, of that certain tract of land, as more particularly described on **Exhibit "A,"** attached hereto and

incorporated herein by reference (the "Property"), the location of which is illustrated by a map attached hereto as **Exhibit "B,"** and incorporated herein by reference; and

WHEREAS, the Applicant has submitted a School Concurrency Determination Application and Development Analysis to the City in connection with a proposal to obtain approval for a plat in order to develop up to 153 single family Residential Units on the Property (the "Project") and the City has forwarded the School Concurrency Determination Application and Development Analysis to the School Board; and

WHEREAS, the School Board has reviewed and evaluated the Applicant's School Concurrency Determination Application and Development Analysis as required by Section 18.6 of the Interlocal Agreement, and has determined that based on the current adopted Level of Service standards for the School Concurrency Service Areas within which the Property is located and the anticipated new School Capacity that will be available in the first three (3) years of the current District Facilities Work Program to serve the proposed Residential Development, there is insufficient Available School Capacity at the middle school level to serve the new single-family Residential Units within the School Concurrency Service Areas for the Project or within adjacent School Concurrency Service Areas as determined by an Adjacency Review; and

WHEREAS, approving the School Concurrency Determination Application without requiring Proportionate Share Mitigation for the impacts of the proposed Project will either create or worsen school overcrowding in the applicable School Concurrency Service Areas; and

WHEREAS, the Applicant has agreed to enter into this Agreement with the School Board and City to provide Proportionate Share Mitigation proportionate to the demand for Public School Facilities to be created by the Project, as more particularly set forth herein.

NOW, THEREFORE, in consideration of the foregoing, the mutual covenants contained herein, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties hereto, intending to be legally bound, agree as follows:

- 1. INCORPORATION OF RECITALS. The foregoing recitals are true and correct and are hereby incorporated into this Agreement by reference as if fully set forth herein.
- 2. DEFINITION OF MATERIAL TERMS. Any capitalized terms used herein but not defined shall have the meaning attributed to such term in the Interlocal Agreement.
- 3. LEGALLY BINDING COMMITMENT. This Agreement constitutes a legally binding commitment by the Applicant to mitigate for the impacts of the new Residential Units for which the Applicant is seeking approval pursuant to the School Concurrency Determination Application and is intended to satisfy the requirements of Florida law and the Orange County Code.
- 4. PROPORTIONATE SHARE MITIGATION. The Parties hereby agree that the Applicant shall provide Proportionate Share Mitigation in order to meet the demand for School Capacity created by the Project and to provide additional capacity for middle school students, as follows, in accordance with Section 19.2 of the Interlocal Agreement:

Payment in the amount of ONE MILLION ONE HUNDRED EIGHTY THREE THOUSAND SEVEN HUNDRED EIGHTY FIVE AND 00/100 DOLLARS (\$1,183,785.00) to cover the Proportionate Share Mitigation associated with providing the necessary school capacity for the Project (the "Proportionate Share") to the School Board. Such payment shall be due and payable prior to the time the plat for the Property is approved and has been calculated in accordance with the formula found in Section 17.2 of the Interlocal Agreement. To the extent the Applicant's proposed Residential Development is subject to a Capacity Enhancement Agreement, any capacity enhancement mitigation paid pursuant to such agreement will be applied as a credit to the Proportionate Share Mitigation required for the Project. Such credit will be subtracted from the total Proportionate Share Mitigation required pursuant to this Agreement and the Interlocal Agreement.

- 5. USE OF PROPORTIONATE SHARE. The School Board shall direct the Proportionate Share to a School Capacity improvement identified in the capital improvement schedule in the five (5) year district work plan of the School Board's District Facilities Work Program which mitigates the impacts from the proposed Residential Development. If such a School Capacity improvement does not exist in the District Facilities Work Program, the School Board may, in its sole discretion, add a School Capacity improvement to its District Facilities Work Program to mitigate the impacts from the Project, as provided in Section 17.6 of the Interlocal Agreement.
- 6. IMPACT FEE CREDIT. The Proportionate Share Mitigation paid pursuant to Section 4 of this Agreement shall be credited against the School Impact Fee on a dollar for dollar basis at fair market value, up to the amount of the School Impact Fee Credit (hereinafter defined).

Upon payment of the Proportionate Share Mitigation., the School Board shall notify the City to establish a School Impact Fee credit account in the amount of NINE HUNDRED TWENTY ONE THOUSAND SEVEN HUNDRED FIFTY ONE AND 68/100 DOLLARS (\$921,751.68) based upon 105 Equivalent Residential Units (as defined in Section 30-622 of the Orange County Code) ("Impact Fee Credit Amount"). Applicant shall not be entitled to a credit or refund for any portion of the Proportionate Share Mitigation in excess of the Impact Fee Credit Amount.

- 7. ISSUANCE OF SCHOOL CONCURRENCY RECOMMENDATION. Upon final execution of this Agreement by all Parties hereto, this Agreement will serve as the Applicant's Capacity Encumbrance Letter in accordance with Section 16.7 of the Interlocal Agreement.
- 8. SCHOOL CAPACITY ENCUMBRANCE AND RESERVATION. Upon final execution of this Agreement by all Parties hereto, this Agreement will serve as the Applicant's Capacity Encumbrance Letter that School Capacity will be available for the Project. This is in accordance with Section 16.6(g) of the Interlocal Agreement.

At such time as Applicant has prepaid the School Impact Fees further described in Section 6 of this Agreement, and paid the applicable installment(s) of the School Capacity Reservation Fee described in Section 9 below, School Capacity shall be reserved for 153 single family Residential Units; if the Applicant fails to make any of the required School Capacity Reservation Fee payments described in Paragraph 9 below or if this Agreement is terminated, such reserved School Capacity shall lapse and be returned to the applicable Concurrency Service Area.

- 9. CAPACITY RESERVATION FEE. The Applicant shall also be required to pay a School Capacity Reservation Fee for the Project in accordance with Section 30-599 of the Orange County Code. The Applicant shall pay the School Capacity Reservation Fee further described below.
 - a. 1st Installment due within six (6) months of the Effective Date of this Agreement: \$ 447,984.00
 - b. 2nd Installment due 18 months from the Effective Date of this Agreement: \$447.984.00
 - c. 3rd Installment due 30 months from the Effective Date of this Agreement: \$447,984.00

Notwithstanding the schedule provided by this Section, Applicant may prepay any or all of the School Capacity Reservation Fees in advance. School Capacity Reservation Fees paid pursuant to this Agreement shall be credited towards School Impact Fees as provided in Section 30-599 of the County Code. Additionally, Applicant may apply the Impact Fee Credit Amount against any one of the foregoing installment payments.

- 10. TERMINATION. This Agreement shall terminate and Applicant shall forfeit any administrative fees paid, as well as any capacity encumbered or reserved under the following circumstances, unless the City and the School Board agree to an extension of the Applicant's School Concurrency Mitigation Agreement:
- a. The Applicable Local Government does not approve the Plat within one hundred eighty (180) days from approval of the Site Plan by the City Council. In such event, all Proportionate Share Mitigation paid by the Applicant shall be refunded to the Applicant by the School Board.
- b. The Applicant fails to proceed in good faith and secure at least one Building Permit for a unit other than a model home within three (3) years of recording of the plat. In such case, this Agreement shall be terminated and any encumbered or reserved school capacity shall be returned to its applicable capacity bank. The Applicant will not be entitled to a refund of any portion of the Proportionate Share Mitigation paid under this Agreement, and will only be entitled to receive a 90% refund of the Capacity Reservation Fee.
- 11. COVENANTS RUNNING WITH THE LAND. This Agreement shall be binding, and shall inure to the benefit of the heirs, legal representatives, successors, and assigns of the parties, and shall be a covenant running with the Property and be binding upon the successors and assigns of the Owner and upon any person, firm, corporation, or entity who may become the successor in interest to the Property.
- 12. NOTICES. Any notice delivered with respect to this Agreement shall be in writing and be deemed to be delivered (whether or not actually received) (i) when hand delivered to the person(s) hereinafter designated, or (ii) upon deposit of such notice in the United States Mail, postage prepaid, certified mail, return receipt requested, addressed to the person at the address set forth opposite the party's name below, or to such other address or other person as the party shall have specified by written notice to the other party delivered in accordance herewith:

School Board School Board of Orange County, Florida

Attn: Superintendent 445 West Amelia Street Orlando, Florida 32801

With a Copy to: Orange County Public Schools

Attn: Facilities Planning Department 6501 Magic Way, Building 200

Orlando, Florida 32809

Applicant: Gray Robinson, P.A.

Attn: Thomas Sullivan

301 E. Pine Street, Suite 1400

Orlando, Florida 32801

With a Copy to: Pulte Home Company, LLC

4901 Vineland Road, Suite 500

Orlando, Florida 32811

City: City of Apopka

Attn: Planning Department

120 E. Main Street Apopka, Florida 32703

- 13. CAPTIONS AND PARAGRAPH HEADINGS. Captions and paragraph headings contained in this Agreement are for convenience and reference only. They in no way define, describe, extend or limit the scope or intent of this Agreement.
- 14. NO WAIVER. No waiver of any provision of this Agreement shall be effective unless it is in writing, and signed by the party against whom it is asserted. Any such written waiver shall only be applicable to the specific instance to which it relates, and shall not be deemed to be a continuing or future waiver.
- 15. EXHIBITS. All Exhibits attached hereto are a part of this Agreement and are fully incorporated herein by this reference.
- 16. AMENDMENTS. No modification, amendment, or alteration in the terms or conditions contained herein shall be binding upon the parties hereto unless in writing and executed by all the Parties to this Agreement. School Board does hereby confer upon the Superintendent, or Superintendent's designee, the authority to amend this Agreement, provide any consent, notice or approval set forth herein or otherwise exercise any right or election of the School Board granted or reserved herein, without formal approval from School Board, provided such amendment or consent does not substantially alter or modify the terms herein. Further, the Superintendent, or Superintendent's designee, shall have the authority, without further approval from the School Board, to finalize the form of all agreements, assignments, and similar documents set forth in this Agreement, and the School Board's signature of those agreements, assignments, and similar

documents is hereby authorized. The extension of any payment or deadline required hereunder for less than one (1) year shall not be considered to substantially alter or modify the terms herein. If, in the sole judgment of School Board, such amendment or consent does substantially alter or amend this Agreement, then School Board shall have the option of declaring the amendment or consent void *ab initio*, thus rendering the amendment or consent without any legal force and effect.

ASSIGNMENT, TRANSFER OF RIGHTS. The Applicant may assign its rights, obligations and responsibilities under this Agreement to a third-party purchaser of all or any part of fee simple title to the Property; provided, however, that any such assignment shall be in writing and shall require the prior written consent of all of the Parties hereto, which consent shall not be unreasonably withheld, conditioned, or delayed. Such consent may be conditioned upon the receipt by the other parties hereto of the written agreement of the assignee to comply with conditions and procedures to aid in the monitoring and enforcement of the assignee's performance of the Applicant's obligations with regard to Proportionate Share Mitigation under this Agreement. The assignor under such assignment shall furnish the Parties with a copy of the written assignment within ten (10) days of the date of execution of same.

The School Board hereby consents to the assignment of this Agreement to KB Home Orlando LLC, a Delaware limited liability company, and by signing the Joinder and Consent to this Agreement, KB Home Orlando LLC, for itself and on behalf of any affiliate that may become an assignee of this Agreement, hereby agrees upon acquisition of the Property to agree all rights and obligations of Applicant hereunder and further agrees to assume and comply with all conditions and procedures to aid in the monitoring and enforcement of the assignee's performance of the Applicant's obligations with regard to the applicable Capacity Reservation Fees and Proportionate Share Mitigation under this Agreement, including, without limitation, under Sections 4, 6 and Section 9 of this Agreement.

- 18. COUNTERPARTS. This Agreement may be signed in counterparts, each of which may be deemed an original, and all of which together constitute one and the same agreement.
- 19. RECORDING OF THIS AGREEMENT. The School Board agrees to record this Agreement, at Applicant's expense, in the Public Records of Orange County, Florida.
- 20. ENTIRE AGREEMENT. This Agreement sets forth the entire agreement among the Parties with respect to the subject matter addressed herein, and it supersedes all prior and contemporaneous negotiations, understandings and agreements, written or oral, among the Parties.
- 21. SEVERABILITY. If any provision of this Agreement is declared invalid or unenforceable by a court of competent jurisdiction, the invalid or unenforceable provision will be stricken from the Agreement, and the balance of the Agreement will remain in full force and effect as long as doing so would not affect the overall purpose or intent of the Agreement.
- 22. APPLICABLE LAW. This Agreement and the provisions contained herein shall be construed, controlled, and interpreted according to the laws of the State of Florida and in accordance with the Orange County Code and venue for any action to enforce the provisions of this Agreement shall be in the Ninth Judicial Circuit Court in and for Orange County, Florida.

- 23. ATTORNEY'S FEES. In the event any party hereto brings an action or proceeding, including any counterclaim, cross-claim, or third party claim, against any other party hereto arising out of this Agreement, each party in such action or proceeding, including appeals therefrom, shall be responsible for its own attorney fees.
- 24. EFFECTIVE DATE. The effective date of this Agreement shall be the date when the last one of the parties has properly executed this Agreement as determined by the date set forth immediately below their respective signatures (the "Effective Date").
- 25. PRE-PAYMENT, MITIGATION & CAPACITY RESERVATION FORMS. This Agreement requires the Applicant to pay a Proportionate Share Mitigation and a portion of the Capacity Reservation Fee prior to the recording of a Plat. The form attached hereto as **Exhibit** "C," must be completed and returned to the School Board's Facilities Planning Department with all fees due hereunder, including, but not limited to, applicable Capacity Reservation Fees and Proportionate Share Mitigation. This form must be completed and returned to the Facilities Planning Department, in addition to all fees payable pursuant to the terms of this Agreement, to satisfy Sections 4 and Section 9 of this Agreement.

[SIGNATURE PAGES TO FOLLOW]

IN WITNESS WHEREOF, the Parties have caused this Agreement to be executed by their respective duly authorized representatives on the dates set forth below each signature:

	"SCHOOL BOARD"	
Signed and sealed in the presence of:	THE SCHOOL BOARD OF ORANGE COUNTY, FLORIDA, a body corporate and political subdivision of the State of Florida	
Print Name:	By: William E. Sublette, its Chairman	
Print Name:	Date:	
, 2018, by William E. County, Florida, a body corporate and political control of the contr	acknowledged before me this day of Sublette, Chairman of The School Board of Orange ical subdivision of the State of Florida, on behalf of	
The School Board, who is pers (type of iden	onally known to me or had produced tification) as identification.	
	NOTARY PUBLIC OF FLORIDA	
	Print Name: Commission No.:	
AFFIX NOTARY STAMP	Expires:	

[ADDITIONAL SIGNATURE PAGES TO FOLLOW]

THE SCHOOL BOARD OF ORANGE

COUNTY, FLORIDA, a body corporate

Date: ______, 2018

and political subdivision of the State of Florida Signed and sealed in the presence of: Print Name:_____ Attest: Barbara M. Jenkins, Ed.D. as its Secretary and Superintendent Print Name: Dated: STATE OF FLORIDA) s.s.: COUNTY OF ORANGE The foregoing instrument was acknowledged before me this ___ day of _____, 2018, by Barbara M. Jenkins, ED.D.as Superintendent of The School Board of Orange County, Florida, a body corporate and political subdivision of the State of Florida, on behalf of The School Board, who is personally known to me or has produced (type of identification) as identification. NOTARY PUBLIC OF FLORIDA Print Name:_____ Commission No.:_____ AFFIX NOTARY STAMP Expires: Reviewed and approved by Orange County Approved as to form and legality by legal Public School's Chief Facilities Officer counsel to The School Board of Orange County, Florida, exclusively for its use and reliance. John T. Morris Laura L. Kelly, Staff Attorney III/Planning Chief Facilities Officer and Real Estate

"APPLICANT"

Signed and sealed in the presence of:	PULTE HOME COMPANY, LLC, a Florida limited liability company	
	By:	
Print Name:	Print Name:	
	Title:	
Print Name:		
	Date:	
STATE OF FLORIDA)		
) s.s.:		
STATE OF FLORIDA)) s.s.: COUNTY OF ORANGE)		
The foregoing instrument was ac	cknowledged before me this day of	
2018, by	as of Pult	
	liability company. He/she is personally known to me o (type of identification) as identification.	
	NOTARY PUBLIC OF FLORIDA	
	Print Name:	
	Commission No.:	
AFFIX NOTARY STAMP	Expires:	

Exhibit "A" Legal Description

Begin at the Southwest corner of the NW 1/4 of Section 29, Township 20 South, Range 28 East, Orange County, Florida; run thence North along the West line of said NW 1/4 a distance of 985.01 feet to the North line of the South 3/4 of the South 1/2 of said NW 1/4; run thence N88°38'14"E along said North line a distance of 2689.71 feet to the Northeast corner of said South 3/4; run thence S00°48'06"E along the East line of said NW 1/4 a distance of 989.23 feet to the Southeast corner of said NW 1/4; run thence S88°43'54"W along the South line of said NW 1/4 a distance of 2703.46 feet to the Southwest corner thereof, and the Point of Beginning. All being and lying in the NW 1/4 of Section 29, Township 20 South, Range 28 East, Orange County, Florida.

Also described as:

The South 3/4 of the South 1/2 of the NW 1/4 of Section 29, Township 20 South, Range 28 East, Orange County, Florida.

Also described as:

The South sixty (60) acres of the NW 1/4 of Section 29, Township 20 South, Range 28 East, Orange County, Florida.

Exhibit "B" Location Map







Jurisdiction: Orange County School Board Dist.: # 7 Parcel ID: 29-20-28-0000-00-003 Acreage: +/- 61 ac Schools ES: Wolf Lake MS: Wolf Lake HS: Apopka

APK-18-017 Vista Reserve

Exhibit "C"-Forms



CAPACITY RESERVATION FEE & MITIGATION FORM

DEPARTMENT OF FACILITIES PLANNING
6501 MAGIC WAY, BUILDING 200, ORLANDO, FL 32809
TEL: 407-317-3974 / FAX: 407-317-3263 / WEBSITE: http://planning.ocps.net

A Concurrency Mitigation Agreement (CMA) or Capacity Encumbrance Letter (CEL) may require property owners and developers to pay a Capacity Reservation Fee (CRF) and/or Proportionate Share Mitigation at some point in the development process prior to issuance of a building permit. This form must be completed and returned to the Department of Facilities Planning at Orange County Public Schools (OCPS) along with a check for the estimated Capacity Reservation Fees, and/or Proportionate Share Mitigation. This form must be completed and returned to the Department of Facilities Planning at Orange County Public Schools. Any questions regarding this form should be directed to the following:

Contact: Jamie Boerger, AICP

(407) 317-3700 x2022391 Jamie.DiLuzioBoerger@ocps.net

NO	CMA \ CEL #:
	CMA \CEL Title:
ATIC	Jurisdiction:
SECTION 1: CMA/CEL INFORMATION	Parcel ID(s):1
	General Location:
	Development Permit Type: ²
	Date:
Z O	Applicant Name:
SECTION 2: APPLICANT INFORMATION	Company:
	Address:
NPPLIC	Phone #:
4	Email:

Capacity Reservation Fee Form - Page 1 of 3

Revised 1/13/17

Exhibit "C"-Forms

CAPACITY RESERVATION FEE & MITIGATION FORM

2	Plat/Site Plan Title: ³
	Project Title:
3: PROFILE	Phase:
SECTION 3 DEVELOPMENT P	# Single Family Units:
	# Multi-Family Units:
	# Townhome Units:
	Total # of Units:
	Local Governmental Approval date of Plat/Site Plan:

.	Capacity Reservat	tion Fee Amount (payable to the app	licable local government)	
	Installment: $\Box 1^{st} \Box 2^{nd} \Box 3^{rd} \Box$	Remaining Balance \$		
	Proportionate Share Mitigation Amount (payable to Orange County School Board)			
IAR		\$		
SECTION 4: PAYMENT SUMMARY	A check made payable to OCPS must accompany this form. If the prepayment amount is correct and the form complete and sufficient, a Letter of Authorization will be prepared by OCPS to inform the Applicable Local Government to create a credit account. OCPS will forward the Letter of Authorization to the Applicable Local Government and copy the Applicant.			
≥ ≥	Single Family	Multi-Family	Townhome	
Į Š	\$8,784/unit	\$5,919/unit	\$6,930/unit	
_	Does this CMA / CEL require an additional contribution? Yes \text{No} \text{No}			
	Identify the section of the CMA / CEL that requires the mitigation payment?			

Applicant Checklist:				
	Capacity Reservation Fee check, paya	ble to the applicable <u>Loca</u>	I Government. (Delive	er to OCPS)
	Proportionate Share Mitigation check	, payable to the Orange O	County Public Schools.	(Deliver to OCPS)
	11 X 17 copy of the site plan/plat asso	ciated with this request.	(Attach to email)	
	Signature of Applicant	Print Name of A	Applicant	 Date

Capacity Reservation Fee Form – Page 2 of 3

Exhibit "C"-Forms

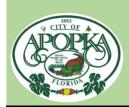
CAPACITY RESERVATION FEE & MITIGATION FORM

For OCPS Use Only:			
Reviewer	ţ	Received Stamp	
Date Reviewed	l:		
	Application Sufficient		
	Letter of Authorization Approved		

Footnotes:

- List all parcel identification numbers assigned to the parcels within the Preliminary Subdivision Plan (PSP), site plan, or plat boundaries that apply to this application. List parcel IDs in a separate attachment, if necessary.
- Development permit type state whether the credit will be applied to a plat, PSP, site plan, or other type of permit
 required by local government. Only one development permit type should apply. A separate Prepaid School Impact Fee
 Form must be completed for each development permit application.
- 3. State the title of the PSP, site plan or plat exactly as it appears on that document.

Capacity Reservation Fee Form - Page 3 of 3



CITY OF APOPKA CITY COUNCIL

X CONSENT AGENA MEETING OF: October 3, 2018

PUBLIC HEARING FROM: Community Development SPECIAL REPORTS EXHIBITS: Concurrency Agreement

OTHER:

SUBJECT: MEADOW VIEW APARTMENTS SCHOOL CONCURRENCY

MITIGATION AGREEMENT

REQUEST: APPROVAL OF THE MEADOW VIEW APARTMENTS SCHOOL

CONCURRENCY MITIGATION AGREEMENT

SUMMARY:

New residential development applications are reviewed by Orange County Public Schools for their impact placed on existing student capacity at public schools. This school impact analysis, called school concurrency, occurs at the time of a Final Development Plan and Plat application. In 2008 the City of Apopka entered into an interlocal agreement with the Orange County School Board to address public school facility planning and implementation of school concurrency (hereafter School Agreement). As a party to this School Agreement, the City becomes a party to the Agreement. Therefore, City Council must accept the Agreement and authorize the Mayor to sign it to allow OCPS to implement the mitigation plan. When school enrollment is over capacity at the public schools serving additional students generated by a proposed residential development, a new development must have a school concurrency mitigation analysis to determine additional cost of school impacts the proposed development will generate above that considered by the school impact fee. The developer pays these additional fees according to the conditions of the school concurrency mitigation fee. (See exhibit.)

OWNER/APPLICANT: Allonde Development, LLC

PROJECT ENGINEER: CivilCorp Engineering, Inc. c/o Stephen Allen, P.E.

LOCATION: West side of Vick Road at Welch Road

PROPOSED DEVELOPMENT: Multi-Family (Apartments) Residential Subdivision – 43 Units

DEVELOPABLE AREA: 4.314 +/- acres

SCHOOL ATTENDENCE ZONES: Apopka Elementary; Wolf Lake Middle; Apopka High

FUNDING SOURCE: N/A

DISTRIBUTION

Mayor NelsonFinance DirectorPublic Services DirectorCommissionersHR DirectorRecreation Director

City Administrator IT Director City Clerk
Community Development Director Police Chief Fire Chief

CITY COUNCIL – OCTOBER 3, 2018 MEADOW VIEW APARTMENTS SCHOOL CONCURRENCY MITIGATION AGREEMENT PAGE 2

PUBLIC HEARING SCHEDULE:

October 3 – City Council (1:30 pm)

RECOMMENDATION ACTION:

City Council Recommended Motion: Approve the Meadow View Apartments Concurrency Mitigation Agreement and authorize the Mayor to sign the Agreement.

After recording return to:

Jamie Boerger, AICP Orange County Public Schools 6501 Magic Way, Building 200 Orlando, Florida 32809



SCHOOL CONCURRENCY MITIGATION AGREEMENT APK-18-010 Meadow View Apartments 32-20-28-0000-00-042

THIS SCHOOL CONCURRENCY MITIGATION AGREEMENT ("Agreement"), is entered into by **THE SCHOOL BOARD OF ORANGE COUNTY, FLORIDA** a body corporate and political subdivision of the State of Florida, ("School Board"); **CITY OF APOPKA**, a municipal corporation of the State of Florida, ("City") and **ALLONDE DEVELOPMENT, LLC**, a Florida limited liability company, whose address is 160 N. Spring Lake Drive, Altamonte Springs, Florida 32714(the "Applicant"), collectively referred to herein as the "Parties."

RECITALS:

WHEREAS, the School Board, Orange County, and the municipalities within Orange County have entered into that certain "Amended and Restated Interlocal Agreement For Public School Facility Planning and Implementation of Concurrency" (the "Interlocal Agreement"), and

WHEREAS, pursuant to Section 16.6 of the Interlocal Agreement, an applicant submitting a School Concurrency Determination Application for approval of a Site Plan that will generate additional students in a School Concurrency Service Area in which there is insufficient Available School Capacity to accommodate the anticipated additional students must enter into a Proportionate Share Mitigation Agreement to prevent school overcrowding attributable to the anticipated additional students generated by the Residential Development as specified in the Interlocal Agreement;

WHEREAS, an Applicant must submit the School Concurrency Determination Application along with a Development Analysis which identifies the proposed location of the Residential Development, the number of Residential Units that will be created, a phasing schedule (if applicable), a map demonstrating land use and zoning classifications for the Applicant's property, as well as all other information required pursuant to Section 16.5 of the Interlocal Agreement, to the County; and

WHEREAS, Applicant is the fee simple owner, or authorized agent of the owner, of that certain tract of land, as more particularly described on **Exhibit "A,"** attached hereto and

incorporated herein by reference (the "Property"), the location of which is illustrated by a map attached hereto as **Exhibit "B,"** and incorporated herein by reference; and

WHEREAS, the Applicant has submitted a School Concurrency Determination Application and Development Analysis to the City in connection with a proposal to obtain approval for a site plan in order to develop 43 multi-family, attached Residential Units on the Property (the "Project") and the City has forwarded the School Concurrency Determination Application and Development Analysis to the School Board; and

WHEREAS, the School Board has reviewed and evaluated the Applicant's School Concurrency Determination Application and Development Analysis as required by Section 18.6 of the Interlocal Agreement, and has determined that based on the current adopted Level of Service standards for the School Concurrency Service Areas within which the Property is located and the anticipated new School Capacity that will be available in the first three (3) years of the current District Facilities Work Program to serve the proposed Residential Development, there is insufficient Available School Capacity at the middle school level to serve the new multi-family Residential Units within the School Concurrency Service Areas for the Project or within adjacent School Concurrency Service Areas as determined by an Adjacency Review; and

WHEREAS, approving the School Concurrency Determination Application without requiring Proportionate Share Mitigation for the impacts of the proposed new Residential Units will either create or worsen school overcrowding in the applicable School Concurrency Service Areas; and

WHEREAS, the Applicant has agreed to enter into this Agreement with the School Board and County to provide Proportionate Share Mitigation proportionate to the demand for Public School Facilities to be created by the Project, as more particularly set forth herein.

NOW, THEREFORE, in consideration of the foregoing, the mutual covenants contained herein, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties hereto, intending to be legally bound, agree as follows:

- 1. INCORPORATION OF RECITALS. The foregoing recitals are true and correct and are hereby incorporated into this Agreement by reference as if fully set forth herein.
- 2. DEFINITION OF MATERIAL TERMS. Any capitalized terms used herein but not defined shall have the meaning attributed to such term in the Interlocal Agreement.
- 3. LEGALLY BINDING COMMITMENT. This Agreement constitutes a legally binding commitment by the Applicant to mitigate for the impacts of the new Residential Units for which the Applicant is seeking approval pursuant to the School Concurrency Determination Application and is intended to satisfy the requirements of Florida law and the Orange County Code.
- 4. PROPORTIONATE SHARE MITIGATION. The Parties hereby agree that the Applicant shall provide Proportionate Share Mitigation in order to meet the demand for School Capacity created by the Project and to provide additional capacity for middle school students, as follows, in accordance with Section 19.2 of the Interlocal Agreement:

Payment in the amount of SEVENTY THREE THOUSAND TWO HUNDRED EIGHTY SEVEN AND 00/100 DOLLARS (\$73,287.00) to cover the Proportionate Share Mitigation associated with providing the necessary capacity to complete the Project (the "Proportionate Share") to the School Board. Such payment shall be due and payable prior to the time the plat for the Property is approved and has been calculated in accordance with the formula found in Section 17.2 of the Interlocal Agreement. To the extent the Applicant's proposed Residential Development is subject to a Capacity Enhancement Agreement, any capacity enhancement mitigation paid pursuant to such agreement was applied as a credit to the Proportionate Share Mitigation required for the Project. Such credit was subtracted from the total Proportionate Share Mitigation required pursuant to the Interlocal Agreement and is reflected in the Proportionate Share required in this Section 4.

- 5. USE OF PROPORTIONATE SHARE. The School Board shall direct the Proportionate Share to a School Capacity improvement identified in the capital improvement schedule in the five (5) year district work plan of the School Board's District Facilities Work Program which satisfies the demands from the proposed Residential Development. If such a School Capacity improvement does not exist in the District Facilities Work Program, the School Board may, in its sole discretion, add a School Capacity improvement to its District Facilities Work Program to mitigate the impacts from the Project, as provided in Section 17.6 of the Interlocal Agreement.
- 6. IMPACT FEE CREDIT. The Proportionate Share paid pursuant to this Agreement shall be credited against the School Impact Fee on a dollar for dollar basis at fair market value.

The School Board shall notify the City of the amount of the School Impact Fee Credit based upon 9.60 Equivalent Residential Units (as defined in Section 30-622 of the Orange County Code), currently estimated to be FIFTY SIX THOUSAND EIGHT HUNDRED SIXTY AND 28/100 DOLLARS (\$56,860.28), and shall request a School Impact Fee credit account in such amount upon receipt of the Proportionate Share Mitigation.

- 7. ISSUANCE OF SCHOOL CONCURRENCY RECOMMENDATION. Upon final execution of this Agreement by all Parties hereto, this Agreement will serve as the Applicant's Capacity Encumbrance Letter in accordance with Section 16.7 of the Interlocal Agreement.
- 8. SCHOOL CAPACITY ENCUMBRANCE AND RESERVATION. Upon final execution of this Agreement by all Parties hereto, this Agreement will serve as the Applicant's Capacity Encumbrance Letter that School Capacity will be available for the Project. This is in accordance with Section 16.6(g) of the Interlocal Agreement.

At such time as Applicant has prepaid the School Impact Fees further described in Section 6 of this Agreement, and paid the applicable installment(s) of the School Capacity Reservation Fee described in Section 9 below, School Capacity shall be reserved for the Project Units reflected on the application; if the Applicant fails to make any of the required School Capacity Reservation Fee payments described in Paragraph 9 below or if this Agreement is terminated, such reserved School Capacity shall lapse and be returned to the applicable Concurrency Service Area.

9. CAPACITY RESERVATION FEE. The Applicant shall be required to pay a School Capacity Reservation Fee for the Project in accordance with Section 30-599 of the Orange

County Code. The Applicant shall pay the School Capacity Reservation Fee further described below.

- a. 1st Installment due within six (6) months of the Effective Date of this Agreement: \$ 84,839.00; and
- b. 2nd Installment due 18 months from the Effective Date of this Agreement: \$ 84,839.00; and
- c. 3rd Installment due 30 months from the Effective Date of this Agreement: \$84,839.00.

Notwithstanding the schedule provided by this Section, Applicant may prepay any or all of the School Capacity Reservation Fees in advance. School Capacity Reservation Fees paid pursuant to this Agreement shall be credited towards School Impact Fees as provided in Section 30-599 of the County Code.

- 10. TERMINATION. This Agreement shall terminate and Applicant shall forfeit any administrative fees paid, as well as any capacity encumbered or reserved under the following circumstances, unless the City and the School Board agree to an extension of the Applicant's School Concurrency Mitigation Agreement:
- a. The Applicable Local Government does not approve the Site Plan within one hundred eighty (180) days from approval of the Site Plan by the City Council. In such event, all Proportionate Share Mitigation paid by the Applicant shall be refunded to the Applicant by the School Board.
- b. The Applicant fails to proceed in good faith in a diligent and timely manner and secure at least one Building Permit for a unit other than a model home within three (3) years of recording of the plat. In such case, this Agreement shall be terminated and any encumbered or reserved school capacity shall be returned to its applicable capacity bank. The Applicant will not be entitled to a refund of any portion of the Proportionate Share Mitigation paid under this Agreement, and will only be entitled to receive a 90% refund of the Capacity Reservation Fee assuming all other applicable conditions are met.
- 11. COVENANTS RUNNING WITH THE LAND. This Agreement shall be binding, and shall inure to the benefit of the heirs, legal representatives, successors, and assigns of the parties, and shall be a covenant running with the Property and be binding upon the successors and assigns of the Owner and upon any person, firm, corporation, or entity who may become the successor in interest to the Property.
- 12. NOTICES. Any notice delivered with respect to this Agreement shall be in writing and be deemed to be delivered (whether or not actually received) (i) when hand delivered to the person(s) hereinafter designated, or (ii) upon deposit of such notice in the United States Mail, postage prepaid, certified mail, return receipt requested, addressed to the person at the address set forth opposite the party's name below, or to such other address or other person as the party shall have specified by written notice to the other party delivered in accordance herewith:

School Board School Board of Orange County, Florida

Attn: Superintendent 445 West Amelia Street Orlando, Florida 32801

With a Copy to: Orange County Public Schools

Attn: Facilities Planning Department 6501 Magic Way, Building 200

Orlando, Florida 32809

Owner: Allonde Development, LLC

Attn: Talal Hilal

160 N. Spring Lake Drive

Altamonte Springs, Florida 32714

City: City of Apopka

Attn: Planning Department

120 E. Main Street Apopka, Florida 32703

- 13. CAPTIONS AND PARAGRAPH HEADINGS. Captions and paragraph headings contained in this Agreement are for convenience and reference only. They in no way define, describe, extend or limit the scope or intent of this Agreement.
- 14. NO WAIVER. No waiver of any provision of this Agreement shall be effective unless it is in writing, and signed by the party against whom it is asserted. Any such written waiver shall only be applicable to the specific instance to which it relates, and shall not be deemed to be a continuing or future waiver.
- 15. EXHIBITS. All Exhibits attached hereto are a part of this Agreement and are fully incorporated herein by this reference.
- 16. AMENDMENTS. No modification, amendment, or alteration to the terms or conditions contained herein shall be binding upon the parties hereto unless in writing and executed by all the Parties to this Agreement.
- 17. ASSIGNMENT, TRANSFER OF RIGHTS. The Applicant may assign its rights, obligations and responsibilities under this Agreement to a third-party purchaser of all or any part of fee simple title to the Property; provided, however, that any such assignment shall be in writing and shall require the prior written consent of all of the Parties hereto, which consent shall not be unreasonably withheld, conditioned, or delayed. Such consent may be conditioned upon the receipt by the other parties hereto of the written agreement of the assignee to comply with conditions and procedures to aid in the monitoring and enforcement of the assignee's performance of the Applicant's obligations with regard to Proportionate Share Mitigation under this Agreement. The assignor under such assignment shall furnish the Parties with a copy of the written assignment within ten (10) days of the date of execution of same.

- 18. COUNTERPARTS. This Agreement may be signed in counterparts, each of which may be deemed an original, and all of which together constitute one and the same agreement.
- 19. RECORDING OF THIS AGREEMENT. The School Board agrees to record this Agreement, at Applicant's expense, in the Public Records of Orange County, Florida.
- 20. ENTIRE AGREEMENT. This Agreement sets forth the entire agreement among the Parties with respect to the subject matter addressed herein, and it supersedes all prior and contemporaneous negotiations, understandings and agreements, written or oral, among the Parties.
- 21. SEVERABILITY. If any provision of this Agreement is declared invalid or unenforceable by a court of competent jurisdiction, the invalid or unenforceable provision will be stricken from the Agreement, and the balance of the Agreement will remain in full force and effect as long as doing so would not affect the overall purpose or intent of the Agreement.
- 22. APPLICABLE LAW. This Agreement and the provisions contained herein shall be construed, controlled, and interpreted according to the laws of the State of Florida and in accordance with the Orange County Code and venue for any action to enforce the provisions of this Agreement shall be in the Ninth Judicial Circuit Court in and for Orange County, Florida.
- 23. ATTORNEY'S FEES. In the event any party hereto brings an action or proceeding, including any counterclaim, cross-claim, or third party claim, against any other party hereto arising out of this Agreement, each party in such action or proceeding, including appeals therefrom, shall be responsible for its own attorney fees.
- 24. EFFECTIVE DATE. The effective date of this Agreement shall be the date when the last one of the parties has properly executed this Agreement as determined by the date set forth immediately below their respective signatures (the "Effective Date").
- 25. PRE-PAYMENT, MITIGATION & CAPACITY RESERVATION FORMS. This Agreement requires the Applicant to pay a Capacity Reservation Fee and Proportionate Share Mitigation prior to the recording of a Plat. The form attached hereto as **Exhibit "C,"** must be completed and returned to the School Board's Facilities Planning Department with all fees due hereunder, including, but not limited to, Capacity Reservation Fees and Proportionate Share Mitigation. This form must be completed and returned to the Facilities Planning Department, in addition to all fees payable pursuant to the terms of this Agreement, to satisfy Paragraph 4 and Paragraph 9 of this Agreement.

Signatures on Following Page

IN WITNESS WHEREOF, the Parties have caused this Agreement to be executed by their respective duly authorized representatives on the dates set forth below each signature:

6. 1 1 11.4	"SCHOOL BOARD"		
Signed and sealed in the presence of:	THE SCHOOL BOARD OF ORANGE COUNTY, FLORIDA, a body corporate and political subdivision of the State of Florida		
Print Name:	By: William E. Sublette, its Chairman		
Print Name:			
, 2017, by William E. S County, Florida, a body corporate and politic	acknowledged before me this day of Sublette, Chairman of The School Board of Orange cal subdivision of the State of Florida, on behalf of onally known to me or had produced ification) as identification.		
AFFIX NOTARY STAMP	NOTARY PUBLIC OF FLORIDA Print Name: Commission No.: Expires:		

[ADDITIONAL SIGNATURE PAGES TO FOLLOW]

THE SCHOOL BOARD OF ORANGE

	and political subdivision of the State of Florida		
Print Name:A	Barbara M. Jenkins, Ed.D. as its Secretary and Superintendent		
Print Name: D	ated:		
STATE OF FLORIDA)) s.s.: COUNTY OF ORANGE)			
, 2017, by Barbara M. Jen Board of Orange County, Florida, a body corpor	cknowledged before me this day of kins as Secretary and Superintendent of The School rate and political subdivision of the State of Florida, see personally known to me or has produced be of identification) as identification.		
AFFIX NOTARY STAMP	NOTARY PUBLIC OF FLORIDA Print Name: Commission No.: Expires:		
Reviewed and approved by Orange County Public School's Chief Facilities Officer	Approved as to form and legality by legal counsel to The School Board of Orange County, Florida, exclusively for its use and reliance.		
John T. Morris Chief Facilities Officer	Laura L. Kelly, Staff Attorney III/Planning and Real Estate		

Date: _______, 2017 Date: _______, 2017

"APPLICANT"

Signed and sealed in the presence of:	ALLONDE DEVELOPMENT , a limited liability corporation		
Print Name:	By:		
	Print Name:		
Print Name:	Title:		
	Date:		
STATE OF FLORIDA)) s.s.: COUNTY OF ORANGE)			
2017, by	nowledged before me this day of, as, on behalf of the organization.		
He/she is personally known to me or has (type of identification) as identification.	produced		
	NOTARY PUBLIC OF FLORIDA		
	Print Name: Commission No.:		

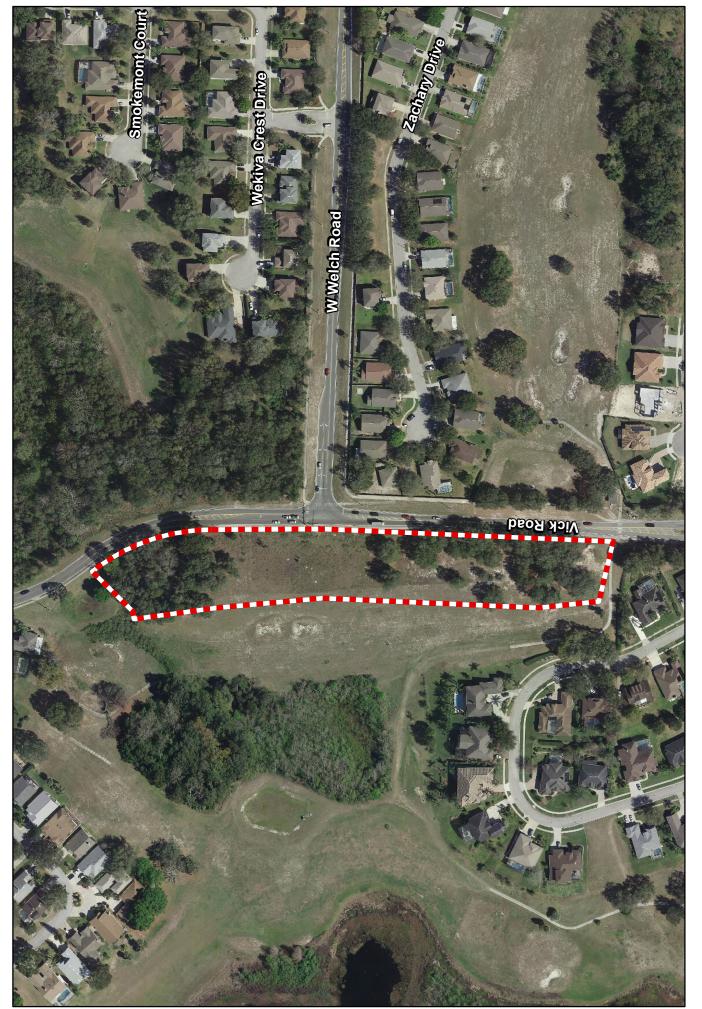
"CITY"

CITY OF APOPKA, FLORIDA, a municipal corporation of the State of Florida.

	By: Mayor
	Print Name
	Title:
	Date:
ATTEST:	
By:	
City Clerk	{Corporate Seal}
Date:	

Exhibit "A" – Legal Description

Commence at the Southeast corner of the Northeast 1/4 of the Southeast 1/4 of Section 32, Township 20 South, Range 28 East, Drange County, Florida, run North 88°30'07" West, along the South line of said Northeast 1/4 of the Southeast 1/4 of Section 32, a distance of 30.04 feet to the Westerly right of way line of Vick Road; thence run North 04°42'00" East, along the Westerly right of way line, a distance of 782.41 feet to the POINT OF BEGINNING; thence run North 74°20'56" West, a distance of 142.15 feet; thence run North 03°54'17" West, a distance of 140.61 feet; thence run North 04°46'05" East, a distance of 501.31 feet; thence run North 02°58'59" West, a distance of 244.86 feet; thence run North 05°37'38" West, a distance of 194.31 feet to the Southwest corner of Tract D of ERROL GULFSIDE VILLAGE as recorded in Plat Book 10, Pages 43 and 44 of the Public Records of Orange County, Florida; thence run North 84°22'22" East, along the South line of said Tract D, a distance of 18.00 feet to the Southeast corner of said Tract D; thence run North 46°45′59" East, a distance of 131.57 feet to a point on the Westerly right of way line of Vick Road and a point on a curve concave Southwesterly having a radius of 445.00 feet and a central angle of 38°24'22"; thence from a chord bearing of South 17°07'28" East, run Southeasterly along the arc of said curve a distance of 298.29 feet to the point of tangency; thence run South 01°50'51" West, along said Westerly right of way line a distance of 259.32 feet; thence run South $04^{\circ}42'00''$ West, along said Westerly right of line, a distance of 671.32 feet to the PDINT way BEGINNING.





Orange County Public Schools

Jurisdiction: City of Apopka School Board Dist.: # 7 Parcel ID: 32-20-28-0000-00-042 Acreage: +/- 4.31 ac

Schools ES: Apopka MS: Wolf Lake HS: Apopka



EXHIBIT C - SCHOOL MITIGATION FORM OCPS Department of Facilities Planning 6501 Magic Way, Building 200, Orlando, FL 32809

TEL: 407-317-3974 / FAX: 407-317-3263 / WEB: http://planning.ocps.net

This form must be completed and returned to the Department of Facilities Planning at Orange County Public Schools (OCPS) in conjunction with each plat request made to the local government to satisfy Section 4.c. of a School Mitigation Agreement ("Agreement"). When applicable, a check for the Capital Contribution payable to OCPS should accompany this form.

Received Stamp	

***THIS FORM APPLIES ONLY TO AGREEMENTS EXECUTED AFTER FEBRUARY 1, 2018. ***

	CEA #:	
	CEA Title:	
NO	Jurisdiction:	
1: ATI(Parcel ID(s) of property in this request:1	
ON RM,	rareariste, or property in this requesti	
SECTION 1: CEA INFORMATION		
SE	General Location:	
8		
	Development Permit Type: ²	
	Jerenopinent emilit ryper	
Please	include copies of all transfers and/or assignments of	Acknowledge and Initial:
units u	inder the original CEA to the current property owner.	
	Date:	
Z		
) E	Applicant Name:	
SECTION 2: APPLICANT INFORMATION	Company:	
N FO F		
SECTION 2: ANT INFORN	Phone #:	
SE	Email:	
PLIC		
AP	Signature:	
	Section 3: Applicant Checkl	ist
	If applicable, copy of assignment and/or transfer of CE	A credits to property. (Attach to
	email) 11 X 17 copy of the site plan/plat associated with this	request (Attach to email)
	If applicable, check for Capital Contribution, payable t	
	in applicable, check for capital contribution, payable t	o the <u>Jiange County Fublic Schools</u> .



EXHIBIT C - SCHOOL MITIGATION FORM OCPS Department of Facilities Planning 6501 Magic Way, Building 200, Orlando, FL 32809

TEL: 407-317-3974 / FAX: 407-317-3263 / WEB: http://planning.ocps.net

	Plat/Site Plan Title: 3				
	Project Name:				
	New Units (CEA Units)				
9		Total # of Units	# Single Family	# Multi-Family	# Townhome
KOFI	CEA Units				
4 4: T PR	CEA Units in this Request				
SECTION 4: OPMENT PF	CEA Units in Previous Plats				
SE(LOP	CEA Units Balance				
SECTION 4: DEVELOPMENT PROFILE	Vested Units (Leave blank if there are no vested units)⁴				
	Vested Units				
	Vested Units in this Request				
	Vested Units in Previous Plats				
	Vested Balance				

	Please refer to Section 4.a. of the Agreement						
	Capital Contribution Amount (Payable to Orange County School Board)						
15: 10N	Unit Type	# of Units	\$ per Unit	Total Mitigation			
TION	SF	Х	\$	\$			
SECTION 5: MITIGATION	TH	Х	\$	\$			
	МН	Х	\$	\$			
			GRAND TOTAL:	\$			

For OCPS Use Only:					
Reviewer :		Date Reviewed:			
	Application Sufficient		Letter of Authorization Approved		

Footnotes:

- 1. List all parcel identification numbers assigned to the parcels within the Preliminary Subdivision Plan (PSP), site plan, or plat boundaries that apply to this application. List parcel IDs in a separate attachment, if necessary.
- 2. Development permit type state whether the request applies to a plat, PSP, site plan, or other type of approval. A separate School Mitigation Form must be completed for each development application.
- 3. State the title of the PSP, site plan, master plan or plat exactly as it appears on that document.
- 4. The CEA or your Capacity Determination application signed by the Applicable Local Government will have the number of residential units that are vested from the capacity enhancement process.

"APPLICANT"

	Signed and sealed in the presence of:	ALLONDE DEVELOPMENT, a limited liability corporation				
	Print Name: Articy Caravers	By:				
	Madea He Jala	Print Name: That Elias HI-AL				
	Print Name: Nacha A HilaL	Title: Prinder V				
		Date: 8/10/2018				
	STATE OF FLORIDA)					
) s.s.: COUNTY OF ORANGE)					
201	The foregoing instrument was acknowledged before me this 10 day of 2017, by 10-40 as, on behalf of the organization					
	He/she is personally known to me or has pro (type of identification) as identification.					
	AFFIX NOTARY STAMP	NOTARY PUBLIC OF FLORIDA Print Name: 1001010 Commission No.: 1 910724 Expires: 125 7019				
	Notary Public State of Florida My Commission Expires 8/23/19 Commission No. FF 910724					



CITY OF APOPKA CITY COUNCIL

X CONSENT AGENA MEETING OF: October 3, 2018

PUBLIC HEARING FROM: Community Development

SPECIAL REPORTS EXHIBITS: Vicinity Map OTHER: Agreement

SUBJECT: LAKESIDE, PHASE 2 (124 LOTS)

REQUEST: AUTHORIZE THE MAYOR OR HIS DESIGNEE TO EXECUTE A SEWER

AND WATER CAPACITY AGREEMENT FOR LAKESIDE PHASE 2 (124

LOTS)

SUMMARY:

The City's standard Sewer and Water Capacity Agreement has been prepared for Lakeside Phase 2, located south of Marshall Lake and West of SR 451.

FUNDING SOURCE: N/A

RECOMMENDATION ACTION:

Authorize the Mayor or his designee to execute the Sewer and Water Capacity Agreement for Lakeside Phase 2.

DISTRIBUTION

Mayor NelsonFinance DirectorPublic Services DirectorCommissionersHR DirectorRecreation DirectorCity AdministratorIT DirectorCity ClerkCommunity Development DirectorPolice ChiefFire Chief



LAKESIDE PHASE 2

Avatar Properties Inc.
Parcel ID No's: 17-21-28-0000-00-014, 08-21-28-0000-00-043
Total Acres: 154.18 +/-

VICINITY MAP



SEWER AND WATER CAPACITY AGREEMENT LAKESIDE SUBDIVISION PHASE 2 (124 UNITS)

THIS AGREEMENT, made as of this day of	, 20, by
and between the City of Apopka, Florida, a municipal corporation, hereinafte	r sometimes
referred to as "City" or "Utility" or both; and	,
sometimes hereinafter referred to as "Owner" or "Developer" or both.	

WHEREAS, in the City of Apopka Comprehensive Plan it has been established that land development shall not be permitted unless adequate capital facilities exist or are assured; and

WHEREAS, in the City of Apopka Comprehensive Plan the policy has been established that land development shall bear a proportionate cost of the provision of the new or expanded capital facilities required by such development; and

WHEREAS, the City of Apopka Comprehensive Plan established that the imposition of impact fees and dedication requirements are the preferred methods of regulating land development in order to ensure that it bears a proportionate share of the cost of capital facilities necessary to accommodate the development and to promote and protect the public health, safety and welfare; and

WHEREAS, the City Council of the City of Apopka has determined that the City of Apopka must expand its water and sewer systems in order to maintain current water and sewer standards if new development is to be accommodated without decreasing current standards; and

WHEREAS, the City Council of the City of Apopka enacted an Ordinance providing for Water and Sewer Capital Facilities Fees and Tap Fees; and

WHEREAS, Developer owns or controls lands located in City of Apopka or Orange County, Florida, and described in <u>Exhibit "A"</u> attached hereto and made a part hereof as if fully set out in this paragraph and hereinafter referred to as the "Property," and Developer intends to develop the Property by erecting thereon, individually metered units, general service units, or combination of these; and

WHEREAS, Developer has officially requested that the Utility provide central water distribution and sewage collection service for Developer's property herein described in **Exhibit "A"**; and

WHEREAS, the Utility is willing to provide, in accordance with the provisions of this Agreement, Utility's main extension policy and the City's Code of Ordinances, central water and sewer services to the Property and thereafter operate applicable facilities so that the occupants of the improvements on the Property will receive an adequate water supply and sewage collection and disposal service from Utility; and

WHEREAS, Developer's project and the receipt of water and sewer service is contingent upon the construction and utilization of existing and contemplated water and sewer service facilities and the availability of capacity of those facilities; and

WHEREAS, the Developer is obligated to pay certain Capital Facilities Fees in conjunction with this commitment for capacity and does desire to execute a Service Agreement with the City.

NOW, THEREFORE, the parties hereto agree as follows:

Section 1. Compliance.

The Owner agrees that both he and his successors and assigns will abide by the provisions of this Agreement and the relevant Ordinances of the City and that he will

install or have installed the improvements required by the City in accordance with the provisions of this Agreement and of said Ordinances. The Owner further understands and agrees that, in the development of the subject property, failure to abide by the terms of this Agreement, the provisions of the City's Ordinances, or any other applicable regulations, ordinances, or laws from time to time existing, shall constitute grounds for refusal by the City, or the appropriate authority thereof, to allow such development, to obtain building permits, to institute utility services, or to permit occupancy of completed improvements.

Section 2. Definitions.

- A. "ERU (Water)" means Equivalent Residential Unit defined as having the average demand of 400 gallons per day, without reclaimed water available, and having the average demand of 300 gallons per day, with reclaimed water available.
- B. "ERU (Sewer)" means Equivalent Residential Unit defined as having the average demand of 300 gallons per day.
- C. "DEP" shall mean the Department of Environmental Protection of the State of Florida.
- D. "Notice To Proceed" A document executed by the Developer requesting specific water.
- E. "Point of Delivery" The point where the pipes or meter of the Utility are connected with the pipes of the consumer or Owner. Unless otherwise indicated, Point of Delivery shall be at the Owner's lot line.
 - F. "Property" The area or parcel of land described in **Exhibit "A"** attached hereto.
 - G. "Service" The readiness and ability on the part of the Utility to furnish and

maintain water and sewer service to the point of delivery for each lot or tract pursuant to applicable ordinances, laws, rules, regulations, permits and Utility policies.

Section 3. On-Site Installation.

To induce the Utility to provide the water treatment and sewage collection and disposal facilities, and to continuously provide Owner's Property with water and sewer services, unless otherwise provided for herein, Owner hereby covenants and agrees to construct and to transfer ownership and control to the Utility, as a contribution-in-aid-ofconstruction, the on-site water distribution and sewage collection systems located on Owner's Property. The term "on-site water distribution and sewer collection systems" means and includes all water distribution and supply mains, lines and pipes, and related facilities and sewage collection lines facilities and equipment, including pumping stations, constructed within the boundaries of Owner's Property adequate in size to serve each lot or unit within the property or as otherwise required by Utility. Owner shall install at its sole expense all of the aforesaid facilities within the Property in accordance with the plans, specifications and all other pertinent documents approved by the Utility. Developer will furnish Utility with three (3) copies of the plans and specifications for the water distribution system, sewage collection main lift stations and other facilities necessary to serve the property described in **Exhibit "A"**.

Developer shall obtain approval of plans and specifications from all necessary agencies. No construction shall commence until utility and appropriate regulatory agencies have approved such plans and specifications in writing. If construction commences prior to all such approvals and any other approvals required hereunder, Utility shall have no responsibility to accept such lines and facilities and Utility may elect

to terminate this Agreement and/or not provide service to Developer until such time as Developer obtains all such required approvals. When permits and approved plans are returned by appropriate regulatory agencies to Developer, Developer shall submit to Utility one copy of the water and/or sewer construction permit and approved plans. Developer shall also supply to the Utility a copy of the final estimate or payment covering all contract items and Release of Lien from Contractor(s).

After the approval of plans and specifications by Utility and appropriate regulatory agencies, Developer, or the engineer of record, shall set up a preconstruction conference with engineer of record, utility contractor, appropriate building official(s), all other utility companies involved in the development of the Property, and Utility, as may be appropriate.

Developer shall provide to Utility's representative forty-eight (48) hours written notice prior to commencement of construction and forty-eight (48) hours written notice prior to any inspections or tests being performed as described herein. "Notice" shall be complete when Utility actually receives same.

During the construction of the water distribution and sewage collection systems by Developer, Utility shall have the right to inspect such installations to determine compliance with the approved plans and specifications. The engineer of record shall also inspect construction to insure compliance with the approved plans and specifications. The engineer of record and utility contractor shall be present for all standard tests and inspections for pressure, exfiltration, line and grade, and all other normal engineering tests and inspections to determine that the systems have been installed in accordance with the approved plan and specifications, and good engineering practices.

Upon completion of construction, Developer's engineer of record shall submit to Utility a copy of the signed certification of completion submitted to the appropriate regulatory agencies. If certification is for the water distribution system, a copy of the bacteriological results and a sketch showing locations of all sample points shall be included. The engineer of record shall also submit to Utility paper copies of the as-built plans prepared signed and sealed by the engineer of record. Developer will provide Utility with two (2) copies of the approved paving and drainage plans. Developer will provide Utility with three (3) copies of the approved subdivision plat.

Section 4. Off-Site Installation.

The Developer will construct and install water mains, gravity sewer lines, lift station(s) and force main(s) from Developer's property to the Utility existing facilities in accordance with overall master plans of the utility system and in accordance with approved engineering plans and specifications. At all times prior to, during and upon completion of the construction of the extensions of water and sewer lines, Utility shall have the right to inspect and approve all construction plans and specifications, piping, connections, equipment, materials and construction work being provided or performed, or previously provided or performed, by or on behalf of the Developer. Such approval shall not be unreasonably withheld or delayed by Utility, and any costs of such inspections shall be borne by Utility. It shall be the Developer's responsibility to insure that all construction fully meets the plans and specifications approved by the Utility. The cost of inspections resulting from required corrective action shall be borne by the Developer. As conditions precedent to receiving water and sewer service, Developer shall:

A. Provide Utility with three (3) copies of the approved subdivision plat.

- B. Provide Utility with three (3) copies of the approved paving and drainage plans of the development.
- C. Furnish Utility with three (3) copies of the plans, specifications and engineering cost estimate for the water distribution system, sewage collection system, lift station(s) and other facilities necessary to serve the property described in **Exhibit "A"**. Developer must receive approval from Utility of said plans, specifications and engineering cost estimate prior to proceeding with any construction of the facilities.
- D. Obtain approval of the plans and specifications from all necessary governmental agencies, including, but not limited to, the Florida Department of Environmental Protection and the City of Apopka. No construction shall commence until Utility and appropriate regulatory agencies have approved such plans and specifications in writing. When permits and approved plans are returned by appropriate regulatory agencies to Developer, Developer shall submit to Utility one (1) copy of water and/or sewer construction permit and approved plans.
- E. After the approval of plans and specifications by Utility and appropriate regulatory agencies, Developer, or the engineer of record shall set up a preconstruction conference with engineer of record, utility contractor, appropriate building official(s), all other utility companies involved in the development of the Property, and Utility, as may be appropriate.

Developer shall provide to Utility's representative forty-eight (48) hours written notice prior to commencement of construction and forty-eight (48) hours written notice prior to any inspections or tests being performed as described herein. "Notice" shall be complete when Utility actually received same.

During the construction of the water distribution and sewage collection systems by Developer, the Utility shall have the right to inspect such installations to determine compliance with the approved plans and specifications. The engineer of record shall also inspect construction to assure compliance with the approved plans and specifications. The engineer of record and utility contractor shall be present at all standard tests and inspections for pressure, exfiltration, line and grade, and all other normal engineering tests and inspections to determine that the systems have been installed in accordance with the approved plans and specifications, and good engineering practices.

F. Upon completion of construction, Developer's engineer of record shall submit to Utility a copy of the signed certifications of completion submitted to the appropriate regulatory agencies. If certification is for the water distribution system, a copy of the bacteriological results and a sketch showing locations of all sample points shall be included.

Developer's engineer shall deliver one (1) set of paper copies of "As-built" engineering plans, prepared signed and sealed by the professional engineer of record, showing the location of all water and sewer systems and services installed, and certification by the professional engineer of record to the Utility that such systems and services, as built, comply with the plans and specifications approved by the Utility.

Furnish proof satisfactory to the Utility that the installation of the facilities and all contractors, subcontractors, materialmen and laborers have been paid in full, and provide an engineer's certificate of total cost of improvements, i.e., by Release of Lien or other appropriate means.

- G. As per this Agreement, Developer shall install, at its sole expense, all of the aforesaid facilities off-site, in accordance with the plans and specifications approved by the Utility. The Utility agrees it will complete its review of the plans and specifications within thirty (30) days of receipt from the Developer.
- H. Developer hereby agrees to transfer to Utility title to all water distributions and sewage collection systems installed by Developer or Developer's contractor, pursuant to the provisions of this Agreement. Such conveyance shall take effect at the time Utility issues its final letter of acceptance. As further evidence of said transfer to title, upon completion of the installation, but prior to the issuance of the final letter of acceptance and the rendering of service by Utility, Developer shall:
 - I. Provide Utility with copies of Release of Lien for said Property.
- J. Developer shall assign any and all warranties and/or maintenance bonds and the rights to enforce same to the Utility which Developer obtains from any contractor constructing the utility systems. Developer shall remain secondarily liable on such warranties. If Developer does not obtain such written warranty and/or maintenance bond from its contractor and deliver same to Utility, which warranty and/or maintenance bond shall be for a minimum period of two years, then in such event, Developer by the terms of this instrument, agrees to indemnify and save harmless the Utility for an loss, damages, costs, claims, suits, debts, or demands by reason of latent defects in the systems which could not have been reasonably discovered upon normal engineering inspection, for a period of two years from the date of acceptance by the Utility of said utility systems.
- K. The Developer shall provide Utility with all appropriate operations/maintenance and parts manuals.

L. The Developer shall further cause to be conveyed to Utility all easements and/or rights-of-way covering areas in which water and sewer systems are installed, by recordable document in form satisfactory to the Utility and shall convey title to the Utility, by recordable document in form satisfactory to Utility, and lift stations constructed on Developer's Property along with recordable ingress/egress easement documents.

M. Utility agrees that the issuance of the final letter of acceptance for the water distribution and sewage collection systems installed by Developer shall constitute the assumption of responsibility by Utility for the continuous operation and maintenance of such systems from that date forward.

Section 5. Easement.

Developer hereby grants and gives to Utility, its successors and assigns, but subject to the terms of this Agreement, the exclusive right or privilege to construct, own, maintain or operate the water and sewer facilities to serve the Property; and the exclusive right or privilege to construct, own, maintain or operate the said facilities in, under, upon, over and across the present and future streets, roads, alleys and easements, reserved utility strips and utility sites, and any public place as provided and dedicated to public use in the record plats, or as provided for in agreements, dedications or grants made otherwise and is independent of said record plats. Mortgagees, if any, holding prior liens on the Property shall be required to either release such lien, subordinate their positions or join in the grant or dedication of the easements or rights-of-way, or give to Utility assurance by way of a "non-disturbance agreement," that in the event of foreclosure, mortgagee would continue to recognize the easement rights of Utility, as long as Utility complies with the terms of this Agreement. All water distribution and sewage collection

facilities, save and except consumer installations, shall be covered by easements or rights-of-way if not located within platted or dedicated road or rights-of-ways for utility purposes.

Developer hereby further agrees that the foregoing grants include the necessary right of ingress and egress to any part of the Developer's property upon which Utility is constructing or operating utility facilities. The foregoing grants shall be for such period of time as Utility or its successors or assigns require such rights, privileges or easements in the construction, ownership, maintenance, operation or expansion of the water and sewer facilities. The parties agree that in the event Developer and Utility agree to install any of the water or sewer facilities in lands within the Property lying outside the streets and easement areas described above, then Developer or the owner shall grant to Utility, the necessary easement or easements for such "private property" installation; provided, all such "private property" installations by Utility shall be made in such a manner as not to interfere with the then primary use of such "private property". The use of easements granted by Developer to Utility shall not preclude the use by other utilities of these easements, such as for cable television, telephone, electric, or gas utilities, or as otherwise agreed to by Utility, provided each does not interfere with Utility's use thereof.

The Utility hereby agrees that all easement grants will be utilized in accordance with the established and generally accepted practices of the water and sewer industry with respect to the installation of all its facilities in any of the easement areas.

Section 6. <u>Utility's Exclusive Right to Utility Facilities</u>.

Developer agrees with Utility that all water and sewer facilities accepted by Utility in connection with providing water and sewer services to the Property shall at all times

remain in the sole, complete and exclusive ownership of Utility, its successors and assigns, and any person or entity owning any part of the Property or any residence, building, or unit constructed or located thereon, shall not have any right, title, claim or interest in and to such facilities or any part of them, for any purpose, including the furnishing of water and sewer services to other persons or entities located within or beyond the limits of the Property.

Section 7. Exclusive Right to Provide Service.

As a further and essential consideration of this Agreement, Developer, or the successors and assigns of Developer, shall not (the words "shall not" being used in a mandatory definition) engage in business or businesses of providing potable water or sewer services to the Property during the period of time Utility, its successors and assigns, provide water or sewer services to the Property, it being the intention of the parties hereto that under the foregoing provision and also other provisions of this Agreement, Utility shall have the sole and exclusive right and privilege to provide water and sewer services to the Property and to the occupants of each residence, building or unit constructed thereon, except for providing by Developer, from its own sources and lines for irrigation uses.

Section 8. Rates.

The Utility agrees that the rates to be charged to Developer and individual consumers of water and sewer services shall be those set forth by the City Council. However, notwithstanding any provision in this Agreement, the Utility, its successors and assigns, may establish, amend or revise, from time to time in the future, and enforce rates or rate schedules so established and enforced and shall at all times be reasonable and subject to approval by the City Council.

Notwithstanding any provision in this Agreement, the Utility may establish, amend or revise, from time to time, in the future, and enforce rules and regulations covering water and sewer services to the Property, including the costs thereof.

Any such initial or future lower or increased rate schedules, and rules and regulations established, amended or revised and enforced by Utility from time to time in the future shall be binding upon Developer; upon any person or other entity holding by, through or under developer; and upon any user or consumer of the water and sewer provided to the Property by Utility.

Section 9. Capital Facility Fees.

In addition to the contribution of any water distribution and sewage collection systems, where applicable, and further to induce the Utility to provide water and sewage service, Developer hereby agrees to pay to Utility the following Capital Facility Fees:

A. Water Capital Facility Fee. A capital facility fee which represents the capital cost of the Primary System capacity expansion will be charged and paid in the manner described herein. The City reserves the right to also require additional contributions or in kind contributions, including but not limited to constructed donated facilities, as may be necessary to extend services or to further expand the Primary System to facilitate the providing of services to the Owner's property and, if any oversizing is required the Owner shall be reimbursed in accordance with Section 26-80 of the Apopka Municipal Code. The City reserves the right to prospectively adjust unpaid fees and charges assessed herein. The Owner will be required to build or to provide the cost of construction of the Secondary or Local Distribution System and all water facilities on site regardless of size necessary to provide service to the land development activity.

The water Capital Facility Fee charged shall be calculated as follows:

Total Water

Capacity	No. Of	Water Capital	Facility Fee
Committed	ERU's	Facility Fee	Due from
<u>in Gallons</u>	<u>Committed</u>	Per ERU_	Owner
37,200	124	\$957.00	\$118,668.00

B. <u>Sewer Capital Facility Fee</u>. A capital facility fee shall be assessed by the City which represents the capital cost of the Primary System Capacity expansion. The City reserves the right to also require additional contributions or in kind contributions, including but not limited to constructed donated facilities, as may be necessary to extend services or to further expand the Primary System to facilitate the providing of services to the Owner's property and, if any oversizing is required, the Owner shall be reimbursed in accordance with Section 26-80 of the Apopka Municipal Code. The City additionally reserves the right to prospectively adjust unpaid fees and charges assessed herein. Owner will be required to build or to provide the cost of construction of the Secondary or Local Distribution System and all water facilities on site regardless of size necessary to provide service to the land development activity.

The Sewer Capital Facility Fee charged shall be calculated as follows:

Total Sewer

Capacity	No. Of	Sewer Capital	Facility Fee
Committed	ERU's	Facility Fee	Due from
<u>in Gallons</u>	<u>Committed</u>	Per ERU	Owner
37,200	124	\$4,775.00	\$592,100.00

Section 10. Payment of Capital Fees.

The capital facility fees described herein shall be due and payable as follows:

- A. 10% of all capital facilities fees for all units at the time of applying to DEP for a permit.
- B. 20% of all capital facilities fees at the time of receiving DEP approval/permit or120 days from the date of application whichever occurs first.
- C. 10% of all capital facilities fees at the time of issuance of Certificate of Acceptance by City or 120 days from the date of issuance of DEP permit whichever occurs first.
- D. 20% of all capital facilities fees 12 months after the date of issuance of the DEP permit as set forth in (b).
- E. 20% of all capital facilities fees not later than 24 months after the date of issuance of the DEP permit as set forth in (b).
- F. All capital facilities fees are due not later than 36 months after the date of the issuance of the DEP permit as set forth in (b).

The capital facilities fees shall be based on the fee schedule in effect at the time payment is actually made to the City. The fees set forth therein are the minimum due and payable. Capital Facilities Fees shall be due and payable by the Owner on or before application for building permits for each individual lot or land development activity. During the time period following the issuance of the DEP permit until all capital facilities fees are paid, the amount due and payable shall always be the greater of the scheduled fees or the fees due upon applying for building permits during this period. If the Capital Facilities fees are paid in conjunction with the application for building permits are less than the fees currently due pursuant to subparagraphs (d), (e), and (f) of this Section, the Owner must remit the difference as same comes due pursuant to the schedule. If the

amount due in conjunction with the application for building permits exceeds the amount due pursuant to schedule, the amount due in conjunction with the application for building permits shall be the amount due and payable regardless of the amount of the scheduled payment.

The 40% first paid in accordance with subparagraphs (a), (b), and (c) of this Section will apply to the last 40% of the building permits applied for by the Developer. A failure of the Developer to pay all sums due in accordance with this Section shall be considered a default and all of the Capital Facilities Fees shall become immediately due and payable and all other rights and remedies associated with a default shall be available to the City.

It is also agreed by the parties that:

- (a) No lots, units or interests in the property, development or units may be sold until 100% of all the capital facilities fees on those lots or units to be sold have been paid.
- (b) No capacity may be transferred, sold or bartered to any other land development activity.
- (c) If the Developer should default on any of the aforedescribed, the City shall have the right to record a lien on all remaining lots owned by the Developer for unpaid fees and shall have the right to demand the return of unused capacity. This right is in addition to all other rights available to the City under Florida law.

Section 11. Refund of Fee Paid.

The parties agree that if a DEP permit expires and DEP has released all permitted

capacity back to the City and no construction has been commenced, then the Developer shall be entitled to a refund of the capital facility fees paid as a condition for its issuance except that the City shall retain three percent (3%) of the refunded funds as a fee to offset the costs of collection and refund.

Section 12. Recapture of Capacity.

The parties agree that if the development has not been substantially completed by the end of the calendar quarter immediately following two (2) years from the date on which the water and sewer capital facility fee was paid in full, or if the developer is in default under this agreement or if the DEP permit issued to the developer has expired or the Developer has not proceeded to develop the property described in **Exhibit "A"** within two years from the date of execution of this Agreement, the City may petition, if necessary, the DEP to recapture the capacity committed pursuant to this Agreement. If said capacity is all released back to the City, the City may refund the capital facility fees as set forth in paragraph 11 above.

Section 13. Maintenance Fees.

The parties agree that the City may subject encumbered or committed water and sewer capacity to a maintenance fee to be assessed by the City. The amount of such fee will be determined by the City Council and shall be based upon the costs of maintaining the committed capacity for the Developer. Such fees shall not be a Capital Facility Fee as described herein and shall be due and payable as directed by the City.

Section 14. Water System Tap Fee.

The parties agree that a Water Tap Fee shall be charged at the time of approval by

the City of a service connection. Such fee will include the labor cost and the cost of connection piping from the main to the meter not to exceed fifty (50) feet in length and shall be charged as follows:

Single Service Meter 3/4" 1" 1½"	\$350.00 \$412.00 \$631.00
2"	\$757.00
<u>Dual Service Meter</u> 3/4"	\$274.00
Short Service Tap 3/4" & 1" 1½" & 2"	\$275.00 \$357.00
Long Service Tap 3/4" & 1" 1½" & 2"	\$836.00 \$918.00

For a meter or tap over two (2) inches in size, the work will be performed by the contractor, however, in circumstances where the City elects to perform the work, the fee charged shall be actual cost plus ten percent (10%).

Short service is defined as service located on the same side of a road or driveway of an existing water line where the connection is to be made. Long service is defined as service located on the opposite side of a road or driveway of an existing water line where the connection is to be made. There will be an additional charge of \$10.00 for every linear foot for service over 50 linear feet. An additional charge will be added equal to the county right-of-way permit fee when it is required. All Tap Fees are due and payable at the time that a service connection is approved by the Utility.

Section 15. Sewer Tap Fee and Other Charges.

The parties agree that a sewer tap fee shall be charged at the time of approval by the City of a service connection. The cost of extending or installing 6" sewer lateral shall be \$745.00 up to 25 feet and including cleanout, and shall be payable by the Developer upon billing. For additional footage beyond 25 feet, the charge shall be \$12.00 per linear foot. The costs of any applicable county or state permits will be also an additional charge payable by the Developer. Any sewer lateral within the public right-of-way easement will remain the property of the City. All Tap Fees are due and payable at the time that a service connection is approved by the Utility. The other charges described herein are due and payable within 10 days of the date of the billing.

Section 16. <u>Miscellaneous Provisions Regarding Payments</u>.

The parties agree to the following with reference to fees described herein:

- A. No building permit for any developmental activity requiring the payment of a capital facility fee shall be issued unless and until the water and sewer capital facility fees have been paid.
- B. The City may require that all payments be made with certified funds or cashier's check if payments have been late or if the Developer has previously provided bad funds or if the Developer has an impaired credit reputation.
- C. In the event that the City should have to take any actions other than initial presentment of a check to a local bank in order to collect the payments due and payable pursuant to this Agreement, the Owner shall be responsible for any costs, including reasonable attorney's fee, incurred in taking such actions.
- D. Acceptance of payment of any of the Fees described herein in part or in full shall not constitute a waiver of the Utility's rates or regulations.

E. Neither Developer nor any person or other entity holding any of the Property by, through or under Developer, or otherwise, shall have any present or future right, title, claim or interest in and to the Capital Facility Fee charges paid or to any of the water or sewer facilities and properties of Utility, and all prohibitions applicable to Developer with respect to refund of such fees, are applicable to all persons or entities owning such property or an interest in such property.

Section 17. Agreement to Serve.

Upon the completion of construction of the water and sewer facilities by Developer, its inspection, the issuance of the final letter of acceptance by the Utility, the Utility covenants and agrees that it will allow the connection of the water distribution and sewage collection facilities installed by Developer to the central facilities of the Utility and shall provide utility service in accordance with the terms and intent of this Agreement. Such connections shall at all times be in accordance with rules, regulations and orders of the applicable governmental authorities including the City. The Utility agrees that once it provides water and sewer service to the Property and Developer or others have connected consumer installations to its system, that thereafter the Utility will continuously provide, in accordance with the other provisions of this Agreement, including rules and regulations and rate schedules, water and sewer service to the Property in a manner to conform with all requirements of the applicable governmental authority.

The parties agree that the capacity needed to provide service to the Property is 37,200 gallons per day for potable water supply and 37,200 gallons per day for wastewater removal. Developer agrees that the number of units of development for which capacity is reserved hereby shall not exceed the number of units of development

for which capacity is reserved hereby pursuant to final development plans on file in the Community Development Department. Developer agrees that sewage to be treated by the Utility from Developer's property will consist of domestic wastewater and further agrees that it will not allow any abnormal strength sewage to flow from developers' property to the Utility Sewage treatment facility that will cause harm to the treatment process. In addition, Developer further agrees that no wastewater, fluids or other substances and materials shall be discharged to the Utility's sanitary sewer collection/transmission system, which contain any hazardous, inflammable, toxic and/or industrial constituents, in whole or in part, regardless of the concentrations (i.e., strengths) of said constituents. Developer grants to Utility the right to sample the Developer's sewage, as referred to hereinabove, to verify Developer's compliance with this paragraph.

Section 18. Application for Service: Consumer Installations.

Developer, or any owner of any parcel of the Property, or any occupant of any residence, building or unit located thereon shall not have the right to and shall not connect any consumer installation to the facilities of Utility until formal written application has been made to Utility by the prospective user of service, or either of them, in accordance with the then effective rules and regulations of the Utility and approval for such connection has been granted.

Although the responsibility for connecting the consumer installation to the meter and/or lines of the Utility at the point of delivery is that of the Developer or entity other than the Utility, with reference to such connections, the parties agree as follows:

A. Application for the installation of water meters and backflow preventers shall be made twenty-four (24) hours in advance, not including Saturdays, Sundays and holidays.

- B. All consumer installation connections may at its sole option be inspected by the Utility before backfilling and covering of any pipes.
- C. Written notice to the Utility requesting an inspection of a consumer installation connection may be given by the Developer or his contractor, and the inspection will be made within twenty-four (24) hours, not including Saturdays, Sundays and holidays, provided the meter and backflow preventer, if applicable, have been previously installed.
- D. The cost of constructing, operating, repairing or maintaining consumer installations shall be that of Developer or a party other than the Utility.
- E. If a kitchen, cafeteria, restaurant or other food preparation or dining facility is constructed within the Property, the Utility shall have the right to require that a grease trap and/or pretreatment unit be constructed, installed and connected so that all waste waters from any grease producing equipment within such facility, including floor drains in food preparation areas, shall first enter the grease trap for pretreatment before the wastewater is delivered to the lines of the Utility. The size, materials and construction of said grease traps are to be approved by the Utility. Developer hereby grants to the Utility the right to periodically inspect the pretreatment facilities herein described. The provisions of this paragraph shall not apply to individual residential kitchens.

No substance other than domestic wastewater will be placed into the sewage system and delivered to the lines of the Utility. Should any non-domestic wastes, grease or oils, including, but not limited to, floor wax or paint, be delivered to the lines, the Owner will be responsible for payment of the cost and expense required in correcting or repairing any resulting damage or impairment of the treatment process and/or facilities.

Section 19. Assurance of Title.

Within fifteen (15) days of DEP approval or prior to Developer issuing the Notice to Proceed to the Utility, at the expense of Developer, Developer agrees to deliver to the Utility a Certificate of Title, a Title Insurance Policy or an opinion of title from a qualified attorney-at-law, with respect to the Property. The provisions of this paragraph are for the purpose of evidencing Developer's legal right to grant the exclusive rights of service contained in the Agreement.

Section 20. Binding Effect of Agreement.

The Agreement shall be binding upon and shall inure to the benefit of Developer, the Utility and their respective assigns and successors by merger, consolidation, conveyance or otherwise, subject to the terms of this Agreement, as contained herein. This Agreement is freely assignable by either party.

Section 21. Notice.

Until further written notice by either party to the other, all notices provided for herein shall be in writing and transmitted by messenger, by mail or by telegram, and if to Developer, shall be mailed or delivered to Developer at:

Avatar Properties, Inc. 2420 S. Lakemont Ave Suite 450

<u>Orlando, FL 32814</u>

Attention: Laura McPherson

With a copy to: AV Homes, Inc.

8601 N. Scottsdale Road, Suite 225

Scottsdale, Arizona 85253

Attn: Gary Shullaw, Esq.

and if the Utility, at: City of Apopka

Utilities Department, Attn: Eusie Watson 120 East Main Street, Apopka, FL 32704

Section 22. Laws of Florida.

This Agreement shall be governed by the laws of the State of Florida and it shall be and become effective immediately upon execution by both parties hereto.

Section 23. Cost and Attorney's Fees.

In the event the Utility or Developer is required to enforce this Agreement by Court proceedings or otherwise, by instituting suit or otherwise, then the prevailing party shall be entitled to recover from the other party all costs incurred, including reasonable attorney's fees.

Section 24. Force Majeure.

In the event that the performance of this Agreement by either party to this Agreement is prevented or interrupted in consequence of any cause beyond the control of either party, including but not limited to Act of God or of the public enemy, war, national emergency, allocation or of other governmental restrictions upon the use of availability of labor or materials, rationing, civil insurrection, riot, racial or civil rights disorder or demonstration, strike, embargo, flood, tidal wave, fire, explosion, bomb detonation, nuclear fallout, windstorm, hurricane, earthquake, or other casualty or disaster or catastrophe, unforeseeable failure or breakdown of pumping transmission or other facilities, and all governmental rules or acts or action of any government or public or governmental authority or commission of board or agency or agent or official or officer, the enactment of any statute or ordinance or resolution or regulation or rule or ruling or order, order of decree or judgment or restraining order or injunction of any court, said party shall not be liable for such non-performance.

Section 25.

The rights, privileges, obligations and covenants of Developer and the Utility shall

survive the completion of the work of Developer with respect to completing the facilities and services to any development phase and to the Property as a whole.

Section 26.

This Agreement supersedes all previous agreements or representations, either verbal or written, heretofore in effect between Developer and Utility, made with respect to the matters herein contained, and when duly executed, fully constitutes the Agreement between Developer and the Utility. No additions, alterations or variations of the terms of this Agreement shall be valid, nor can provisions of this Agreement be waived by either party, unless such additions, alterations, variations or waivers are expressed in writing and duly signed.

Section 27. Construction.

Whenever the singular number is used in this Agreement and when required by the context, the same shall include the plural, and the masculine, feminine and neuter genders shall each include the others.

In case of any differences of meaning or implication between the text of this Agreement and any caption, illustration, summary table, or illustrative table, the text shall control.

The phrase "used for" includes "arranged for", "designed for", "maintained for", or "occupied for".

The work "includes" shall not limit a term to the specific example but is intended to extend its meaning to all other instances or circumstances of like kind or character.

Section 28.

Both parties warrant that they have the legal authority to execute this Agreement.

Section 29.

Notwithstanding the gallonage calculations that could be made hereunder relative to ERU's, by and execution hereof, Developer agrees that the intention of this contract is to reserve a given number of units of capacity for the property described in **Exhibit "A"** and not for purposes of any other calculations.

Section 30.

It is agreed by and between the parties hereto that all words, terms and conditions contained herein are to be read in concert, each with the other, and that provision contained under one heading may be considered to be equally applicable under another in the interpretation of this contract.

Section 31.

By the execution hereof, Developer agrees that the Utility Company has certain obligations as a municipal utility to protect the health, safety and welfare of the public and not to burden Utility's customers with extraordinary expenses attributed or attributable to Developer, his successors or assigns, and that the Utility may, at its sole option, require pretreatment or special features such as grease traps. It is the intention of the parties that all sewage shall conform to the requirements of the Utility prior to introduction into Utility's collection system. Developer shall be responsible for all costs associated herewith.

Section 32.

The Utility shall, at all reasonable times and hours, have the right of inspection of Developer's internal lines and facilities. This provision shall be binding on the successors and assigns of the Developer.

Section 33. Water Conservation Measures.

Water conservation measures shall be employed by the Developer. Said measures shall include but not be limited to:

- A. Low flush toilets which utilize 3.5 gallons or less of water per flushing cycle.
- B. Shower heads which have flow restrictors, pulsating features, flow control devices or other features which result in water conservation; and do not allow a flow exceeding 3.0 gallons per minute at 60 psi.
- C. No swimming pool filter backwash water or any other swimming pool wastewater shall be discharged to the sanitary sewer system.
- D. Spring-loaded/automatic shut-off water fixtures shall be utilized in all public restrooms. This shall include lavatory fixtures.
- E. Consideration and use (where possible) of dishwashers and washing machines which have water conservation features and/or utilize less water per cycle.

The Utility, at its discretion, shall review and approve all water conservation measures proposed by Developer.

Section 34.

Failure to insist upon strict compliance of any of the term, covenants, or conditions hereof shall not be deemed a waiver of such terms, covenants, or conditions, or shall any waiver or relinquishment of any right or power hereunder at any one time, or times, be deemed a waiver or relinquishment of such right or power at any other time or times.

Section 35.

In the event that relocation of existing water and sewer utilities are necessary for the Developer, Developer will reimburse utility in full for such relocations.

[Remainder of page intentionally left blank. [Signatures on the following pages.]

WITNESSES:	THE CITY OF APOPKA, A Florida municipal corporation
Print Name	Edward Bass City Administrator
Print Name	
STATE OF FLORIDA COUNTY OF ORANGE	
a Florida municipal corporation,	acknowledged before me this day of dward Bass, City Administrator of the City of Apopka he is personally known to me or has produced as identification and dic
(NOTARY'S SEAL)	Notary Public
	Print Name Commission No.

WITNESSES:	OWNER:		
	Avatar Properties, Inc., a Florida Corporation		
Print Name	By: Laura McPherson, VP of Finance		
Print Name	- -		
STATE OF			
. 20	ment was acknowledged before me this day of by		
(Name of officer or agent) of (Name of corporation acknow (state or place of corporation) Is/are personally known to me	ledging), a Corporation, on behalf of the corporation. He/She/They		
SEAL	NOTARY PUBLIC		

EXHIBIT "A"

Legal Description



CITY OF APOPKA CITY COUNCIL

CONSENT AGENDA MEETING OF: October 3, 2018
PUBLIC HEARING FROM: Administration

__ SPECIAL REPORTS EXHIBITS: X OTHER: Business

SUBJECT: COMMUNITY DEVELOPMENT BLOCK GRANT – ALONZO WILLIAMS PARK

COMMUNITY CENTER

REQUEST: AWARD TWO CONTRACTS CONTINGENT UPON THE FLORIDA

DEPARTMENT OF ECONOMIC OPPORTUNITY'S APPROVAL

SUMMARY:

The City was awarded a \$750,000 Florida Small Cities, Community Development Block Grant (CDBG) by the Florida Department of Economic Opportunity (DEO). The grant was accepted with a matching requirement of \$50,000 via City Council in order to construct a Community Center at Alonzo Williams Park. A grant administrator was also awarded in the amount of \$60,000 to assist with the project and is being funded with the grant.

On December 17, 2017 a bid was advertised for the construction of the Community Center and off-street parking. Three bids were received significantly higher than the funding available, ranging from \$1,157,410 - \$1,371,619. City Council voted to reject said bids and establish additional funding for the project before re-bidding. During this time period an updated engineer's estimate for the complete project was conducted to re-evaluate the cost of construction and was received at \$1,361,114. On August 15, 2018 the Community Redevelopment Agency (CRA) met and approved additional funding in the amount of \$621,114 in order to complete the project.

On August 19, 2018, a re-bid was advertised for the construction of the Community Center and off-street parking. Seven bids were received on September 21, 2018, as follows:

	Community Center	Off-Street Parking
	Bid Amount	Bid Amount
MIE Inc.	\$1,086,563.84	\$30,000.00
Mid-South Contractors, LLC	\$1,114,000.00	\$29,500.00
Morton Construction Company	\$1,242,007.00	\$33,800.00
MC/Mulligan Constructors	\$1,494,100.00	\$30,770.00
R.L. Burns, Inc.	\$1,535,562.17	\$27,561.83
Johnson-Laux Construction	\$1,554,142.00	\$38,000.00
Marbek Construction Company	\$1,639,800.00	\$32,000.00

DEO does not allow for a joint award of alternate bid items (off-street parking) and the city is required to award the community center and off-street parking separately. Therefore MIE Inc. (Community Center) and R.L. Burns (off-street parking) are being requested as the awarded contractors for the project contingent upon DEO's final approval. The contingency is being proposed at 10% of the total proj cost or \$111,412.57 (\$1,086,563.84 + \$27,561.83 = \$1,114,125.67).

In the event that either of the contractors do not meet the requirements of DEO or any substantial issues with either contractors are identified, staff requests the ability to move on to the next lowest qualified bidder contingent upon DEO approval. Any remaining dedicated funding for the project beyond the contingency will be brought forward for City Council approval in the future.

Total Summary of CDBG and Project funding:

Description	Funding	Expenses
CDBG Grant	\$750,000	
City Grant Funding Match	\$ 50,000	
CRA Funding	\$621,114	
Grant Administrator: Fred Fox Enterprises		\$60,000
Construction of Community Center: MIE Inc.		\$1,086,563.84
Construction of Off-Street Parking: RL Burns Inc.		\$27,561.83
Project Contingency at 10%		\$111,412.57
Total	\$1,421,114	\$1,285,538.24
Remaining Balance	\$135	5,575.76

FUNDING SOURCE:

\$740,000.00 CDBG Funds and includes matching funds (\$50k) from previous FY budget \$485,538.24 CRA funds

\$1,225,538.24 for the Community Center, Off-Street Parking and Contingency

RECOMMENDATION ACTION:

Approval of award for the Alonzo Williams Park Community Center construction, contingent upon DEO approval, to MIE Inc. Approval of award for the Alonzo Williams Park off-street parking, contingent upon DEO approval, to R.L. Burns, Inc. Authority to continue to the next lowest qualified bidder with DEO approval, if any issues are identified with MIE, Inc. or RL Burns Inc. Authorize budgeted funding as described above.

DISTRIBUTION

Mayor NelsonFinance DirectorPublic Services DirectorCommissionersHR DirectorRecreation DirectorCity AdministratorIT DirectorCity ClerkCommunity Development DirectorPolice ChiefFire Chief



CITY OF APOPKA CITY COUNCIL

CONSENT AGENA

X PUBLIC HEARING

SPECIAL REPORTS

X OTHER: Final Development Plan/Plat

MEETING OF: October 3, 2018

FROM: Community Development

EXHIBITS: Vicinity Map

Final Development Plan

Plat

SUBJECT: LAKESIDE, PHASE 2 RESIDENTIAL SUBDIVISION – FINAL

DEVELOPMENT PLAN AND PLAT

REQUEST: APPROVAL OF THE LAKESIDE, PHASE 2 RESIDENTIAL

SUBDIVISION FINAL DEVELOPMPENT PLAN AND PLAT

SUMMARY:

OWNER: Avatar Properties Inc.

APPLICANT: Appian Engineering, LLC. c/o Luke M. Classon, P.E.

LOCATION: South of Marshall Lake and West of SR 451

EXISTING USE: Vacant land

FUTURE LAND USE: Low Density Residential, Mixed-Use

ZONING: PUD (Planned Unit Development)

PROPOSED USE: 124 single-family homes

TRACT SIZE: 154.18 +/- acres

DEVELOPABLE AREA: 52.06 +/- acres

FUNDING SOURCE: N/A

DISTRIBUTION

Mayor Nelson Finance Director Public Services Director
Commissioners HR Director Recreation Director

City Administrator IT Director City Clerk
Community Development Director Police Chief Fire Chief

RELATIONSHIP TO ADJACENT PROPERTIES:

Direction	Future Land Use	Zoning	Present Use
North (City)	Industrial (max 0.60 FAR)	I-1	John's Nursery, vacant property
East (City)	Industrial, None assigned (SR 451 right-of-way)	I-1, no zoning assigned	Existing agricultural use (John's Nursery), SR 451 right-of-way
South (City)	Low Density Residential (0-5 du/ac), Commercial (max 0.25 FAR)	R-1A, C-1	Vacant property, SR 451 retention pond
West (City)	Low Density Residential (0-5 du/ac)	PUD	Breckenridge residential subdivision buffer tract

<u>Project Use</u>: On April 4, 2018 the City Council approved a PUD Master Plan/Preliminary Development Plan for the Lake Marshall subdivision, which details the development of 301 single family residential lots in two phases. The subject property is located south of Marshall Lake and west of SR 451. The surrounding properties consist primarily of single-family residential and agricultural uses. The developer has submitted a Final Development Plan and Plat for Phase 2 of the Lake Marshall subdivision, now named Lakeside.

The applicant is requesting approval of the Final Development Plan and Plat for Phase 2 of Lakeside, which is for 124 single-family residential lots. All internal roadways are proposed as privately owned and maintained, and the subdivision will be gated. Consistent with the approved PUD Master Plan/Preliminary Development Plan, lot widths of 55-feet and 60-feet are provided in Lakeside, Phase 2. A minimum living area of 1,600 square feet is provided for all units located within Phase 2.

The minimum setbacks applicable to this project are:

Setback	Min. Standard
Front	25'
Side	5' – 60' lot
	7.5' – 55' lot
Rear	20'
Corner	15'

<u>Access</u>: Ingress/egress access points for the development will be via Johns Road. Adjacent to the west of the subject property is the Breckenridge subdivision. A gated access for emergency vehicles will be provided between the two subdivisions. This access point will only be for emergency vehicles. In response to the Breckenridge homeowners association, pedestrian access will not be permitted between the two subdivisions.

<u>Stormwater</u>: There are three (3) retention ponds designed to meet the City's Land Development Code requirements.

Recreation and Open Space: Consistent with the approved PUD Master Plan/Preliminary Development Plan, the recreation package will be located within Phase 1 and will consist of a cabana with restrooms, a swimming pool, a playground, and a mixed-use active field at a minimum. In addition the developer is dedicating a tract in Phase 1 adjacent to Marshall Lake as a Community Lake Park that will have community dock, and a 1.03 acre open space tract across the street from this park. These amenities will

CITY COUNCIL – OCTOBER 3, 2018 LAKESIDE, PHASE 2 – FINAL DEVELOPMENT PLAN AND PLAT PAGE 3

available to residents in Phase 2. In the Phase 2 area, two tracts will be dedicated as a park/open space area. A 15.12 acre Conservation area within Tract "II" will also be dedicated with an easement to the St. Johns River Water Management District.

<u>Buffer/Tree Program</u>: Consistent with the approved PUD Master Plan/Preliminary Development Plan, landscaping is provided at the subdivision entrance on Johns Road, a 10-foot landscape buffer is provided along Johns Road, and a 20-foot wide landscape buffer is provided along SR 451. An existing 50-foot landscape buffer occurs along the western and northern project line within the Breckenridge plat. This buffer is noted as a tract on the Breckenridge plat. The Lake Marshall development will not be visible from the homes within Breckenridge or along SR 451.

The following is a summary of the tree replacement program for this project:

Total inches on-site:	15,296
Total number of specimen trees:	45
Total inches removed:	15,161
Total inches retained:	135
Total inches replaced:	2,502
Total Inches (Post Development):	4,637

<u>SCHOOL CAPACITY REPORT</u>: The developer has obtained a school concurrency mitigation agreement with Orange County Public Schools to address school impacts generated by this residential development. The schools zoned to receive students from this community are the following: Apopka Elementary School, Wolf Lake Middle School and Apopka High School.

ORANGE COUNTY NOTIFICATION: The County was notified at the time of the subdivision plan and plat for this property through the DRC agenda distribution.

PUBLIC HEARING SCHEDULE:

September 11, 2018 - Planning Commission, 5:30 p.m. October 3, 2018 - City Council, 1:30 p.m.

RECOMMENDATION ACTION:

The **Development Review Committee** recommends approval of the Lakeside, Phase 2 Final Development Plan and Plat subject to the final review by the City surveyor and City Engineer prior to recording the plat.

The **Planning Commission** at its meeting on September 11, 2018, found the plat for Lakeside, Phase 2 consistent with the Comprehensive Plan and Land Development Code, and unanimously recommended approval of the Lakeside, Phase 2 plat subject to the findings of this staff report.

City Council: Approve the Lakeside, Phase 2 Final Development Plan and Plat.

Note: This item is considered quasi-judicial. The staff report and its findings are to be incorporated into and made a part of the minutes of this meeting.

CITY COUNCIL – OCTOBER 3, 2018 LAKESIDE, PHASE 2 – FINAL DEVELOPMENT PLAN AND PLAT PAGE 4

Application: Lakeside, Phase 2 plat Owners: Avatar Properties, Inc

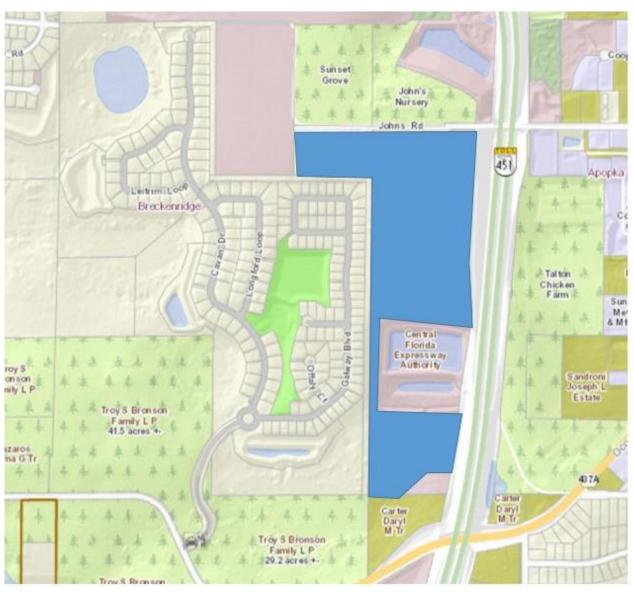
Project Engineer: Appian Engineering, Inc., c/o Luke M. Classon, P.E.

Parcel ID#s: 17-21-28-0000-00-014, 08-21-28-0000-00-043

Total Acres: 154.18 +/-



VICINITY MAP





AERIAL MAP



LEGAL DESCRIPTION PER PEC - SURVEYING AND MAPPING, LLC DATED: JUNE 2017

OCPA PARCEL ID 28-21-88-0000-00-005:

FIRST AMERICAN TITLE FILE NUMBER: 2037-3759052

ND REFERRED TO HEREIN BELOW IS SITUATED IN THE COUNTY OF ORANGE, OF FLORIDA, AND IS DESCRIBED AS FOLLOWS:

WEST 1/2 OF THE NORTHWEST 1/4 OF SOUTHEAST 1/4 OF SECTION 8, TOWNSHIP 21 SOUTH, RANGE 21 EAST, ORANGE COUNTY, FLORIDA.

REGIN AT THE MORTHWEST CORNER OF THE EAST HALF OF THE SOUTHWEST 14 OF THE OUTHEAST 14 OF SECTION I. TOWNSHIP IT SOUTH, RANGE IR EAST, RUN MORTH HYPTAYE LAST BOFFEET, THENCE SOUTH HOUSDAY WEST IS FEET, THENCE SOUTH BYSTAY WEST SO FEET, THENCE MORTH OUTHSAY EAST 35 FEET, TO POINT OF BEGINNING, ORANGE COUNTY.

THE SOUTHEAST CORNER OF THE WEST HALF OF THE NORTHEAST 144 OF THE SOUTHEAST IN, SECTION, I CONNERS 135 SOUTH BASING WEST ALONG THE SOUTH BASING TO SOUTH BASING WEST ALONG THE SOUTH HAS TO SOUTH BASING WEST ALONG THE SOUTH LINE OF LAKE, THENCE SOUTH LINE OF LAKE, THE SOUTH LINE OF LAKE SOUTH LINE OF SAUD WEST HALF, THENCE SOUTH LINE GAST LINE OF SAUD WEST HALF, THENCE SOUTH HAS LINE OF SAUD WEST HALF, THENCE SOUTH HOWSING THE SOUTH OF SECTION, TO NOWSHED IS SOUTH, RANGE SEE SAT, RUN THENCE SOUTH BASING WEST LINE OF SAUD SECTION, TO NOWSHED IS SOUTH, RANGE SEAT, RUN THENCE SOUTH BASING WEST LINE OF THE MEAST, AND THE PLOY OF SECTION, TO NOWSHED IS SOUTH, RANGE SEAT, RUN THENCE SOUTH BASING WEST LINE OF THE NEW CONTROL SOUTH BASING WEST LINE OF THE NEW CONTROL SOUTH SAUD WEST LINE SECTION. THENCE NOW THE SOUTH BASING WEST LINE FEET, THENCE SOUTH BASING WEST LINE OF THE NEW THE NOW THE SOUTH BASING WEST LINE FEET, THENCE WORTH BASING PLAY THE OF THE NORTH HALF FEET, THENCE WORTH AS THE OF THE NORTH HALF FEET, THENCE WORTH AS THE OF THE NORTH HALF FEET OF THE NORTH HALF THE SOUTH AS THE OF THE NORTH HALF THE SOUTH AS THE OF THE NORTH HALF THE SOUTH AS THE OF SECTIONS, I NOWNSHEY IS SOUTH AS TO SHARE COUNTY, FLORIDAL LESS ANY PORTION OF THE ABOVE DESCRIPTION LYING WITHIN THE BOUNDARY. FLORIDAL LESS ANY PORTION OF THE ABOVE DESCRIPTION LYING WITHIN THE BOUNDARY. FLORIDAL LESS ANY PORTION OF THE ABOVE DESCRIPTION LYING WITHIN THE BOUNDARY. FLORIDAL LESS ANY PORTION OF THE ABOVE DESCRIPTION LYING WITHIN THE BOUNDARY. FLORIDAL LESS OND SOUTH AS THE PUBLIC RECORDS OF ORANGE COUNTY, FLORIDAL RECORDS BOOK STO, THE PUBLIC RECORDS OF ORANGE COUNTY, FLORIDAL

ALSO LESS AND EXCEPT FROM THE ABOVE DESCRIPTIONS, AVY PORTION LYING WITHIN THE PROPERTY DESCRIBED IN STIPULATED ORDER OF TAKING RECORDED IN OFFICIAL RECORDS BOOK SHIL, PAGE 2470, OF THE PUBLIC RECORDS OF ORANGE COUNTY, FLORIDAL

THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN THE COUNTY OF GRANGE, STATE OF FLORIDA, AND IS DESCRIBED AS FOLLOWS:

THE WEST 1/2 OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4, SECTION 8, TOWNSHIP 21 SOUTH, RANGE 28 EAST, ORANGE COUNTY, FLORIDA, LYING SOUTH OF MASEK ROAD NOW

THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN THE COUNTY OF ORANGE, STATE OF FLORIDA, AND IS DESCRIBED AS FOLLOWS:

THE SOUTH HALF (S 14) OF THE NORTHWEST QUARTER (NW 14) OF THE NORTHEAST QUARTER (NE 14) OF NORTHEAST QUARTER (NE 14) OF SCTION SEVENTEEN (17) TOWNSHIP TWENTY-ONE SOUTH OF RANGE TWENTY-TEACH EAST, ORANGE COUNTY, FLORIDA

E II) OF NORTHEAST QUARTER (NE II) OF SECTION SEVENTEEN (17) TOWNSHIP WENTY-ONE SOUTH OF RANGE TWENTY EIGHT EAST, ORANGE COUNTY, FLORIDA

THAT PART OF THE SOUTHEAST QUARTER (SE %) OF NORTHEAST QUARTER (NE %) OF SECTION 17, TOWNSHIP 21 SOUTH, PANNE 28 EAST, ORLINGE COUNTY, FLORIDA, LYING WEST OF STATE ROAD 493 AND LESS PORTION THEREOF DESCRIBED IN ORDER OF TAKING RECORDED IN OFFICIAL RECORDS BOOK SHR, PAGE 1547, PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA.

THAT PART OF THE EAST HALF (E %) OF THE NORTHEAST QUARTER (NE %) OF NORTHEAST QUARTER (NY MG, SECTION IT, TOWNSWIP 21 SOUTH, RANGE 28 EAST, ORANGE COUNTY, EL ORDAL, LYMOG PEST OF STATE ROAD 429 MIGHT OF MAY, AND LESS PRITTON DESCRIBED IN ORDER OF TAXING RECORDED IN OFFICIAL RECORDS BOOK SART, PAGE 1547, PUBLIC RECORDS OF ORANGE COUNTY, EL ORDINA.

AT PORTION OF THE EAST HALF % [E/k] OF THE SOUTHFAST QUARTER (SE 14) OF STREAST QUARTER (SEA) OF SECTION 8, TOWNSHIP 11 SOUTH, RANGE 28 EAST, OUTH OF THE COUNTY CLAY ROAD AS NOW EXISTING, IN ORANGE COUNTY, 4, AND I YING WEST OF LANDS DESCRIBED IN ORDER OF TAKING RECORDED IN

FINAL DEVELOPMENT PLAN

LAKESIDE - PHASE 2 (F.K.A. LAKE MARSHALL SUBDIVISION)

CITY OF APOPKA, FLORIDA

OCPA PARCEL ID# 28-21-08-0000-00-005, 28-21-08-0000-00-043 & 28-21-17-0000-00-014



PROJECT TEAM:

VICINITY MAP



UTILITY PROVIDERS

GAS: AKE APOPKA NATURAL GAS DISTRICT

CABLE: CHARTER COMMUNICATIONS 3767 ALL AMERICAN BOULEVARD ORLANDO, FLOREDA 32830 CONTACT: MARVIN USRY JR. PHONE: (407) 532-8309

E APOPSA NATURAL GAS DISTRICT WINTER GARDEN VINELAND ROAD ORLANDO, FL 32803 CONTACT: ANTONIO GIBSON PHONE: (407) 656-2734

RESIDENTIAL WASTE COLLECTION: CITY OF APOPKA

GENTERY LINK

33 N. MAIN MAIN STREET, ROOM 14
WENTER GARDEN, FL 34787

CONTACT: TY LESLIE
PHONE: (407) 814-5283

2501 25TH STREET NORTH ST. PETERSBURG, FL. 33713 INTACT: MEGAN VONSTETIO PHONE: (727) 893-9994

AERIAL MAP



SOILS MAP



FEMA FLOOD MAP

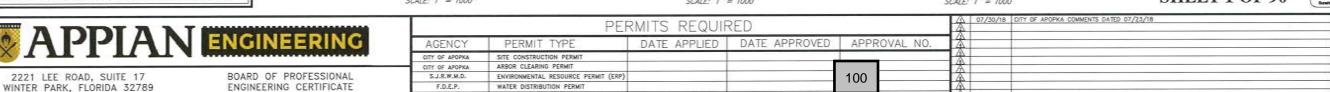
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- LPI LIFT STATION DETAILS DTI LIFT STATION DETAILS
- DT2 LIFT STATION DETAILS
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BOUNDARY, TOPO AND TREE SURVI

SHEET 1 OF 90



NO. 32174

F.D.E.P.

8/2/18

- CITY OF APOPKA, FLORIDA ST. JOHNS RIVER WATER MANAGEMENT DISTRICT FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

- THE GEOTECHNICAL REPORT SHALL BE REVIEWED BY THE CONTRACTOR, AND THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SITE, INCLUDING ALL SURFACE AND SUBSURFACE CONDITIONS, THE WORK REQUIRED, AND ALL OTHER CONDITIONS THAT MAY AFFECT THE SUCCESSFUL COMPLETION OF THE JOB <u>PRIOR</u> TO COMMENCEMENT OF
- 3. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND PERMIT CONDITIONS BEARING ON THE CONDUCT OF THE WORK, AS DRAWN AND SPECIFIED. IF THE CONTRACTOR OBSERVES THAT THE DRAWINGS AND SPECIFICATIONS ARE AT VARIANCE THEREWITH, HE SHALL PROMPTLY NOTIFY THE ENGINEER, IN WRITING, AND ANY NECESSARY CHANGES SHALL BE ADJUSTED, AS PROVIDED IN THE AGREEMENT
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE TO THE OWNER AND THE ENGINEER FOR THE ACTS AND OMISSIONS OF CONTRACTOR'S EMPLOYEES AND ALL HIS SUBCONTRACTORS AND THEIR AGENTS AND EMPLOYEES AND OTHER PERSONS PERFORMING ANY OF THE WORK UNDER A CONTRACT WITH THE CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ALL NECESSARY ARRANGEMENTS WITH GOVERNMENTAL DEPARTMENTS, PUBLIC UTILITIES, PUBLIC CARRIERS, SERVICE COMPANIES, AND CORPORATIONS OWNING OR CONTROLLING ROADWAYS, RAILWAYS, WATER, SEWER, GAS, ELECTRICAL TELEPHONE, AND TELEGRAPH FACILITIES SUCH AS PAYEMENTS, TRACKS, PIPING, WIRES, CABLES, CONDUITS, POLES, GUYS, OR OTHER SIMILAR FACILITIES, INCLUDING INCIDENTAL STRUCTURES CONNECTED THEREWITH THAT ARE ENCOUNTERED IN THE WORK IN ORDER THAT SUCH ITEMS MAY BE PROPERLY SUPPORTED, PROTECTED OR LOCATED.
- UNLESS OTHERWISE SPECIFIED IN THE GENERAL CONDITIONS, ALL CONSTRUCTION IS TO BE GOVERNED BY THE PLANS, APPLICABLE FERMINS, AND SAFETY CODES, LAWS AND ORDINANCES.
- PRIOR TO PERFORMING ANY WORK WITHIN ANY PUBLIC OR UTILITY RIGHT-OF-WAY, CONTRACTOR SHALL OBTAIN AUTHORIZATION AND PERMIT FROM JURISDICTION RESPONSIBLE FOR SUCH RIGHT-OF-WAY, IN ADDITION, CONTRACTOR SHALL OBTAIN GAS I.D. NUMBER FROM LOCAL GAS COMPANY AND NOTHY SUNSHINE STATE ONE-CALL UTILITY NOTIFICATION CENTER AT 1-800-432-4770 AT LEAST 48 HOURS PRIOR TO START OF WORK.
- PRIOR TO PERFORMING ANY WORK WITHIN ANY PUBLIC RIGHT—OF—WAY, CONTRACTOR SHALL DEVELOP AND IMPLEMENT A TRAFFIC CONTROL PLAN CONSISTENT WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION, AND SUBMIT TO
- 9. IN THE EVENT THE CONTRACTOR DISCOVERS ANY ERRORS OR OMISSIONS IN THE PLANS HE SHALL IMMEDIATELY NOTIFY THE ENGINEER AND/OR OWNER OR OWNER'S AGENT.
- 10. CONTRACTOR SHALL PRESERVE AND PROTECT ALL PERMANENT REFERENCE MONUMENTS, PERMANENT CONTROL POINTS, PERMANENT BENCH MARKS AND PROPERTY CORNERS. IN THE EVENT THE MONUMENTS, POINTS OR MARKERS ARE DISTURBED THE CONTRACTOR SHALL EMPLOY A FLORIDA REGISTERED LAND SURVEYOR TO RESET OR
- 11. THE OWNER, OWNER'S AGENT AND INSPECTORS OF APPLICABLE GOVERNMENT JURISDICTIONS, SHALL AT ALL TIMES HAVE ACCESS TO THE WORK WHEREVER AND WHENEVER IT IS IN PREPARATION OR PROGRESS; AND THE CONTRACTOR SHALL PROVIDE PROPER FACILITIES FOR SUCH ACCESS AND FOR THE INSPECTION.
- 12. IT IS THE CONTRACTOR'S RESPONSIBILITY TO TAKE ALL REASONABLE AND PRUDENT PRECAUTIONS TO INSURE THAT ALL COMPLETED WORK, MATERIALS AND EQUIPMENT STORED ON SITE ARE SAFE AND SECURED FROM UNAUTHORIZED ACCESS, USE, THEFT, OR VANDALISM. SUCH PRECAUTIONS MAY INCLUDE INSTALLATION OF SIGNS, FENCES, OR POSTING OF SECURITY GUARDS.
- 13. CONTRACTOR SHALL, AT ALL TIMES, UTILIZE ALL NORMALLY ACCEPTED AND REASONABLY EXPECTED SAFETY PRACTICES AND COMPLY WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS, ORDINANCES AND GUIDELINES PERTAINING TO SAFE UTILIZATION OF EQUIPMENT OR MATERIALS AS PUBLISHED BY THEIR MANUFACTURER'S.
- PRIOR TO INITIATING ANY EXCAVATION (INCLUDING BUT NOT LIMITED TO TUNNELS, DITCHES, STORM WATER PONDS, CANALS, ARTIFICIAL LAKES) CONTRACTOR SHALL INSTALL FENCES AND/OR TAKE ALL OTHER REASONABLE AND PRUDENT STEPS TO INSURE THAT ACCESS TO EXCAVATION BY UNAUTHORIZED PERSONNEL IS PREVENTED.
- 15. CONTRACTOR SHALL COMPLY IN EVERY RESPECT WITH THE PROVISIONS OF THE FLORIDA STATE TRENCH SAFETY
- 16. THE CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS FOR THE SAFETY OF, AND SHALL PROVIDE ALL REASONABLE PROTECTION TO PREVENT DAMAGE, INJURY OR LOSS TO:
 - A. ALL EMPLOYEES ON THE WORK AND ALL OTHER PERSONS WHO MAY BE AFFECTED THEREBY;
 - ALL THE WORK AND ALL MATERIALS AND EQUIPMENT TO BE INCORPORATED THEREIN, WHETHER IN STORAGE ON OR OFF THE SITE, UNDER THE CARE, CUSTODY OR CONTROL OF THE CONTRACTOR OR ANY OF ITS
 - OTHER PROPERTY AT THE SITE OR ADJACENT THERETO, INCLUDING TREES, SHRUBS, LAWNS, WALKS, PAVEMENTS, ROADWAY, STRUCTURES AND UTILITIES NOT DESIGNATED FOR DEMOLITION IN THE COURSE OF
- 17. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY CODES AND WITH ALL APPLICABLE LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC, QUASI PUBLIC OR OTHER AUTHORITY HAVING JURISDICTION FOR THE SAFETY OF PERSONS OR PROPERTY OR FOR THEIR PROTECTION AGAINST DAMAGE, INJURY OR LOSS, OR DESIGNED TO PROTECT THE ENVIRONMENT. THE CONTRACTOR SHALL ERECT AND MAINTAIN, AS REQUIRED BY EXISTING CONDITIONS AND PRORESS OF THE WORK, ALL REASONABLE SAFEGUARDS FOR SAFETY AND PROTECTION, INCLUDING POSTING DANGER SIGNS AND OTHER WARNINGS, AGAINST HAZARDS, PROMULGATING SAFETY REGULATIONS AND NOTIFYING OWNERS AND USERS OF ADJACENT UTILITIES OF THE EXISTENCE OF HAZARDS AND OF THE SAFETY REGULATIONS.
- 18. ALL DAMAGE OR LOSS TO ANY PROPERTY CAUSED IN WHOLE OR IN PART BY THE CONTRACTOR, A SUBCONTRACTOR, OR BY ANYONE FOR WHOSE ACTS ANY OF THEM MAY BE LIABLE, SHALL BE REMEDIED BY THE CONTRACTOR, EXCEPT DAMAGE OR LOSS PROPERLY ATTRIBUTABLE SOLELY TO THE ACTS OR OMISSIONS OF THE OWNER, OR THE ENGINEER OR ANYONE EMPLOYED BY THEM, OR FOR WHOSE ACTS ANY OF THEM MAY BE LIABLE, AND NOT PROPERLY ATTRIBUTABLE IN WHOLE OR IN PART, TO THE FAULT OR NEGLIGENCE OF THE CONTRACTOR.
- THOSE PARTS OF WORK IN PLACE WHICH ARE SUBJECT TO DAMAGE BECAUSE OF OPERATIONS BEING CARRIED ON ADJACENT THERETO SHALL BE COVERED, BOARDED UP OR SUBSTANTIALLY ENCLOSED WITH ADEQUATE PROTECTION BY THE CONTRACTOR AT CONTRACTOR'S EXPENSE.
- 20. UNTIL FINAL ACCEPTANCE OF THE WORK BY OWNER, THE CONTRACTOR SHALL HAVE THE CHARGE AND CARE OF AND SHALL BEAR THE RISK OF INJURY OR DAMAGE, LOSS OR EXPENSE TO ANY PART THEREOF, OR TO ANY MATERIALS STORED ON SITE, BY THE ACTION OF THE LEMENTS OR FROM ANY OTHER CAUSE WHETHER ARISING FROM THE EXECUTION OR NON-EXECUTION OF THE WORK. THE CONTRACTOR SHALL REBUILD, REPAIR, RESTORE AND MAKE GOOD ALL INJURIES OR DAMAGES TO ANY PORTION OF THE WORK OCCASIONED BY ANY OF THE ABOVE CAUSES BEFORE FINAL ACCEPTANCE AND SHALL BEAR THE EXPENSES THEREOF.
- 21. ADEQUATE TRAFFIC CONTROL, BARRICADES AND FLAGMAN SERVICES SHALL BE FURNISHED AND MAINTAINED BY THE CONTRACTOR AT ALL POINTS WHERE CONVEYING EQUIPMENT ENGAGED ON THE WORK REGULARLY ENTERS ONTO OR CROSSES TRAFFIC—CARRYING ROADS.
- 22. THE CONTRACTOR SHALL COMPLY IN EVERY RESPECT WITH THE FEDERAL OCCUPATIONAL HEALTH AND SAFETY ACT OF 1970 AND ALL RULES AND REGULATIONS NOW OR HEREAFTER IN EFFECT UNDER SAID ACT, AND THE CONTRACTOR FURTHER AGREES TO COMPLY WITH ANY AND ALL APPLICABLE STATE LAWS AND REGULATIONS PERTAINING TO JOB SAFETY AND HEALTH.
- 23. CONTRACTOR AND ITS SUBCONTRACTORS SHALL USE, HANDLE, TRANSPORT, AND DISPOSE OF ALL MATERIALS (HAZARDOUS OR OTHERMSE) IN COMPLIANCE WITH ALL PRESENT FEDERAL, STATE AND LOCAL ENVIRONMENTAL, HEALTH OR SAFETY LAW, INCLUDING, BUT NOT LIMITED TO, ALL SUCH STATUTES, REGULATIONS, RULES, ORDINANCES, CODES, AND RULES OF COMMON LAW.

- CONTRACTOR FURTHER AGREES THAT CONTRACTOR AND ITS SUBCONTRACTORS SHALL NOT CAUSE THE DISCHARGE, RELEASE OR DISPOSAL OF ANY HAZARDOUS MATERIAL CREATED BY ITS WORK ON OR ABOUT THE JOB SITE. IN THI EVENT OF ANY SPILL, RELEASE OR ANY OTHER REPORTABLE OCCURRENCE, CONTRACTOR SHALL NOTIFY THE APPROPRIATE GOVERNMENTAL AGENCY AND SHALL TAKE SUCH ACTION AS MAY BE NECESSARY TO MINIMIZE THE DELETERIOUS EFFECT OF SUCH SPILL ON PERSONS OR PROPERTY.
- 25. THE CONTRACTOR SHALL PROTECT AND KEEP OWNER (INCLUDING THEIR AGENTS AND EMPLOYEES) FREE AND HARMLESS FROM ANY AND ALL LABILITY, PUBLIC OR PRIVATE, PENALTIES, CONTRACTUAL OR OTHERWISE, LOSSES, DAMAGES, COSTS, ATTORNEY'S FEES, EXPENSES, CAUSES OF ACTION, CLAIMS OR JUDGMENTS RESULTING FROM THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AS AMENDED OR NY RULE OR REGULATION PROMULCATED THEREUNDER OR OF ANY STATE LAWS OR REGULATIONS PERTAINING TO JOB SAFETY AND HEALTH ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE PERFORMANCE OF WORK OR WORK TO BE PERFORMED UNDER THIS CONTRACT, AND CONTRACTOR SHALL INDEMNIFY OWNER FROM ANY SUCH CLAIMS, PENALTIES, SUITS OR ACTIONS, PUBLIC OR PRIVATE, ADMINISTRATIVE OR JUDICIAL, INCLUDING ATTORNEY'S FEES PAID OR INCURRED BY OR ON BEHALF OF OWNER, JOINTLY OR SEVERALLY, AND/OR THEIR AGENTS AND EMPLOYEES. THE CONTRACTOR FURTHER AGREES, IN THE EVENT OF A CLAIMED VIOLATION OF ANY FEDERAL OR STATE SAFETY AND HEALTH LAW OR REGULATION ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE PERFORMENCE OF WORK OR WORK TO BE PERFORMED UNDER THIS CONTRACTO, OWNER MAY IMMEDIATELY TAKE WHATEVER ACTION IS DEEMED NECESSARY BY OWNER TO REMEDY THE CLAIMED VIOLATION. ANY AND ALL COSTS OR EXPENSES.
- 26. CONTRACTOR AND ITS SUBCONTRACTORS SHALL, UPON COMPLETION OF PERFORMANCE OF ALL DUTIES UNDER CONTRACT, REMOVE ALL SUPPLIES, MATERIALS, AND WASTE CONTAINING AND HAZARDOUS MATERIAL FROM THE SITE. CONTRACTOR SHALL BEAR FULL FINANCIAL RESPONSIBILITY, AS BETWEEN THE PARTIES OF THIS CONTRACT FOR THE COMPLIANCE OF CONTRACTOR AND ITS SUBCONTRACTORS WITH THE PROVISIONS OF THIS CONTRACT.
- 27. CONTRACTOR AGREES TO INDEMNIFY, DEFEND, PROTECT AND HOLD THE OWNER HARMLESS FROM AND AGAINST ANY CLAIMS INCLUDING, MTHOUT LIMITATION, ACTUAL ATTORNEY'S FEES AND ANY COSTS OF INVESTIGATION, SOILS TESTING, GOVERNMENTAL APPROVALS, REMEDIATION AND CLEANUP ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE FAILURE OF CONTRACTOR OR ITS SUBCONTRACTORS, OR THEIR AGENTS, EMPLOYEES, OFFICERS, OR REPRESENTATIVES, TO COMPLY WITH THE TERMS OF THESE CONSTRUCTION DOCUMENTS.
- 28. SHOULD CONTRACTOR OR ITS SUBCONTRACTORS DISCHARGE, RELEASE OR DISPOSE OF ANY HAZARDOUS MATERIAL ON OR ABOUT THE JOB SITE IN VIOLATION OF THESE CONSTRUCTION DOCUMENTS, CONTRACTOR SHALL IMMEDIATELY SO INFORM OWNER & ENGINEER IN WRITING. IN THE EVENT OF ANY SPILL, RELEASE OR ANY OTHER REPORTABLE COCURRENCE, CONTRACTOR SHALL NOTIFY THE APPROPRIATE GOVERNMENTAL AGENCY, OWNER & ENGINEER AND SUCH ACTION AS MAY BE NECESSARY TO MINIMIZE THE DELETERIOUS EFFECT OF SUCH SPILL ON
- 29. IN THE EVENT CONTRACTOR OR ITS SUBCONTRACTORS ENCOUNTER ON THE PREMISES ANY PIPELINE, UNDERGROUND STORAGE TANK OR OTHER CONTAINER, OF ANY KIND, THAT MAY CONTAIN A HAZARDOUS MATERIAL, OR ENCOUNTER MATERIAL REASONABLY BELIEVED TO BE A HAZARDOUS MATERIAL, CONTRACTOR SHALL IMMEDIATELY STOP WORK IN THE AREA AFFECTED AND REPORT THE CONDITION TO OWNER AND/OR ENGINEER IN WRITING
- 30. "HAZARDOUS MATERIAL" MEANS ANY SUBSTANCE: (A) THE PRESENCE OF WHICH REQUIRES INVESTIGATION OR REMEDIATION UNDER ANY PRESENT FEDERAL, STATE OR LOCAL STATUTE, REGULATION, ORDINANCE, RULE, CODE, ORDER, ACTION, POLICY OR COMMON LAW, OR (B) WHICH IS OR BECOMES DEFINED AS A "HAZARDOUS WASTE," "HAZARDOUS SUBSTANCE," POLILITANT OR CONTAMINANT UNDER ANY PRESENT FEDERAL, STATE OR LOCAL STATUTE, REGULATION, RULE OR ORDINANCE OR AMENDMENTS THERETO INICLUDING, WITHOUT LIMITATION, THE COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (42 U.S.C. SECTIONS 9601 ET SEQ.) AND/OR THE RESOURCE CONSERVATION AND RECOVERY ACT (42 U.S.C. SECTIONS 6901 ET SEQ.), OR (C) WHICH IS TOXIC, EXPLOSIVE, CORROSIVE, FLAMMABLE, INFECTIOUS, RADIOACTIVE, CARCINOGENIC, MUTAGENIC, OR OTHERWISE HAZARDOUS AND IS REGULATED BY ANY GOVERNMENTAL AUTHORITY, AGENCY, DEPARTMENT, COMMISSION, BOARD, AGENCY OR INSTRUMENTALITY OF THE UNITED STATES, THE STATE IN WHICH THE PRESURES ARE LOCATED OR ANY POLITICAL SUBDIVISION THEREOF, OR (D) THE PRESENCE OF WHICH ON THE PRESURES CAUSES OR THREATENS TO CAUSE A NUISANCE UPON THE PRESURES OR ON ABJOACTIVE OR THEATENS TO POSE A HAZARD TO THE HEALTH OR SAFETY OF PERSONS ON OR ABOUT THE PRESURES, OR (E) WHICH CONTAINS GASOLINE, DIESEL FUEL OR OTHER PETROLEUM HYDROCARBONS, OR (F) WHICH CONTAINS POLYCHLORINATED BIPHENYLS (PCBS), ASBESTOS, LEAD OR UREA FORMALDEHYDE FOAM INSULATION.
- 31. THE CONTRACTOR SHALL FIELD LOCATE ALL EXISTING UTILITIES AS TO SIZE, LOCATION, AND ELEVATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY AND ALL CONFLICTS, DEVIATIONS OR OMISSIONS TO THESE CONSTRUCTION DRAWINGS PRIOR TO BEGINNING CONSTRUCTION.
- 32. IF ANY TESTING, INSPECTION OR APPROVAL REVEAL DEFECTIVE WORK, CONTRACTOR SHALL NOT BE ALLOWED TO RECEIVE ANY ASSOCIATED COSTS AND THE OWNER SHALL BE ENTITLED TO DEDUCT FROM THE CONTRACT PRICE, BY ISSUING A CHANGE ORDER, OWNER'S COSTS ARISING OUT OF THE DEFECTIVE WORK, INCLUDING COSTS OF REPEATED PROCEDURES, COMPENSATION FOR ENGINEER'S AND DESIGN ENGINEER'S SERVICES AND ALL OTHER RELATED COSTS.

ADDITIONAL NOTES

----- 75.0 ---- EXISTING CONTOURS

PROPOSED STORM PIPE

— PROPOSED CONTOURS

- SILT FENCE C2.6

— PROPOSED WATER MAIN

PROPOSED SANITARY PIPE

— PROPOSED FORCE MAIN

TYPE "D" CURB

TYPE "F" CURB

PROPOSED RECLAIM WATER MAIN

(0.82)

PROPOSED SPOT GRADES

---75.0---

×--75.0

- 1. BEARINGS SHOWN HEREON ARE ASSUMED RELATIVE TO THE FLORIDA STATE PLANE COORDINATE SYSTEM 1983 EAST ZONE, BASED ON GPS WITH L-NET CORRECTIONS. THE MONUMENTED NORTH LINE OF THE NORTHEAST QUARTER OF SECTION 17, TOWNSHIP 21 SOUTH, RANGE 28 EAST, BEING NORTH 89'49'08" WEST.
- 2. ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 AND ARE BASED ON THE FOLLOWING ORANGE COUNTY ENGINEERING DEPARTMENT'S BENCHMARKS: L653002 EL 131.081' L1549013 EL 135.026'
- 3. THE VERTICAL CONTROL ESTABLISHED FOR THE SURVEY IS BASED ON A CLOSED LEVEL LOOP, HAMING A CLOSURE ACCURACY WHICH MEETS OR EXCEEDS THAT REQUIRED BY THE STANDARDS OF PRACTICE SET FORTH IN RULE CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE, FLORIDA STATURES 472.027.

LEGEND

HANDICAP ACCESSIBILITY NOTES:

- ALL CONSTRUCTION MUST MEET OR EXCEED ALL REQUIREMENTS AS OUTLINED IN THE AMERICANS WITH DISABILITIES ACT (ADA) AND THE FIGURIA ACCESSIBILITY ACD EMPIREMENTS AS OUTLINED IN THE AMERICAN WITH DISCRIMENT ACT (ADA) AND THE FIGURIA ACCESSIBILITY ACD EMPIREMENTS AS OUTLINED IN THE AMERICAN OF CURB RAMP ELEVATION (B.O. RAMP) IS RELATIVE TO EACH CURB RAMP CONDITION. ACTUAL ELEVATIONS SHALL BE BASED ON EXISTING GRADE OF CURB FLOW LINE AT THE B.O. RAMPS.
- 2. TOP OF CURB ELEVATION ADJACENT TO B.O. RAMP = 0.50 FT. MAX. UNLESS OTHERWISE NOTED.
- ADA REQUIREMENTS SUPERSEDE SPOT GRADES AT LOT LINES. CONTRACTOR TO CUT BACK SLOPE AT 3:1 OR FLATTER AS NEEDED FOR RAMP AND SIDEWALK CONNECTION.
- 4. REFER TO PLAN SHEETS AND SECTIONS FOR LOCATIONS AND SIDEWALK WIDTHS.
- 5. THE DETECTABLE WARNING STRIP SHALL CONSIST OF A 24 INCH WIDE TACTILE PATTERN OF RAISED TRUNCATED DOMES (ALIGNED PATTERN). DOMES SHALL HAVE A DIAMETER OF 0.9 INCH, A HEIGHT OF 0.2 INCH, AND A CENTER COENTER SPACING OF 2.35 INCHES. THE RAMP DETECTABLE WARNING STRIP SHALL BE CONTRASTING IN COLOR. THE MATERIAL USED TO PROVIDE CONTRAST SHALL CONTRAST BY AT LEAST 70%.
- 6. THE CROSS SLOPE OF RAMP SURFACES AND ADJACENT STREET GRADES SHALL BE NO MORE THAN 1:50 OR 2%
- CURB RAMPS CONSTRUCTED BY THE CONTRACTOR SHALL MEET ALL CURRENT APPLICABLE A.D.A. REQUIREMENTS AND SHALL HAVE DETECTABLE WARNING COMPLYING WITH A.D.A. REQUIREMENTS. ACCESSIBILITY ROUTES SHALL MEET ALL APPLICABLE A.D.A. REQUIREMENTS.
- 8. CONTRACTOR TO REFER TO MUNICIPALITY DETAILS AS NEEDED.
- 9. DRIVEWAY/ROADWAY CROSS SLOPES AT CROSSWALKS SHALL BE MAXIMUM 2% PER ADA REQUIREMENTS.
- 10. SIDEWALK CROSS SLOPES SHALL BE MAXIMUM 2% PER ADA REQUIREMENTS.
- 11. CURB RAMP FLARES & LANDINGS SHALL MEET ADA REQUIREMENTS.
- 12. ACCESSIBLE ROUTE WITH RUNNING SLOPES GREATER THAN 1:20 IS A RAMP AND SHALL COMPLY WITH ADA RAMF
- 13. IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO MEET ALL CURRENT ADA STANDARDS. CONTRACTOR SHALL REFER TO FDOT STANDARDS. (INDEX 304, MOST CURRENT EDITION)

RECORD DRAWING AS-BUILT REQUIREMENTS:

AS-BUILT DRAWINGS SHALL BE PREPARED BY AND CERTIFIED (SIGNED AND SEALED) BY A REGISTERED SURVEYOR, AND SHALL BE PROVIDED TO THE ENGINEER OF RECORD UPON COMPLETION OF THE PROJECT SITE IMPROVEMENTS A MINIMUM OF 1 WEEK PRIOR TO CONTRACTORS ATTEMPT FOR BINAL CERTIFICATE OF COCUPANCY (CO). AS-BUILT DRAWINGS SHALL REPLECT ANY CHANGES TO THE IMPROVEMENTS MADE DURING CONSTRUCTION AND MUST MEET THE MINIMUM REQUIREMENTS OF ALL REGULATORY AGENCIES HAVING JURISDICTION AS WELL AS THE CRITERIA OUTLINED BELOW. BOTH THE ORIGINAL DESIGN AND REVISED AS-BUILT DATA, AS APPLICABLE, MUST BE CLEARLY SHOWN. THE AS-BUILT DRAWINGS MUST BE CLEARLY LABELED AS AS-BUILT OR RECORD DRAWING. THE FOLLOWING INFORMATION, AT A MINIMUM, SHALL BE CERTIFIED ON THE AS-BUILT DRAWINGS:

WATER DISTRIBUTION SYSTEM:

A. LOCATION AND DIMENSIONS OF PIPES, VALVES, FITTINGS, CHANGE OF DIRECTION, AND OTHER ASSOCIATED FACILITIES.

WASTEWATER COLLECTION/TRANSMISSION SYSTEM:

A. LOCATION, DIMENSION, AND INVERT ELEVATIONS OF PIPES, MANHOLES (INCLUDING RIM ELEVATION), LIFTSTATION, FORCEMAIN, FITTINGS, CHANGE IN DIRECTION AND OTHER ASSOCIATED FACILITIES.

PAVING AND DRAINAGE SYSTEM:

- A. DIMENSIONS AND ELEVATIONS OF ALL DISCHARGE STRUCTURES INCLUDING ALL WEIRS, SLOTS, GATES, PIPES,
- B. LOCATIONS, DIMENSIONS, AND ELEVATIONS OF ALL FILTER, EXFILTRATION, OR UNDERDRAIN SYSTEMS INCLUDING CLEANOUTS, PIPES, CONNECTIONS TO CONTROL STRUCTURES, AND POINTS OF DISCHARGE TO THE
- C. DIMENSIONS, ELEVATIONS, CONTOURS, OR CROSS-SECTIONS OF ALL STORMWATER TREATMENT POND STORAGE AREAS SUFFICIENT TO DETERMINE STAGE-STORAGE RELATIONSHIPS OF THE STORAGE AREA, AND THE POND DEPTH AND VOLUME BELOW THE CONTROL WATER ELEVATION FOR NORMALLY WET SYSTEMS;
- D. DIMENSIONS, ELEVATIONS, CONTOURS, FINAL GRADES, OR CROSS-SECTIONS OF THE DRAINAGE SYSTEM IMPROVEMENTS TO DETERMINE FLOW DIRECTIONS AND CONVEYANCE OF RUNOFF TO THE TREATMENT
- E. DIMENSIONS, ELEVATIONS, CONTOURS, FINAL GRADES, OR CROSS-SECTIONS OF ALL CONVEYANCE SYSTEMS UTILIZED TO CONVEY OFF-SITE RUNOFF AROUND THE SYSTEM;
- F. EXISTING WATER ELEVATION OF SURFACE WATERS AND THE DATE DETERMINED;

G. ELEVATION AND LOCATION OF BENCHMARK'S FOR THE SURVEY.

- ELEVATIONS AT THE FOUR CORNERS OF ALL HANDICAP PARKING SPACES AND ADJACENT LOADING AISLES.
- ELEVATIONS AND LOCATIONS FOR ALL ACCESSIBLE RAMPS WHICH ADEQUATELY REFLECT THE BUILT SLOPES.
- C. ELEVATIONS AND LOCATIONS ALONG THE PATHS OF CONVEYANCE FOR PEDESTRIAN TRAFFIC AND ALL ADA ACCESSIBLE ROUTES EVERY 25 FT. WHICH ADEQUATELY REFLECT THE SLOPE AND CROSS SLOPE.

ENGINEERIN NOTES HASE 2 SUBDIVI FLORIDA ENERAL NOTES DEVELOPMENT F LAKESIDE – PH, A LAKE MARSHALL CITY OF APOPKA, B 8 FINAL (FKA -00 -001 .10 ROY-2 ANIMO III PPI NGINEE 8/2/18

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SHEET 2 OF 90

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CONCRETE SIDEWALK $\frac{5}{(8.0)}$

MITER END SECTION (C9.D)

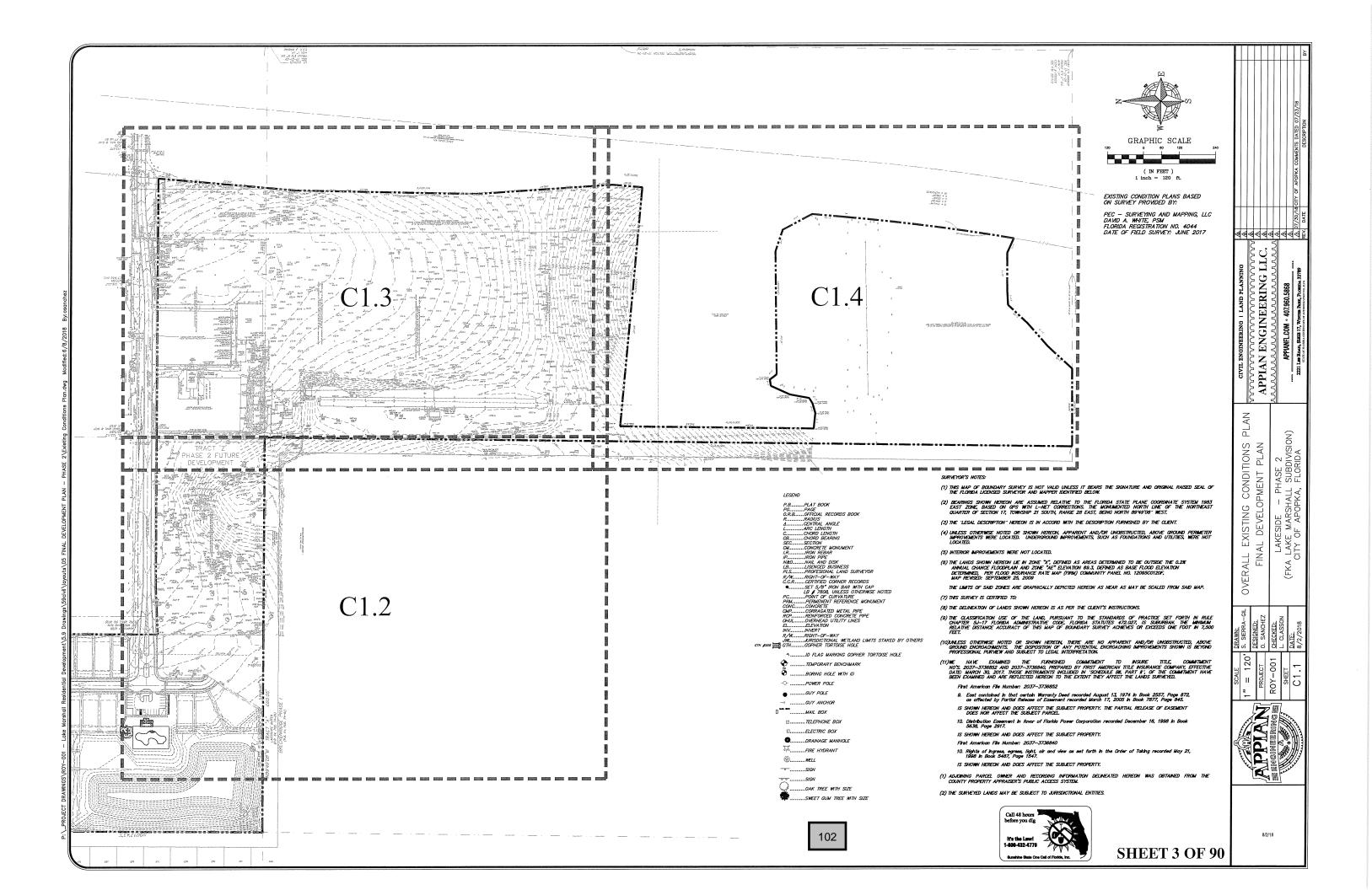
FDOT TYPE 3 INLET (5)

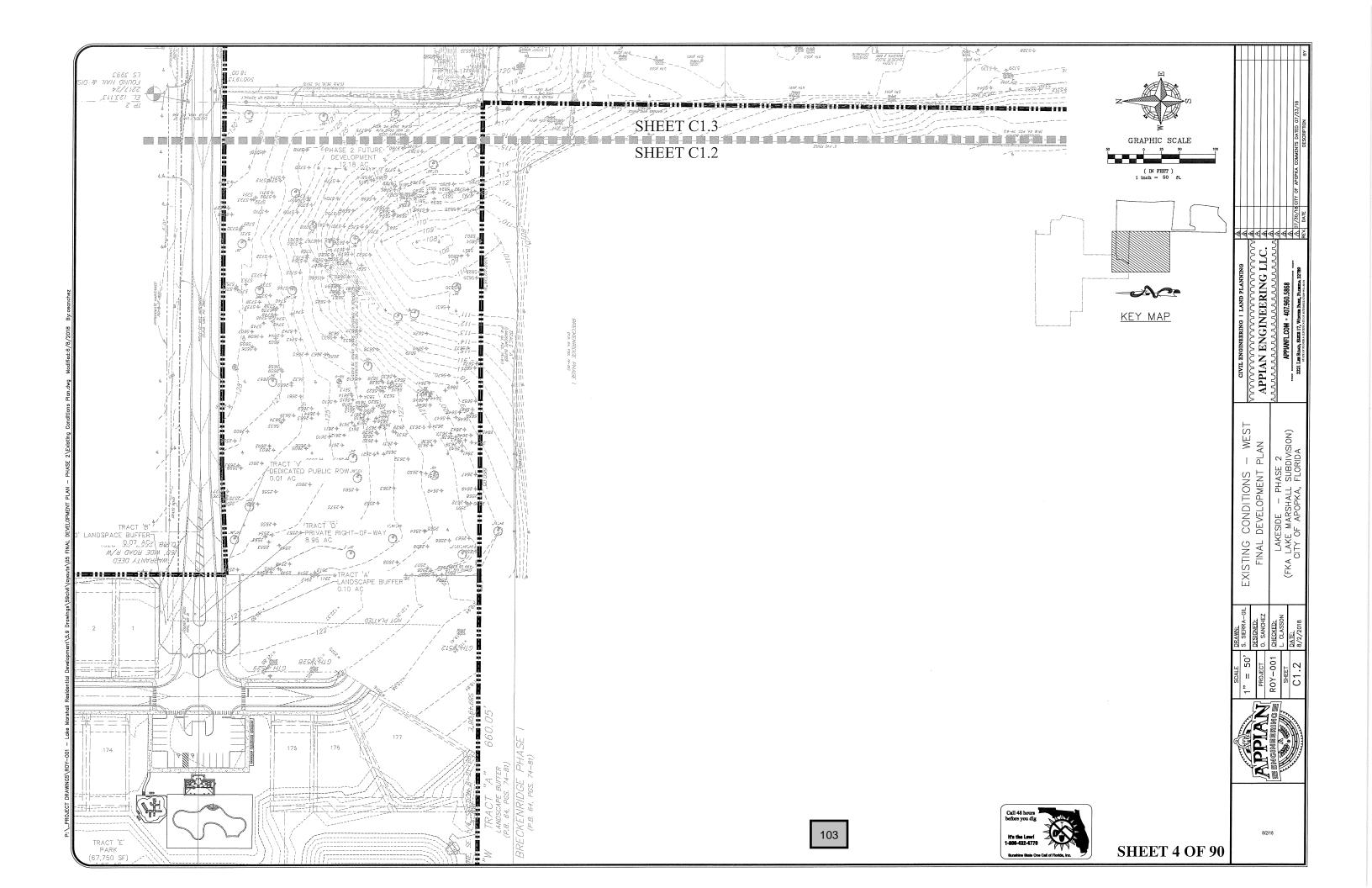
FDOT TYPE 4 INLET 5

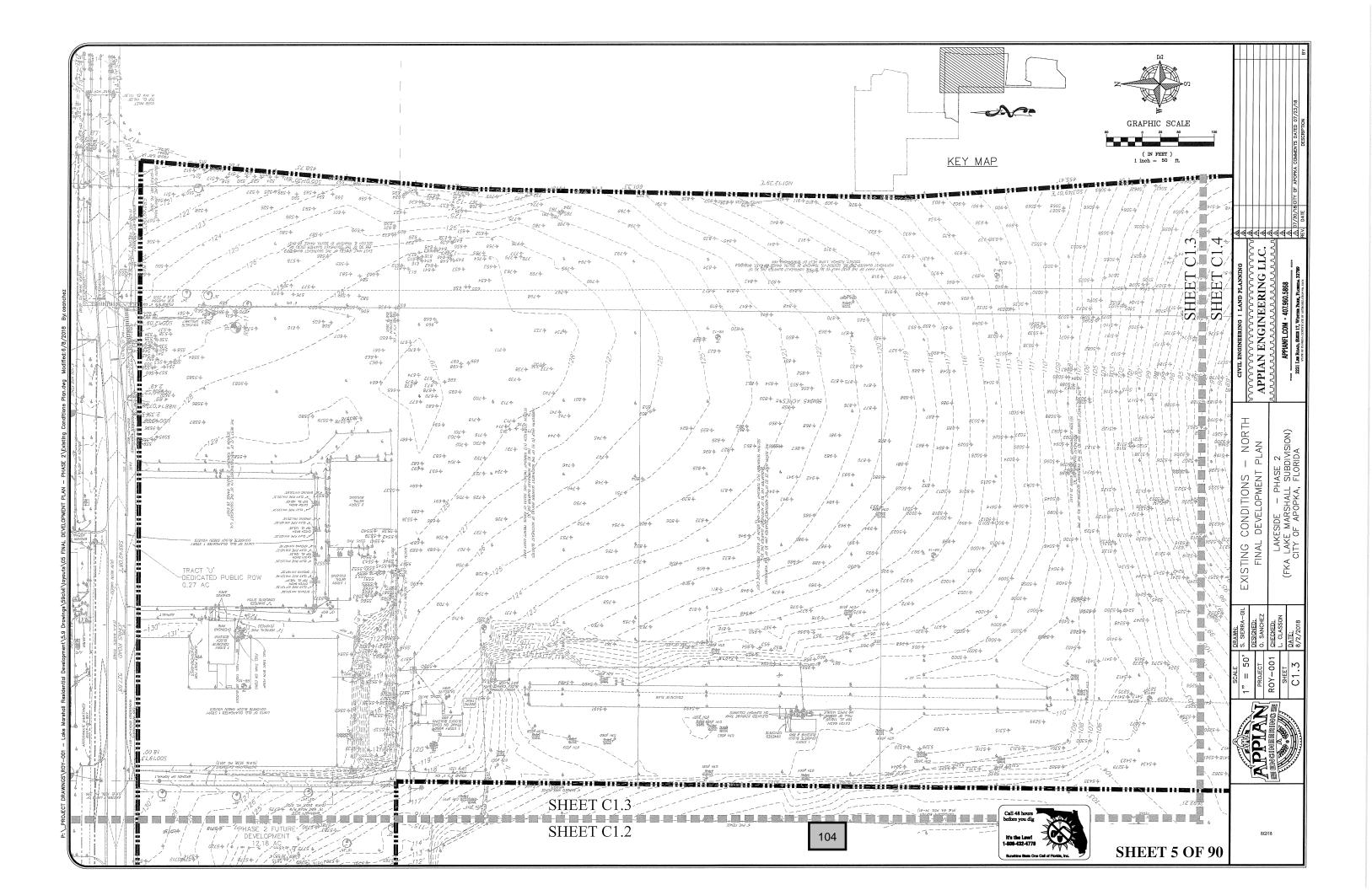
STOP SIGN (R1-1)

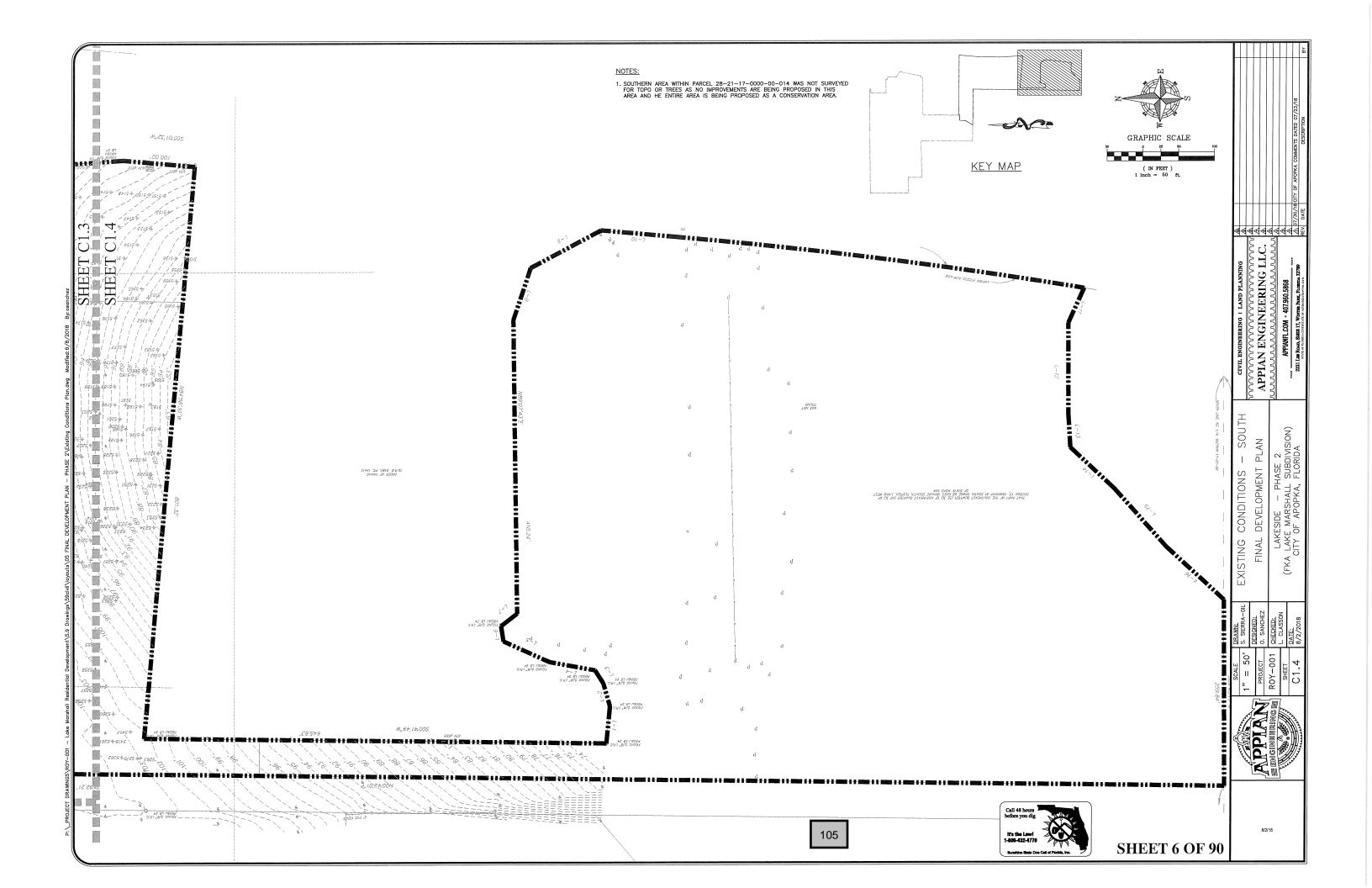
STORM MANHOLE

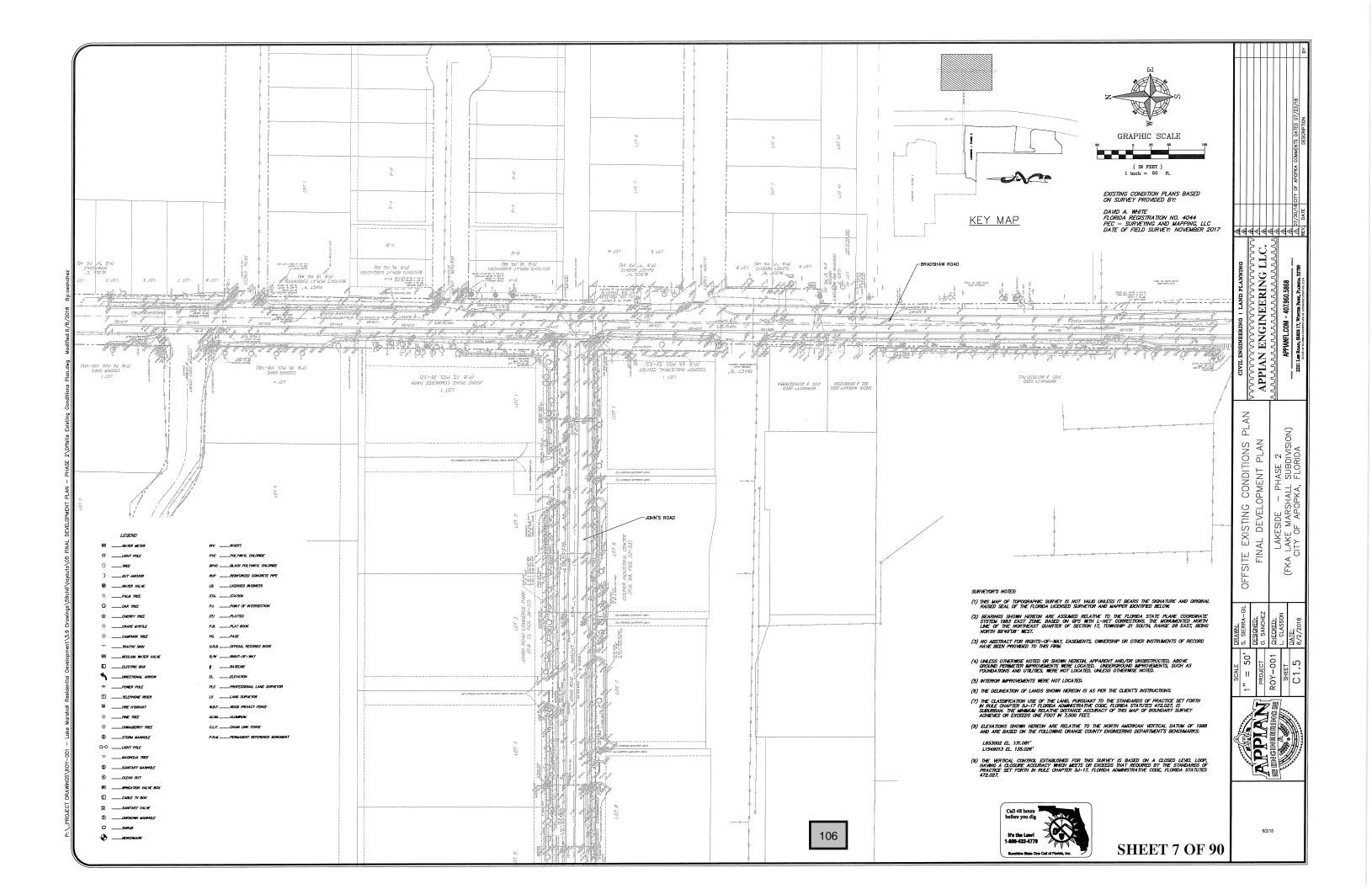
(2) (C9.0)

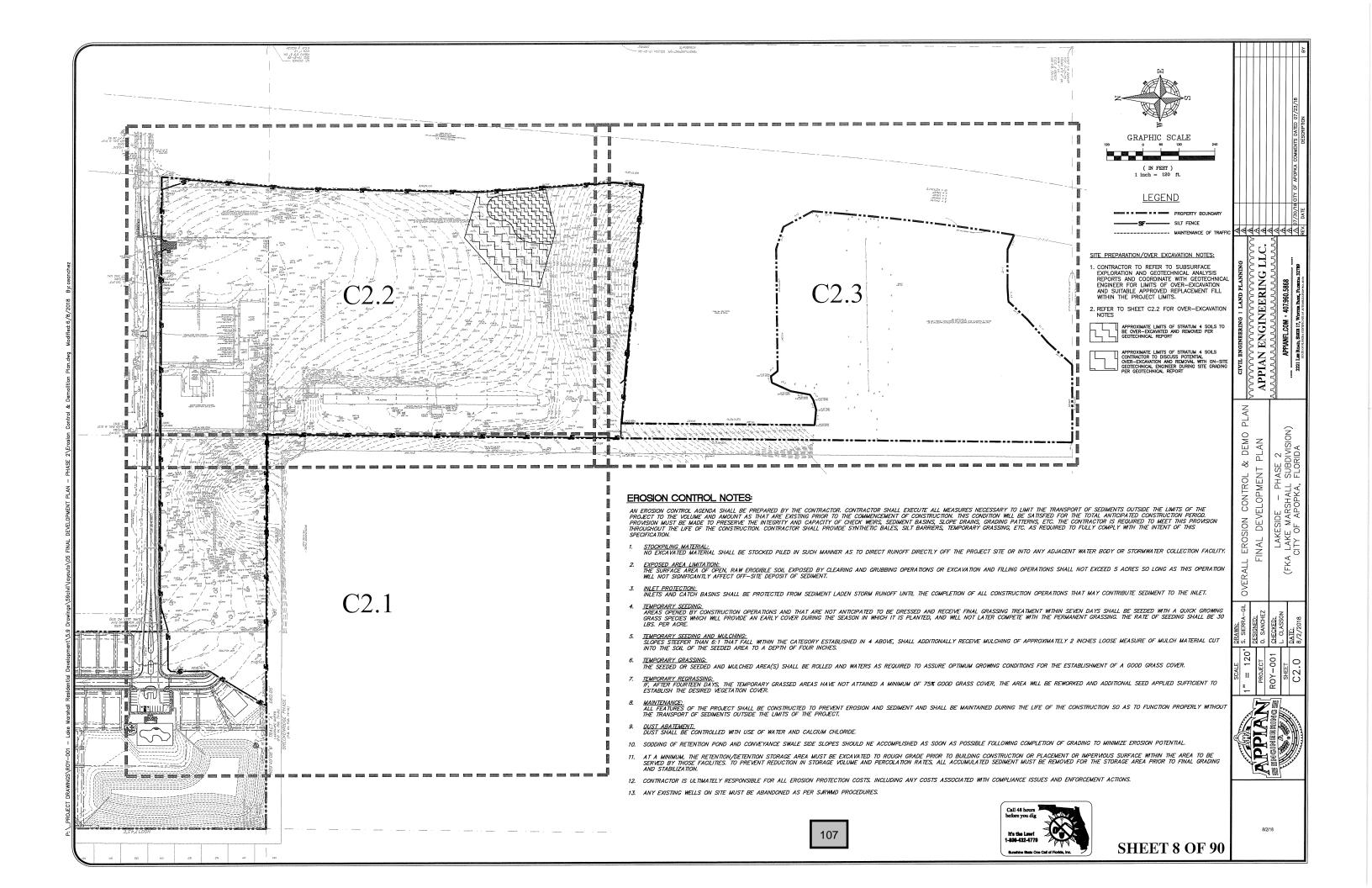


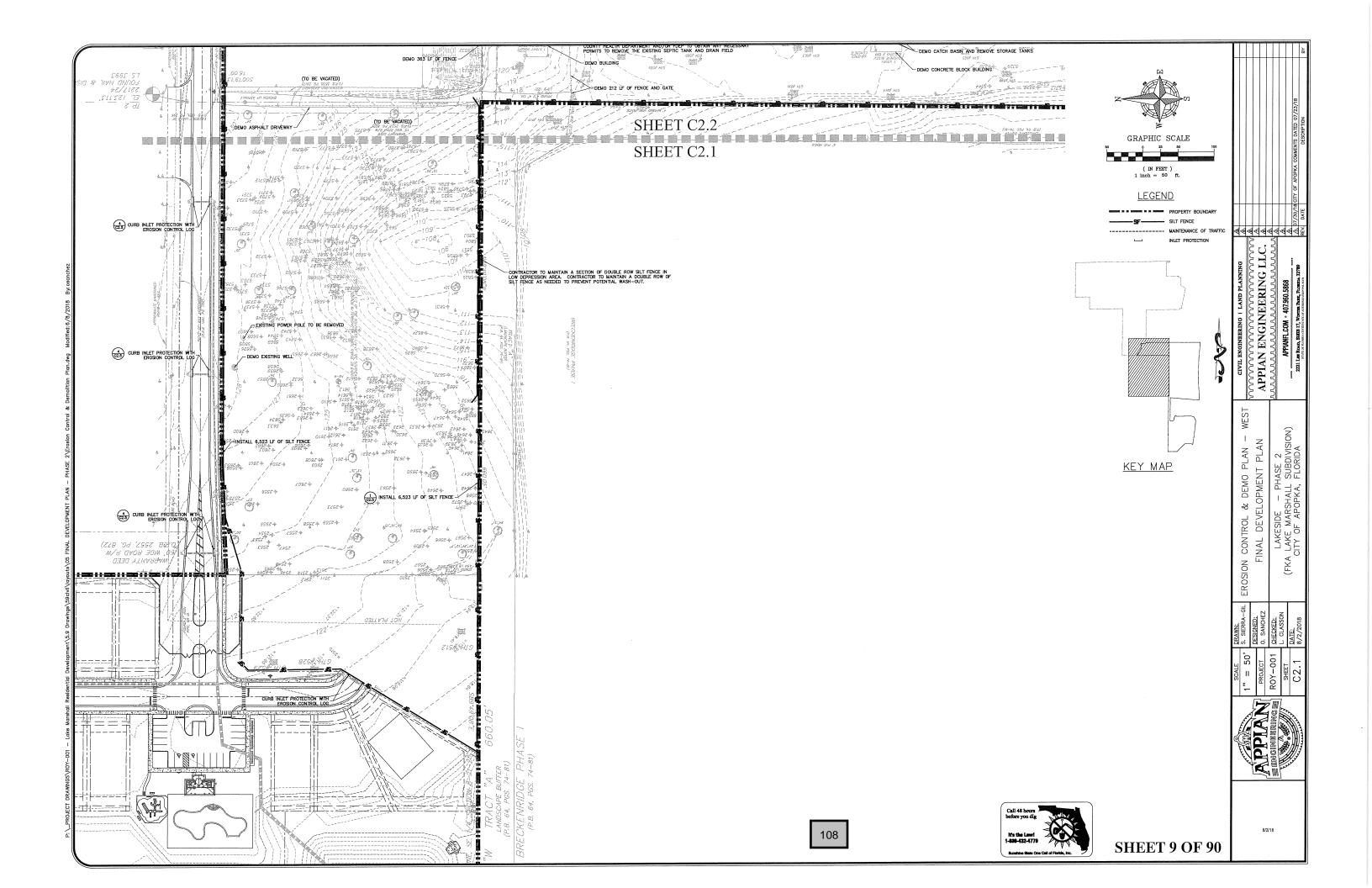


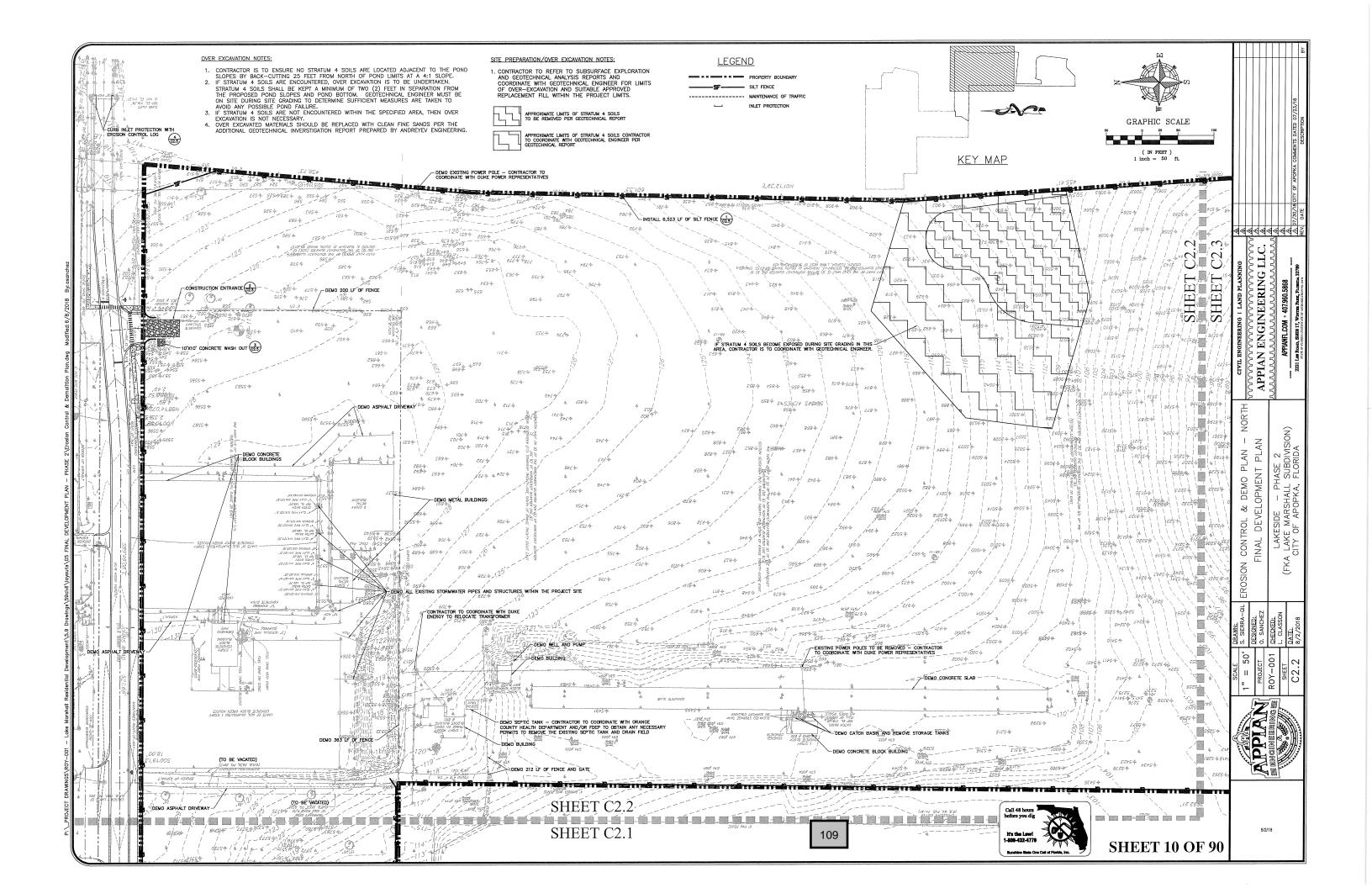


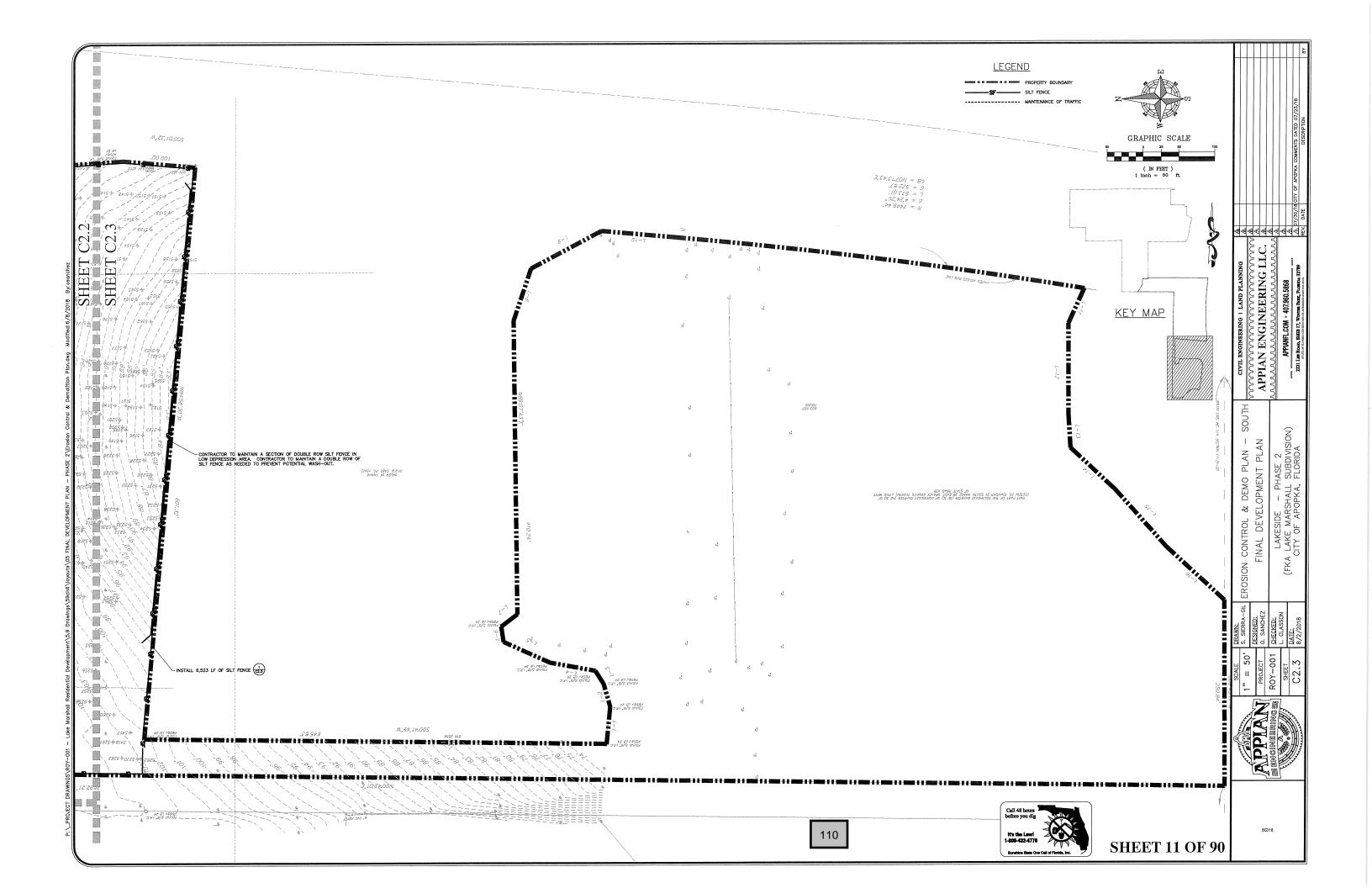


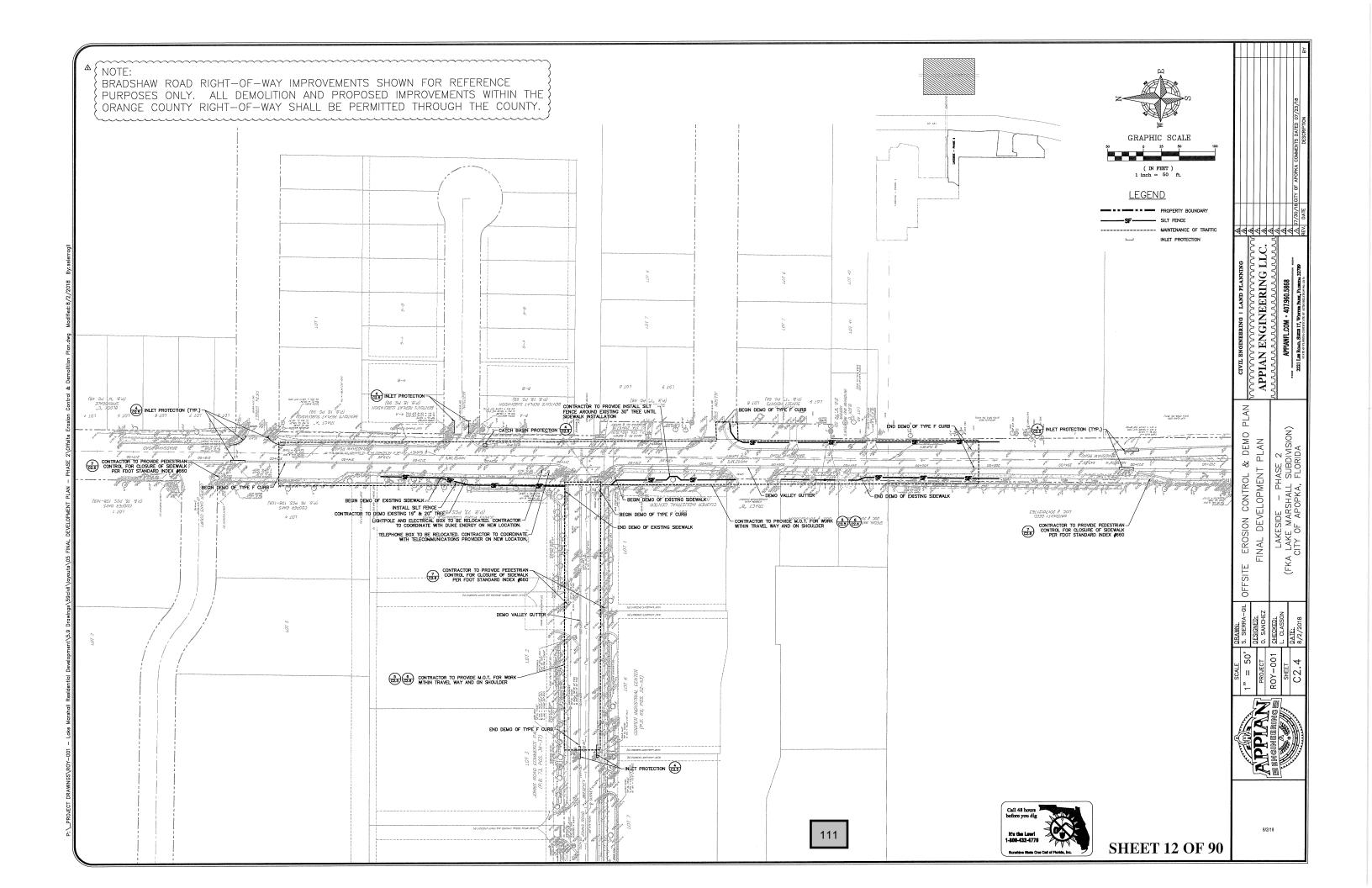


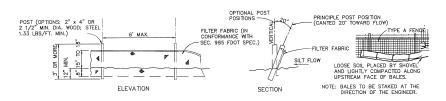






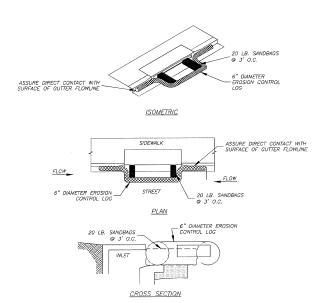






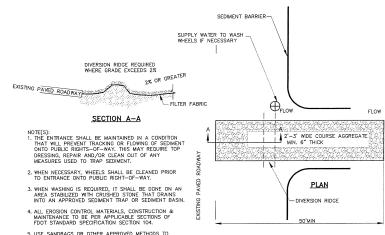
SILT FENCE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED SILT FENCE (LF).





- EROSION CONTROL LOC CONTAINMENT MESH SHALL BE 100% BIODEGRADABLE, PHOTODEGRADABLE OR RECYCLARIE: AND FILL MATERIAL SHALL CONSIST OF MULCH, ASPEN EXCELSIOR FIBERS, CHIPPED SITE VEDETATION, COCCOUNT FIBERS, 100% RECYCLABLE FIBERS, OR ANY OTHER ACCEPTABLE MATERIAL EXCLUDING STRAW AND HAY.
- 2. DAILY INSPECTION SHALL BE MADE BY THE CONTRACTOR AND SILT ACCUMULATION MUST BE REMOVED WHEN DEPTH REACHES 2".
- 4. INLET PROTECTIONS SHALL BE REMOVED AS SOON AS THE SOURCE OF SEDIMENT IS STABILIZED.

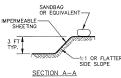




2 TEMPORARY CONSTRUCTION ENTRANCE DETAIL

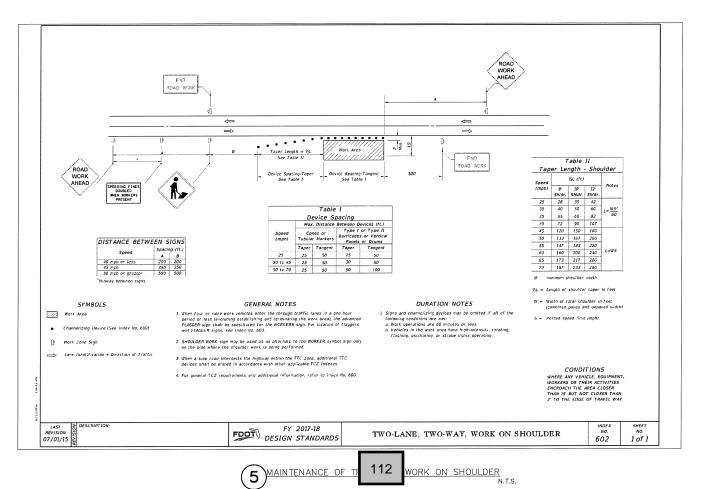
COURSE AGGREGATE & FILTER FABRIC TO BE PER SECTIONS OF FDOT STANDARD SPECIFICATION SECTION 901 & 985 RESPECTIVELY.

PLAN



EXCAVATED WASHOUT STRUCTURE







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APPIAN ENGINEERING

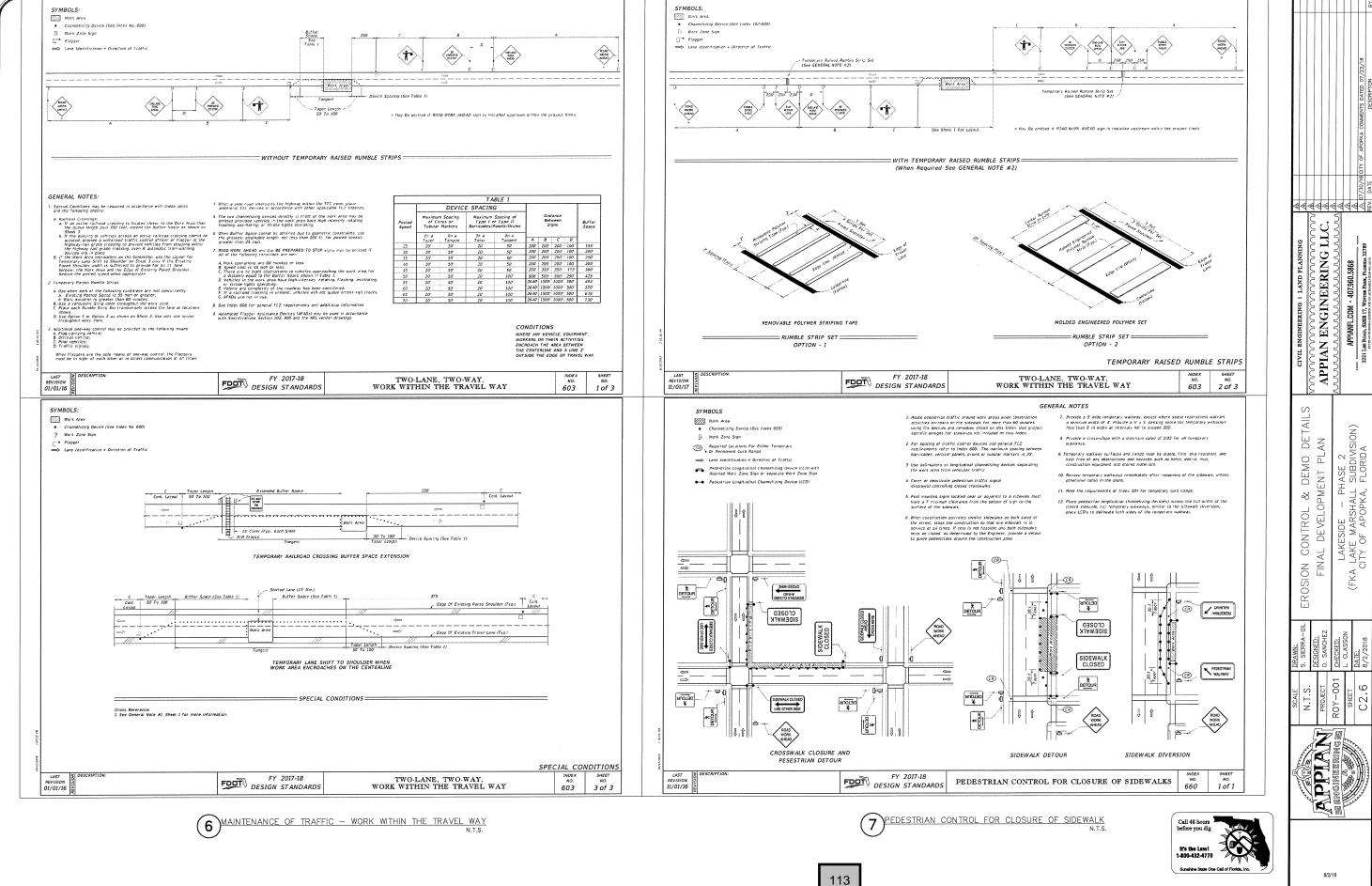
EROSION CONTROL & DEMO DETENDED FINAL DEVELOPMENT PLAN

PPLANCE

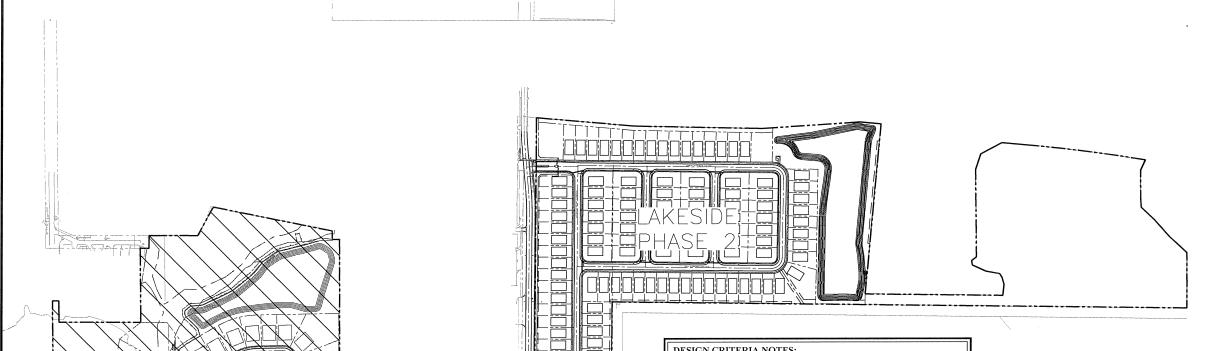
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SHEET 13 OF 90



SHEET 14 OF 90





GRAPHIC SCALE (IN FEET)

> **LEGEND** ___ LOT LINES --- EASEMENTS

1 inch = 200 ft.

----- SETBACKS ____x___ FENCE

--- PHASING LINE

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APPIAN I

PLAN

'HASING PLAN . DEVELOPMENT P

FINAL

(FKA LAKE MARSHALL SUBDIVISION) CITY OF APOPKA, FLORIDA

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8/2/18

PHASE 1

DESIGN CRITERIA NOTES:

MAXIMUM ALLOWED GROSS DENSITY:

PROPOSED GROSS DENSITY (124 DU/154.18 AC)*: 0.80 DU/AC 3.36 DU/AC PROPOSED NET DENSITY (124 DU/36.95 AC)**:

SCHOOL AGE CHILDREN:

ELEMENTARY (124 DU * 0.191 CHILD/DU) MIDDLE (124 DU * 0.095 CHILD/DU) 12 CHILDREN

HIGH (124 DU * 0.131 CHILD/DU) 17 CHILDREN 53 SCHOOL AGE CHILDREN TOTAL

5.00 DU/AC

WATER SERVICE PROVIDED BY CITY OF APOPKA.

RECLAIMED WATER SERVICE PROVIDED BY CITY OF APOPKA.

SERVICE DEMANDS:

WATER (124 DU * 300 GPD/DU) 37,200 GPD

SEWER (124 DU * 300 GPD/DU) 37,200 GPD TRAFFIC (301 DU * 9.6 TRIPS/DU)*** 2,890 TRIPS

BASED UPON THE TRAFFIC IMPACT ANALYSIS, A 260-FOOT NORTHBOUND LEFT-TURN LANE IS REQUIRED AT THE JOHNS ROAD AND BRADSHAW INTERSECTION WHEN THE PROJECT REACHES 50% OF ITS PHASE 1 DEVELOPMENT PROGRAM, OR PRIOR TO THE COMPLETION OF THE 87TH RESIDENTIAL UNIT IN THE COMMUNITY.

FIRE PROTECTION WILL BE PROVIDED AND DESIGNED TO MEET CITY OF APOPKA AND NFPA REQUIREMENTS.

STORMWATER SYSTEM WILL BE PROVIDED AND DESIGNED TO MEET THIS MASTER PLAN'S AND SJRWMD DRAINAGE REQUIREMENTS.

ALL UTILITY LINES SHALL BE DESIGNED TO MEET CITY OF APOPKA CODE.

UTILITY EASEMENTS DEDICATED TO CITY OF APOPKA SHALL BE PROVIDED OVER ALL WATER ANI SEWER MAINS LOCATED OUTSIDE THE PUBLIC RIGHT OF WAY.

AN HOA SHALL BE CREATED TO PROVIDE FOR THE MANAGEMENT OF ALL COMMON AREAS AND FACILITIES. PROJECT SIGNAGE SHALL COMPLY WITH CITY OF APOPKA LAND DEVELOPMENT CODE SECTION 8,04.08.

PROJECT LANDSCAPING/IRRIGATION SHALL COMPLY WITH THE CITY OF APOPKA LAND DEVELOPMENT CODE SECTION SOI. LANDSCAPING AND IRRIGATION PLAN SHALL COMPLY WITH CITY OF APOPKA WATER WISE ORDINANCE 2669.

THE DEVELOPER SHALL PROVIDE LIGHTING FOR THE PROJECT THAT MEETS CITY OF APOPKA DEVELOPMENT DESIGN GUIDELINES SECTION 4.99. LIGHTING SHALL BE PROVIDED FOR ALL STREETS, DRIVEWAYS, SIDEWALKS, BIKEWAYS AND OTHER COMMON AREAS, INCLUDING LIGHTIN AT ENTRANCES TO THESE FACILITIES. REFER TO SHEET CS.10 FOR THE LIGHTING PLAN.

- * OVERALL PROJECT AREA = 154.18 ACRES. SEE SHEET C3.1. ** OVERALL LIMITS OF PHASE 2 PROJECT IMPROVEMENTS = 36.95 ACRES. SEE SHEET C3.1.
- *** INCLUDES PHASE 1 AND PHASE 2 TRAFFIC. REFER TO TRAFFIC IMPACT ANALYSIS FOR DETAILS.

CITY DEVELOPMENT DESIGN NOTES:

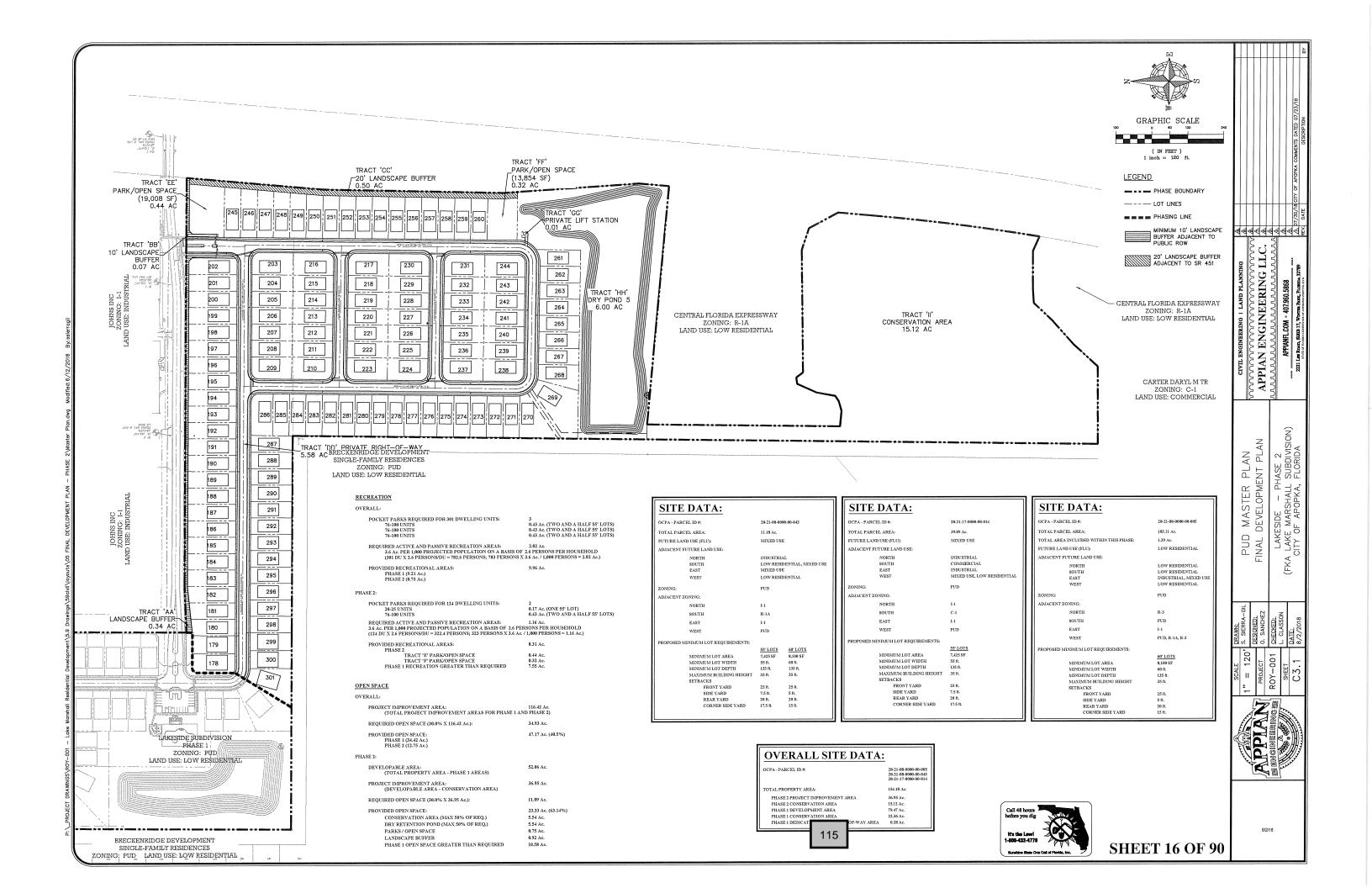
- PER CITY OF APOPKA LAND DEVELOPMENT CODE ARTICLE VI SEC. 6.01.00 B.3 THE DEVELOPMENT IS REQUIRED TO HAVE A PROPERTY OWNERS ASSOCIATION, CONVEYED IN FEE SIMPLE OWNERSHIP, FOR LAND EXCLUSIVE OF INDIVIDUAL LOTS.
- 2. PER CITY OF APOPKA LAND DEVELOPMENT CODE ARTICLE VIII SEC. 8.04.15 ONE RESIDENTIAL SUBDIVISION ENTRANCE SIGN IN ACCORDANCE WITH SUBDIMSION PLAN APPROVAL ON EACH SIDE OF ENTRANCE OR ONE IN MEDIAN. THE SIGN SHALL BE A WALL SIGN OR MONUMENT SIGN. AN AREA FOR THE SIGN SHALL BE PLANNED WITHIN THE DEVELOPMENT PLAN AND SUCH AREA SHALL NOT TRUNCATE THE CORNER OF A RESIDENTIAL LOT. DETAILS OF ENTRANCE SIGN SHALL BE PROVIDED AT FINAL
- 3. PER CITY OF APOPKA LAND DEVELOPMENT CODE ARTICLE V SEC. 5.01.08 REQUIRED LANDSCAPING
 (G) BUFFERYARDS ADJACENT TO RIGHT—OF—WAY, WITHIN BUFFER YARDS THAT ARE ADJACENT TO
 RIGHT—OF—WAYS, ONE CANOPY TREE MUST BE PROVIDED AT INTERVALS AND IN A FASHION DESCRIBED IN
 SECTION 5.01.01.B ALONG WITH A CONTINUOUS HEDGEROW WITH THE HEDGES 24 INCHES HIGH AND
 SPACED 36 INCHES APART.
- 4. PER CITY OF APOPKA LAND DEVELOPMENT CODE ARTICLE VI SEC. 6.05.00 B.3 THE CITY OF APOPKA DESIGN BASIS FOR STORMATER MANAGEMENT SYSTEM IS THE 25 YEAR/24 HOUR STORM EVENT. ALL FINISHED FLOOR ELEVATIONS SHALL BE CONSTRUCTED AT AN ELEVATION NO LESS THAN TWENTY INCHES (20") ABOVE THE 100 YEAR STORM ELEVATION.
- 5. PER CITY OF APOPKA LAND DEVELOPMENT CODE ARTICLE VI SEC 6.05.00 B.7 ALL RETENTION/DETENTION PONDS SHALL BE DESIGNED AS DRY BOTTOM PONDS WITH A MINIMUM BOTTOM ELEVATION OF THREE FEET (3') ABOVE THE ESTIMATED SEASONAL HIGH WATER TABLE.
- 6. PER CITY OF APOPKA LAND DEVELOPEMNT CODE ARTICLE VI SEC 6.05.00 D.5 ALL PONDS SHALL HAVE ONE FOOT (1') OF FREEBOARD TO THE DESIGN HIGH WATER RESULTING FROM THE DESIGN STORM.
- THE FINAL DRAINAGE DESIGN WILL CONFORM TO THE DESIGN STANDARDS SET FORTH IN THE MASTER PLAN AND SJRWMD REQUIREMENTS.
- 8. RESIDENTIAL ARCHITECTURE SHALL MEET THE INTENT OF THE DEVELOPMENT DESIGN GUIDELINES BY THE CITY OF APOPKA CODE OF ORDINANCES.

LA	AKESIDE SUBDIVISION	DEVELOPMENT PROGRA	АМ
	PHASE 1	PHASE 2	OVERALL
TOTAL AREA	114.29 AC	154.18 AC	154.18 AC
TOTAL DEVELOPABLE AREA	102.12 AC	52.06 AC	154.18 AC
TOTAL IMPROVEMENT AREA	79.47 AC	36.95 AC	116.42 AC
75' X 145' LOTS	33	-	33
60' X 135' LOTS	144	5	149
55' X 135' LOTS	. -	119	119
TOTAL	177	124	301
POCKET PARK	2 (1.07 AC & 1.56 AC)	2 (0.44 AC & 0.32 AC)	3.39 AC
TOTAL OPEN SPACE	34.42 AC (43.3%)	12.75 AC (34.5%)	47.17 AC (40.5%)



SHEET 7 OF 90

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1. LOT CRITERIA

Description	Single-Family Detached 60' Lot	Single-Family Detached 55' Lot
Lot Setbacks (1)		
Front Porch(2)	15'	15'
Front	25'	25'
Rear	20'	20'
Side	5'	7.5'
Side Corner	15'	N/A
Garage	25' ⁽⁵⁾	25' ⁽⁵⁾
Accessory Structure Rear	5'	5'
Lot Dimensions		
Min. Average Lot Area	8,100 SF	7,425 SF
Min. Lot Width	60' ⁽³⁾	55' ⁽⁴⁾
Min. Lot Depth	135'	135'
Max. Lot Coverage	75%	75%
Max. Building Height	35 ² /2 Stories	35'/2 Stories
Min. Living Area	1,600 SF	1,600 SF

- (1) See Sheet C3.6 for depiction of conceptual typical site plans.
- (2) Front porch setback as allowed per City of Apopka Development Design Guidelines 3.2.1. (3) Minimum lot width may be reduced to 40' around curves so long as lot width at the building
- (4) Minimum lot width may be reduced to 35' around curves so long as lot width at the building
- line is 55' mini
- (5) A deviation from the City of Apopka's requirement of a 30' garage setback is hereby

- B. Architectural, Buildings, and Accessory Structures
 Architectural design shall meet the intent of City of Apopka Development Design Guidelines or inless otherwise stated.
- All lots shall have detached single family homes.
- Each individual single-family home shall have a minimum of two (2) bedrooms.

- All lots shall have attached minimum two (2) car garages.
 A deviation from the City of Apopka Development Design Guidelines is hereby requested to allow for side-entry, flush, recessed, and protruding garage styles throughout the Lake Marshall Subdivision.
 Mail delivery for all lots within both phases of the Lake Marshall Subdivision shall occur at mail kiosk with cluster mailbox units. Approval from the Postmaster of the mail kiosks and their location shall be submitted prior to approval of the Final Development Plan.
- 7. AC condenser units & similar equipment placed in the side yard area shall be screened with
- landscaping or opaque fencing.

 Storage sheds or similar storage facilities shall not be allowed.
- 9. Swimming pools shall be allowed on all lots.

- a) Swimming Pools must be in-ground type. Above Ground Pools are prohibited.
 b) Swimming pools and decks are prohibited from projecting beyond the side wall facade.
 10. Screen enclosures over swimming pools and their respective deck area with non-metal or non-vinyl roofs shall be allowed
- Screening shall be dark mesh. Opaque, semi-opaque or clear panels on the walls or roofs are prohibited. 11. Screen enclosures with metal, vinyl, or screen mesh roofs over non-swimming pool decks are

12. Architectural Design Standards:

- Architectural styles shall be determined prior to Final Development Plan approval, and these shall meet the intent of to the City of Apopka's Development Design Guidelines except as noted on these Development Standards. Modification or replacement of the exterior elevations can be approved by the Community Development Director if such changes represent equivalent architectural value. Substantial deviations from architectural rendering must be approved by City Council.
- b) A deviation from the City of Apopka Development Design Guidelines is hereby requested for all 60° lots with 50° wide homes to allow for the garage to cover a maximum of 60% of the length of the front primary façade only in the case a three (3) car garage is selected by the homebuyer.

 c) Front facade materials such as cultured stone veneer, stucco, & fiber cement siding shall be
- utilized to be consistent with the applicable Architectural Style.

 Minimum roof pitch over the main house and garage shall be 5/12. Roof pitch over porches shall
- be a minimum of 4/12.
- to a minimum of 4/12.

 30-year asphalt shingle shall be installed on all roofs. 3-tab shingles are prohibited. Single shingle color shall be used for uniformity throughout the community.

 Aluminum fascia and soffit shall be standard for all houses. Single Fascia and soffit color shall
- be used for uniformity throughout the community.

 Trim around windows and doors shall be painted a different color from the body of the house. Doors may be painted either the same as the trim or separate accent color.
- Payers shall be installed in front yard driveways and lead walks.
- 13. Front Building Entrance Elevation Design Standards:
- Front porches & porticos at grade level.
- rroin potents & pointeds at glade level.

 Identical model plan type shall not be constructed on neighboring lots who share a side yard property boundary line without a different elevation style type.

 Identical exterior paint schemes shall not be applied on neighboring lots who share a side yard
- property boundary line.

 Modification or replacement of the exterior elevations can be approved by the Comm
- Development Director if such changes represent equivalent architectural value. Substantial deviations from architectural rendering must be approved by City Council.

- a) Large expanses of solid wall shall be avoided thru use of windows, wall features, or wall / roof
- Window grid patterns and window banding & trim shall match front elevation windows.

 Identical exterior paint schemes shall not be applied on neighboring lots who share a side yard
- property boundary line
 Modification or replacement of the exterior elevation can be approved by the Community
 Development Director if such changes represent equivalent architectural value. Substantial
 deviations from architectural rendering must be approved by City Council.
- 15. Mail Kiosk Elevation Design Standards:

Plan\Preliminary Development Plan.

City of Apopka Development Design Guid

H. Development Condition Continuity

Development Plan.

I. Signage

J. Lighting

L. Miscellaneous

Tree removal, tree replacement, and landscaping shall comply with Water Wise Ordinance 2069 and shall be consistent with Article V of the City of Apopka Land Development Code. Individual lot arbor/clearing permit is required prior to clearing or grading of any lot or issuance of building permit. Placement of the house shall preserve existing trees to the greatest extent practical. Plot plan for each lot shall illustrate tree locations as presented within the PUD Master

The PUD Development Standards shall be printed within the PUD Master Plan and the Final

Signage shall comply with Article 8 of the City of Apopka Land Development Code and with the

Lighting shall comply with the City of Apopka's City Ordinance No. 2069 and Section 3.10 of the City of Apopka Development Design Guidelines. Street and parking area or pedestrian path light poles shall be decorative type. Details will be provided with the Final Development Plan.

Any existing septic tanks or wells shall be properly abandoned prior to earthwork or construction.

All acreages are subject to change with final engineering and final plat review and approval.

Permits shall be applied for and issued by the appropriate agencies

- a) Elevation shall be compatible with the architectural elevation styles of the homes & mail kiosk lividual Lot Front & Rear Yard Fencing Standards:
- Maximum height of a fence shall be 6'-0" above final grade. When abutting a common area wall, the fence height shall taper to the height of the wall across a horizontal distance no less than 8'-
- b) Rear yard fences shall not project more than five feet (5') beyond rear side wall building corner.

- Water service shall be provided by the City of Apopka. The water system shall be designed to City
- Reclaim water service shall be provided by the City of Apopka. The reclaim water system shall be designed to City standards.
- designed to City standards.

 Stormwater management system shall be designed to comply with the design standards of this Master Plan and the St. Johns River Water Management District.

 A final drainage report and solis report will be submitted with the Final Development Plan.

 Sanitary service shall be provided by the City of Apopka. The sanitary system shall be designed to
- City of Apopka standards. Utility easements shall be dedicated to the City of Aponka.
- nents to be dedicated to the Home Owners' Association unless otherwise required by
- All stormwater and utility pipes may be moved to save existing trees in the right-of-way. Any
- On-site streets are to be constructed per City of Apopka standards.

 Stabilized access roadways and fire hydrants must be in place before building construction may
- begin.

 Solid waste collection and public safety (police and fire) provided by the City of Apopka
- The internal street right-of-way is to be private. Five-foot (5') wide sidewalks are to be constructed adjacent to internal roads throughout the entire project in compliance with the City of Apopka Land Development Code. Sidewalk alignment may be adjusted at final development plan to preserve existing trees.

 Garages shall be accessed from the adjacent public right-of-way at the front of the lot for all lots.

- Power service within the development shall be underground. No overhead service will be allowed. Vehicular, Pedestrian and Accent lighting shall substantially conform the Section 3.10 Lighting of the City of Apopka Development Design Guidelines. Based upon the Lake Marshall Subdivision Phase 1 and Phase 2 total daily trip generation of 2,896 vehicles, the provision of one southbound deceleration lane on Bradshaw Road and one eastbound left turn lane on John's Road at the intersection of John's Road and Bradshaw Road to the east of the daulement as transparent. the development are warranted. These are in addition to the northbound deceleration lane on Bradshaw Road warranted prior to the completion of the 87th residential unit within the entire

D. Recreation and Open Space

- Required project open space shall be a minimum of 30% of the developed site area in accordance
- with City of Apopka LDC Section 2.02.18(D)(19).

 Required project recreation shall be provided at a rate of 3.6 acres per 1,000 population with 2.6 population per dwelling unit.

- All parks and open space within the limits of Phase 1 of the Lake Marshall Subdivision shall be accessible to and account towards required recreation and open space areas for Phase 2 per the Lake Marshall Subdivision Phase 1 Planned Unit Development Master Plan/Preliminary Development
- Tracts E and F will incorporate pedestrian circulation, benches, and open play areas. Specific park site plans and amenities/equipment shall be provided with the Final Development Plan

E. Buffers and Landscaping

- A twenty-foot (20°) densely vegetated/landscaped tract will be provided along the rear of Lots 242-257 and Tracts 'E' and 'F' to provide buffering from the adjacent SR 451 right-of-way. This tract shall be dedicated to and maintained by the H.O.A. The design of this buffer tract shall generally follow the landscape design appearing on sheets LS-02 and LS-04 of the Master Plan/Prel
- A minimum ten-foot (10') wide buffer tract for landscaping will be provided along the rear of lots 175-199 to provide buffering from the Johns Road right-of-way. This tract shall be dedicated to and maintained by the H.O.A. The design of this buffer shall generally follow the landscape design appearing on sheets LS-01, LS-02, LS-04, and LS-05 of the Master Plan/Preliminary Development
- Main access for Phase 2 will be through the Main Entrance located within the Phase 1 limits of the Lake Marshall Subdivision.
- Lake Marshall Subdivision.

 Entrance provided within the Phase 2 limits is to be a secondary, resident-only access, which will also be accessible to Phase 1 of the Lake Marshall Subdivision.

 Entrance feature and community sign details will be provided with the Final Development Plan.
- Final landscape plans for the buffer areas along the proposed main entrance at John's Road will be rovided with the Final Development Plan.

 Tree Planting Conditions. Minimum of three (3) new trees shall be planted per 55' and 60'
- residential lot. The new tress shall be a minimum of three inches (3") DBH at the time of planting and shall count toward the overall number of required tree replacement inches, if any.

 Tree Protection Plan The Final Development Plan shall include tree protection techniques to prevent harm to any trees designate to be preserved or encroachment into protected natural areas, including but not limited to tree barricades, silt fencing or other similar techniques accepted by the City Engineer.

- The Lake Marshall Home Owners' Association will maintain common areas, fences/walls, and ndscaping within the front and corner yards of all lots. The HOA shall also be responsible for maintenance of streets, street lighting, and stormwater collection systems within the right-of-way and drainage easements within the Lake Marshall Subdivision.
- The Final Development Plan shall include the plat document, and the plat shall be in final form.

- There is one wetland area onsite. It is entirely located within the Tract 'I' Conservation Area.
- There are no areas within a FEMA floodplain onsite.

 An erosion control plan will be submitted with the Final Development Plan.

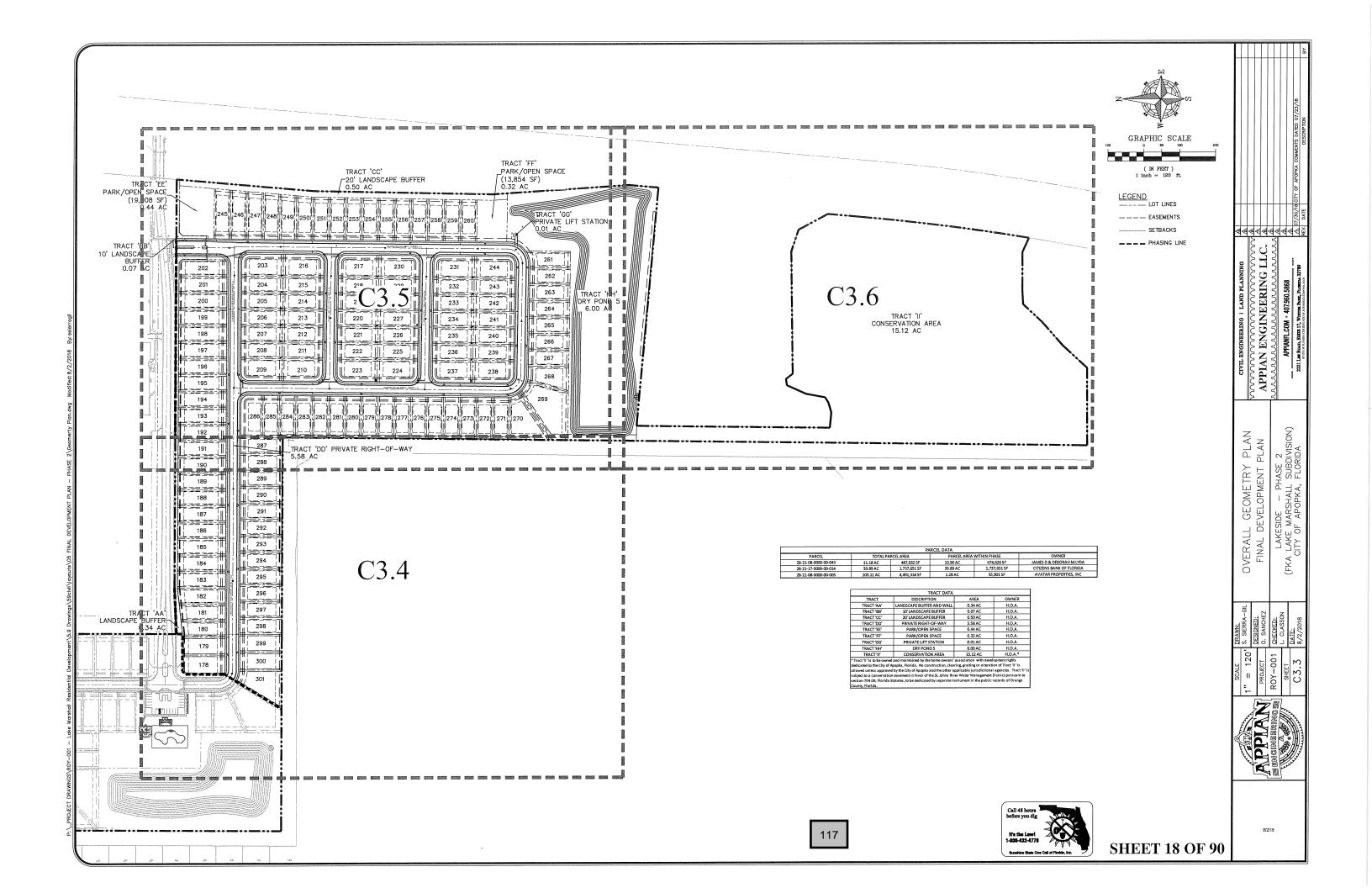
ENGINEERING APPIANFL.COM · 407.960. APPIAN] TANDARDS T PLAN SE 2 JBDIVISION) ORIDA DEVELOPMENT ST, FINAL DEVELOPMENT PUD PPI 8/2/18

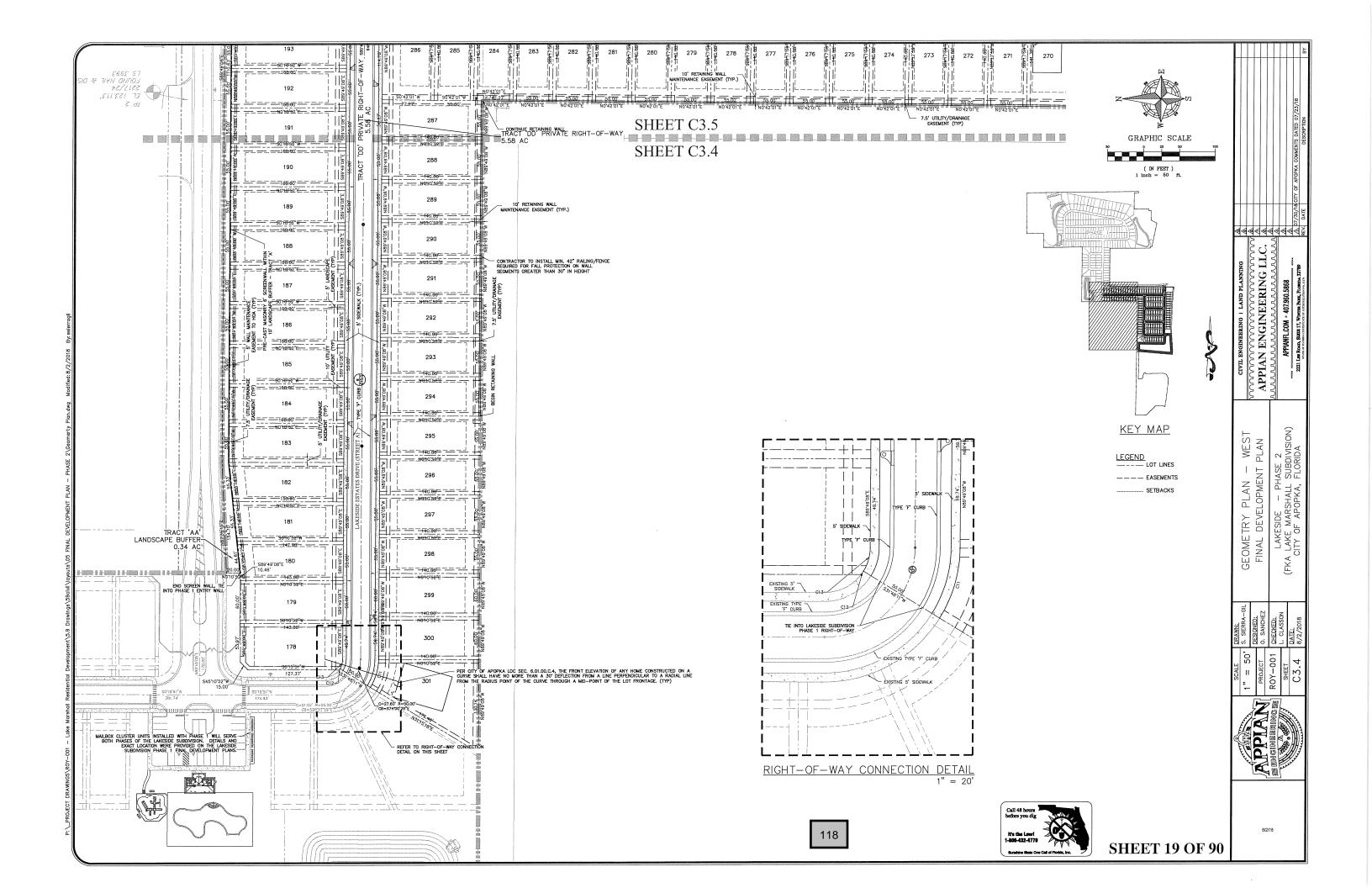
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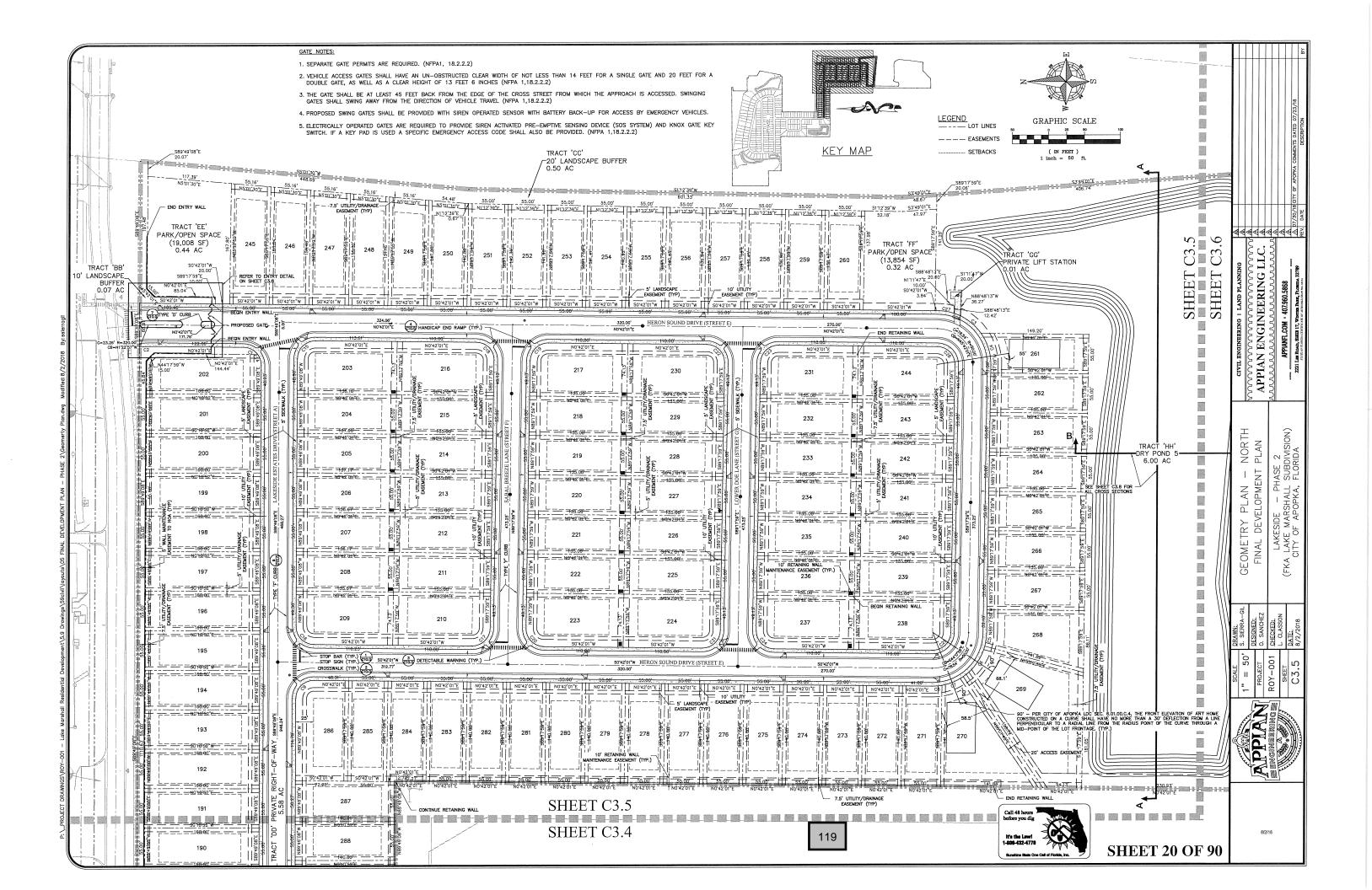
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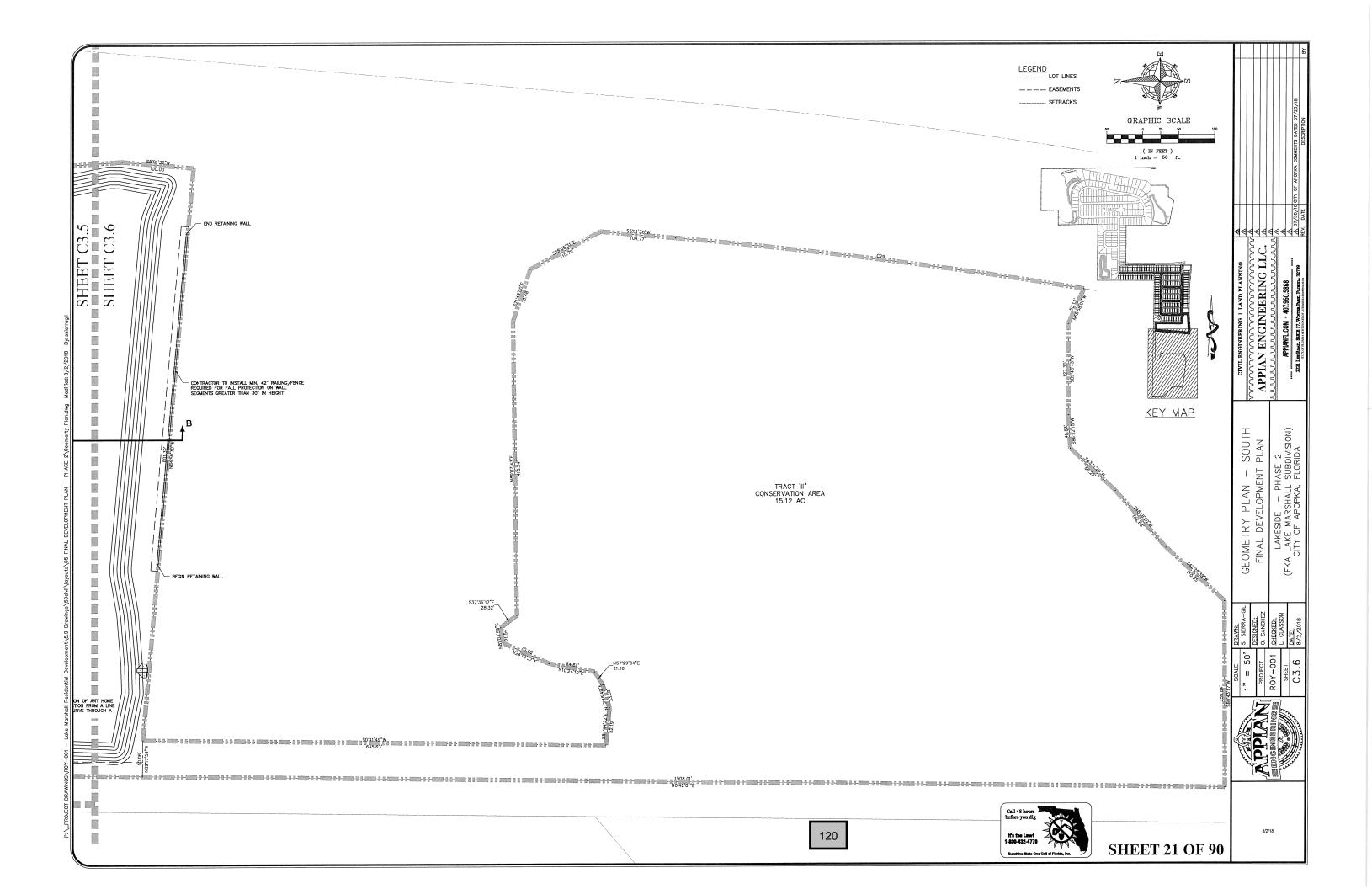
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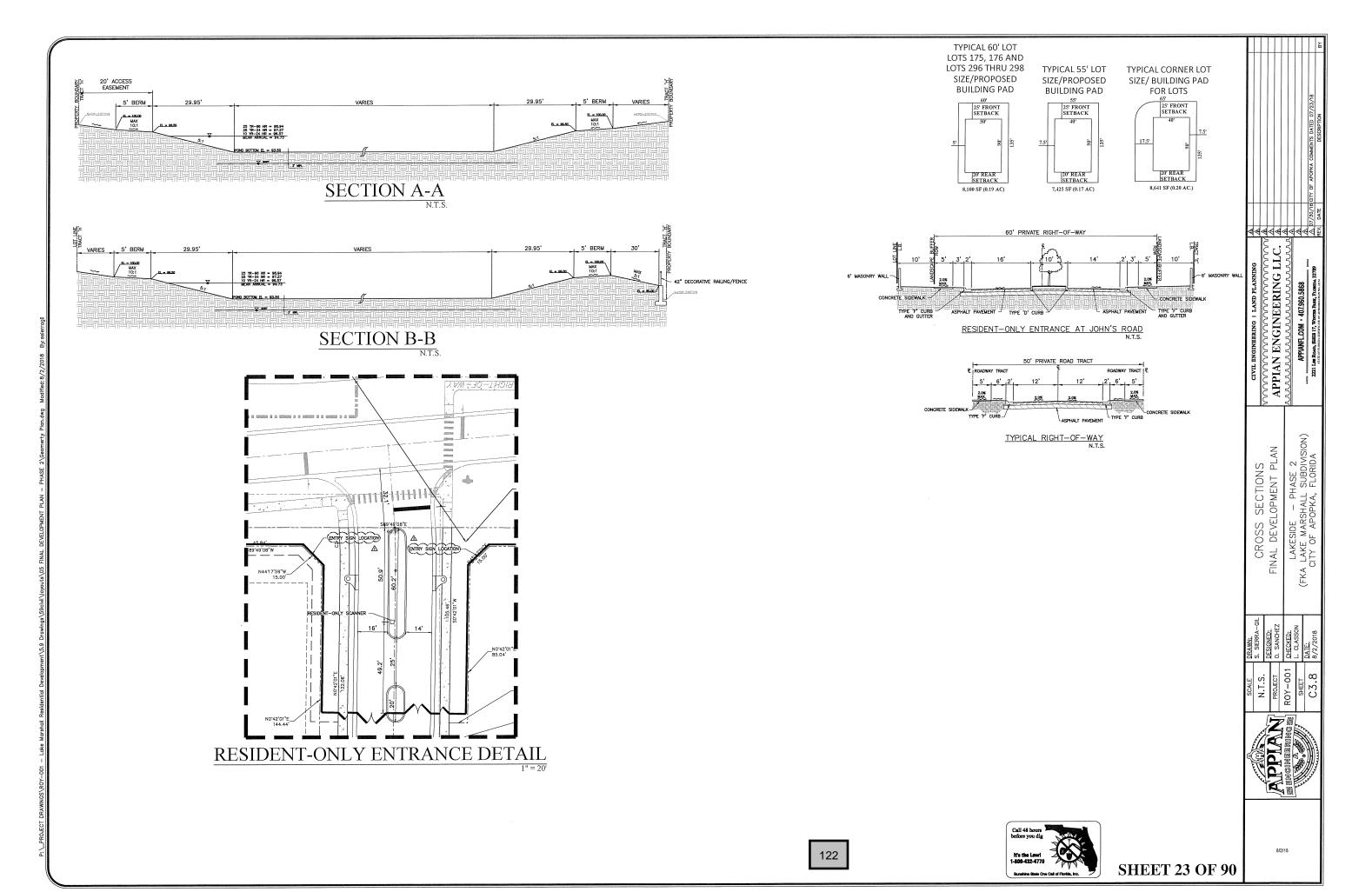
178 179 180 181 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 211	AREA 0.21 AC 0.20 AC 0.18 AC 0.20 AC	5,357 SF 5,750 SF 3,991 SF 4,232 SF 4,474 SF 4,600 SF	65.86 LF 60.00 LF 55.00 LF	PRIVATE
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180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212	0.18 AC 0.19 AC 0.20 AC	3,991 SF 4,232 SF 4,474 SF 4,600 SF	55.00 LF	PRIVATE
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195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212	0.20 AC	4,600 SF	55.00 LF	PRIVATE
196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212		4,600 SF	55.00 LF	PRIVATE
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203 204 205 206 207 208 209 210 211 212	0.20 AC	4,600 SF	55.00 LF	PRIVATE
204 205 206 207 208 209 210 211 212	0.20 AC	4,686 SF	56.09 LF	PRIVATE
205 206 207 208 209 210 211 212	0.23 AC	4,591 SF	88.40 LF	PRIVATE
206 207 208 209 210 211 212	0.17 AC	3,717 SF	55.00 LF	PRIVATE
207 208 209 210 211 212	0.17 AC	3,697 SF	55.00 LF	PRIVATE
208 209 210 211 212	0.17 AC	3,677 SF	55.00 LF	PRIVATE
209 210 211 212	0.17 AC	3,657 SF	55.00 LF	PRIVATE
210 211 212	0.17 AC	3,637 SF	55.00 LF	PRIVATE
211 212	0.23 AC	4,440 SF	88.40 LF	PRIVATE
212	0.23 AC	4,421 SF	88.40 LF	PRIVATE
	0.17 AC	3,600 SF	55.00 LF	PRIVATE
1111	0.17 AC	3,600 SF	55.00 LF 55.00 LF	PRIVATE PRIVATE
213 214	0.17 AC 0.17 AC	3,600 SF 3,600 SF	55.00 LF	PRIVATE
215	0.17 AC	3,600 SF	55.00 LF	PRIVATE
216	0.17 AC 0.23 AC	4,421 SF	88.40 LF	PRIVATE
217	0.23 AC	4,421 SF	88.40 LF	PRIVATE
218	0.17 AC	3,600 SF	55.00 LF	PRIVATE
219	0.17 AC	3,600 SF	55.00 LF	PRIVATE
220	0.17 AC	3,600 SF	55.00 LF	PRIVATE
221	0.17 AC	3,600 SF	55.00 LF	PRIVATE
222	0.17 AC	3,600 SF	55.00 LF	PRIVATE
223	0.23 AC	4,421 SF	88.40 LF	PRIVATE
224	0.23 AC	4,421 SF	88.40 LF	PRIVATE
225	0.17 AC	3,600 SF	55.00 LF	PRIVATE
226	0.17 AC	3,600 SF	55.00 LF	PRIVATE
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229	0.17 AC	3,600 SF	55.00 LF	PRIVATE
230	0.23 AC	4,421 SF	88.40 LF	PRIVATE
231	0.23 AC	4,421 SF	88.40 LF	PRIVATE
232	0.17 AC	3,600 SF	55.00 LF	PRIVATE
233	0.17 AC	3,600 SF	55.00 LF	PRIVATE
234	0.17 AC	3,600 SF	55.00 LF	PRIVATE
235	0.17 AC	3,600 SF	55.00 LF 55.00 LF	PRIVATE PRIVATE
236	0.17 AC 0.23 AC	3,600 SF		PRIVATE
237	U.Z3 AL	4,421 SF	88.40 LF 88.40 LF	PRIVATE
238	0.23 AC	4,421 SF 3,600 SF	55.00 LF	PRIVATE

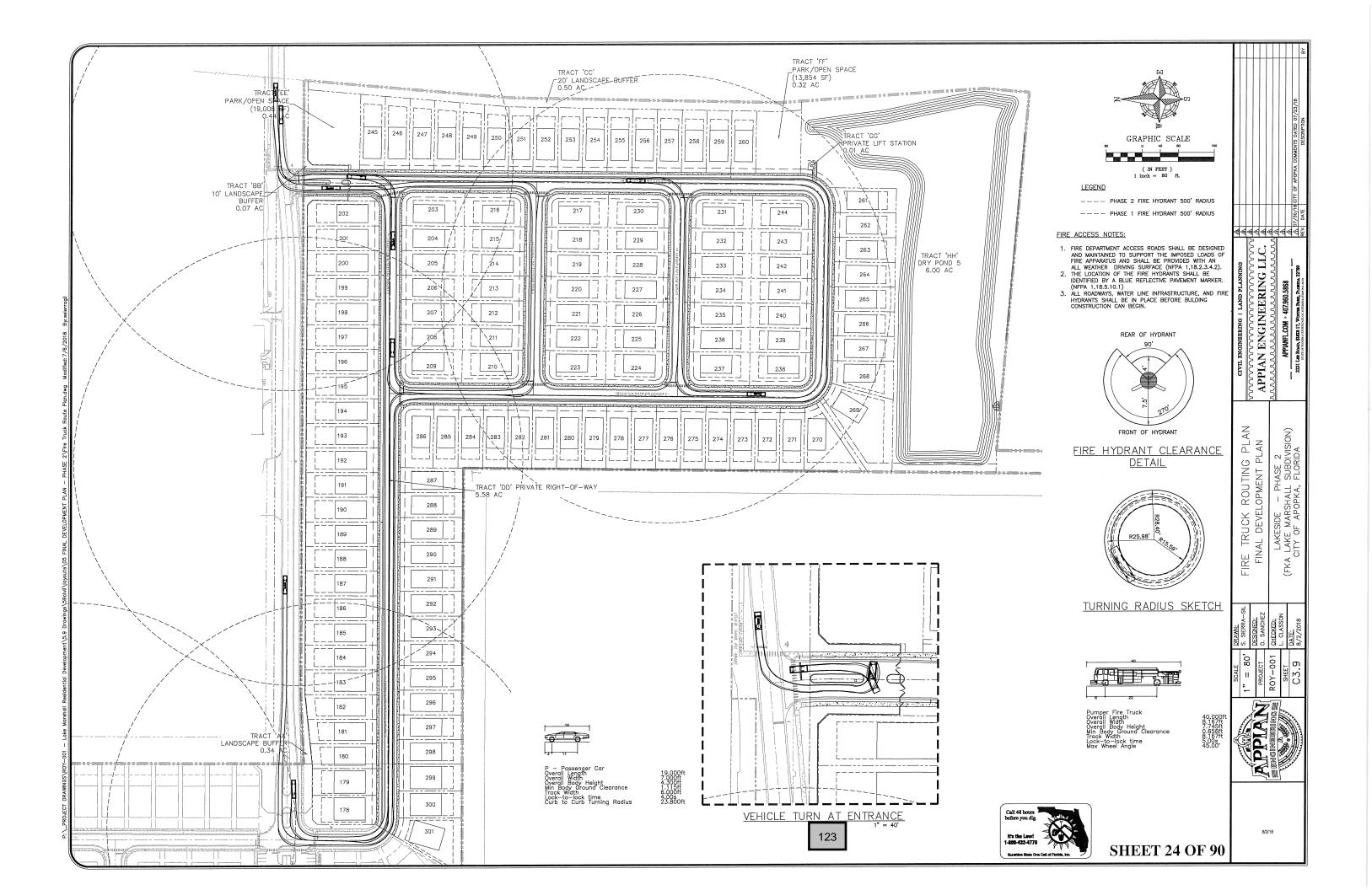
		LOT DATA TABLE		
LOT NUMBER	AREA	*BUILDABLE AREA	LOT FRONTAGE	OWNER
240	0.17 AC	3,600 SF	55.00 LF	PRIVATE
241	0.17 AC	3,600 SF	55.00 LF	PRIVATE
242	0.17 AC	3,600 SF	55.00 LF	PRIVATE
243	0.17 AC	3,600 SF	55.00 LF	PRIVATE
244	0.23 AC	4,421 SF	88.40 LF	PRIVATE
245	0.21 AC	4,826 SF	55.00 LF	PRIVATE
246	0.20 AC	4,660 SF	55.00 LF	PRIVATE
247	0.20 AC	4,494 SF	55.00 LF	PRIVATE
248	0.19 AC	4,327 SF	55.00 LF	PRIVATE
249	0.19 AC	4,161 SF	55.00 LF	PRIVATE
250	0.18 AC	3,994 SF	55.00 LF	PRIVATE
251	0.18 AC	3,906 SF	55.00 LF	PRIVATE
252	0.18 AC	3,886 SF	55.00 LF	PRIVATE
253	0.18 AC	3,866 SF	55.00 LF	PRIVATE
254	0.18 AC	3,847 SF	55.00 LF	PRIVATE
255	0.18 AC	3,827 SF	55.00 LF	PRIVATE
256	0.18 AC	3,807 SF	55.00 LF	PRIVATE
257	0.18 AC	3,788 SF	55.00 LF	PRIVATE
258	0.18 AC	3,768 SF	55.00 LF	PRIVATE
259	0.18 AC	3,749 SF	55.00 LF	PRIVATE
260	0.17 AC	3,729 SF	55.00 LF	PRIVATE
261	0.18 AC	3,682 SF	58.00 LF	PRIVATE
262	0.17 AC	3,600 SF	55.00 LF	PRIVATE
263	0.17 AC	3,600 SF	55.00 LF	PRIVATE
264	0.17 AC	3,600 SF	55.00 LF	PRIVATE
265	0.17 AC	3,600 SF	55.00 LF	PRIVATE
266	0.17 AC	3,600 SF	55.00 LF	PRIVATE
267	0.17 AC	3,600 SF	55.00 LF	PRIVATE
268	0.21 AC	4,878 SF	50.89 LF	PRIVATE
269	0.47 AC	12,696 SF	47.80 LF	PRIVATE
270	0.31 AC	7,508 SF	37.20 LF	PRIVATE
271	0.18 AC	3,800 SF	55.08 LF	PRIVATE
272	0.18 AC	3,800 SF	55.00 LF	PRIVATE
273	0.18 AC	3,800 SF	55.00 LF	PRIVATE PRIVATE
274	0.18 AC	3,800 SF	55.00 LF 55.00 LF	PRIVATE
275	0.18 AC 0.18 AC	3,800 SF 3,800 SF	55.00 LF	PRIVATE
276 277	0.18 AC	3,800 SF	55.00 LF	PRIVATE
278	0.18 AC	3,800 SF	55.00 LF	PRIVATE
279	0.18 AC	3,800 SF	55.00 LF	PRIVATE
280	0.18 AC	3,800 SF	55.00 LF	PRIVATE
281	0.18 AC	3,800 SF	55.00 LF	PRIVATE
282	0.18 AC	3,800 SF	55.00 LF	PRIVATE
283	0.18 AC	3,800 SF	55.00 LF	PRIVATE
284	0.18 AC	3,800 SF	55.00 LF	PRIVATE
285	0.18 AC	3,800 SF	55.00 LF	PRIVATE
286	0.23 AC	3,837 SF	87.81 LF	PRIVATE
287	0.18 AC	3,858 SF	56.27 LF	PRIVATE
288	0.18 AC	3,800 SF	55.00 LF	PRIVATE
289	0.18 AC	3,800 SF	55.00 LF	PRIVATE
290	0.18 AC	3,800 SF	55.00 LF	PRIVATE
291	0.18 AC	3,800 SF	55.00 LF	PRIVATE
292	0.18 AC	3,800 SF	55.00 LF	PRIVATE
293	0.18 AC	3,800 SF	55.00 LF	PRIVATE
294	0.18 AC	3,800 SF	55.00 LF	PRIVATE
295	0.18 AC	3,800 SF	55.00 LF	PRIVATE
296	0.18 AC	3,800 SF	55.00 LF	PRIVATE
297	0.18 AC	3,800 SF	55.00 LF	PRIVATE
298	0.18 AC	3,800 SF	55.00 LF	PRIVATE
299	0.19 AC	4,750 SF	60.00 LF	PRIVATE
300	0.19 AC	4,750 SF	40 121	PRIVATE
301 * DINI DADI E ADEA IS EC	0.29 AC	7,704 SF IINUS THE BUILDINGS SE		PRIVATE
DUILDABLE AKEA IS EC	JUAL TO LOT AKEA IV	IIIVOS TITE DUILDINGS SE	I DACK AREA	

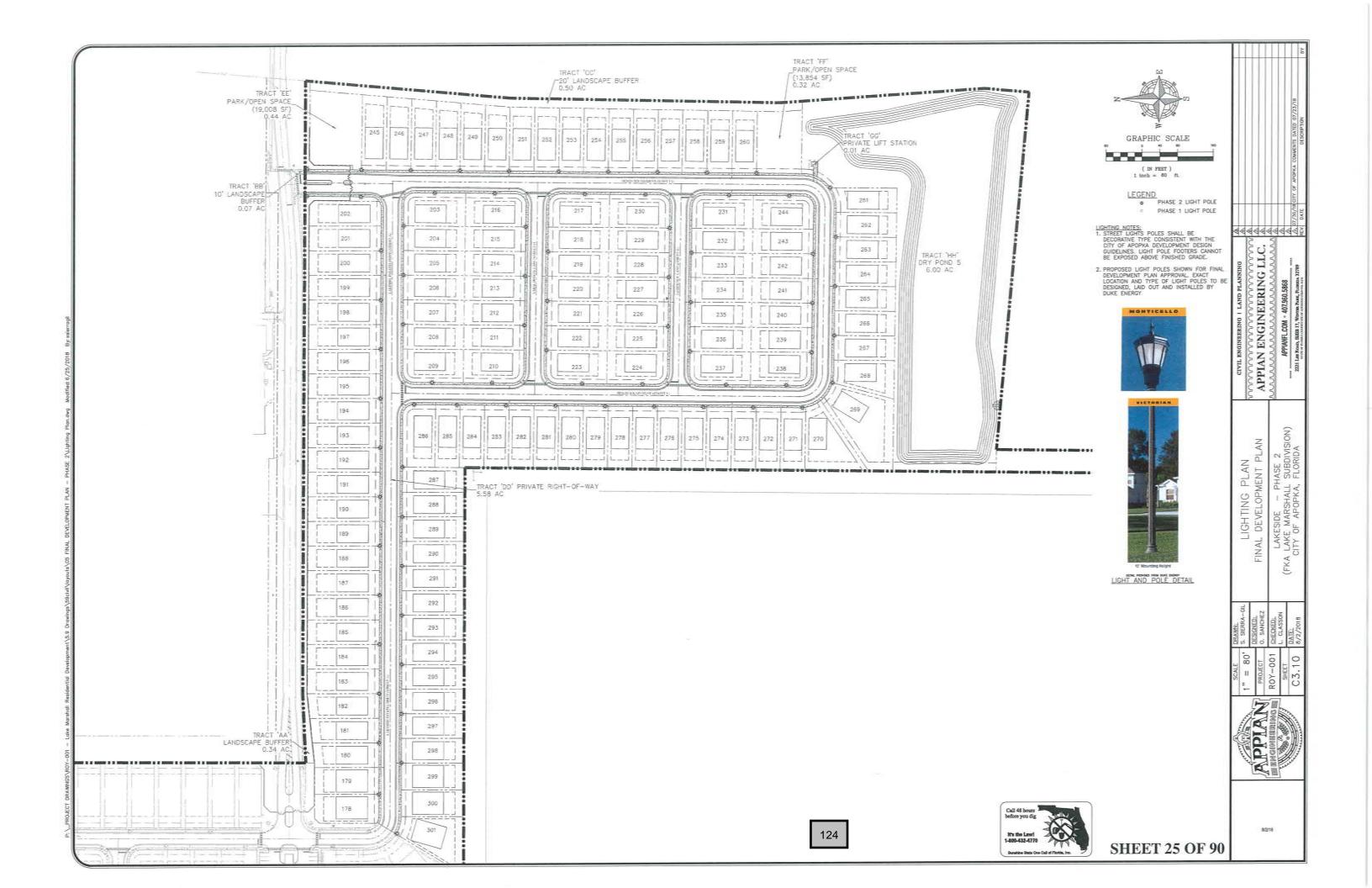
	Curve	e Table	
Curve #	Chord Length	Chord Direction	Radius
C1	22.36'	N27"15'55"E	25.00
C2	23.19'	N1'33'07"W	290.00
C3	118.03'	S40*35'48"W	75.00
C4	46.15'	S72*46'59"W	75.00
C5	18.68'	N82*08'46"W	75.00
C6	47.00'	N56*43'59"W	75.00
C7	36.82'	N2415'50"W	75.00'
C8	14.06'	N4'40'37"W	75.00
C9	35.52'	N44*33'34"W	25.00
C11	40.62	N73'54'29"W	75.00
C12	2.33'	S55*31'53"E	25.00
C13	13.62'	S74*00'29"E	25.00
C14	15.60'	N72'00'21"E	25.00
C15	35.52'	N44*33'34"W	25.00'
C16	35.19'	S45'26'26"W	25.00'
C17	35,36'	S44'17'59"E	25.00'
C18	35.36'	N45*42'01"E	25.00'
C19	35.36'	N4417'59"W	25.00'
C20	35.36'	S45'42'01"W	25.00'
C21	35.36	S4417'59"E	25.00
C22	35.36'	N45'42'01"E	25.00'
C23	35.36'	N44*17'59"W	25.00'
C24	35.36'	S45'42'01"W	25.00'
C25	35.36'	S44'17'59"E	25.00'
C26	35.36'	N45*42'01"E	25.00'
C27	114.37'	N9*25'04"E	75.00'
C28	10.71'	N2213'54"E	75.00'
C29	572.87'	S7'13'43"W	7449.44

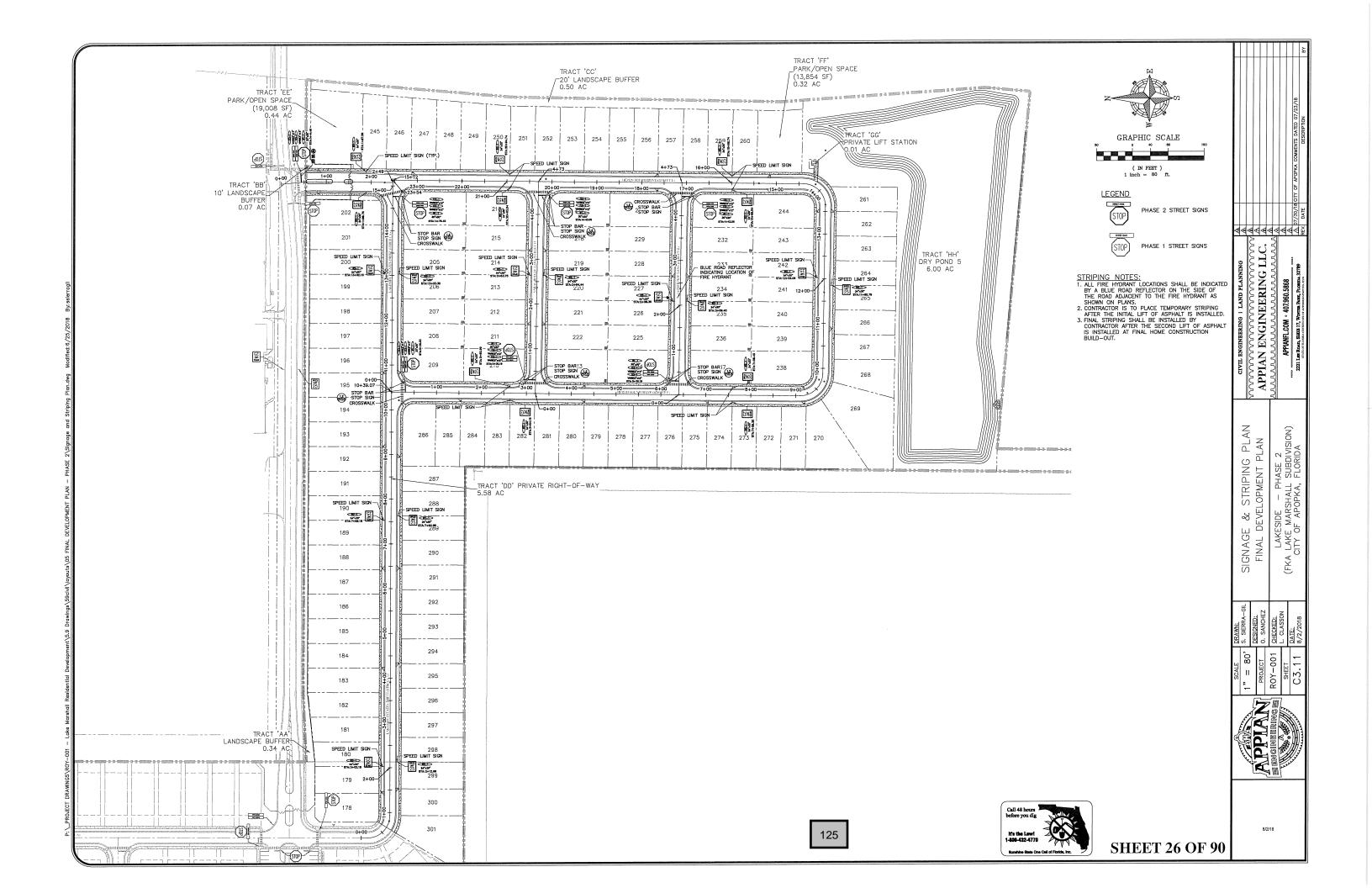
								D7/30/18 CITY OF APOPKA COMMENTS DATED 07/23/18	DESCRIPTION
								07/30/18	REV. DATE
	CIVIL ENGINBERING LAND PLANNING		APPIAN ENGINEERING LLC.	-	W. Cooperation of the cooperatio	APPIANEI COM . AOTOGO 5969	A 1 THE PROPERTY AND SOUTH AND ADDRESS OF THE PARTY AND ADDRESS OF THE	₫	
	CURVE & LOT DATA TABLE	FINAL DEVEL DEMENT OF AN			LAKESIDE – PHASF 2		(TAA LAKE MARSHALL SOBDIVISION)	CITY OF APOPKA, FLORIDA	
DRAWN:	S. SIERRA-GIL	DESIGNED:	0. SANCHEZ	CHECKED:	1000	L. CLASSON	DATE.	8 /2 /2018	0/2/2010
SCALE	V.		PROJECT	ROY-001		SHFFT	1	C3.6	
Ŕ	ELL CONTRACTOR	Y V IOC W			The state of the s	E			Arrest
			8/2	/18				-	

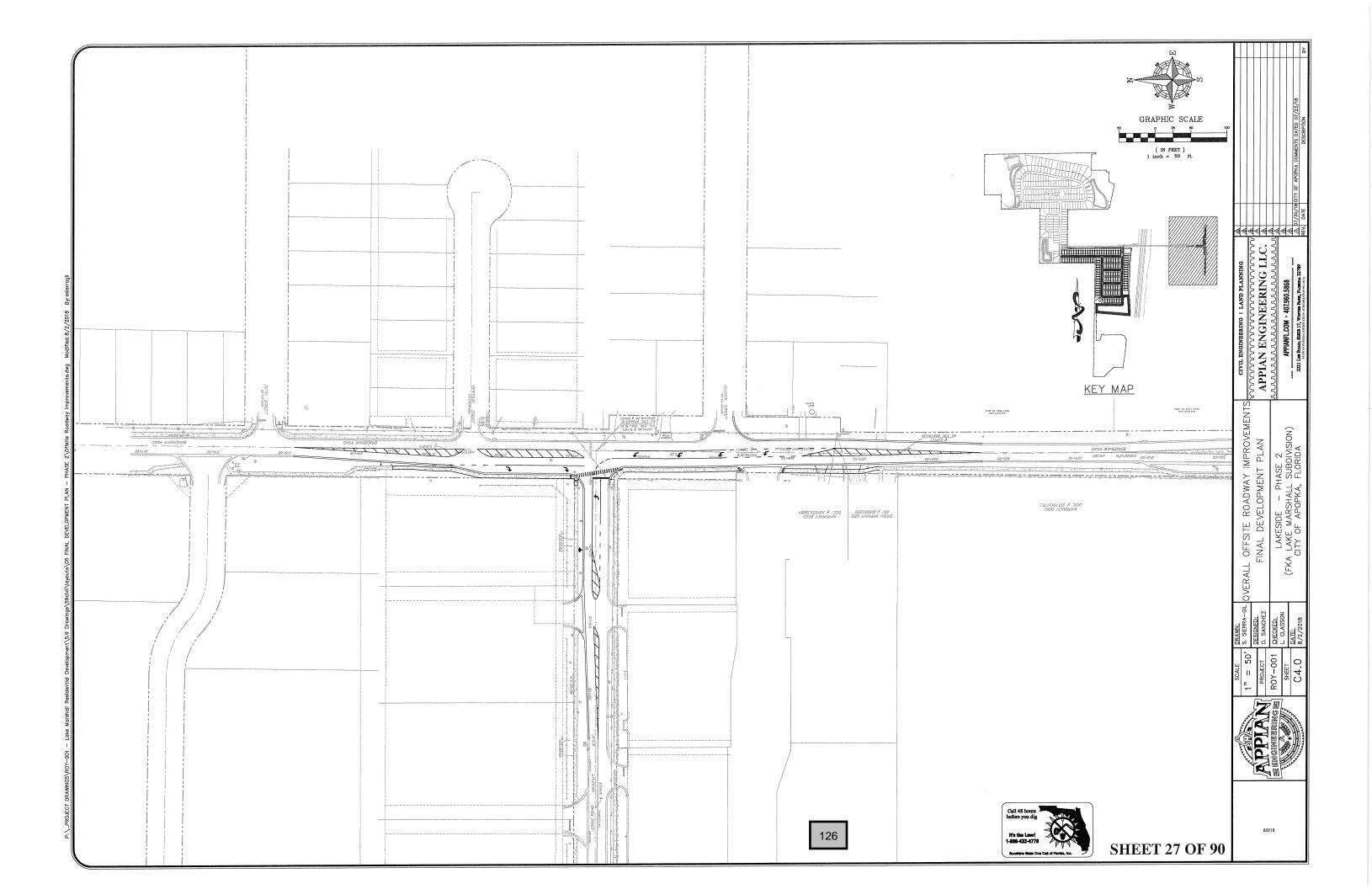


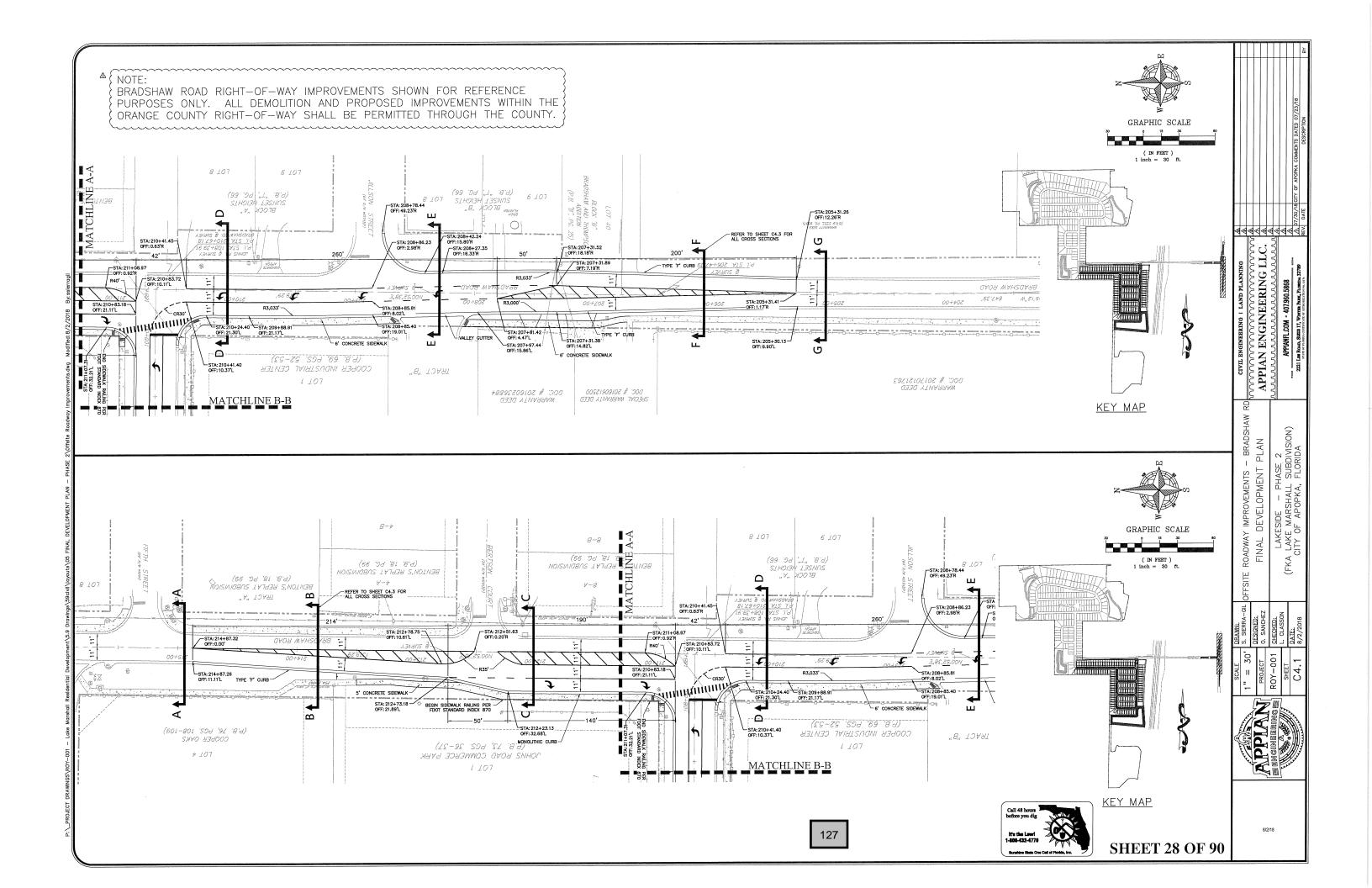


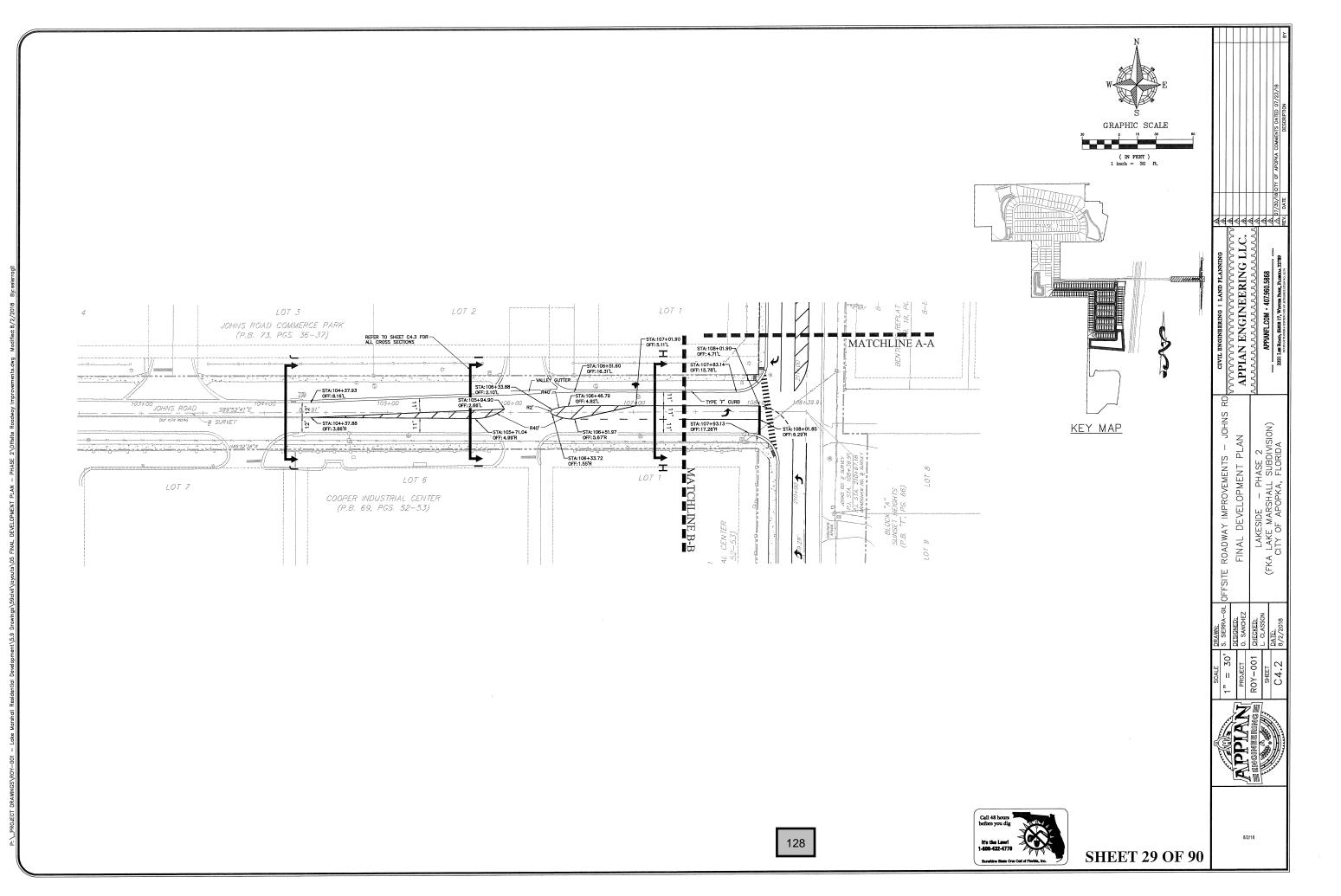


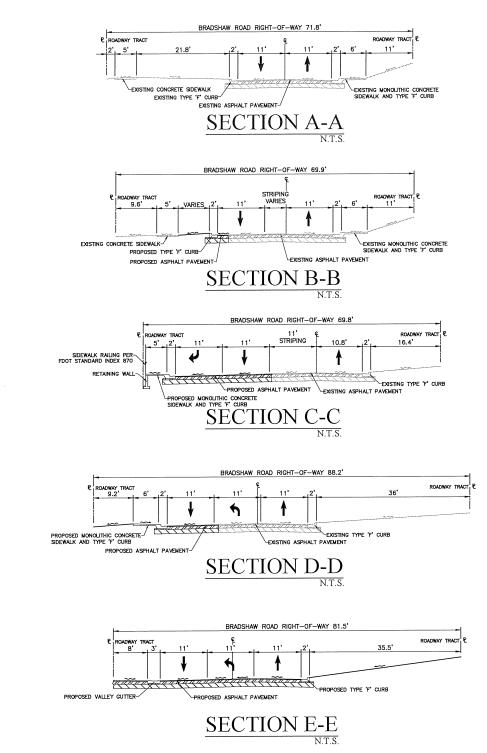


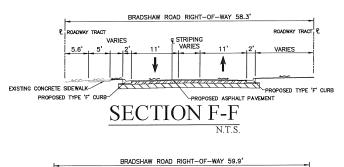


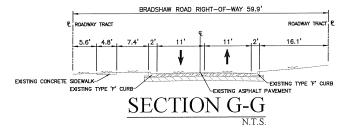


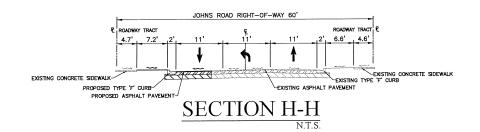


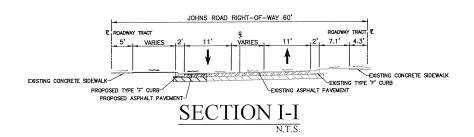


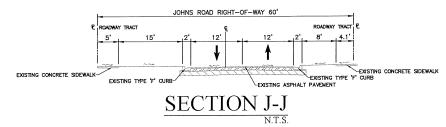








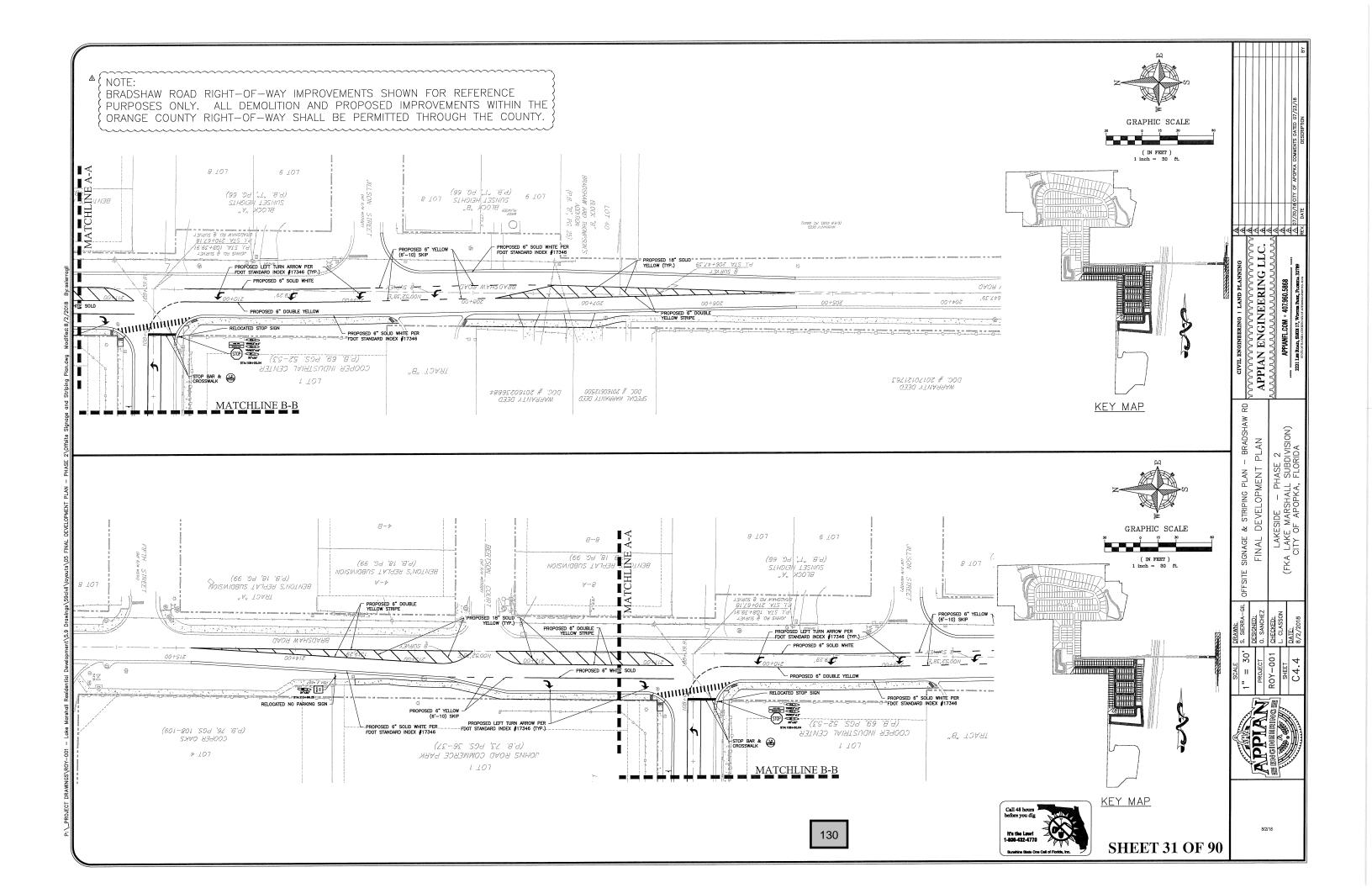


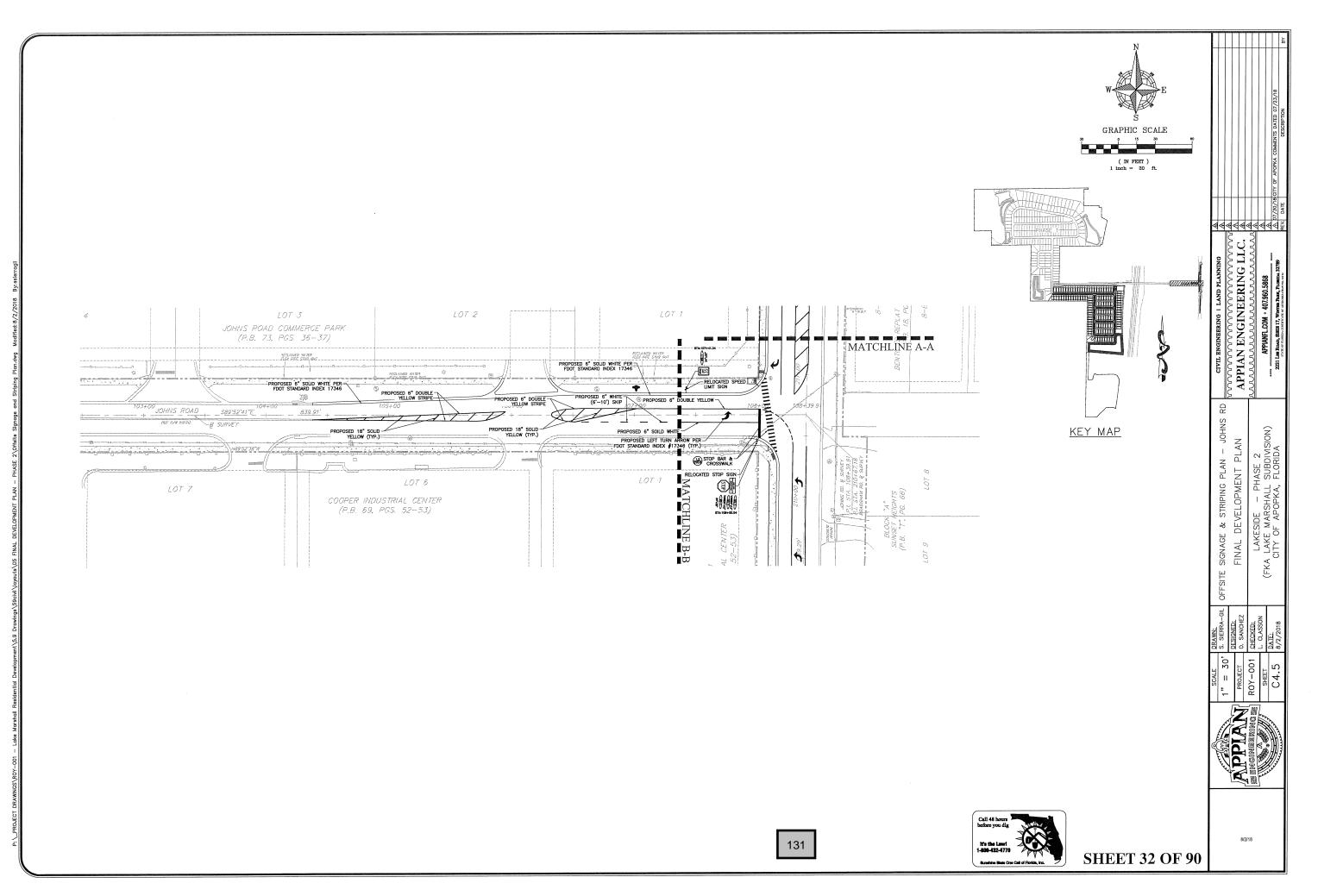


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8/2/18





- 2. ALL WATERMAINS SHALL BE INSTALLED A MINIMUM OF 36" BELOW FINISHED GRADE.
- 3. ALL WATERMAINS AND FIRELINES PIPES SHALL BE RESTRAINED VIA MECHANICAL JOINTS.
- WATER MAIN PVC PIPES LESS THAN 4 INCHES MUST CONFORM TO THE SPECIFICATIONS OF ASTM 1785 (SCHEDULE 40, 80, 120) OR ASTM 2241 SDR21 AND MUST BEAR THE NSF LOGO ON EACH INSTALLED LENGTH.
- UNDERGROUND MARKING TAPE FOR ALL SANITARY FORCEMAINS SHALL BE INSTALLED 4 TO 8 INCHES BELOW THE FINISHED GRADE SUPECE DIRECTLY OVER THE PIPELINE. MARKER TAPE SHALL BE MADE OF AN INERT POLYETHYLENE MATERIAL HAVING A MINIMUM THICKNESS OF 4 MILS AND BE COLOR CODED "SAFETY GREEN".
- CONTRACTOR SHALL CONDUCT AND PROVIDE RESULTS IMMEDIATELY TO THE ENGINEER OF RECORD FOR PRESSURE AND LEAKAGE TESTS ON THE FORCE MAIN TRUNK LINE ONCE THE PRESSURE SEMER HAS BEEN INSTALLED AND PARTLY BACKFILLED. FINAL BACKFILL AND COMPACTION SHALL NOT COMMENCE UNTIL APPROVIDED BY THE ENGINEER OF RECORD.
- FOLLOWING SATISFACTORY PRESSURE TEST RESULTS, THE CONTRACTOR SHALL DISINFECT ALL SECTIONS OF THE WATER DISTRIBUTION SYSTEM, AND RECEIVE APPROVAL THEREOF FROM APPROPRIATE AGENCIES PRIOR TO PLACING THE SYSTEM INTO SERVICE.
- 8. FIRE HYDRANTS SHALL BE PLACED A MINIMUM OF 3 FT. AND A MAXIMUM OF 5 FT. FROM THE CURB OR PAVED ROAD SURFACE UNLESS OTHERWISE APPROVED. NO FENCE, TREE, POST, SHRUB, OR OTHER OBJECT WHICH COULD BLOCK THE HYDRANT FROM NORMAL VIEW OR OBSTRUCT THE HYDRANTS USE SHALL BE LOCATED WITHIN FOUR (4) FEET OF THE HYDRANT. THE FOUR-AND-ONE-HALF INCH (4-1/2") LARGE VOLUME CONNECTION SHALL FACE THE NEAREST ROADWAY. THE CENTER OF THE STEAMER PORT SHALL BE 18 INCHES MINIMUM AND 24 INCHES MAXIMUM ABOVE FINISHED GRADE.
- ALL FIRE HYDRANT LEADS SHALL HAVE AN INSIDE DIAMETER OF AT LEAST SIX INCHES AND INCLUDE AUXILIARY VALVES.
- WHEN NECESSARY, DEWATERING SHALL BE PROVIDED TO KEEP THE GROUNDWATER ELEVATION A MINIMUM OF 6 INCHES BELOW MAIN BEING LAID.
- 11. ALL UTILITIES SHALL BE LAID ON A FIRM FOUNDATION WITH ALL UNSUITABLE MATERIAL (MUCK, ROCK, COOUINA, ETC.) REMOVED AND REPLACED WITH CLEAN GRANULAR MATERIAL.
- TRENCHES SHALL BE BACKFILLED WITH MATERIAL ACCEPTABLE TO THE UTILITY PROVIDER WITH A MINIMUM COMPACTION OF 98% IN PAVED AREAS AND 95% IN UNPAVED AREAS IN ACCORDANCE WITH AASHTO T-180 MODIFIED PROCTOR TEST.
- IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT TRENCH COMPACTION TESTS BE PROVIDED AT POINTS 12 INCHES ABOVE THE PIPE AND AT 12 INCHES VERTICAL INTERVALS TO FINISH GRADE, AT A MINIMUM SPACING OF EVERY 300 FEET.
- 14. ALL WATER SERVICE ENDINGS SHALL BE MARKED WITH A 2" X 4" LIMBER (PRESSURE TREATED) FXTENDING 4
- ALL WATER VALVES, INCLUDING CONCRETE COLLAR (MITH DEBRIS CAP), SHALL BE ADJUSTED TO FINISHED GRADE AND THE VALVE BOX LID, PAINTED BLUE TO MAKE THEM PLAINLY MISBLE.
- UPON FINAL ACCEPTANCE OF NEW WATER SYSTEMS, WATER VALVES SHALL BE COMPLETELY OPENED BY PUBLIC UTILITIES PERSONNEL AT NO TIME SHALL CONTRACTOR OPERATE ANY EXISTING VALVES WITHOUT CITY OF APOPKA INSPECTOR PRESENT.
- 17. ALL WATER MAINS SHALL BE NSF-APPROVED FOR POTABLE WATER USE.
- 18. PIPE USED IN WATER DISTRIBUTION SYSTEMS SHALL BE EITHER POLYVINYL CHLORIDE (PVC), OR DUCTILE IRON PIPE (DIP).

(a) ALL <u>PVC PIPE</u> OF NOMINAL DIAMETER FOUR (4) INCHES THROUGH TWELVE (12) INCHES SHALL BE MANUFACTURED IN ACCORDANCE WITH AWWA STANDARD C900, LATEST EDITION. THE PVC PIPE SHALL HAVE A MINIMUM WORKING PRESSURE RATING OF 150PSI AND SHALL HAVE A DIMENSION RATIO (DR) OF 18. (b) ALL <u>DUCTILE IRON PIPE</u> SHALL BE MANUFACTURED IN ACCORDANCE WITH ANSI/AWWA A21.51/C151 AND HAVE A MINIMUM 350 PRESSURE CLASS RATING

19. PIPE USED IN GRAVITY SEWER CONSTRUCTION SHALL BE POLYMNYL CHLORIDE (PVC) OR DUCTILE IRON PIPE (DIP). WHERE REFERENCE IS MADE TO AN ASTM, ANSI, OR AASHTO DESIGNATION, IT SHALL BE THE LATEST REVISION.

(a) PVC GRAMITY SEMER PIPE (4 INCH - 15 INCH), ASTM D3034, SDR 35 - UNIFORM MINIMUM "PIPE STIFFNESS" AT FIVE (5) PERCENT DEFLECTION SHALL BE 46PSI. THE JOINTS SHALL BE INTEGRAL BELL ELASTOMERIC GASKET JOINTS MANUFACTURED IN ACCORDANCE WITH ASTM D3212 AND ASTM F477. APPLICABLE UNI-BELL PLASTIC PIPE ASSOCIATION STANDARD IS UNI-B-4. ALL PVC PIPE SHALL BEAR THE NSF-OW SEAL AND BE GREEN IN OVERALL COLOR. THE MINIMUM STANDARD LENGTH OF PIPE SHALL BE THITETEN (13) FEET.

(b) DUCTULE IRON PIPE SHALL CONFORM TO ANS/AWMA A21.51/C151, CLASS THICKNESS DESIGNED PER ANS/AWWA A21.50/C150, WITH MECHANICAL OR PUSH ON JOINTS. AN INTERIOR PROTECTIVE LINING OF COAL TAR EPOXY SHALL BE PROVIDED WITH A MINIMUM DBY THICKNESS OF 30 MILS. DUCTULE IRON GRAMITY SEWERS, WHERE REQUIRED BY THE UTILITY PROVIDER BASED ON GEOTECHNICAL INVESTIGATIONS, SHALL BE WRAPPED WITH POLYETHYLENE FILM, AWWA C10S. SEE APPENDIX C. THE MINIMUM STANDARD LENGTH OF PIPE SHALL BE SIGHTEEN (18) FEET.

- ALL EXISTING UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR AT ALL POINTS OF CONNECTION TO AND
 AT ALL AREAS OF CONFLICT WITH EXISTING MAINS.
- ALL UTILITIES (INCLUDING PUMP STATION IF APPLICABLE) LOCATED OUTSIDE PUBLIC RIGHT—F—WAYS AND PUBLIC EASEMENTS SHALL BE PRIVATELY OWNED AND MAINTAINED.

WATER SYSTEM TESTING REQUIREMENTS:

- THE CONTRACTOR SHALL PERFORM HYDROSTATIC TESTING OF ALL WATER DISTRIBUTION SYSTEMS, AS SET FORTH IN THE FOLLOWING AND SHALL CONDUCT SAID TESTS IN THE PRESENCE OF REPRESENTATIVES FROM CITY OF APOPKA AND/OR OTHER AUTHORIZED AGENCIES. THE CONTRACTOR SHALL PROVIDE 48 HOURS ADVANCED NOTICE PRIOR TO TESTING OF THE WATER DISTRIBUTION SYSTEM.
- 2. ALL TESTING REQUIRED BY CITY OF APOPKA SHALL BE PAID FOR BY THE DEVELOPER / CONTRACTOR.
- ALL PROPOSED WATER MAINS SHALL BE TESTED AND CLEARED FOR SERVICE IN ACCORDANCE WITH THE LATEST AWMA STANDARDS AND THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION REQUIREMENTS.
- 4. PRIOR TO HYDROSTATIC TESTING A PRELIMINARY FLUSHING SHALL BE REQUIRED THROUGH FULL DIAMETER FLUSHING OR SWABBING. PRELIMINARY FLUSHING/SWABBING SHALL BE PERFORMED PER AWWA C651 STANDARD —"DISNIFECTING WATER MANNS". ALL PIPING SHALL BE THOROUGHLY CLEANED AND FLUSHED PRIOR TO TESTING TO CLEAR THE LINES OF ALL FOREIGN MATTER. WHILE THE PIPING IS BEING FILLED WITH WATER, CARE SHALL BE EXERCISED TO PERMIT THE ESCAPE OF AIR FROM EXTREMITIES ALONG THE TEST
- 5. HYDROSTATIC TESTING SHALL CONSIST OF PRESSURE TEST AND LEAKAGE TEST, PIPING AND APPURTENANCES TO BE TESTED SHALL BE WITHIN SECTIONS BETWEEN VALVES, NOT EXCEEDING 2,000 FEET, UNLESS ALTERNATE METHODS HAVE RECEIVED PRIOR APPROVAL FROM CITY OF APPORT. TESTING SHALL NOT PROCEED UNTIL CONCRETE THRUST BLOCKS ARE IN PLACE AND CURED, OR OTHER RESTRAINING DEWCES
- 6 HYDROSTATIC TESTING SHALL BE PERFORMED AT 150 POUNDS PER SOLIARE INCH PRESSURE, UNLESS OTHERWISE APPROVED BY CITY OF APOPKA, FOR A PERIOD OF NOT LESS THAN TWO (2) HOURS.
- 7. THE ALLOWABLE RATE OF LEAKAGE SHALL BE LESS THAN THE NUMBER OF GALLONS PER HOUR DETERMINED

WHENE:
L = ALOWABLE LEAKAGE, IN GALLONS PER HOUR
S = LENGTH OF PIPE TESTED, IN FEET
D = NOMINAL DIAMETER OF PIPE, IN INCHES
P = AVERAGE TEST PRESSURE DURING THE LEAKAGE TEST,

P = AVERAGE TEST PRESSURE DURING THE LEAKAGE TEST,

8. SHOULD THE TEST FAIL, NECESSARY REPAIRS ON THE SOUTH SET SOUTH SET ON TRACTOR AND THE TEST REPEATED UNTIL WITHIN PASSING LIMITS. THE CONTRACTOR SHALL FURNISH ALL THE NECESSARY LABOR, PUMPS, GAUGES AND ALL OTHER ITEMS NECESSARY TO CONDUCT THE REQUIRED WATER DISTRIBUTION SYSTEM TESTING AND PERFORM NECESSARY REPAIRS.

SEWER SYSTEM TESTING REQUIREMENTS:

- THE CONTRACTOR SHALL PERFORM TESTING OF ALL SANITARY SEWAGE GRAVITY COLLECTION SYSTEMS, AS
 SET FORTH IN THE FOLLOWING AND SHALL CONDUCT SAID TESTS IN THE PRESENCE OF REPRESENTATIVES
 FROM CITY OF APOPKA AND/OR OTHER AUTHORIZED AGENCIES. THE CONTRACTOR SHALL PROVIDE 48
 HOURS ADVANCED NOTICE PRIOR TO TESTING OF THE WASTEWATER DISTRIBUTION SYSTEM.
- 2. ALL TESTING REQUIRED BY CITY OF APOPKA SHALL BE PAID FOR BY THE DEVELOPER / CONTRACTOR.
- GRAWITY MAINS SHALL BE INSPECTED WITH CCTV FOR ALIGNMENT, GRADE VARIATIONS, SEPARATED PIPES, LEAKS, DEFLECTION, CRACKED, BROKEN OR OTHERWISE DEFECTIVE PIPE TO ENSURE OVERALL PIPE INTEGRITY. THE APPROVED CCTV INSPECTION CONTRACTOR SHALL SUBMIT THE REPORT TO THE UTILITIES DEPARTMENT AS REQUIRED.
- 4 IFAKACE TESTING FOR CRAVITY MAINS SHALL BE BY LOW-PRESSURE AIR TEST. LEAKAGE TESTING SHALL BE CONDUCTED IN ACCORDANCE WITH THE PROCEDURE FOR "RECOMMENDED PRACTICE FOR LOW PRESSURE AIR TESTING OF INSTALLED SEWER PIPE" AS ESTABLISHED BY THE UNI-BELL PVC PIPE ASSOCIATION.
- 5. EACH GRAVITY MAIN LEAKAGE TEST SECTION SHALL NOT EXCEED 400 FEET IN LENGTH AND SHALL BE

FDEP UTILITY CONSTRUCTION NOTES:

- NOTE TO THE UTILITY: PURSUANT TO F.A.C. RULE 62-555.345; DO NOT PROVIDE WATER SERVICE TO THIS
 PROJECT (OTHER THAN FLUSHING/TESTING) UNTIL THE DEPARTMENT OF ENVIRONMENTAL PROTECTION HAS
 ISSUED A LETTER OF CLEARANCE OR THE UTILITY SHALL BE SUBJECT TO ENFORCEMENT ACTION.
- 2. THE PERMITTEE WILL PROMPTLY NOTIFY THE DEPARTMENT UPON SALE OR LEGAL TRANSFER OF THE PERMITTED FACILITY
- ALL WATER MAINS AND APPURTENANCES SHALL BE DISINFECTED AND BACTERIOLOGICALLY EVALUATED IN ACCORDANCE WITH F.A.C. RULE 62-555.340.
- 4. ALL WATER MAIN PIPE, INCLUDING FITTINGS SHALL BE COLOR CODED OR MARKED USING BLUE AS A PREDOMINANT COLOR TO DIFFERENTIATE DRINKING WATER FROM RECLAIMED OR OTHER WATER, UNDERGROUND PLASTIC PIPE SHALL BE SOLD—WALL BLUE PIPE, SHALL HAVE A CO—EXTRUDED BLUE EXTERNAL SKIN, OR SHALL BE WHITE OR BLACK PIPE WITH BLUE STRIPES INCOPROPATED INTO, OR APPLIED TO, THE PIPE WALL; AND UNDERGROUND METAL OR CONCRETE PIPE SHALL HAVE CONTINUOUS STRIPES APPLIED TO THE PIPE WALL, PIPE STRIPED DURING MANUFACTURING OF THE PIPE SHALL HAVE CONTINUOUS STRIPES THAT RUN PARALLEL TO THE AXS OF THE PIPE. HAVE OF ANY OF THE PIPE, AND THAT WILL REMAIN INTACT DURING AND AFTER INSTALLATION OF THE PIPE. IT AFTE OR PAINT IS USED TO STRIPE PIPE DURING INSTALLATION OF THE PIPE, THE TAPE OR PAINT SHALL BE APPLIED IN A CONTINUOUS LINE THAT RUNS PARALLEL TO THE AXS OF THE PIPE AND THAT IS LOCATED ALONG THE TOP OF THE PIPE; FOR PIPES WITH AN INTERNAL DIAMETER OF 24 NOCHSO OR GREATER, TAPE OR PAINT SHALL BE APPLIED IN CONTINUOUS LINES ALONG EACH SIDE OF THE PIPE AS WELL AS ALONG THE TOP OF THE PIPE.

FDEP UTILITY SEPARATION REQUIREMENTS

(F.A.C. 62-555.314 LOCATION OF PUBLIC WATER SYSTEM MAINS)

FOR THE PURPOSE OF THIS SECTION, THE PHRASE "WATER MAINS" SHALL MEAN MAINS, INCLUDING TREATMENT PLANT PROCESS PIPING, CONVEYING EITHER RAW, PARTIALLY TREATED, OR FINISHED DRINKING WATER; FIRE HYDRANT LEADS; AND SERMICE LINES THAT ARE UNDER THE CONTROL OF A PUBLIC WATER SYSTEM AND THAT HAVE AN INSIDE DIAMETER OF THREE INCHES OR GREATER.

- (1) <u>HORIZONTAL SEPARATION</u> BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS, RECLAIMED WATER PIPELINES, AND ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS.

(c) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THEOUTSIDE OF ANY EXISTING OR PROPOSED STORM SEMER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAMED WATER REGULATED UNDER PART II OF CHAPTER 62-610, F.A.C.

(b) NEW OR RELOCATED, UNDERGROOUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET, AND PREFERABLY TEN FEET, BETHEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER.

(c) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SIX FEET, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAMTY—OR PRESSURE—TYPE SANITARY SEWER. WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN MAIN SAND GRAVITY—TYPE SANITARY SEWERS SHALL BE REDUCED TO THREE FEET WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST SIX MORES ABOVE THE TOP OF THE SEWER.

(d) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST TEN FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND ALL PARTS OF ANY EXISTING OR PROPOSED "ON—SITE SEWACE TREATMENT AND DISPOSAL SYSTEM" AS DEFINED IN SECTION 381.0085(2), F.S., AND RULE 846—6.002, F.A.C.

381.0065(2), F.S., AND RULE 64E-6.002, F.A.C.

(2) <u>MERTICAL SEPARATION</u> BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS, AND RECLAIMED WATER PIPELINES.

(a) NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY- OR VACUUM-TYPE SANTARY SEWER OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES, AND PREFERABLY 12 INCHES, ABOVE OR AT LEAST 12 INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE

OTHER PIPELINE.

(b) NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED PRESSURE—TYPE SANITARY SEWER, WASTEWATER OR STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE, HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.

ABOVE THE OTHER PIPELINE.

(c) AT THE UTILITY CROSSINGS DESCRIBED IN PARAGRAPHS (A) AND (B) ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUICH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM-TYPE SANTARY SEWERS, STORM SEWERS, STORM SEVERS, STORM SECOND ALL JOINTS IN PEPLIANES CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C., AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY- OR PRESSURE—TYPE SANTIRAY SEWERS, WASTENBER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.

(3) SEPARATION BETWEEN WATER MAINS AND SANITARY OR STORM SEWER MANHOLES.

- (a) NO WATER MAIN SHALL PASS THROUGH, OR COME INTO CONTACT WITH, ANY PART OF A SANITARY SEWER
- (4) SEPARATION BETWEEN FIRE HYDRANT DRAINS AND SANITARY OR STORM SEWERS, WASTEMATER OR STORMMATER FORCE MAINS, RECLAIMED WATER PIPELINES, AND ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS. NEW OR RELOCATED FIRE HYDRANTS WITH LINDERGROUND DRAINS SHALL BE LOCATED SO THAT THE DRAINS ARE AT LEAST THREE FEET FROM ANY EXISTING OR PROPOSED STORM SEWER, STORMMATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.; AT LEAST STAR FEET, AND PREFERABLY TEN FEET, FROM ANY EXISTING OR PROPOSED VACUUM—TYPE SANITARY SEWER, AT LEAST SIX FEET, AND PREFERABLY TEN FEET, FROM ANY EXISTING OR PROPOSED GRAVITY—OR PRESSURE—TYPE SANITARY SEWER, AT LEAST SIX SEWER, WASTEWAITER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.; AND AT LEAST THE THEORY AND PROPOSED "ON-SITE SEWAGE. TREATMENT AND DISPOSAL SYSTEM" AS DEFINED IN F.S. SECTION 381.0065(2), AND F.A.C. RULE 64E-6.002.

LOCATION OF PUBLIC WATER SYSYEM MAINS IN ACCORDANCE WITH F.A.C. RULE 62-555.314

Other Pipe	Horizontal Separation	Crossings (I)	Joint Spacing @ Crossings (Full Joint Centered)
Storm Sewer, Stormwater Force Male, Reclaimed Water (I)	WaterMain 3 ft. orinimum	Water Main 11 inches in the minimum, except for storm sewer, then finches in the minimum and 11 inches in preferred	Alternate 3 ft minimum
Vacuum Sanftary Semer	Water Main 10 ff. professed 3 ff. minimum	Water Main 12 inches professed 6 inches minimum	Alterate 3 ft. minimum Water Moin
Gravity or Pressure Sunhary Sever. Sunhary Sever Force Main, Reclaimed Water (4)	Water Main 10 2, proformed 6 ft, minimum (2)	Water Main Di Sechas in the minimum, except for gravity selver, then finehous in the minimum and 11 inches in preferred	Alternate & R. minimum
On-Site Sewage Treatment & Disposal System	10 ft. minimum	·:	

dentifications above other pipe. When water main must be below other pipe, the minimum separation is 12 inches. some regulated under Part III of Chapper 62-610, FAC.

ity sanitary accors where the bottom of the water main is laid at licat 6 inches above the top off the gravity sanitary accors to expended under Part III of Chapper 62-610, FAC.

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ENGINEERING I

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JTILITY NOTES
DEVELOPMENT P

FINAL C

PROJECT ROY-001

Z SINGE

PPL

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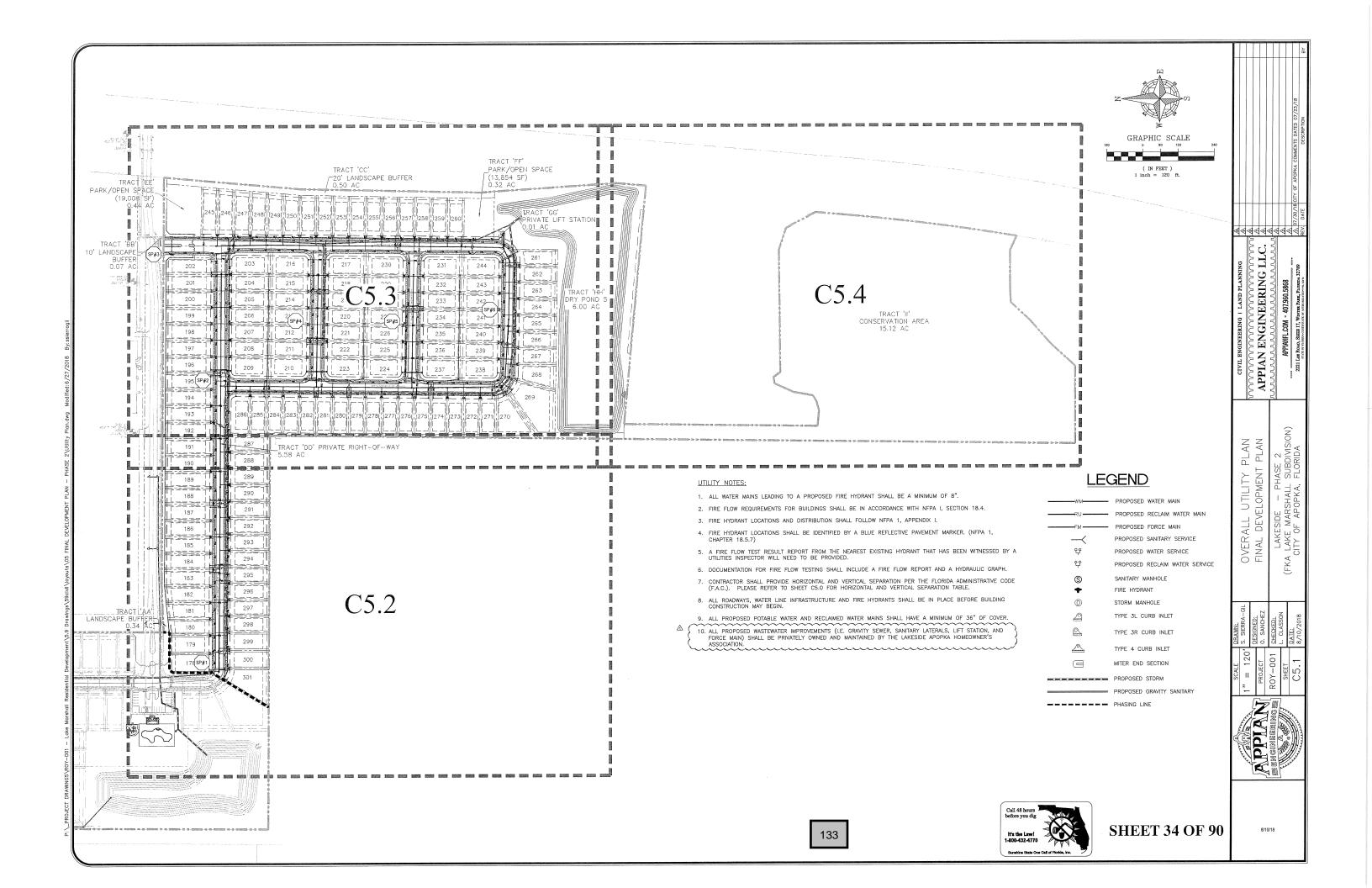
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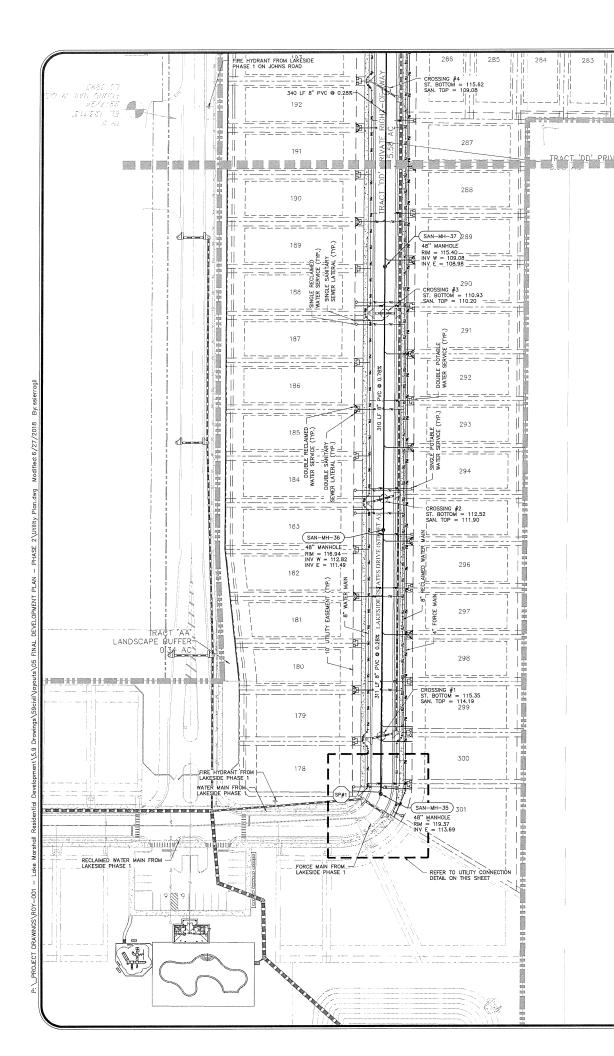
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SUBDIVISION) FLORIDA

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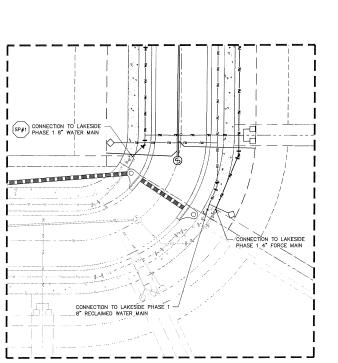




SHEET C5.3

SHEET C5.2





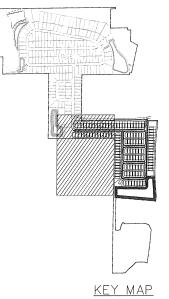
UTILITY CONNECTION DETAIL

UTILITY NOTES:

- 1. ALL WATER MAINS LEADING TO A PROPOSED FIRE HYDRANT SHALL BE A MINIMUM OF 8".
- 2. FIRE FLOW REQUIREMENTS FOR BUILDINGS SHALL BE IN ACCORDANCE WITH NFPA I, SECTION 18.4.
- 3. FIRE HYDRANT LOCATIONS AND DISTRIBUTION SHALL FOLLOW NFPA 1, APPENDIX I.
- 4. FIRE HYDRANT LOCATIONS SHALL BE IDENTIFIED BY A BLUE REFLECTIVE PAVEMENT MARKER. (NFPA 1, CHAPTER 18.5.7)
- 5. A FIRE FLOW TEST RESULT REPORT FROM THE NEAREST EXISTING HYDRANT THAT HAS BEEN WITNESSED BY A UTILITIES INSPECTOR WILL NEED TO BE PROVIDED.
- 6. DOCUMENTATION FOR FIRE FLOW TESTING SHALL INCLUDE A FIRE FLOW REPORT AND A HYDRAULIC GRAPH.
- 7. CONTRACTOR SHALL PROVIDE HORIZONTAL AND VERTICAL SEPARATION PER THE FLORIDA ADMINISTRATIVE CODE (F.A.C.). PLEASE REFER TO SHEET C5.0 FOR HORIZONTAL AND VERTICAL SEPARATION TABLE.
- 8. ALL ROADWAYS, WATER LINE INFRASTRUCTURE AND FIRE HYDRANTS SHALL BE IN PLACE BEFORE BUILDING CONSTRUCTION MAY BEGIN.

9. ALL PROPOSED POTABLE WATER AND RECLAIMED WATER MAINS SHALL HAVE A MINIMUM OF 36" OF COVER.

10. ALL PROPOSED WASTEWATER IMPROVEMENTS (I.E. GRAVIP) STATE ON ITARY LATERALS, LIFT STATION, AND FORCE MAIN) SHALL BE PRIVATELY OWNED AND MAINTAI AKSIDE APOPKA HOMEOWNER'S ASSOCIATION.



LEGEND

PROPOSED WATER MAIN
PROPOSED RECLAIM WATER MAIN
PROPOSED FORCE MAIN
PROPOSED SANITARY SERVICE
PROPOSED WATER SERVICE
PROPOSED RECLAIM WATER SERVICE
SANITARY MANHOLE
FIRE HYDRANT
STORM MANHOLE
TYPE 3L CURB INLET
TYPE 3R CURB INLET
TYPE 4 CURB INLET
MITER END SECTION
PROPOSED STORM



SHEET 35 OF 90

PROPOSED GRAVITY SANITARY

8/10/18

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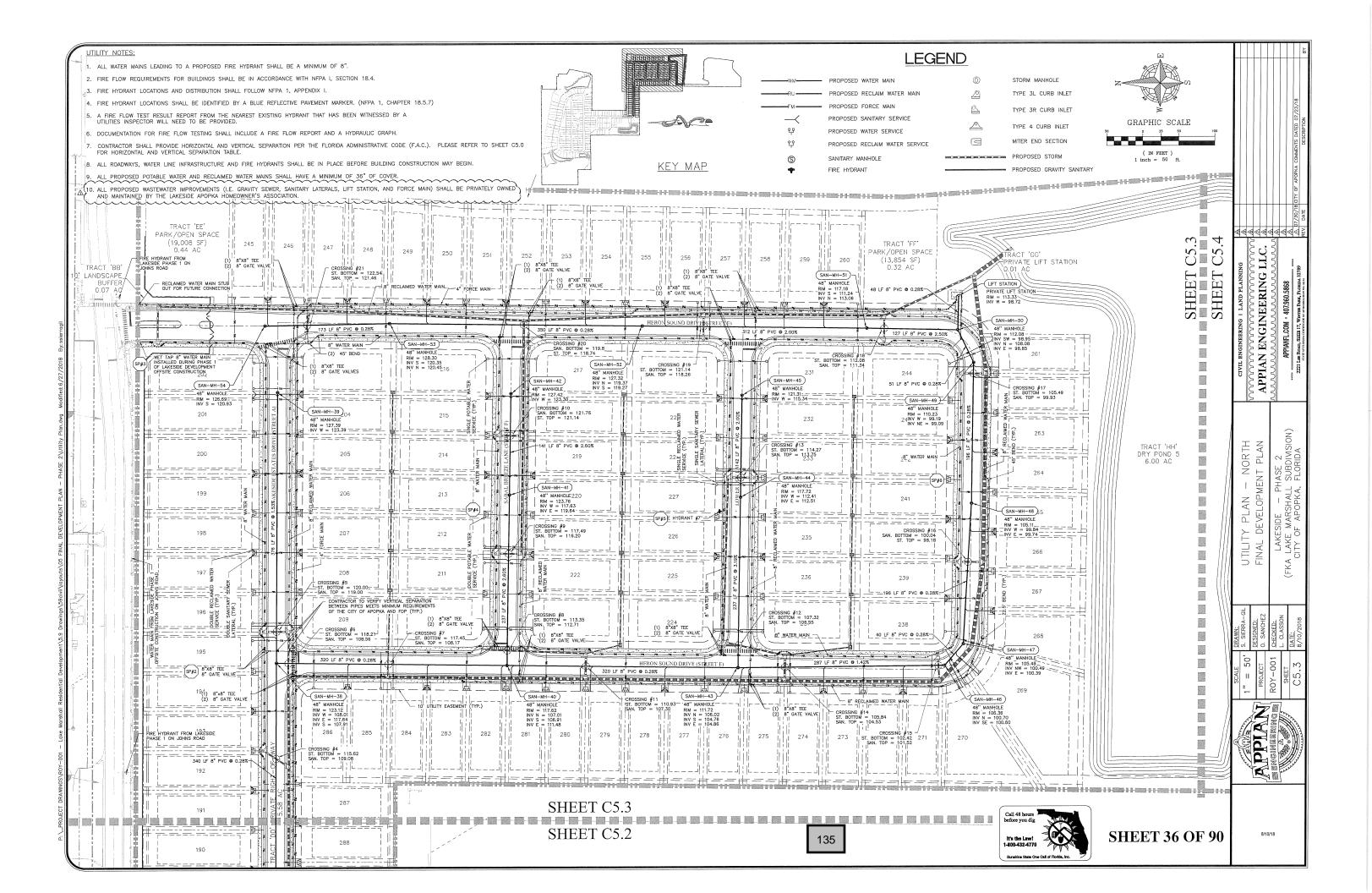
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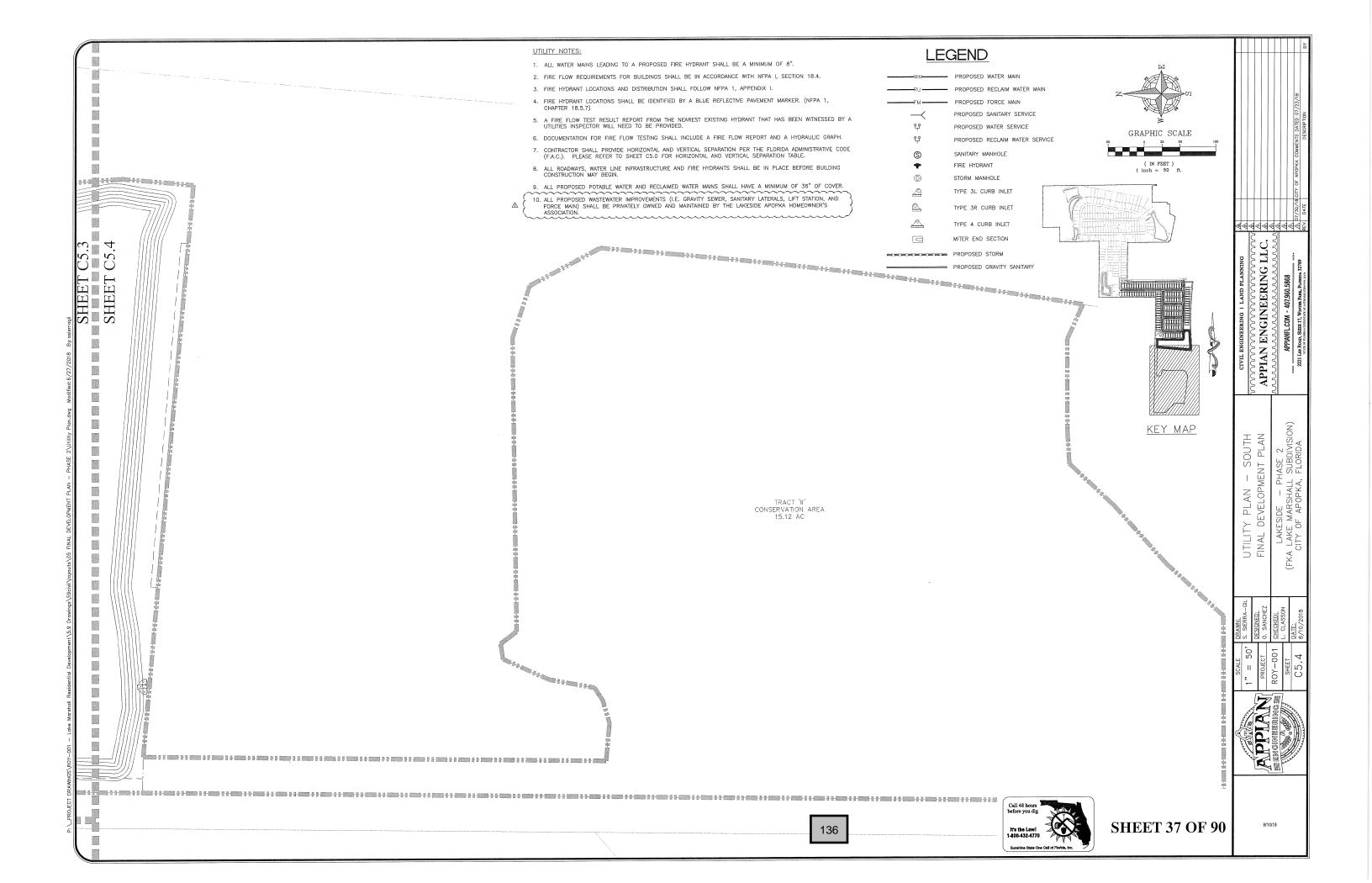
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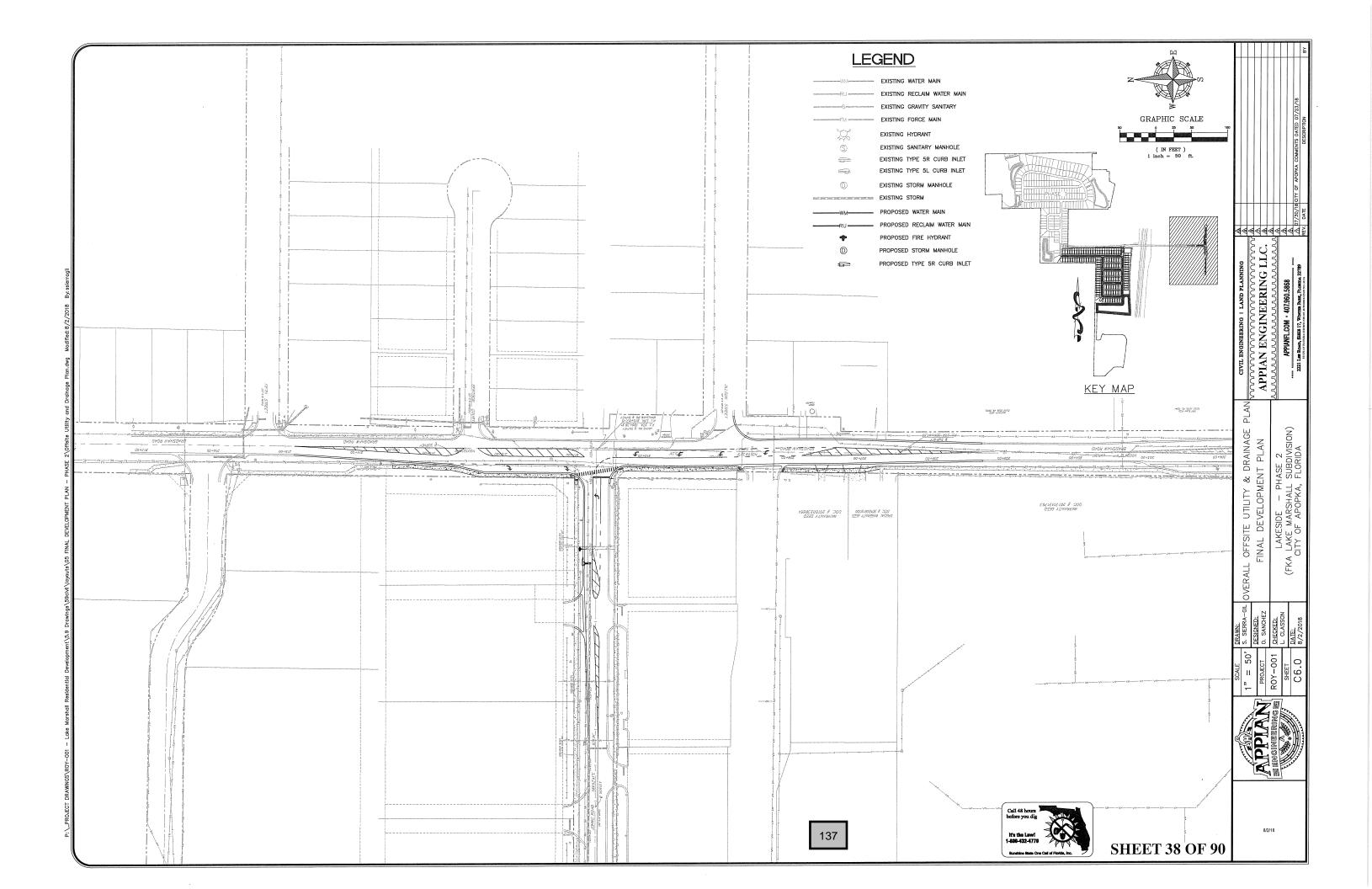
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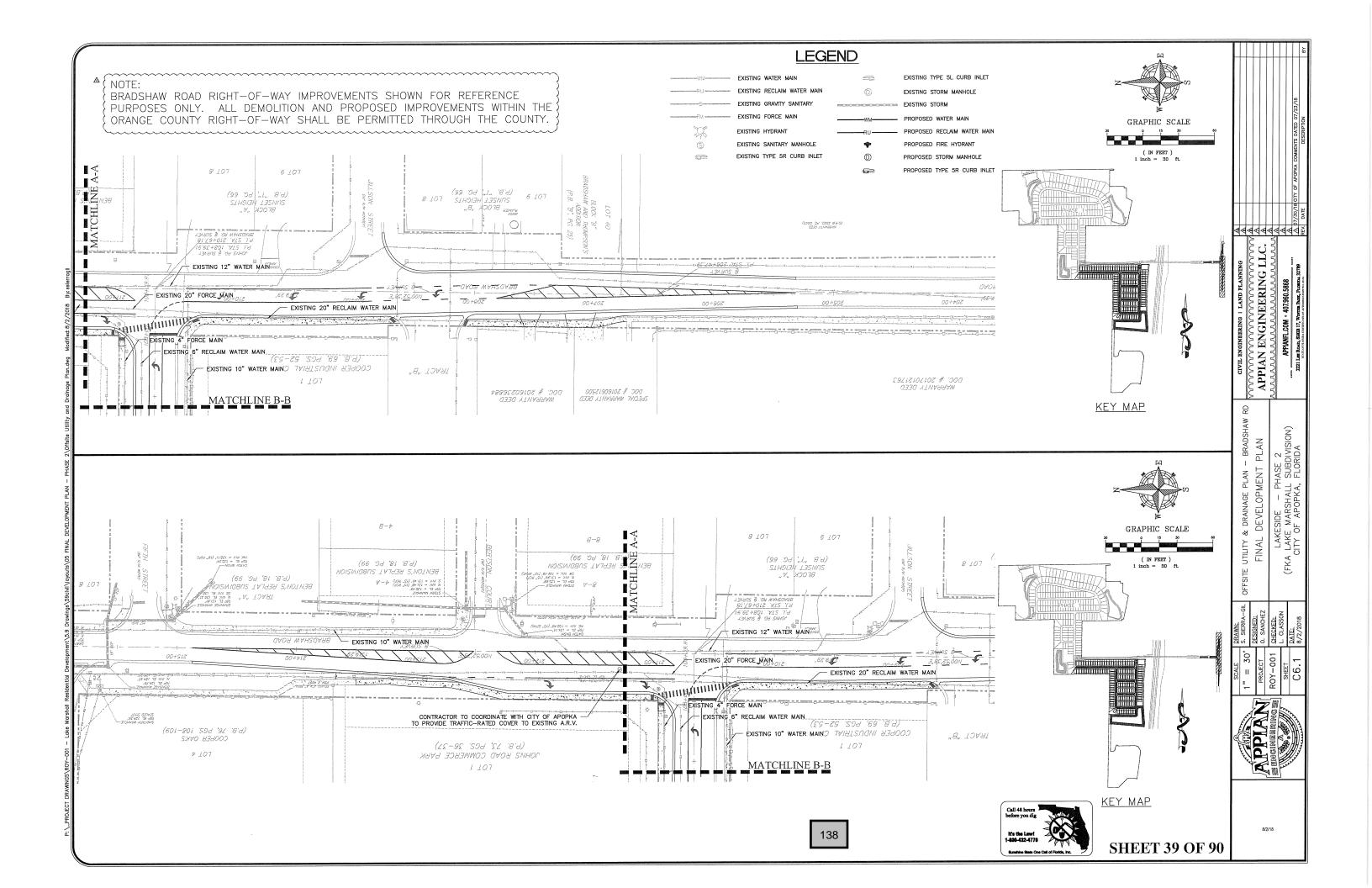
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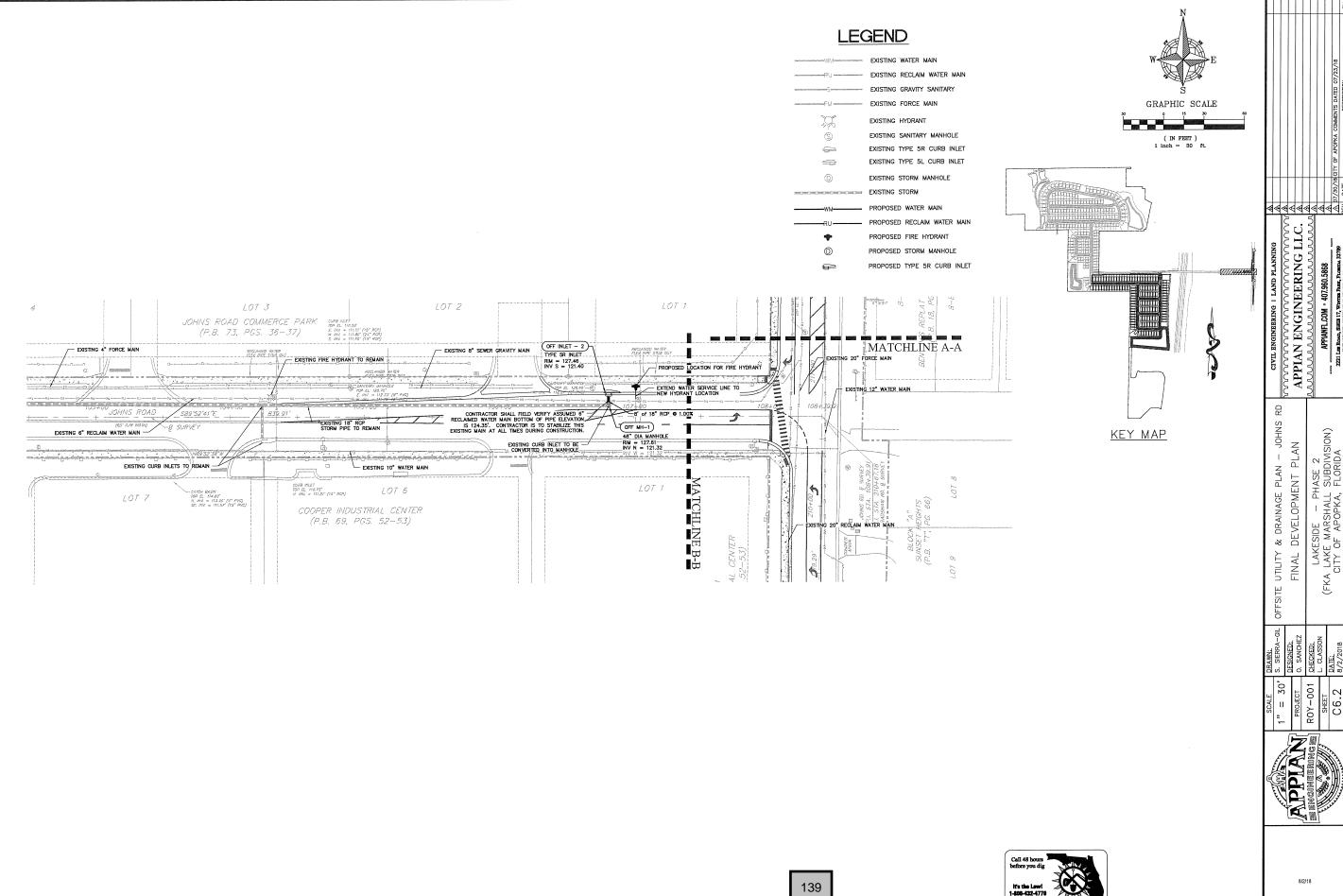
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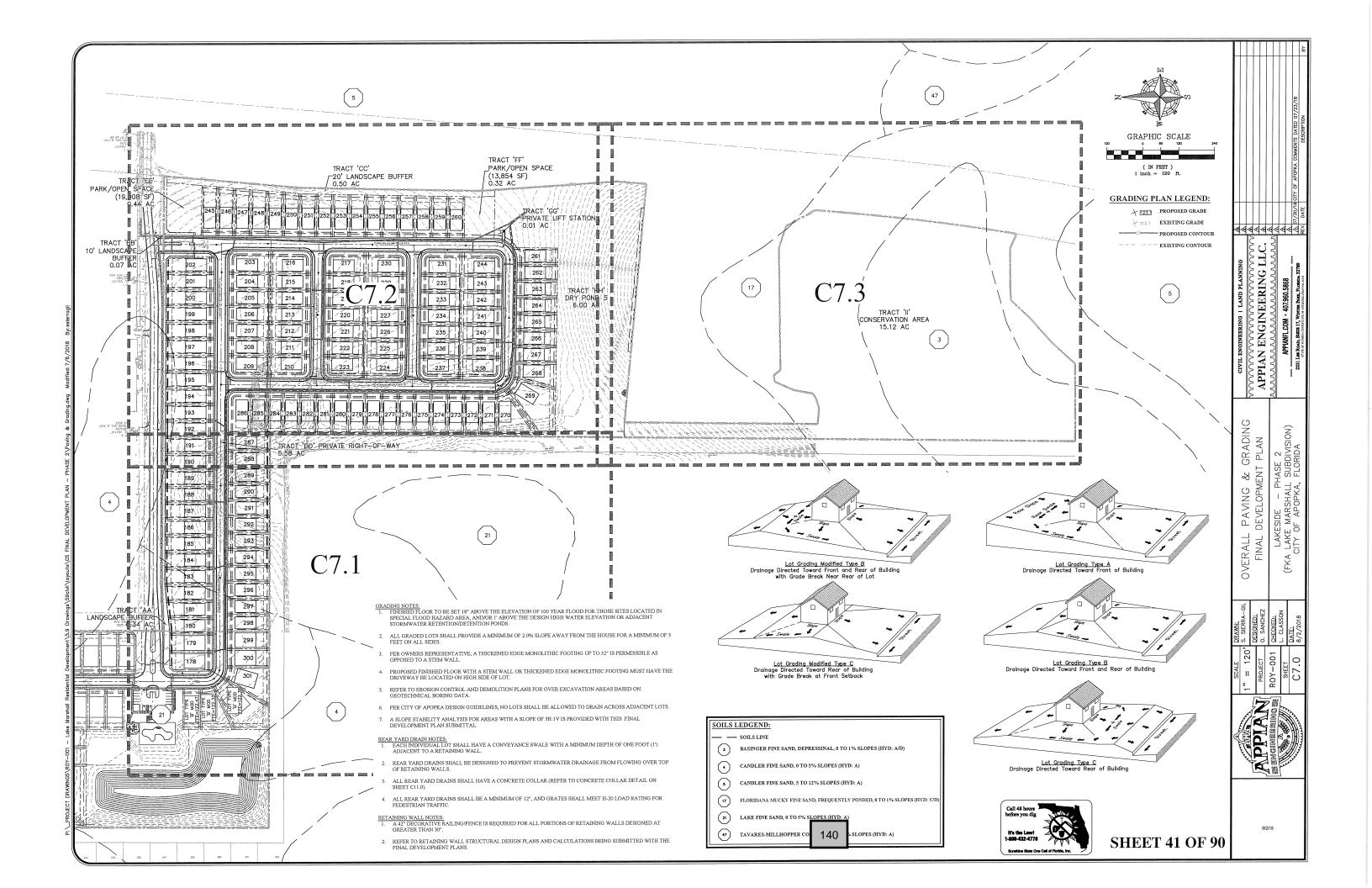


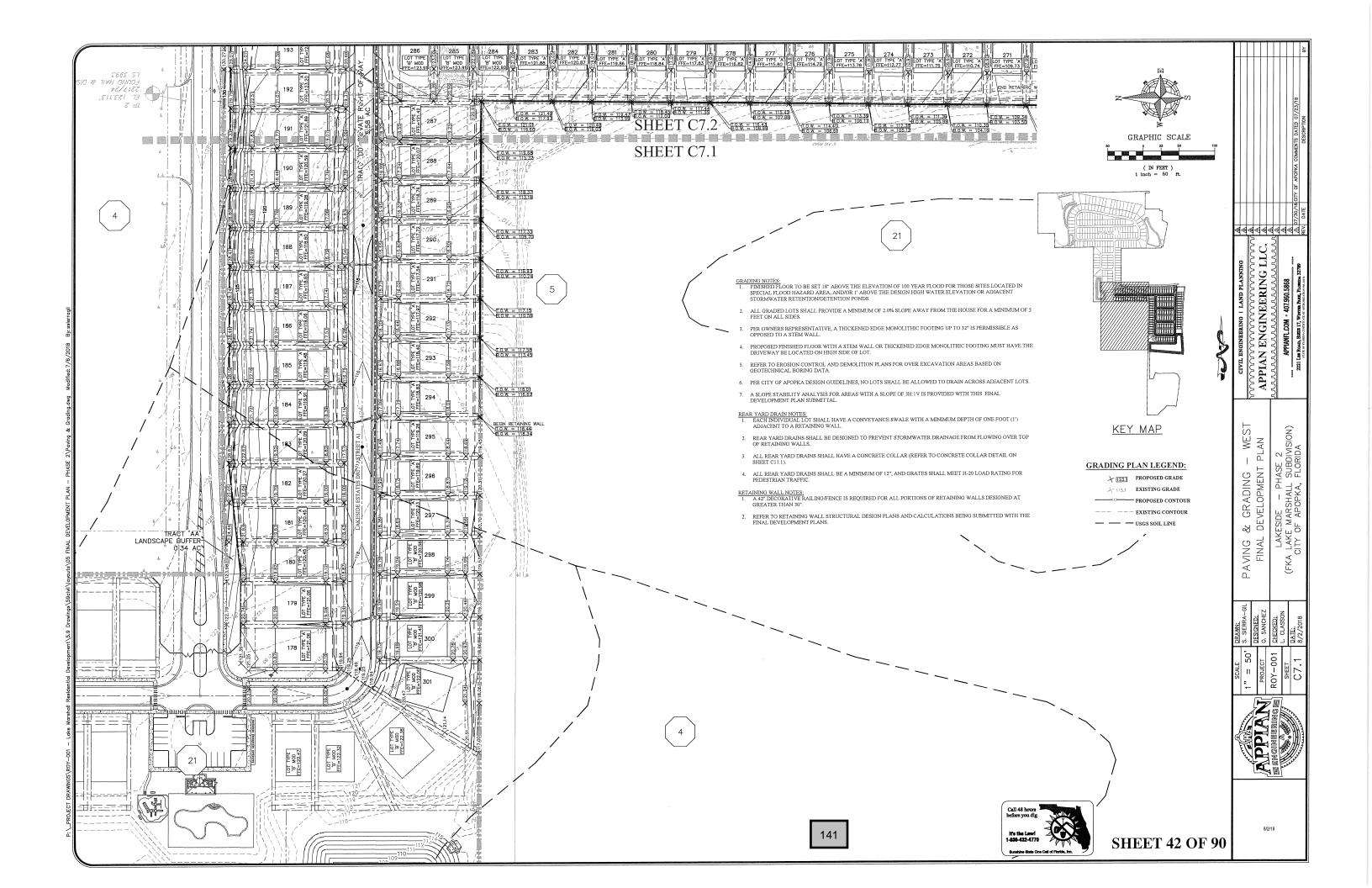


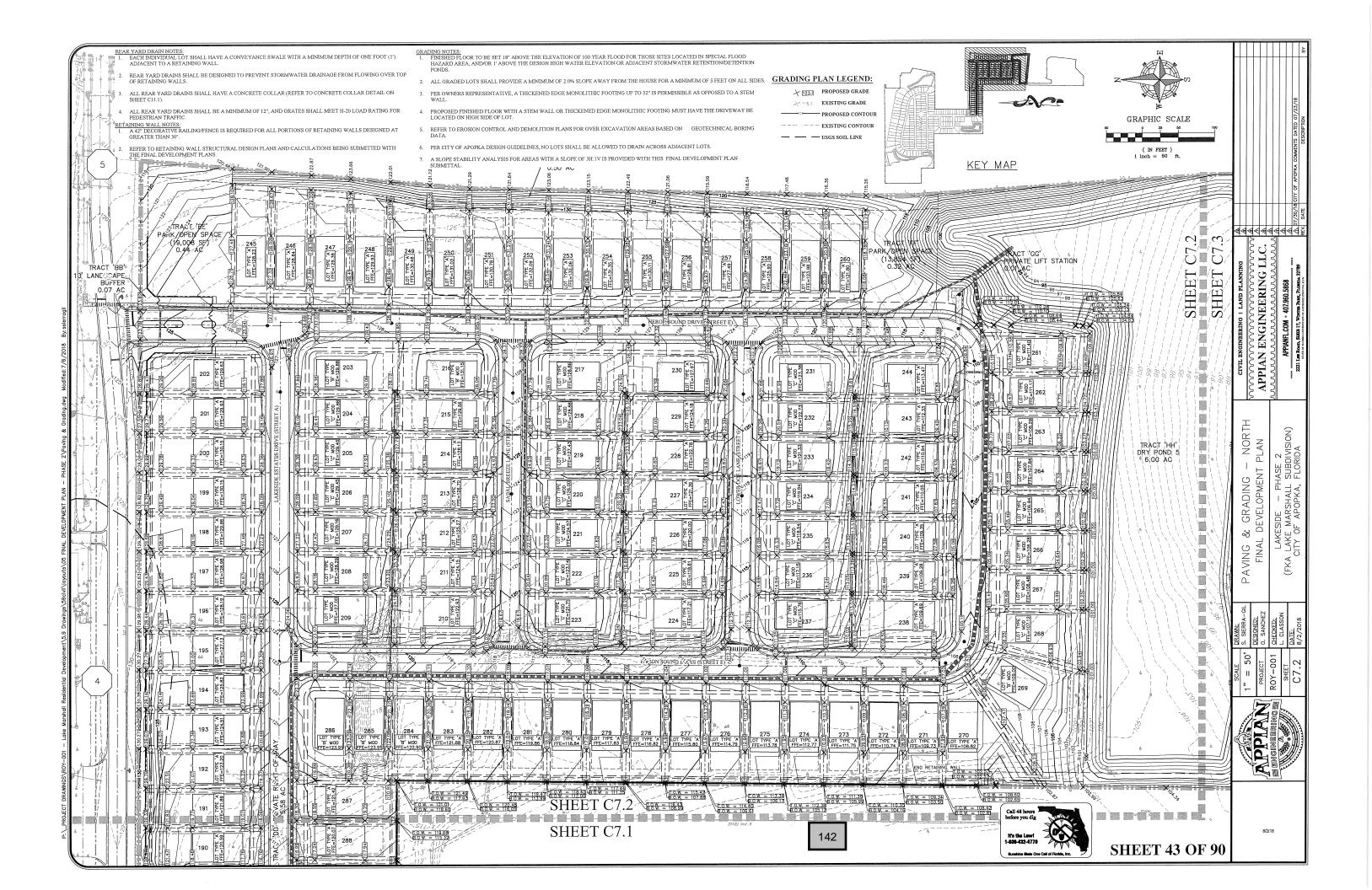


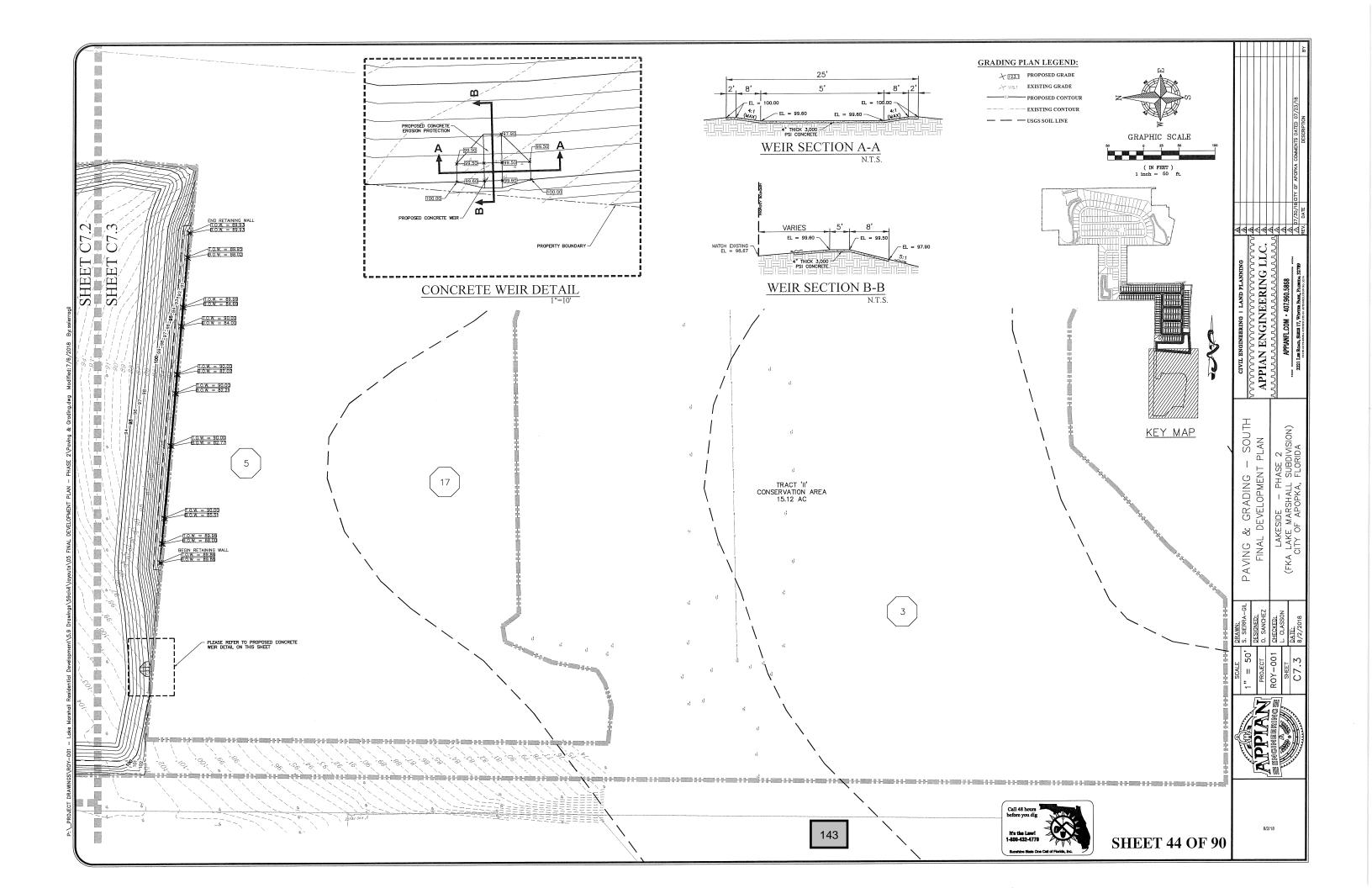


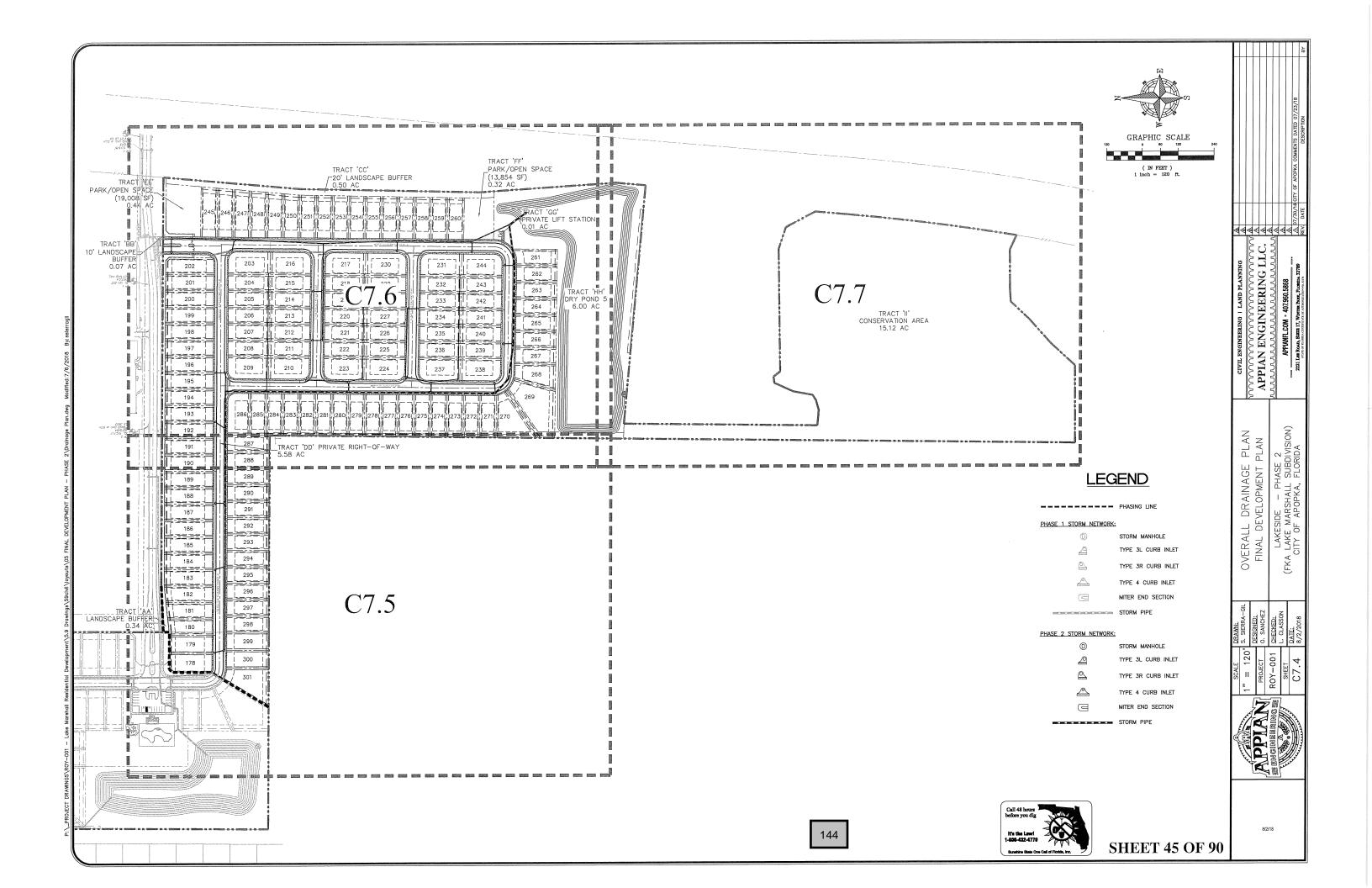


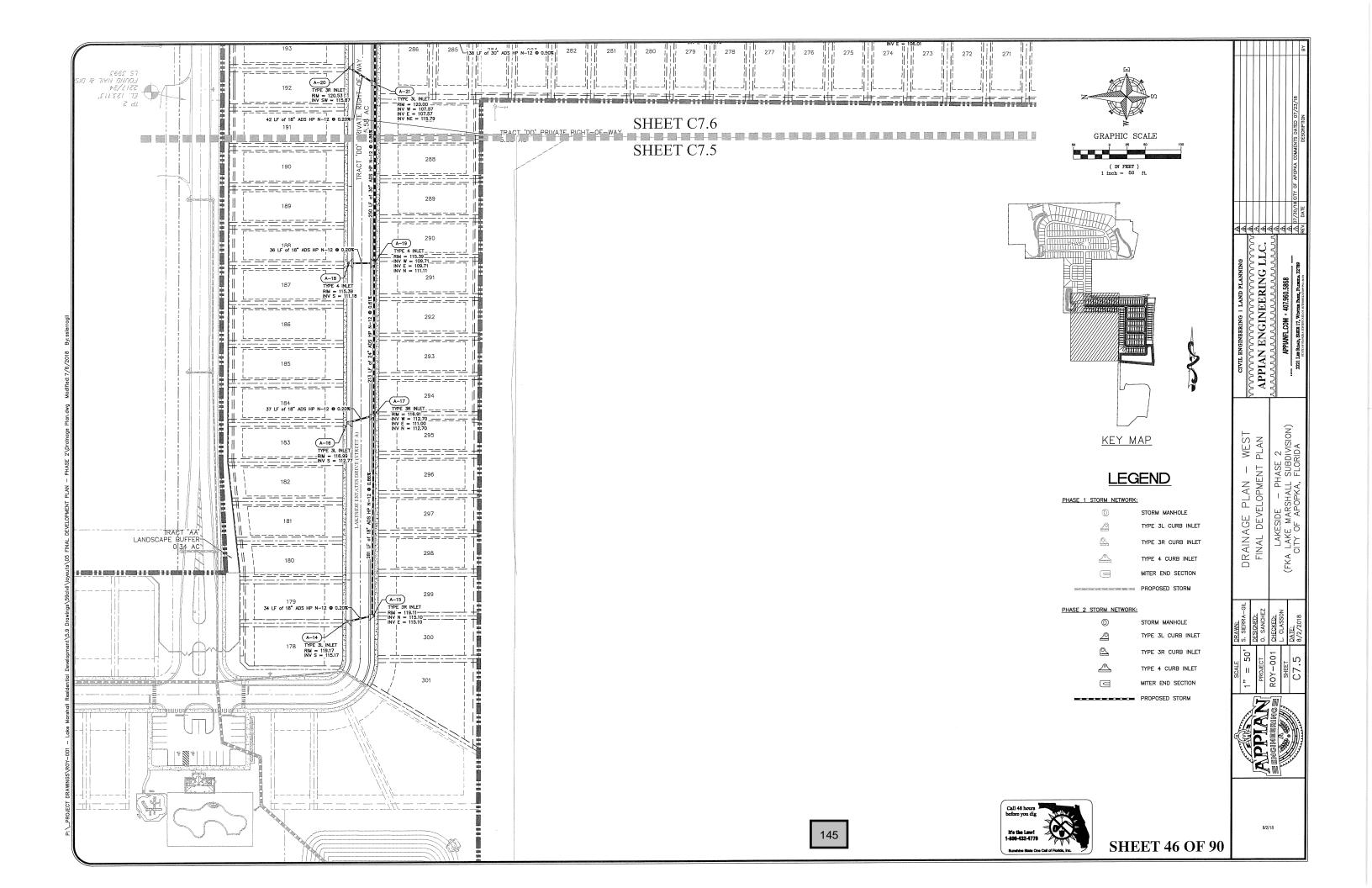


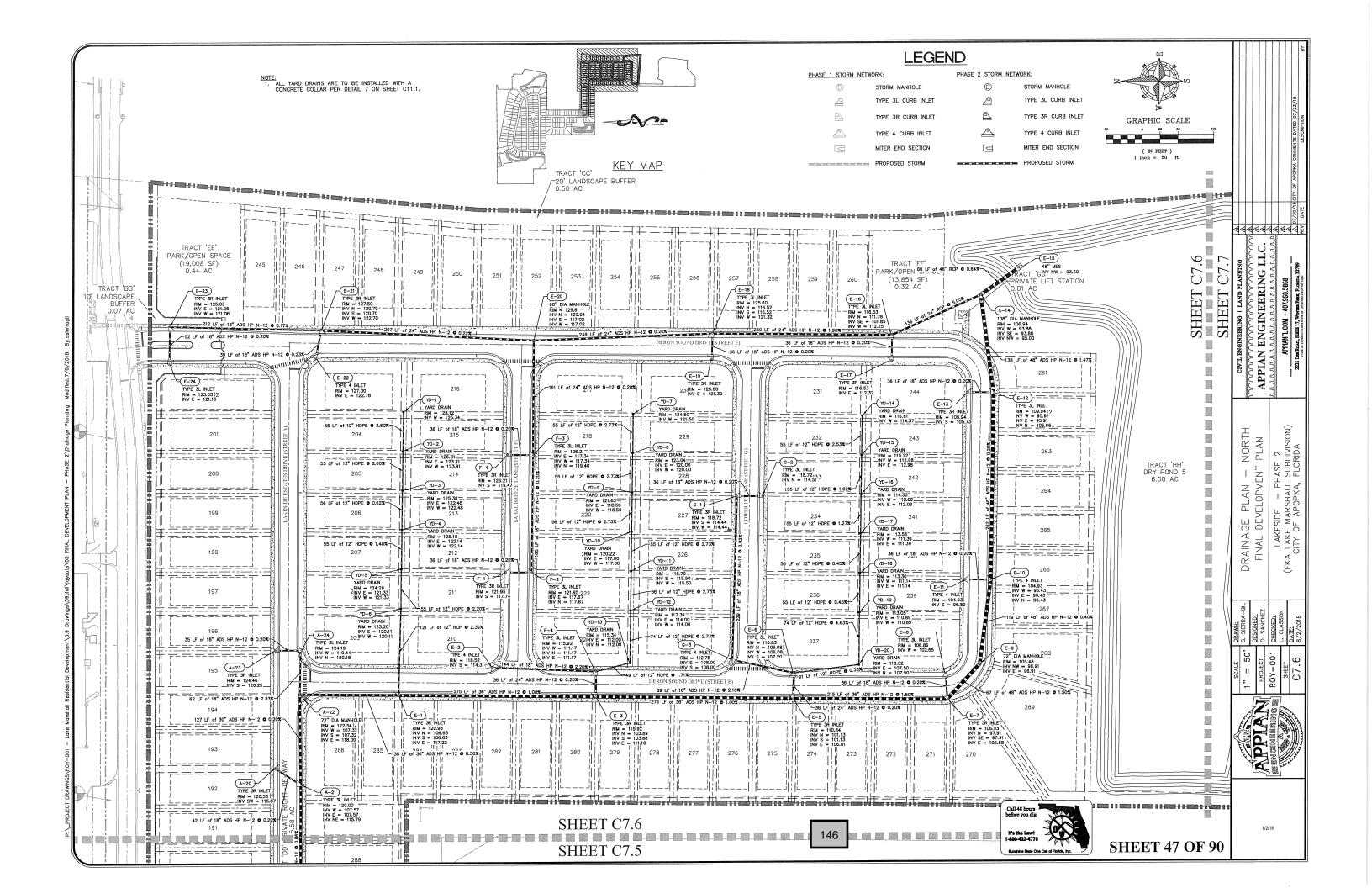


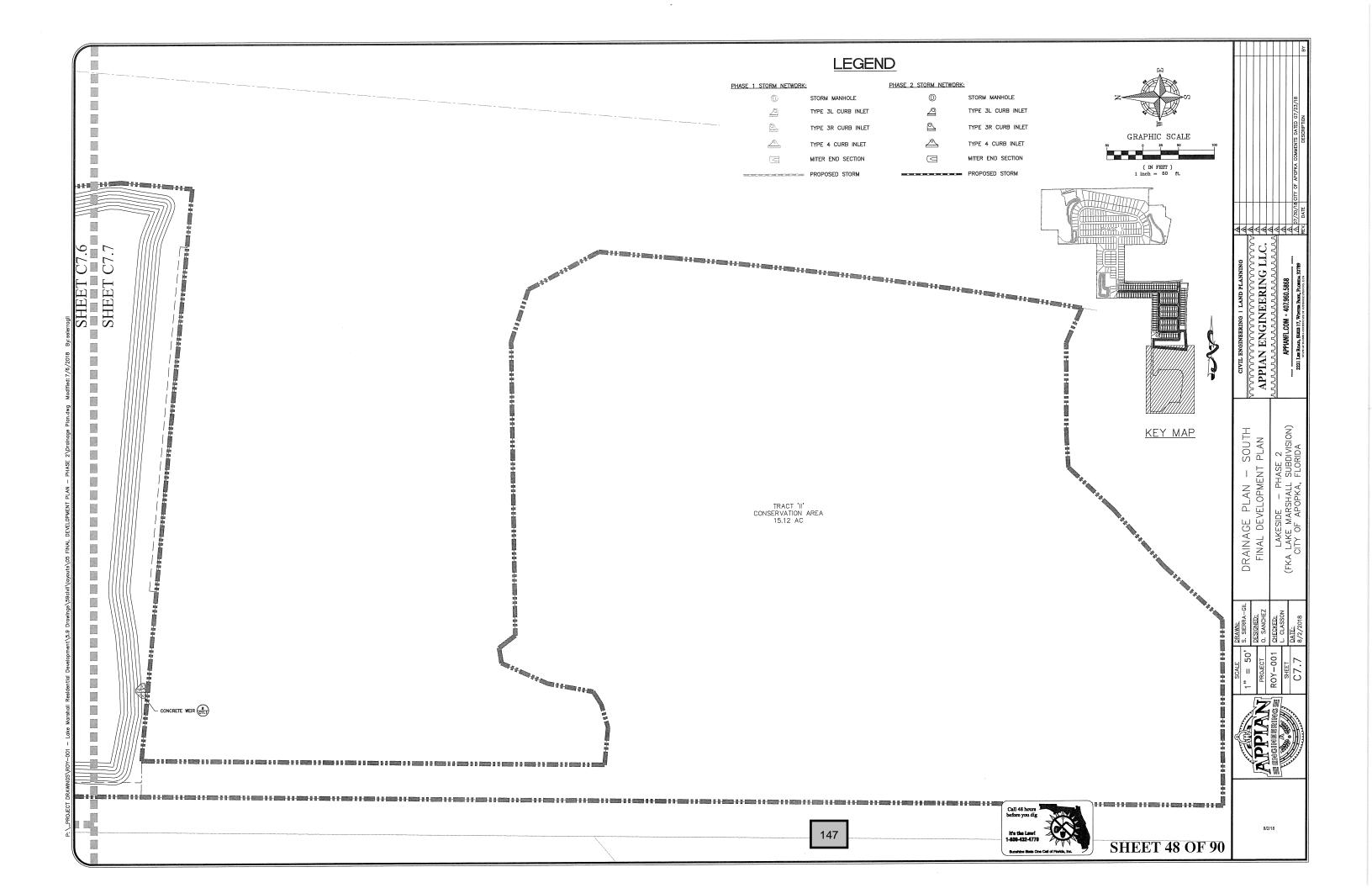


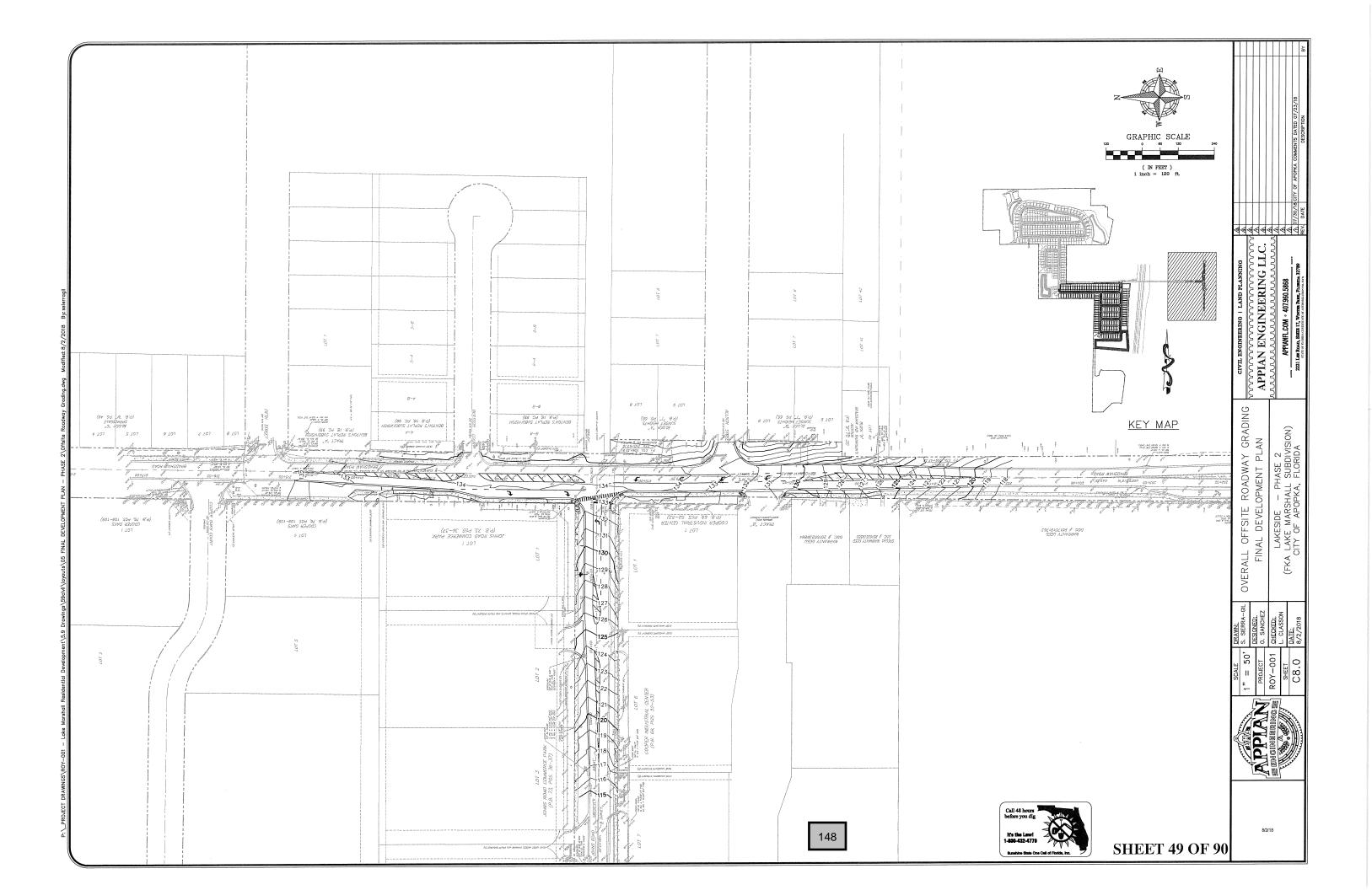


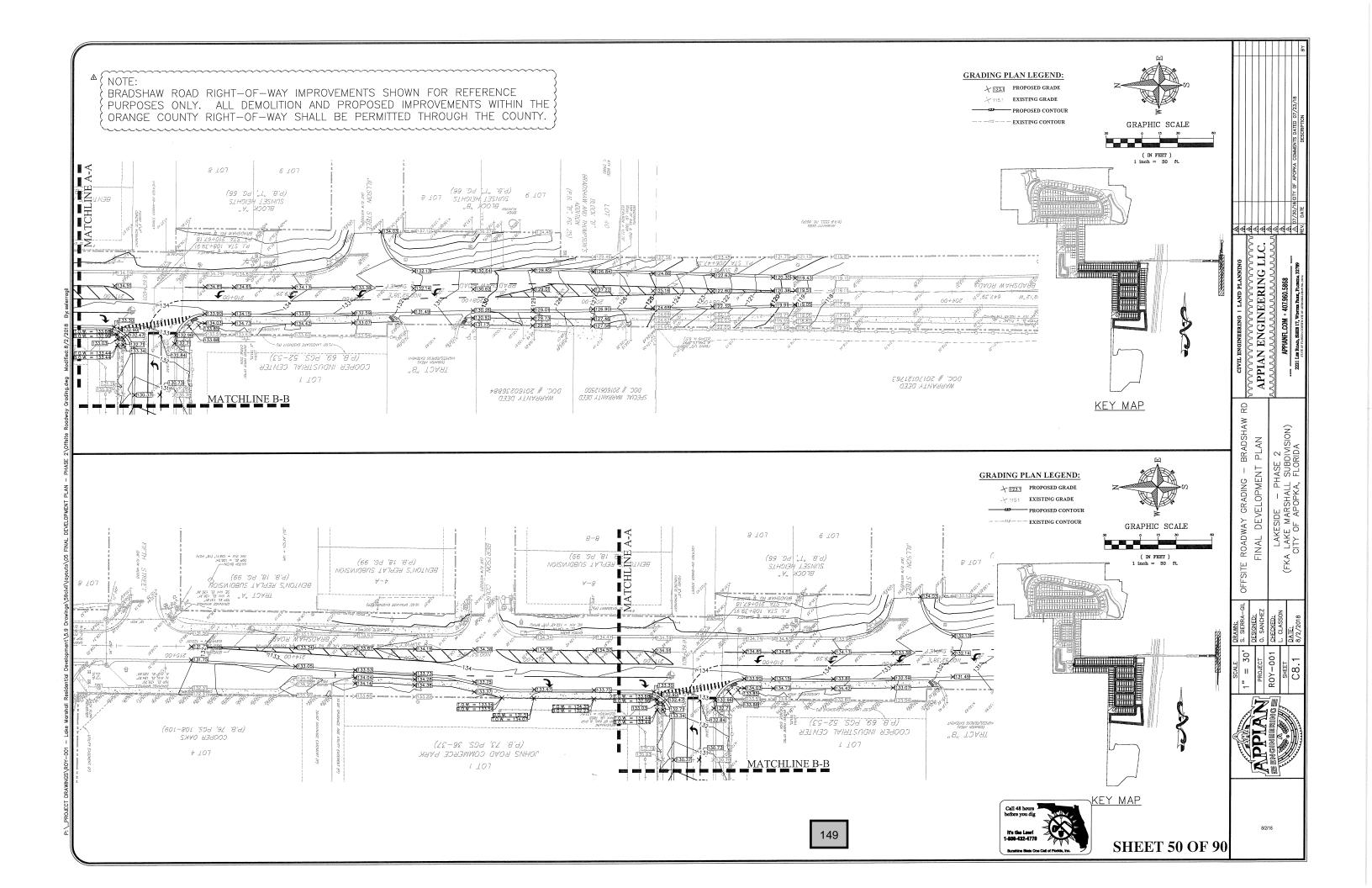


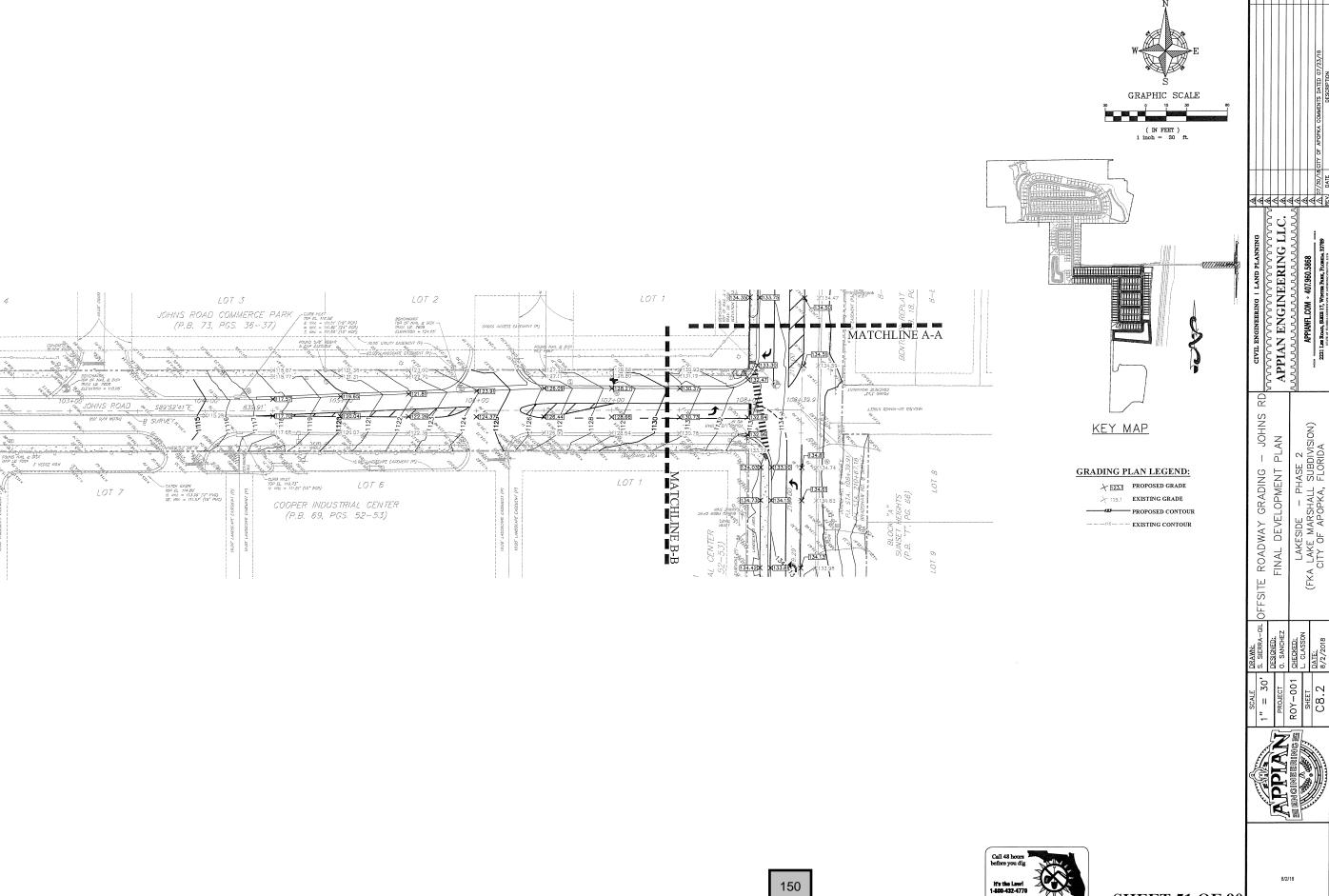




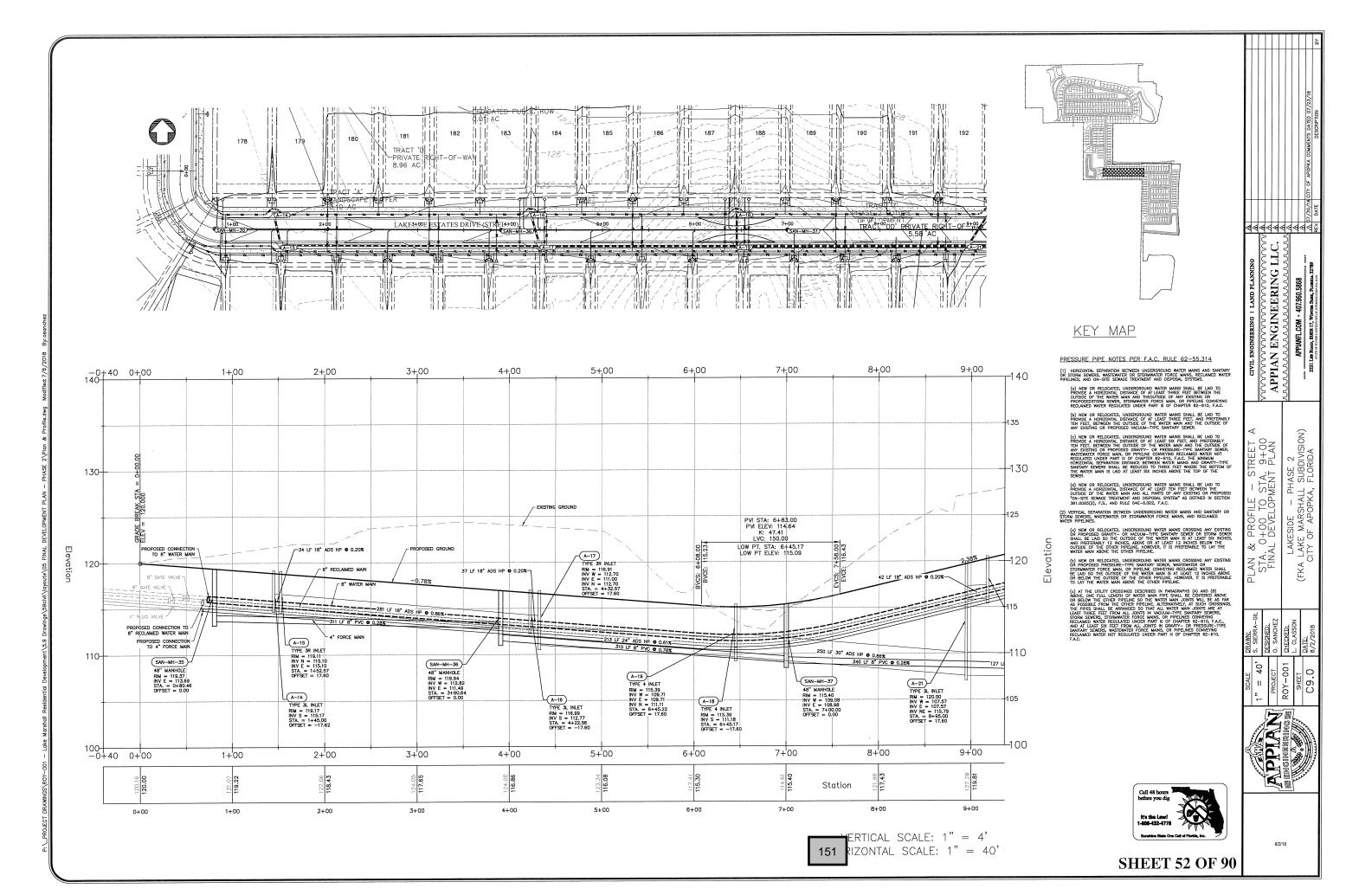


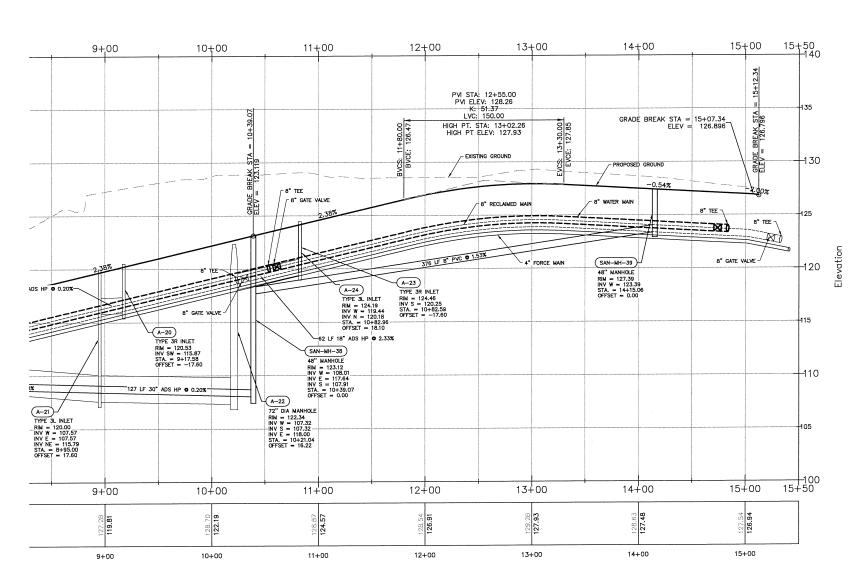


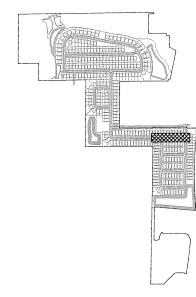




SHEET 51 OF 90







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APPIAN ENGINEERING LLC.

LAN & PROFILE - STREET STA, 9+00 TO STA, 15+12 FINAL DEVELOPMENT PLAN

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8/2/18

LAKESIDE – PHASE 2 (FKA LAKE MARSHALL SUBDIVISION) CITY OF APOPKA, FLORIDA

VERTICAL SCALE: 1" = 4' HORIZONTAL SCALE: 1" = 40'



SHEET 53 OF 90

152

2+00

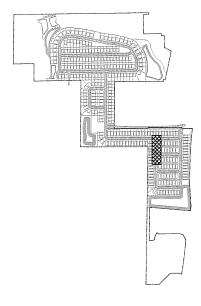
1+00

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3+00

4+00

5+00



KEY MAP

VERTICAL SCALE: 1" = 4' HORIZONTAL SCALE: 1" = 40'



SHEET 54 OF 90

ৰৰৰবৰৰবৰৰ APPIAN ENGINEERING LLC. LAKESIDE – PHASE 2 (FKA LAKE MARSHALL SUBDIVISION) CITY OF APOPKA, FLORIDA LAN & PROFILE - STREET STA. 0+00 TO STA. 5+00 FINAL DEVELOPMENT PLAN

8/2/18

E-8 TYPE 3L INLET RIM = 110.83 INV N = 106.08 INV W = 106.08 INV S = 107.20 STA. = 7+04.99 OFFSET = -17.60

RECLAIMED MAIN

8" WATER MAIN

FYE 3. INLET

FINE 106.85

FIN. 106.85

FIN. 206.55

E-7 TYPE 3R INLET RIM = 106.93 INV N = 97.91 INV SE = 97.91 INV E = 102.58 STA. = 9+16.71 OFFSET = 17.60

36 LF 18" ADS HP N -12 0 0.20%-

215 LF 36" ADS HP N -12 • 1.50%

8+'00

PROPOSED GROUND

8" GATE VALVE

SAN-MH-43

48" MANHOLE RIM = 111.72 INV N = 106.02 INV S = 104.76 INV E = 104.86 STA. = 6+39.77 OFFSET = 0.00

89 LF 18" ADS HP N -12 @ 2.18%-

6+100

6+00

E-5 TYPE 3R INLET RIM = 110.84 INV N = 101.13 INV S = 101.13 INV E = 108.01 STA. = 7+04.29 OFFSET = 17.60

7+'00

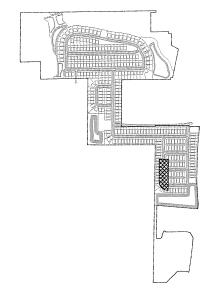
7+00

320 LF 8" PVC 0 0.28% 6 LF 36" ADS HP N -12 0 1.00%

5+'00

114.30

5+00



KEY MAP

PRESSURE PIPE NOTES PER F.A.C. RULE 62-55.314

(2) VERTICAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS, AND RECLAIMED WATER PIPELINES.

VERTICAL SCALE: 1" = 4' HORIZONTAL SCALE: 1" = 40'

SAN-MH-47 48" MANHOLE RIM = 105,49 INV NW = 100.49 INV E = 100.39 STA. = 9+72.25 OFFSET = -6.00

E-9
72" DIA MANHOLE
RIM = 105.48
INV NW = 96.91
INV E = 96.91
STA. = 9+72.25
OFFSET = 6.43

10+00

154

SAN-MH-46

40 LF 8" PVC 9 0.28%~

9+00

106.93

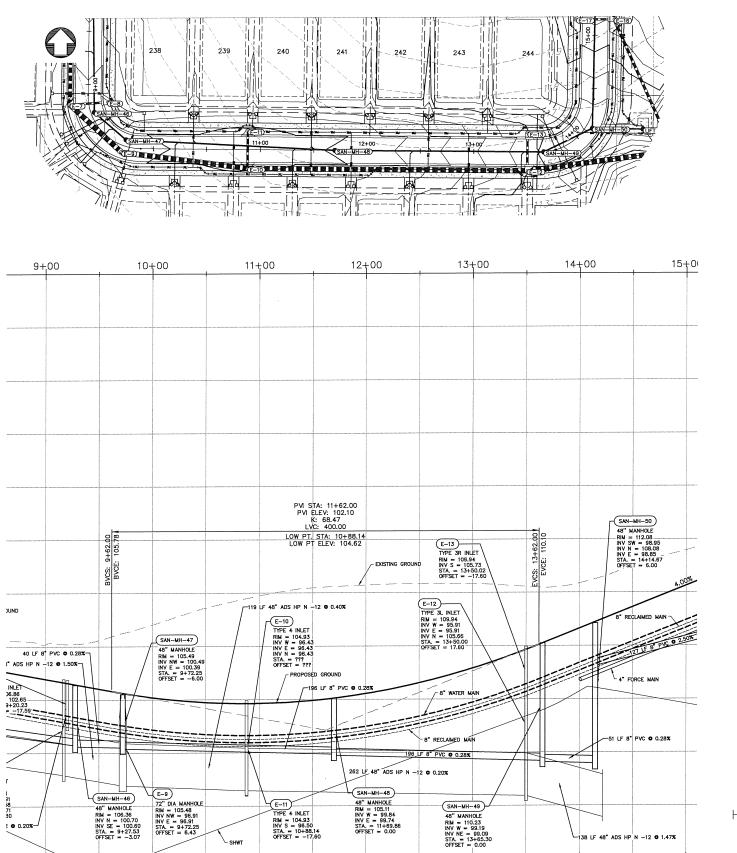
9+00

57 LF 48" ADS HP N -12 @ 1.50%-



SHEET 55 OF 90

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	PLAN & PROFILE — STREET E STA. 5+00 TO STA. 9+50 FINAL DEVELOPMENT PLAN B: CON CERA LAKE MARCHALL SIDDIVISION)	CITY OF APOPKA, FLORIDA
	SCALE DRAWN. T = 40' S. SIFR T = 40' DESIGNA PROJECT DESIGNA PROJECT O. SAWN. ROY - 001 CHECKE ROY - 001 CHECKE ROY - 01 CHECKE ROY - 01 CHECKE ROY - 01 CHECKE	C9.3 DATE:
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12+00

Station 55

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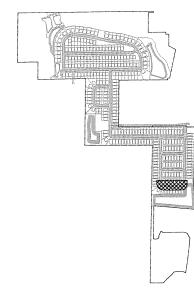
9+00

9+00

10+00

10+00

11+00



KEY MAP

PRESSURE PIPE NOTES PER F.A.C. RULE 62-55.314

VERTICAL SCALE: 1" = 4' HORIZONTAL SCALE: 1" = 40'

138 LF 48" ADS HP N -12 0 1.47%

15+0

15+00

14+00

155

13+00

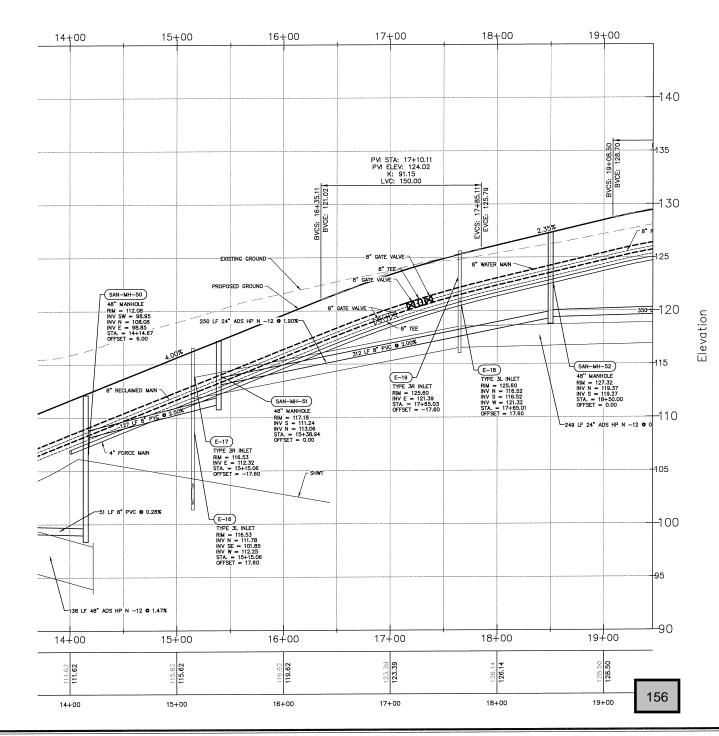
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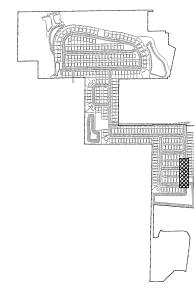
13+00



SHEET 56 OF 90

ৰৰৰৰৰৰৰৰ APPIAN ENGINEERING LLC. LAKESIDE – PHASE 2 (FKA LAKE MARSHALL SUBDIVISION) CITY OF APOPKA, FLORIDA PLAN & PROFILE — STREET STA. 9+50 TO STA. 14+00 FINAL DEVELOPMENT PLAN PROJECT ROY-C 89 19 APPIAN BENGINEERING 8/2/18





PRESSURE PIPE NOTES PER F.A.C. RULE 62-55.314

 HORIZONTAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS, RECLAIMED WATER PIPELINES, AND ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS.

> (a) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE DUTSIDE OF THE WATER MAIN AND THEOLYDISC OF ANY EXISTING OR PROPOSSEDSTORM SEWER, STORMWATER FORCE MAIN, OR PIPPLINE CONVEYING

> (b) New or relocated, underground water mains shall be laid to provide a horizontal distance of at least three feet, and preferably ten feet, between the outside of the water main and the outside of have existence of the voltage of any existing or proposed vacuum—type sanitary sewer.

(c) NEW OR RELOCATED, UNDERGROUND WATER MAINS SYALL BE LUID TO PROVIDE A HORIZONTAL DISTRICT. OF AT LEAST ISK FEET, AND PREFERRALLY THE PROVIDE A HORIZONTAL DISTRICT. OR PRESSURE—THY SANITARY SENSOR WASTEMATER PROCESS AND PREJENCE CONFINENCE FOR A WATER NOT REGULATED UNDER PART III OF CHAPTER BZ—510, FA.C. THE MINIMUM HORIZONTAL SEPARATION DISTRICT. BETWEEN MERE MAINS AND GROWN—THY DISTRICT. OF THE MINIMUM HORIZONTAL SEPARATION DISTRICT. BETWEEN MERE MAINS AND GROWN—THY DISTRICT. OF THE MINIMUM HORIZONTAL SENSOR HORIZONTAL SENSOR BY THE TOP OF THE SENSOR.

(d) NEW OR RELICATED, UNDERGROUND WARRE WARDS SPACE BE USED IN PROVIDE A HORIZONTAL DISTANCE OF AT LEAST TEN FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND ALL PARTS OF MY EXISTING OR PROPOS ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM AS DEFINED IN SECTION 381.0065(2), F.S., AND RULE 64E-6.002, F.A.C.

(2) VERTICAL SEPARATION BEHWEEN UNDERGROUND WATER MAINS AND SANITART STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS, AND RECLAIMED WATER PIPELINES.

(a) NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY DISTING OR PROPOSED GRANTY- OR VACUUL—THE SANTARY SEVER OR STORM SENER SIMLE, BE USED SO THE CATISSION OF THE WILLIAM SEVER SEVER OR SECOND THE CATISSION OF THE WILLIAM SEVER SEVER OR SECOND THE CATISSION OF THE CATISSI

(b) NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED PRESSURE—TYPE SANITARY SEWER, WASTEMATER OR STORMWATER FORCE MAIN, OR PIPELINE CONVENIOR RECLAMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES ABOVE OR BELOW THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERRALED.

(c) AT THE UTILITY CROSSINGS DESCRIBED IN PARAGRAPHS (A) AND (B) ABOVE, ONE FULL EXCRIPTION FOR WITTER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINES OF THE WITTER MAIN JOINTS WILL BE AS TAKEN THE PIPEL SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT THE PIPEL SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM—PTPE SHATINEY SKEPES, STORM SEWERS, STORMWATER FORCE MAINS, OR PIPELINES CONCEYING STORM SEWERS, STORMWATER FROLLED WINDER PART IN OF CHAPTER 26—30. FACE, AND ARTHUR RESULTED WINDER PART IN OF CHAPTER 26—30. FACE, AND ARTHUR SEWERS, MAIN SEWERS, M

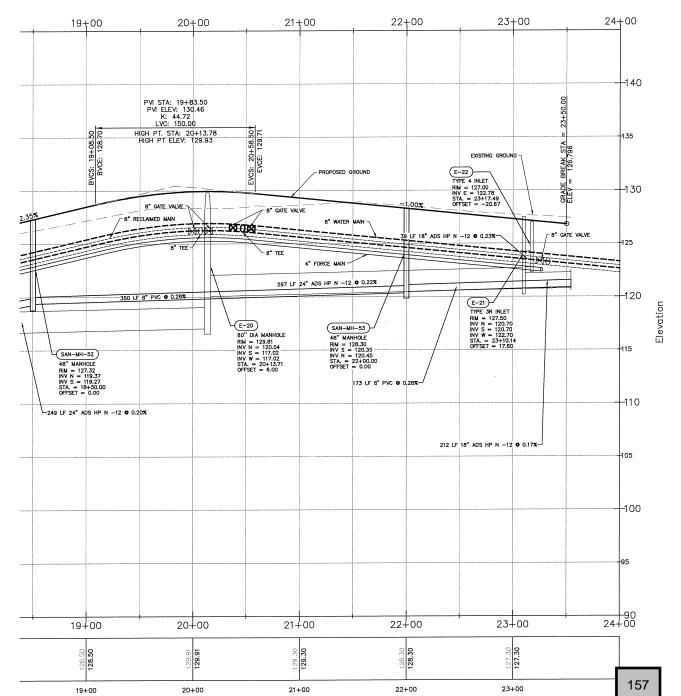
VERTICAL SCALE: 1" = 4' HORIZONTAL SCALE: 1" = 40'

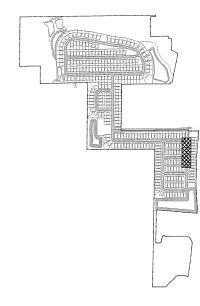


SHEET 57 OF 90

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8/2/18





PRESSURE PIPE NOTES PER F.A.C. RULE 62-55.314

(1) HORIZONTAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS, RECLAIMED WATER PIPELINES, AND ON—SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS.

(a) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THEOLYSIDE OF AMY EXISTING OF PROPOSEDISTORM SEWER, STORMWATER FORCE MAIN, OR PIELINE CONVEYNING PROPOSEDISTORM SEWER, STORMWATER FORCE MAIN, OR PIELINE CONVEYNING PROPOSEDISTORM SEWER, STORMWATER FORCE MAIN, OR PIELINE CONVEYNING THE PROPOSEDISTORM SEWER, STORMWATER FORCE MAIN, OR PIELINE CONVEYNING THE PROPOSEDISTORM SEWER.

(b) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET, AND PREFERABI TEM FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM—TYPE SANITARY SEWER.

(c) NEW OR RELOCATE, UNDERGOUND WATER MANS SHALL BE LAD TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SX FEET, AND PREFERRALLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAN HAD THE OUTSIDE OF MAY DUSTING OF PROPOSED GRAVITY—OR PRESSURE—THE SANIRAY SEWER NEGALIATED LINGER PART III OF CHAPTER 8X—810, FAC. THE INMINION HORIZONTAL SEPARATION DISTANCE ENTERS MATER MANS AND GRAVITY—THY SANIRAY SEWERS SHALL BE REDUCED TO THREE FEET WHERE THE BOTTOM FEET WATER MANS AND GRAVITY—THY BE WATER MAN IS ALD AT LESST SIX MORES AND THE TOP OF THE

(d) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST TIEN FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND ALL PARTS OF ANY EXISTING OR PROPOSE "ON—SITE SEMAGE REATHENT AND DISPOSAL STSTEM" AS DEFINED IN SECTION 381,0085(2), F.S., AND RULE 64E—6.002, F.A.C.

(2) VERTICAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS, AND RECLAIMED

(c) NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTIN OR PROPOSED FAMILTY - ON XOLUMI-TIPES SANITARY SEWER OR STORM SEWS SHALL BE LAU SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHE AND PREFERABLY 12 INCHES, ABOVE OR AT LEAST 12 INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.

(b) NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTIN OR PROPOSED PRESSURE—TYPE SANTARY SEWER, WASTEWATER OR STORMMATER PROCES MAIN, OR PIPELINE CONVENIEN RECLAIMED WATER SHALL BE LAD SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES ABOV

(c) AT THE LITLITY ERCESSINES DESCRIBED IN PARAGRAPIS (A) AND (B) ARDYC. DNE THILL ENDRH OF WARTER MAIN PIECE SMALL BE CENTERED BROVE ARREND. THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS TAK POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSING THE PIPES SMALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE STORM SEWERS, STORMARTER FORCE MAINS, OR PIPELINES CONVETING FOR THE PARAGRAPH OF THE SMATTARY SEWERS, STORMARTER FORCE MAINS, OR PIPELINES CONVETING FOR MAIN AND AT LEAST SK PEET FROM ALL JOINTS IN GRANT- OR PRESSURE—TYPE SMATTARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVETING FORCIMANS, OR PIPELINES CONVETING THE SMATTARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVETING THE RECLAUSE WASTER STORMART OF THE PERSON OF THE PARAGRAPH OF THE PERSON OF THE PERSON OF THE PARAGRAPH OF THE PERSON OF THE PARAGRAPH OF THE PERSON OF THE PARAGRAPH OF THE PARAGRAPH OF THE PARAGRAPH OF THE PARAGRAPH OF THE PERSON OF THE PARAGRAPH OF THE PARAGRAPH

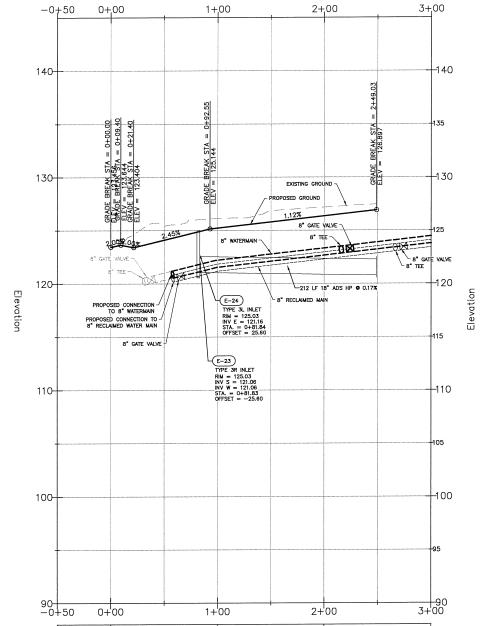
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SHEET 58 OF 90

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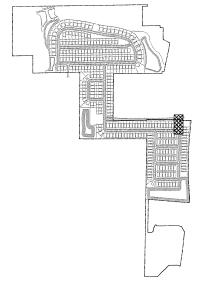


21.85. 22.82 Station

1+00

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2+00



KEY MAP

(FKA LAKE MARSHALL SUBDIVISION)
CITY OF APOPKA, FLORIDA

8/2/18

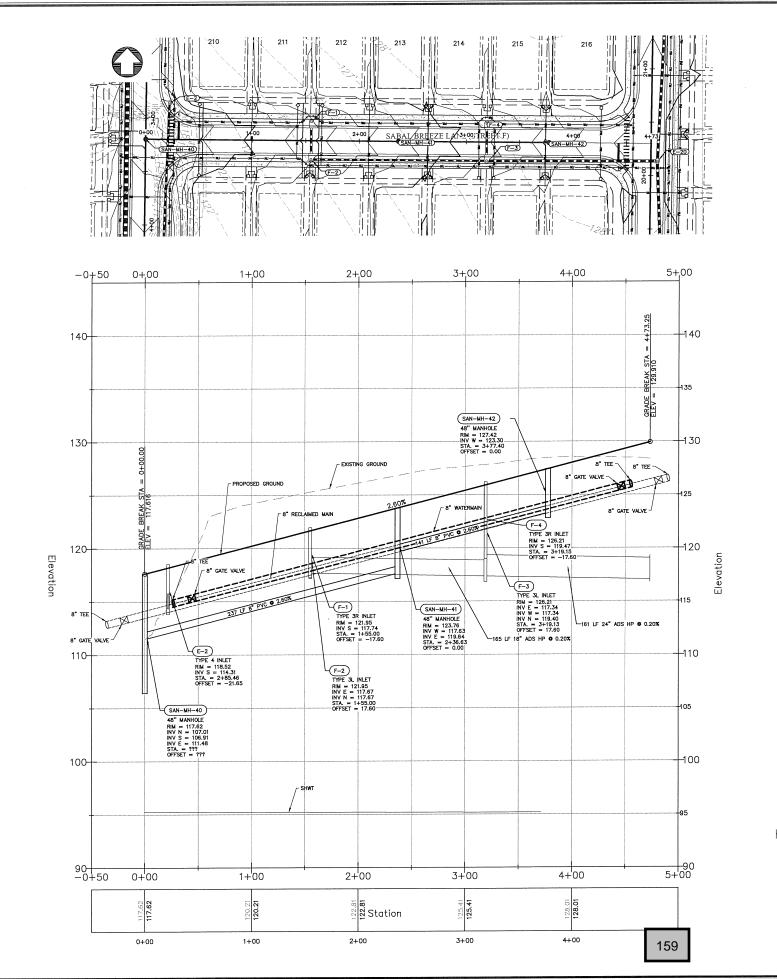
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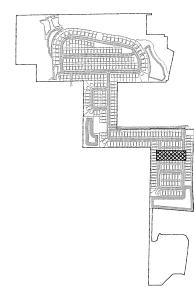
APPIAN ENGINEERING LLC.

SHEET 59 OF 90

VERTICAL SCALE: 1" = 4' HORIZONTAL SCALE: 1" = 40'

158





PRESSURE PIPE NOTES PER F.A.C. RULE 62-55.314

(1) HORIZONTAL SEPARATION BETWEEN UNDERGROUND WAIER MAINS AND SANIJA OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS, RECLAIMED WAT PIPELINES, AND ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS.

(a) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THEOUTSIDE OF ANY EXISTING OR PROPOSEDSTORM SEWER, STORMANTER FORCE MAIN, OR PIPELINE CONVEYING RECLAMBED WATER REGULATED UNDER PART III OF CHAPTER 82—810, F.A.C.

(b) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET, AND PREFERABLE TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OUTSID

(c) NEW OR RELOCATED, UNDERGROUND WATER MANS SHALL BE LIAD TO PROVIDE A HOROSTALL DESCRIPTION OF AT LEAST XFETT, AND PREFERRAL TEN FEET BETWEEN THE OUTSING OF THE WATER MAN AND THE METERSHALL TO THE METERSHALL AND THE METERSHALL TO THE METERSHALL AND THE METERSHALL THE METERSHALL AND THE METERSHALL THE ME

(d) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST TEN FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND ALL PARTS OF AMY EXISTING OR PROPOSE "ON-SITE SEAMCE TREATMENT AND DISPOSAL SYSTEM" AS DEFINED IN SECTION 381.0085(2), F.S., AND RULE 84E-6.002, F.A.C.

(2) VERTICAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANIJARY STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS, AND RECLAIMED WATER PIPELINES.

(a) NEW OR RELOCATED, UNDERGROUND WAITER MAINS CROSSING ANY EXISTIO OR PROPOSED GRANITY- OR WAZULM—TYPE SAIMTRAY SEWER OR STORM SEN SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCH AND PREFERBALT 12 INCHES, ABOVE OR AT LEAST 12 INCHES BELOOF THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.

b) NEW OR RELOCATED, UNDERGROUND WATER MANS CROSSING ANY EXISTING OR PROPOSED PRESSURE—THE SANTIARY SEMEN, WASTEMATER OF STORMANTER PROCE MAIN, OR PIPELINE CONVEYING RECLAMED WATER SHALL BE LAU SO THE CONTIDE OF THE WATER MAIN SAT LESST 12 INCHES ABOVE OR BELDW THE OUTSIDE OF THE WATER MAIN SAT LESST 12 INCHES ABOVE OR BELDW THE OUTSIDE OF THE WATER MAIN SAT LESST 12 INCHES ABOVE OR BELDW THE OUTSIDE OF THE WATER MAIN SAT LESST 12 INCHES ABOVE

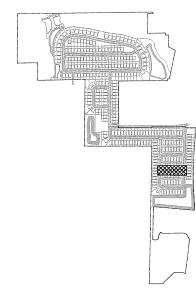
(c) AT THE UTILITY CROSSINGS DESCRIBED IN PAPAGRAPHS (A) AND (B) ASONE, ONE FULL LENGTH OF WATER MAN PIES FAMEL BE CHIEFERD ASONE BELOW THE OTHER PIPELINE SO THE WATER MAN JOINTS WILL BE AS POSSIBLE FROM THE OTHER PIPELINE ATTENTIVETY, AT SILL CROSS THE PIPELS STALL BE ARRANGED SO THAT ALL WATER MAN JOINTS ARE AT STATEMENT OF THE PIPELS OF THE PIPELS STALL BE ARRANGED SO THAT ALL WATER MAN JOINTS ARE AT STATEMENT OF THE PIPELS OF TH

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SHEET 60 OF 90

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PRESSURE PIPE NOTES PER F.A.C. RULE 62-55.314

(1) HORIZONTAL SEPARATION BETWEEN UNDERGROUND WATER WAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS, RECLAIMED WATER PIPELINES, AND ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS.

(a) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAUD TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THEEF FEET BETWEEN THE DUTSIDE OF THE WATER MAIN AND THEOUTSIDE OF ANY EMSTING OR PROPOSEDSTORM SEVER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAMBED WATER REGULATED UNDER PART IN OF CHAPTER 26-810, FA.C.

(b) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF MAY EXISTING OR PROPOSED VACUUM—TYPE SANITARY SEWER.

(c) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A PROZECTAL BUSINESS OF AT LEAST SAF PET, AND PRESENDENT AND LISTING OF PRESENDENT AND LISTING OR PROPOSED GRAVITY—OR PRESSURE—THE SMITLAY SIZE MASTEWATER PROCE MAIN, OR PRESSURE—THE SMITLAY SIZE NO FLOOR THE MINISTER AND PROCESSED OF THE MASTEWATER PROCESSED AND THE MASTEWATER AND FAIR TO CHAPTER EQ-810, FA.C. THE MINISTER ON THE MASTEWATER AND ROWN THE MASTEWATER AND ROWN THE MASTEWATER AND ROWN THE MASTEWATER MAIN IS AND CHAPTER AND THE MASTEWATER AND ROWN THE MASTEWATER MAIN IS LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER.

(d) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND ALL PARTS OF MAY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM" AS DEFINED IN SECTION 314 10058/07, PS. AMD RUIF 64F-8.002, FAC.

 YERTICAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OF STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS, AND RECLAIMED NATER PIPELINES.

(c) NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY DISTING OF PROPOSED GRAFTY—OR WOULDNI-TYPE SANTARY SERVER OR STORM SERVE SHALL BE LIAD SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SX INCHES AND PRETENDALY 12 INCHES ADMY. OR AT LEAST 12 INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ADMY. THE OTHER PIPELINE HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ADMY. THE OTHER PIPELINE.

(b) NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING MY EXISTING OR PROPOSED PRESSURE—TYPE SAMIRKY SEWER, WASTEWATER OR STORMWATER FORCE MAIN, OR PIPELINE CONVENING RECOLANDE WATER SHALL BE LIAD SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12. INCHES AGOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABL TO LLY THE WATER MAIN ABOVE THE OTHER PIPELINE.

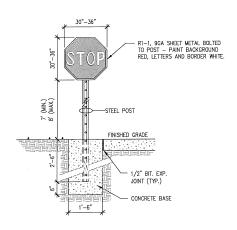
(c) AT THE UTILITY CROSSINGS DESCRIBED IN PARAGRAPHS (A) AND (B) ABOVE, DIE FÜLL LEINGTH OF WATER MAN PIES FÄHLL BE CENTRED ABOVE REGION THE OTHER PIELLINE SO THE WATER MAN JOINTS WILL BE AS PROSSIBLE FROM THE OTHER PIELLINE ALTERNATIVELY, AT SIGHE CASSISTANCE OF THE PIELLINE ALTERNATIVELY, AT SIGHE CASSISTANCE OF THE PIELLINE STORM ALL CHOINTS IN WALLIM-TYPE SANITARY SERVERS, STORM ASTERNES, STORMANDER FORCE MANN, OF PIPELINES CONCEYNING RECLAMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, FAC, AND AT LEAST SIX PEET FROM ALL JOINTS IN GRAVITT- OR PRESSIDET-TYP SANITARY SEWICS, METERATION ALL JOINTS IN GRAVITT- CON PRESSIDET-TYP SANITARY SEWICS, METERATION ALL JOINTS IN GRAVITT- OR PRESSIDET-TYP SANITARY SEWICS, WATERVALED WORD PART III OF CHAPTER 62-610, FAC, THE CASSISTENCE OF THE PART OF TH

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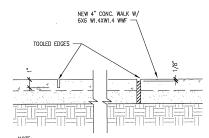


SHEET 61 OF 90

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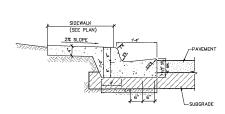


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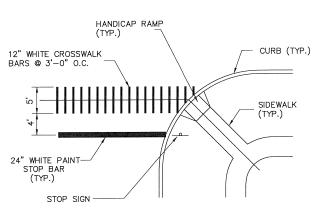


NOTE: EXPANSION JOINTS SHALL BE LOCATED AT ALL CONCRETE WALK INTERSECTIONS, AT ALL DOOR OPENINGS AND AT 12' O.C. MAXIMUM. EXPANSION JOINT (1/4" PREMOLDED ASPHALT STRIP) SHALL BE SET 1/8" BELOW TOP OF WALK. SCORE MARK (1" DEPTH) SHALL BE 4' (MAX.) O.C.

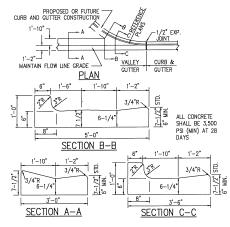
(5) CONCRETE WALK



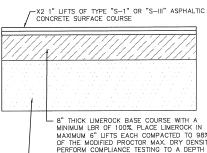
(10) MONOLITHIC CURB AND SIDEWALK (REFER TO F.D.O.T. INDEX 515) N.T.S.



INTERSECTION CROSSWALK/ STOP BAR DETAIL



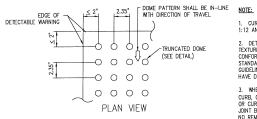
VALLEY GUTTER N.T.S. (REFER TO F.D.O.T. INDEX 300)

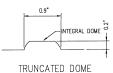


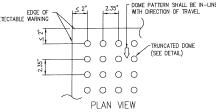
MINIMUM LBY OF 100% PLACE LIMENCY OF 18% OF OF THE MODIFIED PROCTOR MAX. DRY DENSITY. PERFORM COMPLIANCE TESTING TO A DEPTH OF 1 FOOT AT INTERVALS NOT TO EXCEED 300 FEET OR A MINIMUM OF TWO TEST LOCATIONS, MAILTIGUES OF CORP. CHEVER IS GREATER.

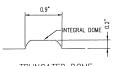
12" THICK STABILIZED SUBGRADE. SUBGRADE MATERIALS TO BE STABAILIZED TO A MINIMUM FLORIDA BEARING VALUE (FBV) OF 75 PSI OR FLORIDA BEARING VALUE (FBV) OF 75 PSI OR A LIMEROCK BEARING VALUE (LBR) OF 40%. STABALIZED SUBGRADE TO BE COMPACTED TO 98% MAX DRY DENSITY (AASHTO T—180) AND MEET REQUIREMENTS FOR FDOT TYPE B OR TYBE C STABALIZED SUBGRADE.

(11) TYPICAL PAVEMENT SECTION
N.T.S.







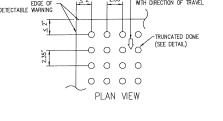


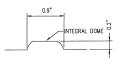
3 DETECTABLE WARNING N.T.S.

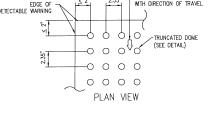
JOINT SEAL (CONC. PVMT.)

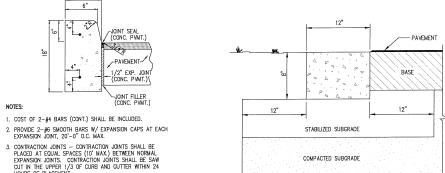
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-PAVEMENT-









RIBBON CURB (8)

1. CURB RAMP RUNNING SLOPES SHALL NOT BE STEEPER THAN 1:12 AND CROSS SLOPE SHALL BE 0.02 OR FLATTER.

2. DETECTABLE WARNING SURFACES SHALL BE CONSTRUCTED BY TEXTURING OR APPLYING A TRUNCATED DOME MATERIAL IN CONFORMANCE WITH THE U.S. DEPARTMENT OF JUSTICE A.D.A. STANDARDS FOR ACCESSIBLE DESIGN, A.D.A. ACCESSIBLITY GUIDELINES, SECTION 4.29.2. TRANSITION SLOPES ARE NOT TO HAVE DETECTABLE WARNINGS.

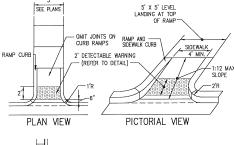
3. WHERE A CURB RAMP IS CONSTRUCTED WITHIN AN EXISTING 3. WHERE A COURD MARMER CONSTRUCTED WITHIN AN EXISTING CURB, CURB AND GUTTER AND/OR SIDEWALK, THE EXISTING CURB OR CURB AND GUTTER SHALL BE REMOVED TO THE KRAEST JOINT BEYOND THE CURB TRANSITIONS OR TO THE EXTENT THAT NO REMAINING SECTION OF CURB OR CURB AND CURTER IS LESS THAN 5'. CIN. THE EXISTING SUEWALK SHALL BE REMOVED TO THE KRAEST JOINT BEYOND THE TRANSITION SLOPE WALK AROUND OR TO THE EXISTIN THAT NO REMAINING SECTION OF SIDEWALK SHALL SET STAND THE STAND STAND

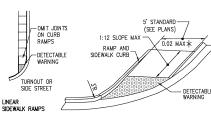
4. WHERE ADJACENT WALKING SURFACES ARE COLORED OR ARE CONSTRUCTED WITH MATERIALS OTHER THAN STANDARD CLASS I PORTLAND CEMENT CONCRETE IN ACCORDANCE WITH SECTION 522 OF THE SPECIFICATIONS, THE PLAN MUST PROVIDE FOR DETECTABLE WARNING SURFACE COLORS OR MATERIALS THAT PROVIDE THE NECESSARY CONTRAST, EITHER DARK-ON-LIGHT OR LIGHT-ON-DARK. (SAFETY YELLOW OR BRICK RED)

5. RECOMMENDED MANUFACTURER: ENGINEERED PLASTICS, INC. (ARMOR TILE) OLYMPIC TOWERS, 300 PEARL STREET, SUITE 200, BUFFALO, NY 14202. PHONE: (800) 682-2525



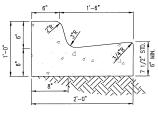
NOTE 2: CONSTRUCT RAMP TO LEAST POSSIBLE SLOPE (MAX = 1:12). CROSS SLOPE OF RAMP AND LANDING SHALL NOT EXCEED 1:50.







N.T.S.



NOTE:
WHEN USED ON HIGH SIDE OF ROADWAYS, THE CROSS
SLOPE OF THE GUITER SHALL MATCH THE CROSS SLOPE
OF THE ADJACENT PAYEMENT AND THE THICKNESS OF
THE LIP SHALL BE 6", UNLESS OTHERWISE SHOWN ON PLANS.

	6" 1'-6"	
.9	7 18 E	
٠,	7 1/2" STD 6" MIN.	
	2'-0"	
	PLAN SYMBOL	

9 TYPE "F" CURB AND GUTTER
N.T.S

LAKESIDE – PHASE 2 (FKA LAKE MARSHALL SUBDIVISION) CITY OF APOPKA, FLORIDA PLAN DEVELOPMENT F CIMLFINAL PROJECT ROY-001 0 C10. PPIAN

8/2/18

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ENGINEERING

APPIANI

APPIANFL.COM • 407.960.5868

-X2 1" TYPE "SP-9.5" ASPHALTIC CONCRETE SURFACE COURSE
8" THICK LIMEROCK BASE COURSE WITH MINIMUM LBR OF 100% PLACE LIMEROCK

7) TYPE 'D' (MIN))

1. COST OF 2-#4 BARS (CONT.) SHALL BE INCLUDED.

3. CONTRACTION JOINTS — CONTRACTION JOINTS SHALL BE PLACED AT EQUAL SPACES (10" MAX.) BETWEEN NORMAL EXPANSION JOINTS. CONTRACTION JOINTS SHALL BE SAW OUT IN THE UPPER 1/3 OF CURB AND GUTTER WITHIN 24 HOURS OF PLACEMENT.

ENDS OF VERTICAL CURB SHALL TRANSITION FROM FULL TO ZERO HEIGHTS IN 3 FEET.

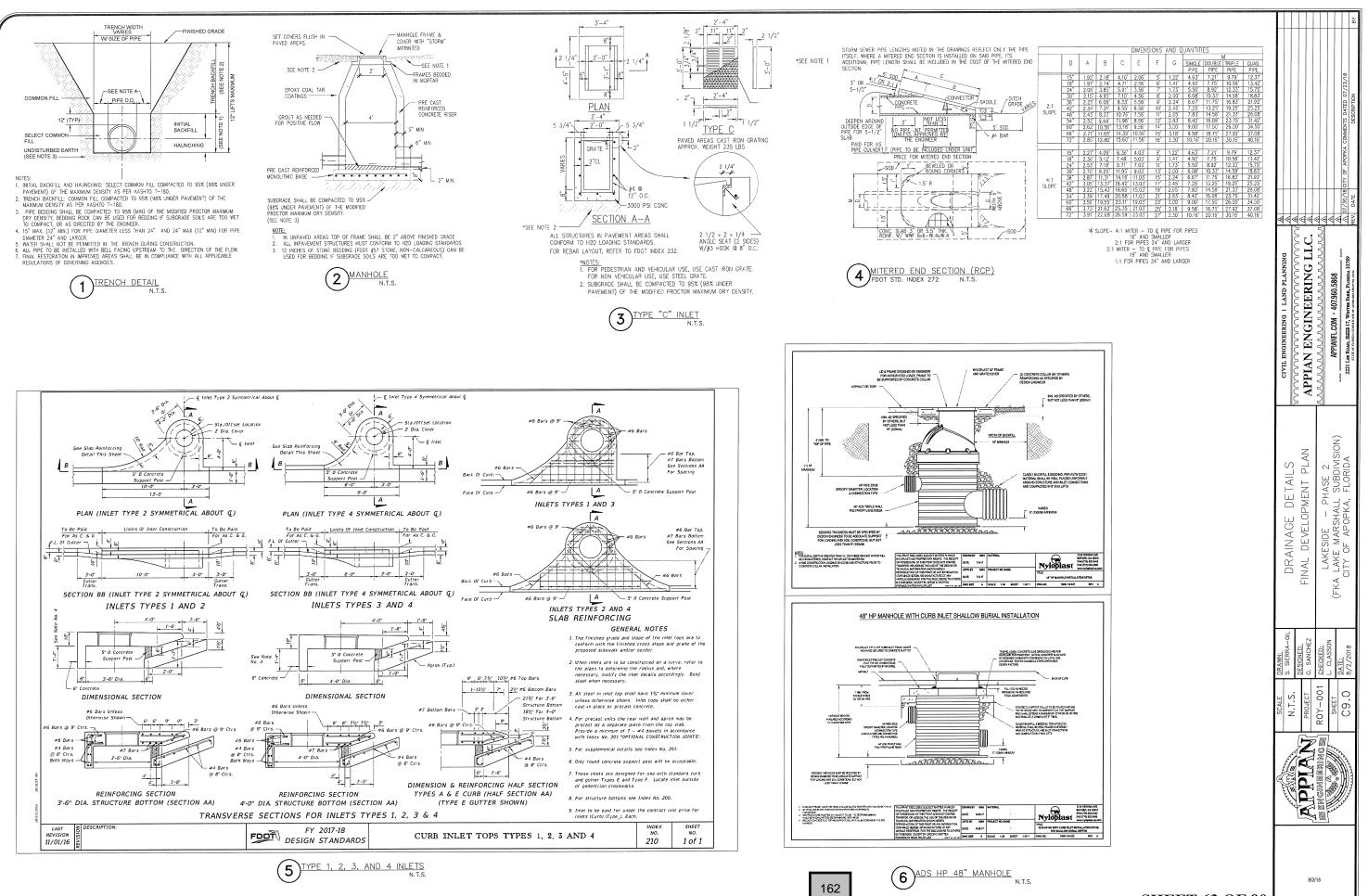
TYPE 'D' CURB

NOTES:

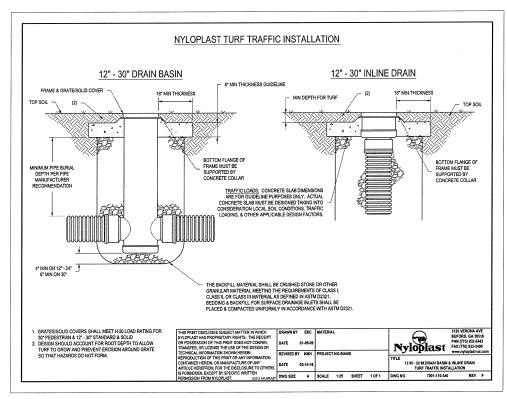
MAXIMUM 6" LIFTS EACH COMPACTED TO 98% OF OF THE MODIFIED PROCTOR MAX. DRY DENSITY.
PERFORM COMPLIANCE TESTING TO A DEPTH OF 1
FOOT AT INTERVALS NOT TO EXCEED 300 FEET
OR A MINIMUM OF TWO TEST LOCATIONS, WHICHEVER IS GREATER.

12" THICK STABILIZED SUBGRADE. SUBGRADE MATERIALS TO BE STABAILIZED TO A MINIMUM FLORIDA BEARING VALUE (FBV) OF 75 PSI OR A LIMEROCK BEARING VALUE (LBV) OF 75 PSI OR A LIMEROCK BEARING VALUE (LBR) OF 40%. STABALIZED SUBGRADE TO BE COMPACTED TO 98% MAX DRY DENSITY (AASHTO T—180) AND MEET REQUIREMENTS FOR FDOT TYPE B OR TYBE C STABALIZED SUBGRADE.

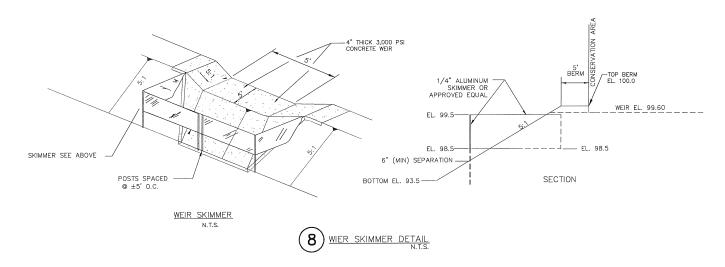
TYPICAL PAVEMENT SECTION FOR OFFSITE R.O.W. IMPROVEMENTS



SHEET 63 OF 90

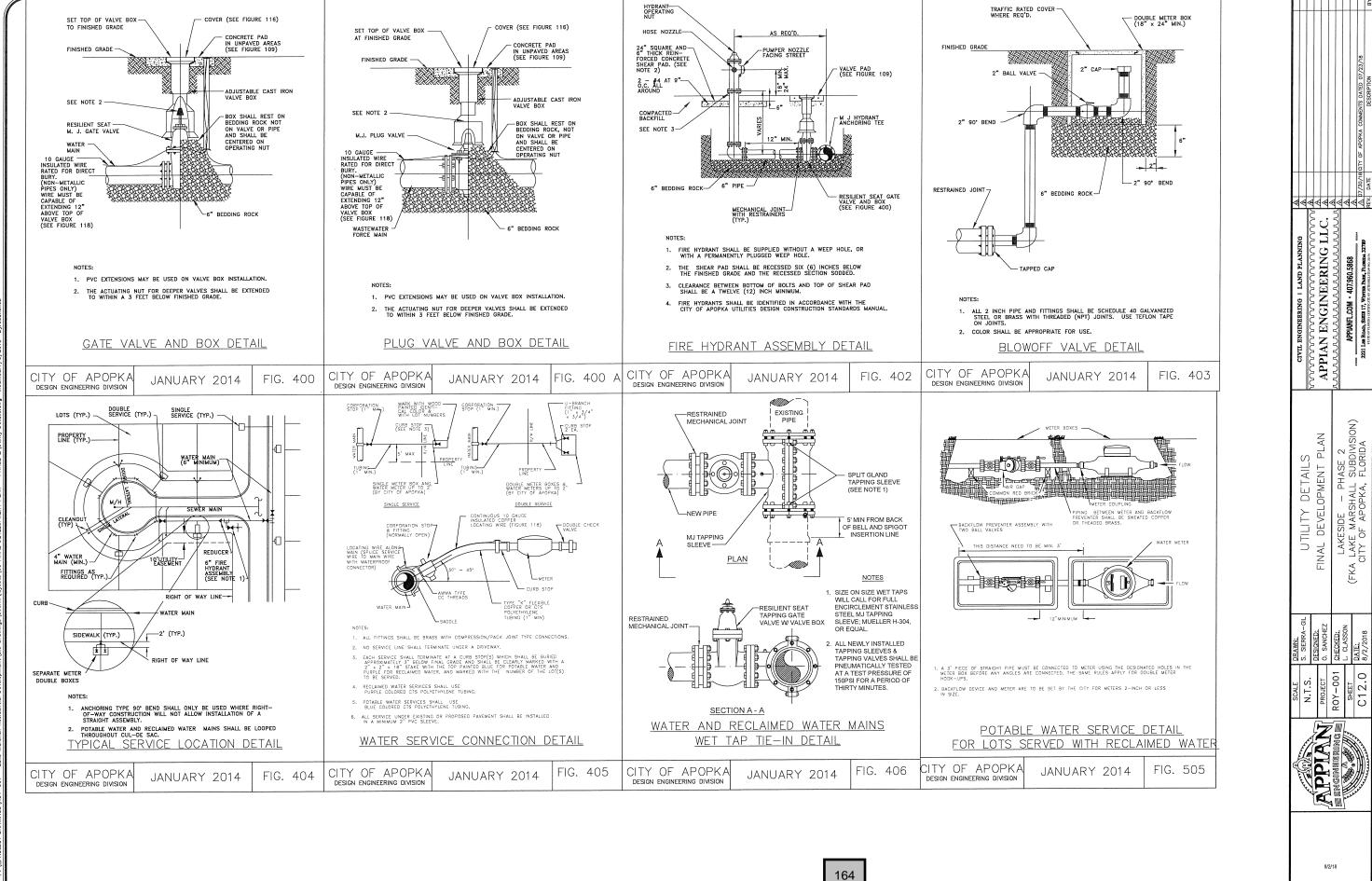


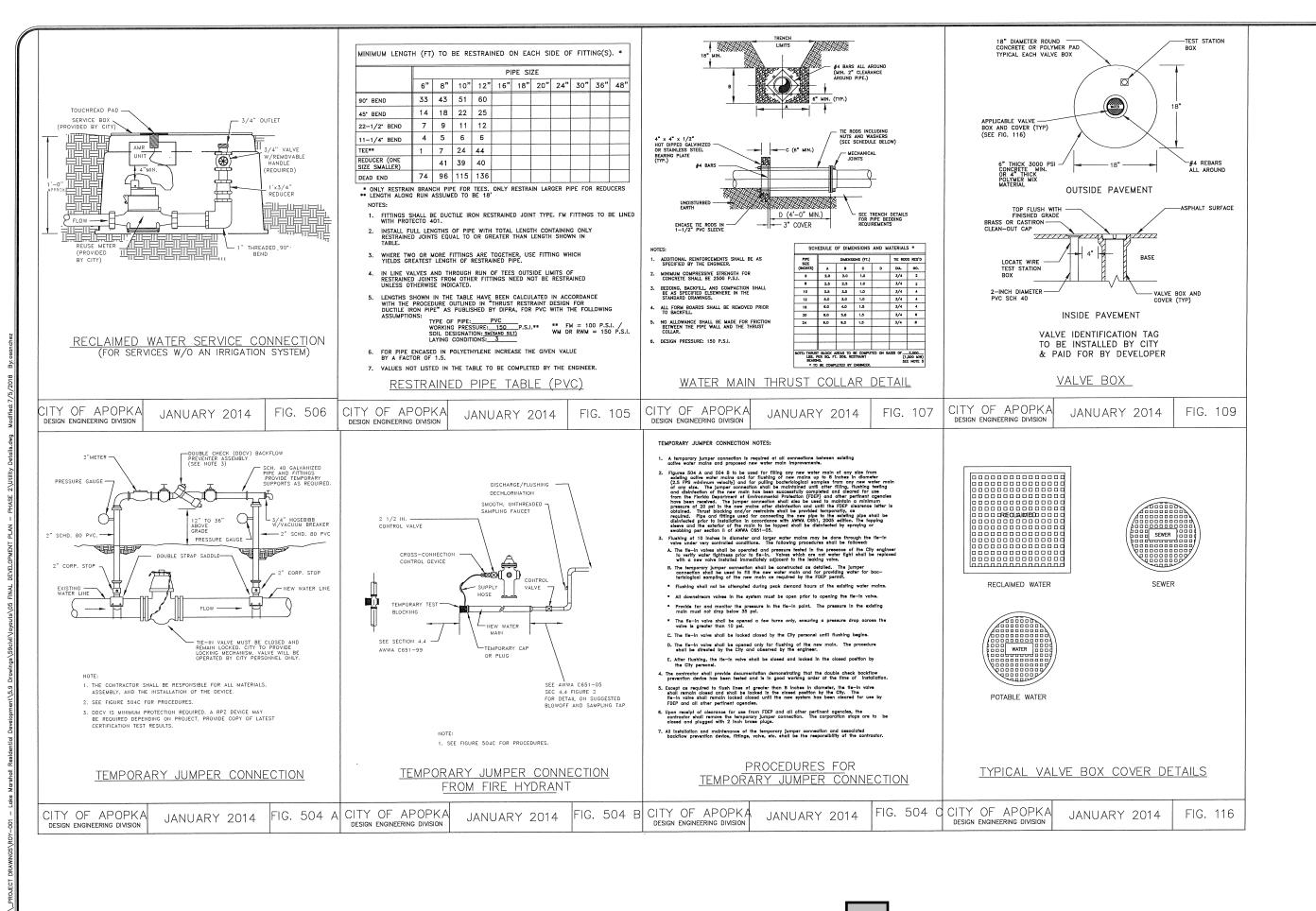




CIVIL ENGINBERING LAND PLANNING $ \hat{\mathbb{A}} $	APPIAN ENGINEERING LLC.	MULLULULULULULULULULULU A	APPIANTICOM - 407.960.5868	2221 Tar Roan, Sutts 17 Wheter Page Propert 27390	STATE OF ROBIN CERTIFICATE OF ATTENDED CANADA STATE DESCRIPTION			
DRAINAGE DETAILS	Z	LAKFSIDF - PHASF 2	(FKA LAKF MARSHALL SURDIVISION)	CITY OF APOPKA, FLORIDA				
DRAWN: S. SIERRA-GIL	<u>DESIGNED:</u> 0. SANCHEZ	CHECKED:	L. CLASSON	DATE:	0/2/2010			
SCALE	PROJECT	ROY-001	SHEET	C111				
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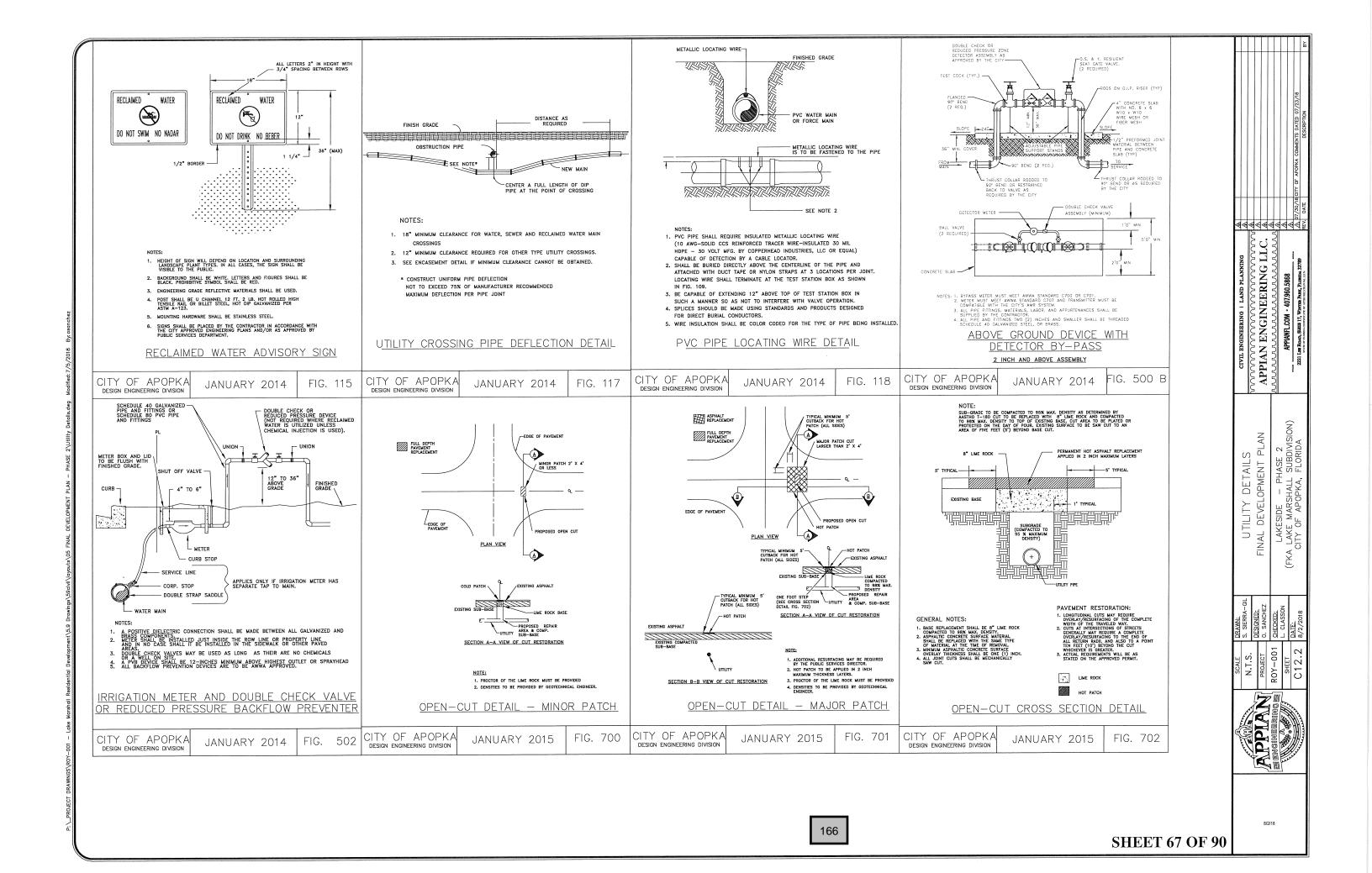
FINAL

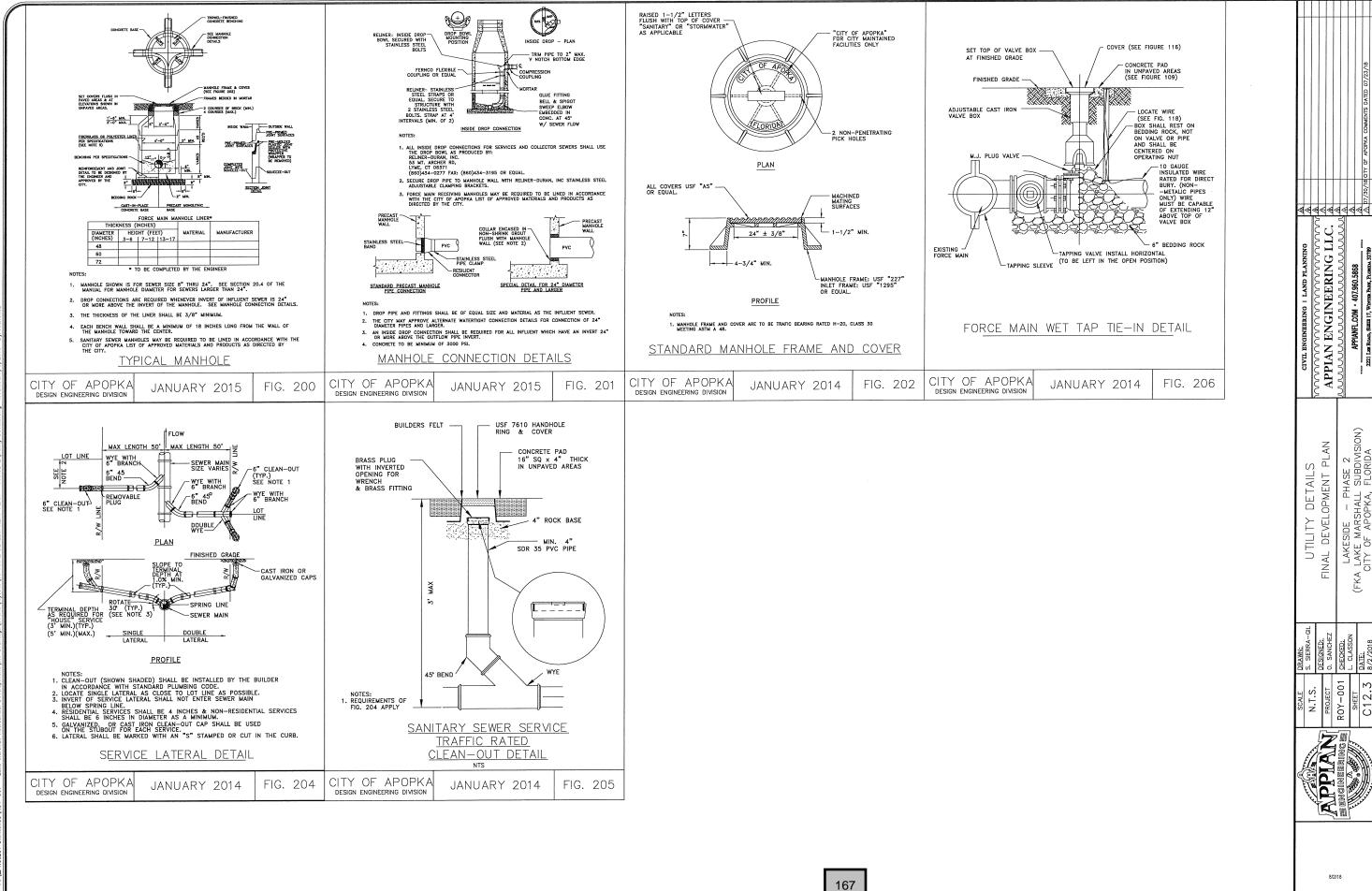
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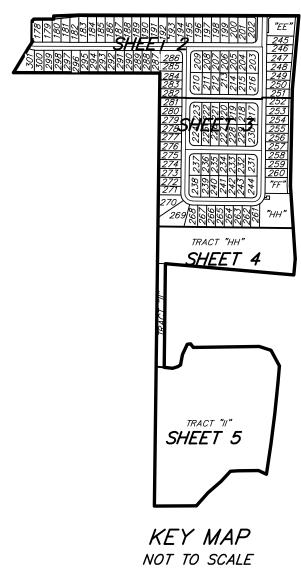
A TRACT OF LAND, BEING THE LANDS DESCRIBED IN THAT CERTAIN SPECIAL WARRANTY DEED, AS RECORDED IN DOCUMENT # 20180371602, DOCUMENT # 20180371656 AND TRACT "Z", LAKESIDE PHASE I, ACCORDING TO THE PLAT THEREOF, A'S RECORDED IN PLAT BOOK PAGES THROUGH , PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA, LYING IN SECTION 8 AND 17, TOWNSHIP 21 SOUTH, RANGE 28 EAST BEING DESCRIBED AS FOLLOWS:

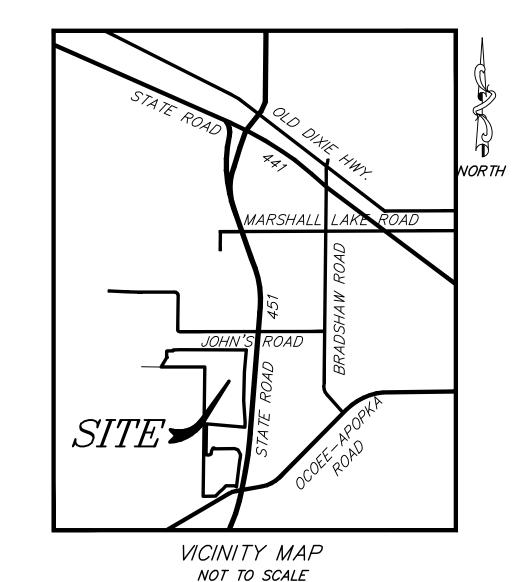
COMMENCE AT THE NORTHEAST CORNER OF TRACT "A", BRECKENRIDGE PHASE I, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 64, PAGES 74 THROUGH 81 OF SAID PUBLIC RECORDS, FOR A POINT OF BEGINNING; THENCE RUN NORTH 89°49'08" WEST, ALONG THE NORTH LINE OF SAID TRACT "A", A DISTANCE OF 910.14 FEET TO THE SOUTHWEST CORNER OF SAID TRACT "Z": THENCE DEPARTING SAID NORTH LINE. RUN ALONG THE WESTERLY AND NORTHERLY LINES OF SAID TRACT "Z". THE FOLLOWING 8 COURSES: THENCE RUN NORTH 31"15'18" EAST. 176.46 FEET: THENCE RUN NORTH 31"48'11" EAST. 50.00 FEET TO A POINT LYING ON A NON-TANGENT CURVE, CONCAVE NORTHEASTERLY; THENCE RUN NORTHWESTERLY, ALONG SAID NON-TANGENT CURVE, HAVING A RADIUS OF 25.00 FEET, A CENTRAL ANGLE OF 05"19'52". AN ARC LENGTH OF 2.33 FEET. A CHORD LENGTH OF 2.33 FEET AND A CHORD BEARING OF NORTH 55°31'53" WEST; THENCE RUN NORTH 00°15'51" EAST. NON-TANGENT TO SAID CURVE. 127.37 FEET: THENCE RUN NORTH 45"10'52" EAST. 15.00 FEET; THENCE RUN SOUTH 89°49'08" EAST, 124.41 FEET; THENCE RUN NORTH 00°15'51" EAST, 20.00 FEET TO A POINT LYING ON THE SOUTH RIGHT-OF-WAY LINE OF JOHN'S ROAD: THENCE RUN ALONG SAID SOUTH RIGHT-OF-WAY LINE, THE FOLLOWING COURSES; NORTH 87°35'15" EAST, 154.70 FEET; SOUTH 89°49'08" EAST, 1165.19 FEET SOUTH 89°49'08" EAST. 203.84 FEET TO A POINT LYING ON THE WESTERLY LIMITED ACCESS RIGHT-OF-WAY LINE OF STATE ROAD 451. PER ORLANDO ORANGE COUNTY EXPRESSWAY AUTHORITY RIGHT-OF-WAY MAP. PROJECT NO. 75320-6460-604: THENCE RUN ALONG SAID WESTERLY LIMITED ACCESS RIGHT-OF-WAY LINE, THE FOLLOWING COURSES; SOUTH 05°01'30" WEST, 458.73 FEET; THENCE RUN SOUTH 01"12'39" WEST, 601.33 FEET; THENCE RUN SOUTH 03°49'01" EAST, 455.41 FEET; THENCE RUN SOUTH 05°01'32" WEST, 100.00 FEET; THENCE RUN NORTH 84°58'30" WEST, 801.32 FEET; THENCE RUN SOUTH 00°41'49" WEST, 645.63 FEET; THENCE RUN SOUTH 84°44'22" EAST, 52.19 FEET; THENCE RUN NORTH 73°48'49" EAST, 33.59 FEET; THENCE RUN NORTH 57°29'34" EAST, 21.16 FEET; THENCE RUN NORTH 10°24'19" EAST, 64.61 FEET; THENCE RUN NORTH 24°10'37" EAST, 70.40 FEET; THENCE RUN NORTH 81°03'59" EAST, 21.54 FEET; THENCE RUN SOUTH 37°36'17" EAST, 28.32 FEET; THENCE RUN NORTH 89°07'43" EAST, 410.24 FEET; THENCE RUN SOUTH 71°49'00" EAST, 76.48 FEET; THENCE RUN SOUTH 28°05'31" EAST, 110.79 FEET; THENCE RUN SOUTH 05°01'30" WEST, 104.77 FEET TO THE POINT OF CURVATURE OF A CURVE, CONCAVE NORTHWESTERLY; THENCE RUN SOUTHWESTERLY ALONG SAID CURVE, HAVING A RADIUS OF 7449.44 FEET, A CENTRAL ANGLE OF 4°24'25.92", AN ARC LENGTH OF 573.01 FEET, A CHORD LENGTH OF 572.87 FEET AND A CHORD BEARING OF SOUTH 07"13'43" WEST: THENCE DEPARTING SAID WESTERLY LIMITED ACCESS RIGHT-OF-WAY LINE. RUN NORTH 65'58'01" WEST. NON-RADIAL TO SAID CURVE, 53.13 FEET: THENCE RUN SOUTH 89°43'43" WEST, 127.30 FEET; THENCE RUN SOUTH 86°22'15" WEST, 46.83 FEET; THENCE RUN SOUTH 43"11'29" WEST, 86.25 FEET; THENCE RUN SOUTH 48"18'50" WEST, 106.63 FEET; THENCE RUN SOUTH 42°29'39" WEST, 110.25 FEET TO A POINT LYING ON THE SOUTH LINE OF THE NORTHEAST QUARTER OF AFORESAID SECTION 17; THENCE RUN SOUTH 89°43'17" WEST, ALONG SAID SOUTH LINE, 259.84 FEET TO A POINT LYING ON THE EAST LINE OF AFORESAID TRACT "A"; BRECKENRIDGE PHASE I; THENCE RUN NORTH 00°42'01" EAST, ALONG SAID EAST LINE, 2692.21 FEET TO THE POINT OF BEGINNING.

THE ABOVE DESCRIBED TRACT OF LAND LIES IN THE CITY OF APOPKA, ORANGE COUNTY, FLORIDA AND CONTAINS 49.807 ACRES MORE OR LESS.

SURVEYOR'S NOTES:

- (1) BEARINGS SHOWN HEREON ARE RELATIVE TO THE FLORIDA STATE PLANE COORDINATE SYSTEM 1983 EAST ZONE, BASED ON GPS WITH L-NET CORRECTIONS. THE MONUMENTED SOUTH LINE OF THE SOUTHWEST QUARTER OF SECTION 8, TOWNSHIP 21 SOUTH, RANGE 28 EAST. BEING NORTH 89°49'08" WEST.
- (2) -■- DENOTES A PERMANENT REFERENCE MONUMENT (P.R.M.) A SET 4" X 4" CONCRETE MONUMENT STAMPED PRM. LS. # 4044, UNLESS OTHERWISE NOTED.
- (3) DENOTES A PERMANENT CONTROL POINT (P.C.P.) A SET NAIL AND DISK STAMPED PCP LS. # 4044.
- (4) ALL PLATTED UTILITY EASEMENTS SHALL PROVIDE THAT SUCH EASEMENTS SHALL ALSO BE EASEMENTS FOR THE CONSTRUCTION, INSTALLATION, MAINTENANCE, AND OPERATION OF CABLE TELEVISION SERVICES: PROVIDED, HOWEVER, NO SUCH CONSTRUCTION, INSTALLATION, MAINTENANCE, AND OPERATION OF CABLE TELEVISION SERVICES SHALL INTERFERE WITH THE FACILITIES AND SERVICES OF AN ELECTRIC. TELEPHONE. GAS, OR OTHER PUBLIC UTILITY. IN THE EVENT A CABLE TELEVISION COMPANY DAMAGES THE FACILITIES OF A PUBLIC UTILITY. IT SHALL BE SOLELY RESPONSIBLE FOR THE DAMAGES.
- (5) ALL LINES INTERSECTING CURVES ARE RADIAL UNLESS OTHERWISE NOTED (N.R.).
- (6) TRACT "AA", (LANDSCAPE BUFFER AND WALL), AND TRACTS "BB" AND "CC", (LANDSCAPE BUFFER) SHALL BE OWNED AND MAINTAINED BY THE LAKESIDE APOPKA HOMEOWNERS ASSOCIATION, INC.
- (7) TRACT "DD" (PRIVATE RIGHT-OF-WAY), SHALL BE OWNED AND MAINTAINED BY THE LAKESIDE APOPKA HOMEOWNERS ASSOCIATION. INC.
- (8) TRACTS "EE" AND "FF" (PARK/OPEN SPACE), SHALL BE OWNED AND MAINTAINED BY THE LAKESIDE APOPKA HOMEOWNERS ASSOCIATION. INC.
- (9) TRACT "GG" (LIFT STATION), SHALL BE OWNED AND MAINTAINED BY THE THE LAKESIDE APOPKA HOMEOWNERS ASSOCIATION, INC.
- (10) TRACT "HH" (DRY POND), SHALL BE OWNED AND MAINTAINED BY THE LAKESIDE APOPKA HOMEOWNERS ASSOCIATION. INC.
- (11) TRACT "II" (CONSERVATION AREA), SHALL BE OWNED AND MAINTAINED BY THE LAKESIDE APOPKA HOMEOWNERS ASSOCIATION. INC.. WITH DEVELOPMENT RIGHTS DEDICATED TO THE CITY OF APOPKA. FLORIDA. NO CONSTRUCTION, CLEARING, GRADING OR ALTERATION OF TRACT "II" IS ALLOWED UNLESS APPROVED BY THE CITY OF APOPKA AND THE OTHER APPLICABLE JURISDICTIONAL AGENCIES. TRACT "II" IS SUBJECT TO A CONSERVATION EASEMENT IN FAVOR OF THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT PURSUANT TO SECTION 704.06, FLORIDA STATUTES, TO BE DEDICATED BY SEPARATE INSTRUMENT IN THE PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA
- (12) THE 20.00 FOOT WIDE ACCESS EASEMENT IS DEDICATED TO THE CITY OF APOPKA AND THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT.





BOOK

LAKESIDE PHASE II

DEDICATION

KNOWN ALL MEN BY THESE PRESENTS, That the limited liability company named below, being the owner in fee simple of the lands described in the foregoing caption to this plat, hereby dedicates said lands and plat for the uses and purposes therein expressed and dedicates easements to the perpetual use of the public.

Also dedicates a 20.00 foot wide access easement to the City of Apopka and St. Johns River Water Management District.

IN WITNESS WHEREOF, Avatar Properties Inc., a Florida corporation, has caused this Dedication to be executed in its name by the below-named officer thereunto duly authorized this ____ day of ____

Signed, sealed and delivered in the presence of the following two witnesses:

> AVATAR PROPERTIES INC. a Florida corporation

> > Division President

Ken Thirtyacre

Print Name: (Witness)

STATE OF FLORIDA

COUNTY OF _____

THIS IS TO CERTIFY that the foregoing Dedication was acknowledged before me this ____ day of ______, 2018, by Ken Thirtyacre, as Division President of Avatar Properties Inc., a Florida corporation. Said person did not take an oath and is personally known to me or has produced the following identification

Notary Public - State of Florida Commission No. My Commission Expires: _

CERTIFICATE OF SURVEYOR AND MAPPER

KNOWN ALL MEN BY THESE PRESENTS, that the undersigned, being a licensed and registered surveyor and mapper, does hereby certify that or

a survey of the lands shown in the foregoing plat was completed; that said plat is a true and correct representation of the lands surveyed, that the plat was prepared under my responsible direction and supervision, and that this plat complies with all the survey requirements of Chapter 177 and Chapter 95.361, Florida Statutes.

Surveyor's Signature LS 4044 Surveyor's Registration Number David A. White LB 7808 Surveyor's Name (printed) Certificate of Authorization Number

PEC - Surveying and Mapping, LLC 2100 Alafaya Trail, Suite 203, Oviedo, Florida, 32765

CERTIFICATE OF REVIEW BY CITY SURVEYOR

This plat has been reviewed for conformity with Chapter 95.361 and Chapter 177, Florida Statutes, as is appropriate.

Ralph A. Nieto, LS 6025

CERTIFICATE OF APPROVAL BY APOPKA PLANNING COMMISSION

THIS IS TO CERTIFY, that on _____, 2018 the undersigned approved the foregoing plat.

CERTIFICATE OF APPROVAL BY THE MAYOR

THIS IS TO CERTIFY, that on _____, 2018 the undersigned approved the foregoing plat.

Bryan Nelson, Mayor of the City of Apopka

Linda F. Goff, City Clerk

CERTIFICATE OF APPROVAL BY CITY ENGINEER

THIS IS TO CERTIFY, that on ______, 2018 the undersigned approved the foregoing plat.

Richard W. Earp, City Engineer

CERTIFICATE OF COUNTY COMPTROLLER

HEREBY CERTIFY, that the foregoing plat was recorded in the Orange County Official Records on

Comptroller in and for Orange County, Florida

<u>LEGEND</u>

- POINT OF BEGINNING OFFICIAL RECORDS BOOK

– PAGE(S) SEC. SECTION RADIAL - RIGHT-OF-WAY LICENSED SURVEYOR

- LICENSED BUSINESS PERMANENT REFERENCE MONUMENT CONCRETE MONUMENT

- RETAINING WALL MAINTENANCE EASEMENT R.W.M. UTILITY EASEMENT

 LANDSCAPE EASEMENT - UTILITY AND DRAINAGE EASEMENT POINT OF CURVATURE POINT OF TANGENCY

- PLAT BOOK NON—RADIAL - FORMERLY KNOWN AS F.K.A. POINT OF INTERSECTION TYPICAL

WALL MAINTENANCE EASEMENT

"THIS PLAT. AS RECORDED IN ITS GRAPHIC FORM. IS THE OFFICIAL DEPICTION OF THE SUBDIVIDED LANDS DESCRIBED HEREIN AND WILL IN NO CIRCUMSTANCES BE SUPPLANTED IN AUTHORITY BY ANY OTHER GRAPHIC OR DIGITAL FORM OF THE PLAT.

THERE MAY BE ADDITIONAL RESTRICTIONS THAT ARE NOT RECORDED ON THIS PLAT THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY."



SURVEYING AND MAPPING, LLC

CERTIFICATE OF AUTHORIZATION NUMBER LB 7808 2100 Alafaya Trail, Suite 203 • Oviedo, Florida 32765 • 407-542-4967

LAKESIDE PELASE II **BOOK** PAGE A REPLAT REPLATTING TRACT "Z", LAKESIDE PHASE I RECORDED IN PLAT BOOK ___, PAGES _____ SECTIONS 8 AND 17, TOWNSHIP 21 SOUTH, RANGE 28 EAST CITY OF APOPKA, ORANGE COUNTY, FLORIDA -APPROXIMATE MAINTAINED -APPROXIMATE MAINTAINED RIGHT-OF-WAY RIGHT-OF-WAY RIGHT-OF-WAY AGREEMENT-RIGHT-OF-WAY AGREEMENT-JOHN'S ROAD (F.K.A. MASICK ROAD) (O.R.B. 1981, PG. 296) (O.R.B. 1981, PG. 295) (P.B. 95, PG. 5) (R/W WIDTH VARIES) -SOUTH R/W LINE, JOHN'S ROAD (P.B. ___, PGS. ___ - ___) (O.R.B. 1981, PG. 295) N87°35'15"E 154.70' -SOUTH R/W LINE, JOHN'S ROAD S89°49'08"E 1165.19 *\$89°49'08"E 203.84'* . *=55.00'*= S89°49'08"E 1090.84 7.50' U.D.E. 7.50' U.D.E. ~N45′42′01″E **TRACT "BB"**~ 15.00' (LANDSCAPE BUFFER) TRACT "EE" (PARK/OPEN SPACE) 00: 75,0 187 188 189 190 202 R=25.00' −∆ =519'52**"** L=2.33' 5.00' L.E. (TYP) - 10.00' U.E. (TYP) 5.00' L.E. (TYP) - 10.00' U.E. (TYP) C=2.33'55.00° 55.00 55.00' 55.00' 55.00 55.00' | 40.23' 55.00° 55.00' LAKESIDE ESTATES DRIVE LAKESIDE ESTATES DRIVE S89°49'08"E TRACT "DD" TRACT "DD" (PRIVATE RIGHT-OF-WAY) 468.27 S89'49'08"E (PRIVATE RIGHT-OF-WAY) S89°49'08"E 5.00' U.D.E. 60.00' *55.00*′ _ *55.00* ′ __ *55.00* ′__ _55.00° 10.00' U.E. (TYP) 10.00' U.E. (TYP) 5.00' L.E. (TYP) 297 293 207 2 206 2 **292** 291 290 289 288 205 -155.*32*1 204 ⊣7.50' U.D.E. | | | 10.00' R.W.M −*S8917'59"E* − -*N8917'59"W* -S89°17'59"E 130.14° — — 60.00 -140.00**'**--_74.13'_____55.00'_ _55.00°_ N89°49'08"W ___*55.00*′_ __55.00**'**_ NORTH LINE, TRACT "A", (P.B. 64, PGS. 74-81) ___*74.13*'_ TRACT "A" LANDSCAPE BUFFER BRECKENRIDGE PHASE I NE. CORNER, TRACT "A" (P.B. 64, PGS. 74–81) (P.B. 64, PGS. 74–81) — N8917'59"W -(P.B. 64, PGS. 74–81) 213 ,00°52. 210 214 7 20 215 -*S8917'59"E* --1*40.00* ′ - 10.00' U.E. (TYP) -142.88**'**-282 55.00° N8917'59"W *373.25* ' *473.25* ' SABAL BREEZE LANE (PRIVATE RIGHT-OF-WAY) TRACT "DD" -140.00**'**-- *-142.39'-*SEE SHEET 3 OF 5 252 281 CURVE TABLE CURVE RADIUS DELTA LENGTH CHORD CH. BEARING C-1 50.00' 31'37'19" 27.60' 27.25' \$74'00'29"E C-2 50.00' 90'00'00" 78.54' 70.71' \$1.00'29"E C-3 50.00' 90'00'00" 78.54' 70.71' \$44'17'59"E C-4 25.00' 31'37'19" 13.80' 13.62' \$74'00'29"E C-5 25.00' 89'28'51" 39.04' 35.19' \$1.00'29'E C-6 75.00' 90'00'00" 117.81' 106.07' \$1.00'29'E C-7 75.00' 90'00'00" 117.81' 106.07' \$44'17'59"E C-8 25.00' 90'31'09" 39.50' 35.52' \$44'33'34"E C-9 75.00' 31'37'19" 41.39' 40.87' \$74'00'29"E C-10 25.00' 89'28'51" 39.04' 35.19' \$1.45'26'26"E C-11 25.00' 90'31'09" 39.50' 35.52' SCALE 1"=60' C-11 25.00' 90'31'09" 39.50' 35.52' \$44'33'34"E C-12 25.00' 90'00'00" 39.27' 35.36' \$45'42'01"W C-13 25.00' 90'00'00" 39.27' 35.36' N44'17'59"W C-14 25.00' 90'00'00" 39.27' 35.36' N45'42'01"E C-15 25.00' 90'00'00" 39.27' 35.36' \$44'17'59"E C-16 25.00' 90'00'00" 39.27' 35.36' \$45'42'01"W C-17 25.00' 90'00'00" 39.27' 35.36' \$45'42'01"W 7-17 25.00' 90'00'00" 39.27' 35.36' N44'17'59"W -18 25.00' 90'00'00" 39.27' 35.36' N45'42'01"E -19 25.00' 90'00'00" 39.27' 35.36' S44'17'59"E 7-20 25.00' 90'00'00" 39.27' 35.36' \$45'42'01"W 7-21 25.00' 90'00'00" 39.27' 35.36' \$45'42'01"W 7-22 25.00' 36'57'11" 16.12' 15.85' \$71'20'33"E 7-23 25.00' 36'21'03" 15.86' 15.60' \$N72'00'21"E 7-24 25.00' 53'07'48" 23.18' 22.36' \$N27'15'55"E 269 897 197 269 897 197 269 897 197 SHEET 4 C-24 25.00' 53'07'48" 23.18' 22.36' N27'15'55"E C-25 75.00' 17'26'08" 22.82' 22.73' N09'25'04"E C-26 75.00' 8'11'31" 10.72' 10.71' N22'13'54"E C-27 75.00' 28'32'19" 37.36' 36.97' N40'35'48"E C-28 75.00' 35'50'03" 46.91' 46.15' N72'46'59"E C-29 75.00' 14'18'26" 18.73' 18.68' \$82'08'46"E C-30 75.00' 36'31'09" 47.80' 47.00' \$56'43'59"F 75.00' 36'31'09" 47.80' 47.00' \$56'43'59"E 75.00' 28'25'09" 37.20' 36.82' \$24'15'50"E -32 75.00' 10'45'16" 14.08' 14.06' \$04'40'37"E -33 75.00' 0'11'59" 0.26' 0.26' \$89'43'08"E -34 75.00' 31'25'20" 41.13' 40.62' \$73'54'29"E SHEET 5



SURVEYING AND MAPPING, LLC

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KEY MAP NOT TO SCALE

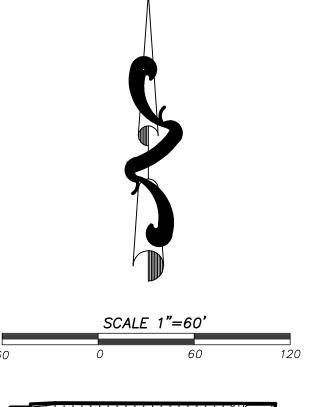
LAKESIDE PELASE II

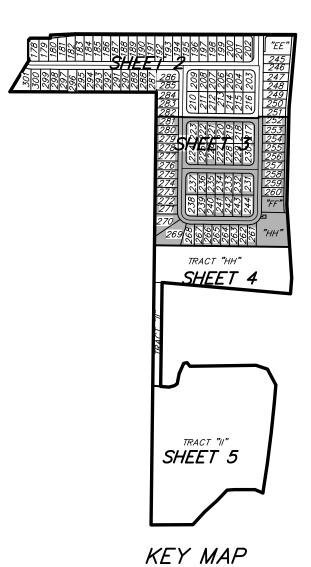
BOOK

PAGE

A REPLAT

REPLATTING TRACT "Z", LAKESIDE PHASE I
RECORDED IN PLAT BOOK ___, PAGES _____
SECTIONS 8 AND 17, TOWNSHIP 21 SOUTH, RANGE 28 EAST
CITY OF APOPKA, ORANGE COUNTY, FLORIDA





LINE TABLE							
LINE	BEARING	LENGTH					
L-1	N88°48'13"W	12.42'					
L-2	S01'11'47"W	10.00'					
L-3	N88°48'13"W	20.00'					
L-4	S01'11'47"W	20.00'					
L-5	N88°48'13"W	36.27'					

NOT TO SCALE

		CUR	VE TABLE		
CURVE	RADIUS	DEL TA	LENGTH	CHORD	CH. BEARING
C-1	50.00°	<i>31'37'19"</i>	27.60'	27.25	S74'00'29"E
C-2	50.00°	90'00'00"	78.54°	70.71	N45°42'01"E
C-3	50.00°	90'00'00"	78.54°	70.71	S4417'59"E
C-4	25.00°	<i>31°37'19"</i>	13.80'	13.62'	S74'00'29"E
C-5	25.00°	89°28'51"	39.04	<i>35.19</i> ′	N45'26'26"E
C-6	75.00°	90°00'00"	117.81	106.07	N45°42'01"E
C-7	75.00'	90°00'00"	117.81	106.07'	S44°17'59"E
C-8	25.00°	90'31'09"	39.50'	35.52'	S44'33'34"E
C-9	75.00'	<i>31°37'19"</i>	41.39'	40.87'	S74'00'29"E
C-10	25.00°	89°28'51"	39.04'	<i>35.19</i> ′	N45°26'26"E
C-11	25.00°	90'31'09"	39.50'	35.52'	S44'33'34"E
C-12	25.00'	90'00'00"	39.27'	<i>35.36</i> ′	S45'42'01"W
C-13	25.00'	90'00'00"	39.27'	<i>35.36</i> ′	N4417'59"W
C-14	25.00'	90'00'00"	39.27'	35.36	N45°42'01"E
C-15	25.00°	90'00'00"	39.27'	<i>35.36</i> ′	S4417'59"E
C-16	25.00'	90'00'00"	39.27'	<i>35.36</i> ′	S45'42'01"W
C-17	25.00'	90'00'00"	39.27'	35.36'	N4417'59"W
C-18	25.00'	90'00'00"	39.27'	35.36'	N45°42'01"E
C-19	25.00'	90'00'00"	39.27'	35.36'	S44°17'59"E
C-20	25.00°	90'00'00"	39.27'	35.36'	S45°42'01"W
C-21	25.00'	90'00'00"	39.27'	35.36'	N4417'59"W
C-22	<i>25.00</i> ′	<i>36'57'11"</i>	16.12'	15.85'	S71'20'33"E
C-23	25.00°	<i>36°21'03"</i>	15.86'	15.60'	N72°00'21"E
C-24	25.00°	<i>53°07'48"</i>	23.18'	22.36'	N2715'55"E
C-25	75.00'	17'26'08"	22.82'	22.73'	N09°25'04"E
C-26	75.00'	8°11'31"	10.72'	10.71'	N2213'54"E
C-27	75.00'	<i>28'32'19"</i>	37.36'	36.97'	N40'35'48"E
C-28	75.00'	<i>35'50'03"</i>	46.91'	46.15'	N72'46'59"E
C-29	75.00'	14'18'26"	18.73°	18.68'	S82'08'46"E
C-30	75.00'	<i>36'31'09"</i>	47.80'	47.00'	S56'43'59"E
C-31	75.00'	28'25'09"	37.20'	36.82'	S24°15'50"E
C-32	75.00'	10°45′16″	14.08'	14.06'	S04'40'37"E
C-33	75.00'	011'59"	0.26'	0.26'	S89'43'08"E
C-34	75.00'	31.25'20"	41.13'	40.62'	S73'54'29"E

	282	SEE SHEET 2 OF 5 N89'17'59"W SABAL BREEZE LANE (PRIVATE RIGHT-OF-WAY) S89'17'59"E TRACT "DD" 373.25' 373.25' 49.13' 55.00' 55.00' 55.00' 55.00' 55.00' 55.00' 55.00' 55.00' 55.00' 70.	251
	280 280 17'59"E +	220.00. 220.00. 220.00. 220.00. 220.00. 23.00.02. 2423.25. 217.00. 217.00. 217.00. 217.00. 217.00. 217.00. 217.00. 217.00. 217.00. 217.00. 217.00. 217.00. 217.00. 218. 217.00. 218. 217.00. 218. 217.00. 218. 217.00. 218. 217. 218. 219. 210	250.007 254 254 256.00 257 257 258 259 259 259 259 259 259 259 259
P.B. 64, PGS. 74–81) ₁	278 .00 :55	200.42.00.00 	320.0 1109.30. 1109.30. 1109.30. 55.00. 10.00. U.E. (TYP) 10.00.
RECKENRIDGE PHASE I (P.B. 64, PGS. 74–81)	276 -5.00' U.D.E. 00 95 17'59"E - - - - - - - -	N89'17'59"W S89'17'59"E LOWER DOE LANE (PRIVATE RIGHT-OF-WAY) S89'17'59"E TRACT "DD" 373.25' 373.25' S89'17'59"E LOWER DOE LANE (PRIVATE RIGHT-OF-WAY) S89'17'59"E TRACT "DD" 373.25' 373.25' 55.00' 55.	DRIVE (PRIVATE RICHT-OF-WAY) NOQ 42'01"E 55.00' 1
BRE (F (ACT "A" CAPE BUFFER 4, PGS. 74–81)		TRACT ON SOUND DAINE 10.00' R. W.M. 232 232 233	HERON SOUND HERON SOUND HERON SOUND HERON SOUND 138.47' — 138.47' — 100.55' 00.55'
7R. LANDS (P.B. 6-	271 271 271 271 271 271 271 271 271 271	25 00, 52 00, 12 000, 12 000, 12 000, 12 000, 12 000, 12 000, 12 000, 12 000, 12 000, 12 000, 12 000, 12 000, 12 000, 12 000, 12 000, 12 000,	25.00' 25.00' 141.29' 20.06 P.C. 3.84' N89'17'59"W 161.36' (PRIVATE LIFT STATION)
	20.00' ACCESS EASEMENT 20.00' ACCESS EASEMENT 20.00' ACCESS EASEMENT	32.16 55.00' 55.00' 55.00' 55.00' 55.00' 6-26	/ /6 2-3
	161.05*	N89'17'59"W SEE SHEET 4 OF 5	Å.

PEC

SURVEYING AND MAPPING, LLC

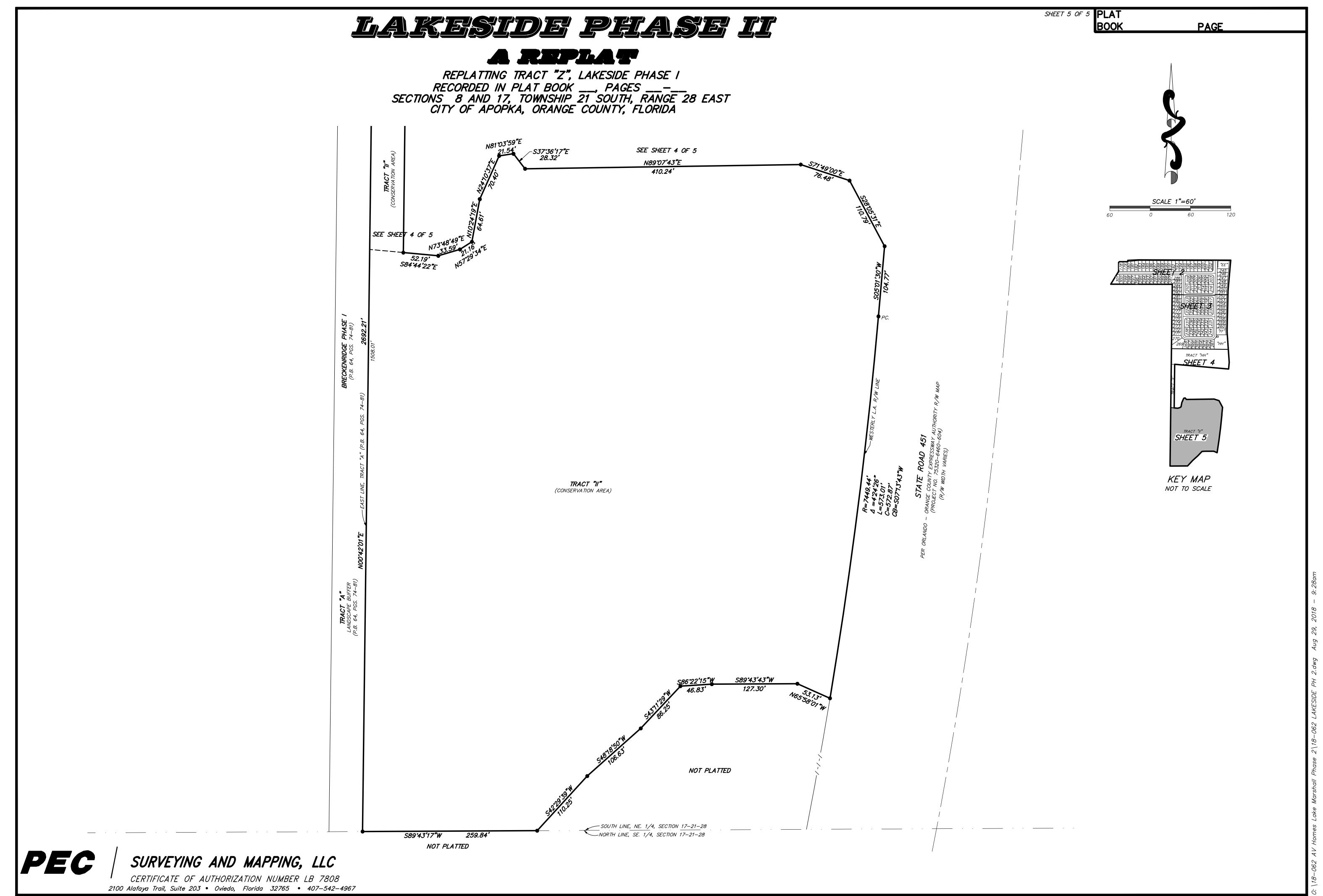
LAKESIDE PHASE II BOOK PAGE A REPLAT REPLATTING TRACT "Z", LAKESIDE PHASE I RECORDED IN PLAT BOOK ___, PAGES _____ SECTIONS 8 AND 17, TOWNSHIP 21 SOUTH, RANGE 28 EAST CITY OF APOPKA, ORANGE COUNTY, FLORIDA TRACT "HH" (DRY POND) / ____7.50' U.D.E. SEE SHEET 3 OF 5 7.50' U.D.E. 632.16 N89'17'59"W TRACT "HH" (DRY POND) tract "hh" SHEET 4 TRACT "II" SHEET 5 KEY MAP NOT TO SCALE ORDER OF TAKING (O.R.B. 5487, PG. 1547) N89°07'43"E 410.24 SEE SHEET 5 OF 5

TRACT "II" (CONSERVATION AREA)



SURVEYING AND MAPPING, LLC

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CITY OF APOPKA CITY COUNCIL

CONSENT AGENA

X PUBLIC HEARING

SPECIAL REPORTS

X OTHER: Final Development Plan/Plat

MEETING OF: October 3, 2018

FROM: Community Development

EXHIBITS: Vicinity Map

Final Development Plan

Plat

SUBJECT: VISTA RESERVE – FINAL DEVELOPMENT PLAN AND PLAT

REQUEST: APPROVE THE VISTA RESERVE FINAL DEVELOPMENT PLAN

AND PLAT

SUMMARY:

OWNER: Pulte Home Company, LLC

APPLICANT: Pulte Home Corporation

LOCATION: East side of Rogers Road, approximately one half mile north of the

intersection of Rogers Road and Lester Road

PARCEL ID NUMBERS: 29-20-28-0000-00-003

EXISTING USE: Vacant

FLUM DESIGNATION: Low Density Suburban Residential

CURRENT ZONING: PUD (Planned Unit Development)

PROPOSED DEVELOPMENT: 153 single family homes; developed in one phase

TRACT SIZE: 61.1 +/- acres

FUNDING SOURCE: N/A

DISTRIBUTION

Mayor Nelson Finance Director Public Services Director
Commissioners HR Director Recreation Director

City Administrator IT Director City Clerk
Community Development Director Police Chief Fire Chief

RELATIONSHIP TO ADJACENT PROPERTIES:

Direction	Future Land Use	Zoning	Present Use
North (City)	Low Density Suburban Residential (0-3.5 du/ac)	R-1AA	Vacant, Lake Merril
East (City)	Low Density Suburban Residential (0-3.5 du/ac)	PUD	Oak Hill Reserve subdivision
South (City)	Low Density Suburban Residential (0-3.5 du/ac)	R-1AA, R- 1	Carriage Hills subdivision (under construction), Vacant property
West (City)	Low Density Suburban Residential (0-3.5 du/ac)	R-1AA	Wekiva Run subdivision

<u>Project Use:</u> On August 1, 2018, the City Council approved a PUD Master Plan/Preliminary Development Plan for the Vista Reserve subdivision, which details the development of 153 single family residential lots in one phase. The subject property is located on the east side of Rogers Road, approximately one half mile north of the intersection of Rogers Road and Lester Road. The applicant is requesting approval of the Final Development Plan and Plat for Vista Reserve, which details 153 lots. Consistent with the approved PUD Master Plan/Preliminary Development Plan, lot widths of 65-feet and 90-feet are provided. The minimum living area is proposed at 2,190 square feet.

<u>Access:</u> Ingress/egress access points for the development are located via Rogers Road. Rogers Road will terminate at the main entrance of the development. The developer will be dedicating a 0.68 acre portion of right-of-way along Rogers Road to the City. The subdivision will consist of public roads and infrastructure that is owned and maintained by the City. Vehicular and pedestrian connections are provided to the property to the north and to the Carriage Hills subdivision located to the south.

<u>Stormwater:</u> Two tracts located on the northwestern and northeastern corners of the site are reserved for stormwater retention. The stormwater retention areas will be owned and maintained by the homeowners association.

<u>Recreation</u>: Consistent with the approved PUD Master Plan/Preliminary Development Plan, a 1.67 acre tract is reserved for the community recreation facility that will be owned and maintained by the homeowners association. Included within the recreation facility is a picnic area, pool, pool cabana building, play structure, open play area, bicycle parking, and a parking area for 8 cars.

<u>Buffer/Tree Program:</u> Consistent with the approved PUD Master Plan/Preliminary Development Plan, a continuous open space tract with is provided around the perimeter of the subdivision to buffer the homes from the surrounding existing subdivisions. Thirty percent of the site, or 18.13 acres of open space is provided, and will be owned and maintained by the homeowners association. Landscaping and a 6-foot high brick wall is provided along Rogers Road. Trees are located within the open space tract provided around the perimeter of the subdivision.

The applicant has agreed to pay a tree mitigation payment of \$56,143.06.

SCHOOL CAPACITY REPORT: The developer has obtained a school concurrency mitigation agreement with Orange County Public Schools to address school impacts generated by this residential development.

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CITY COUNCIL – OCTOBER 3, 2018 VISTA RESERVE – FINAL DEVELOPMENT PLAN AND PLAT PAGE 3

schools zoned to receive students from this community are the following: Wolf Lake Elementary School, Wolf Lake Middle School and Apopka High School.

ORANGE COUNTY NOTIFICATION: The County was notified at the time of the subdivision plan and plat for this property through the DRC agenda distribution.

PUBLIC HEARING SCHEDULE:

September 11, 2018 - Planning Commission, 5:30 pm October 3, 2018 - City Council, 1:30 pm

RECOMMENDATION ACTION:

The **Development Review Committee** recommends approval of the Vista Reserve Final Development Plan and Plat, subject to final review by the City surveyor and City Engineer prior to recording the plat.

The **Planning Commission** at its meeting on September 11, 2018, found the plat of Vista Reserve consistent with the Comprehensive Plan and Land Development, and unanimously recommended approval of the Vista Reserve plat subject to the findings of this staff report.

City Council: Approve the Vista Reserve Final Development Plan and Plat.

CITY COUNCIL – OCTOBER 3, 2018 VISTA RESERVE – FINAL DEVELOPMENT PLAN AND PLAT PAGE 4

Project: VISTA RESERVE

Owned by: Pulte Home Company LLC

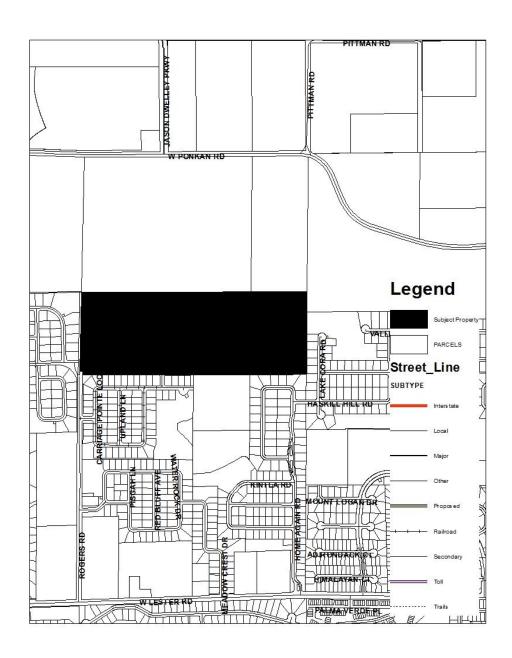
Located: East side of Rogers Road, approximately one half mile north of the intersection of

Rogers Road and Lester Road

Parcel ID#s: 29-20-28-0000-00-003

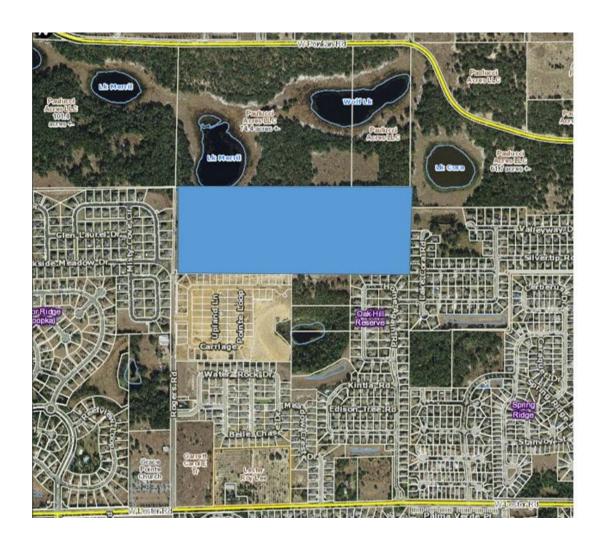


VICINITY MAP





AERIAL MAP



FINAL DEVELOPMENT PLAN FOR VISTA RESERVE

PARCELS: 29-20-28-0000-00-003 SECTIONS 29 AND 30, TOWNSHIP 20 SOUTH, RANGE 28 EAST **501 OLD DIXIE HIGHWAY** CITY OF APOPKA, FLORIDA

THE PULTE GROUP

4901 VINELAND ROAD, SUITE 500 ORLANDO, FLORIDA 32811 PHONE: (407) 661-1514



E. HORATIO AVENUE, SUITE 260 MAITLAND, FLORIDA 32751 PHONE (407) 629-8330 FAX (407) 629-8336

PROJECT TEAM MEMBERS:

OWNER / DEVELOPER: THE PULTE CROUP 4901 VINELAND RD., SLITE 500 ORLANDO, FL 32811 PHONE: (407) 661-1514 CONTACT: DOUG HOFFMAN

SURVEYOR:

LANDSCAPE ARCHITECT

ENVIRONMENTAL

NATIVE GEOSGENCE 2014 EDGEWATER DR., SUITE 246 ORLANDO, FL 32804 PNONE: (407) 342-1443 CONTACT: JOHN C DIEHL, PG

UTILITY PROVIDERS:

WASTE WATER:

CENTURY LINK
33 HORTH WAN STREET
WHITER GARDEN, FL 34781
PHONE: (407) 814-5351
CONTACT: DAMD BYRNES

178

RECLAIMED WATER:

SOLID WASTE:

CITY OF APOPKA 120 E. WAIN STREET APOPKA, FL 32704 PHONE: (407) 703-1731 CONTACT: JAY DAYOLL, PE

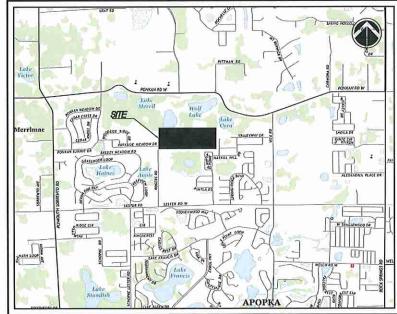
BEGIN AT THE SOUTHWEST CORNER OF THE NW 1/4 OF SECTION 29, TOWNSHIP 20 SOUTH, RANGE 28 EAST, GRANGE COUNTY, FLORIDA; RUN THENCE NORTH ALONG THE WEST LINE OF SAID NW 1/4 A DISTANCE OF 985.01 FEET TO THE NORTH LINE OF THE SOUTH 3/4 OF THE SOUTH 1/2 OF SAID NW 1/4; RUN THENCE N883/8147E ALONG SAID NORTH LINE A DISTANCE OF 2889.71 FEET TO THE NORTHEAST CORNER OF SAID SOUTH 3/4; RUN THENCE SOUTHOUTE THE EAST LINE OF SAID NOW 1/4 A DISTANCE OF 989.23 FEET TO THE SOUTHEAST CORNER OF SAID NW 1/4; RUN THENCE SABVASATW ALONG THE SOUTH LINE OF SAID NW 1/4 A DISTANCE OF 2703.46 FEET TO THE SOUTHWEST CORNER OF SAID NW 1/4; AD THE OWN THE OWN THE AST LINE OF SAID NW 1/4 A DISTANCE OF 2703.46 FEET TO THE SOUTHWEST CORNER THEREOF, AND THE POINT OF BEGINNING. ALL BEING AND LYING IN THE NW 1/4 OF SECTION 29, TOWNSHIP 20 SOUTH, RANGE 28 EAST, CRANGE COUNTY, FLORIDA.

ALSO DESCRIBED AS:

THE SOUTH 3/4 OF THE SOUTH 1/2 OF THE NW 1/4 OF SECTION 29, TOWNSHIP 20 SOUTH, RANGE 28 EAST, ORANGE COUNTY, FLORIDA

THE SOUTH SIXTY (60) ACRES OF THE NW 1/4 OF SECTION 29. TOWNSHIP 20. SOUTH, RANCE 28 FAST, ORANGE COUNTY, FLORIDA CONTAINING 2.661.310 SOLIARE FEET (61.1 ACRES), MORE OR LESS.

VICINITY MAP



SHEET NO. PLAN IO ISSUE DATE REV. NO. REV. DATE SHEET NAME

1 COV 06/22/18 - 08/23/18 COVER SHEET SPECIFIC PURPOSE SURVEY 06/22/18 06/22/18 SYMBOLS AND ABBREVIATION GENERAL NOTES 07/27/18 06/22/18 06/22/18 06/22/18 07/27/18 UTILITY PLAN 07/27/18 DRAINAGE PL 07/27/18 DRAINAGE PLAN - GRADING PLAN 08/23/18 GRADING PLAN GRADING PLAN GRADING PLAN EROSION CONTROL F 07/27/18 PLAN AND PROFIL 07/27/18 PLAN AND PROFILE 07/27/18 PLAN AND PROFIL 07/27/18 PLAN AND PROFILE

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103 04/05/18
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105 04/05/18

CONSTRUCTION DETAILS

LIFT STATION DETAILS
KEY PLAN

LANDSCAPE PLAN 07/27/18 HARDSCAPE DETAILS 06/27/18 HARDSCAPE IMAGE

IRRIGATION PLAN IRRIGATION PLAN 04/30/18 IRRIGATION PLAN

3 07/27/18 IRRIGATION NOTES AND DETAILS IRRIGATION DETAILS IRRIGATION DETAILS

TREE WITIGATION PLAN

RECREATION/OPEN SPACE PLAN

- APOPKA STANDARD DETAILS
08/23/18 LIFT STATION DETAILS

04/30/18 LANDSCAPE PLAN 04/30/18 LANDSCAPE PLAN

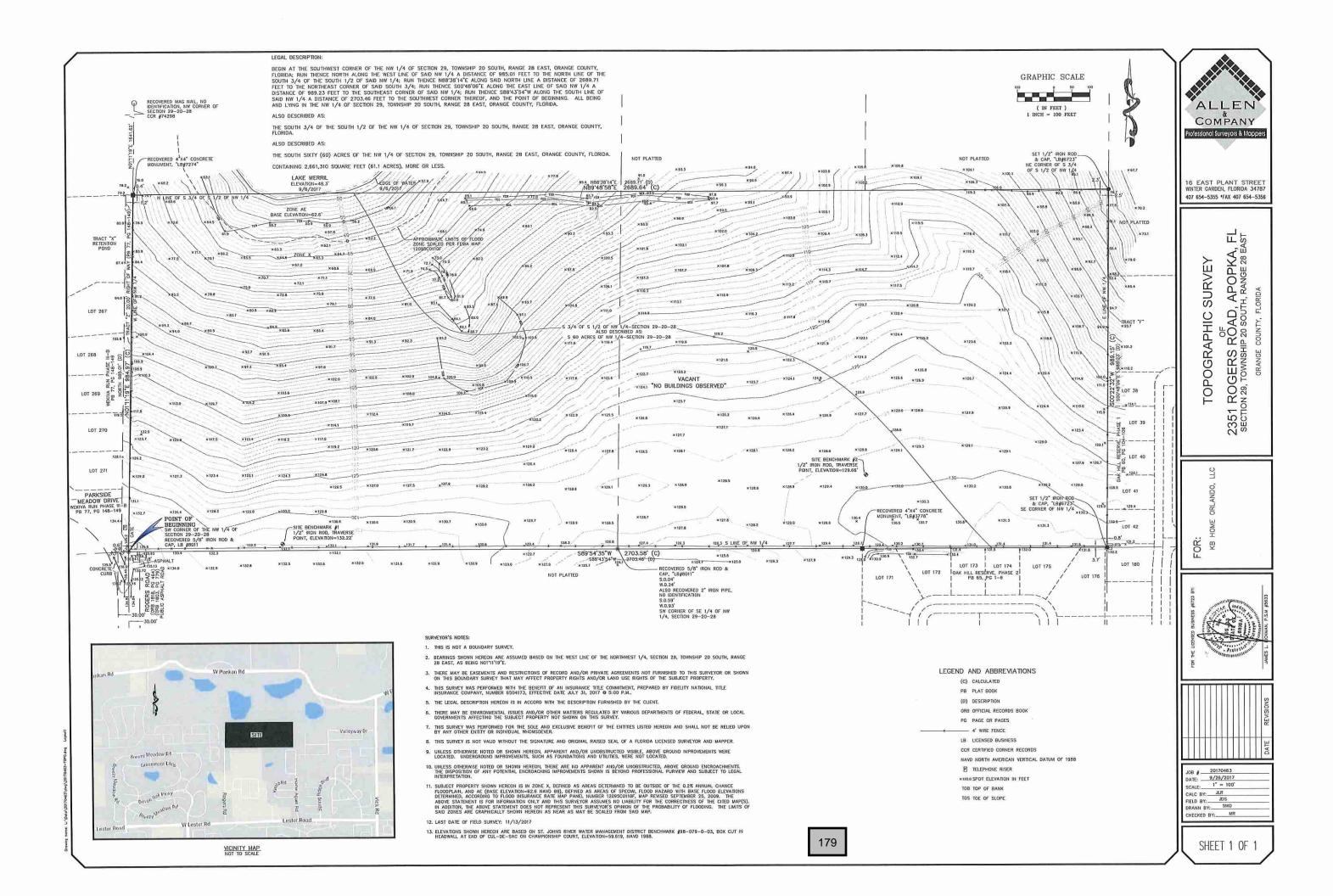
04/30/18 LANDSCAPE PLAN

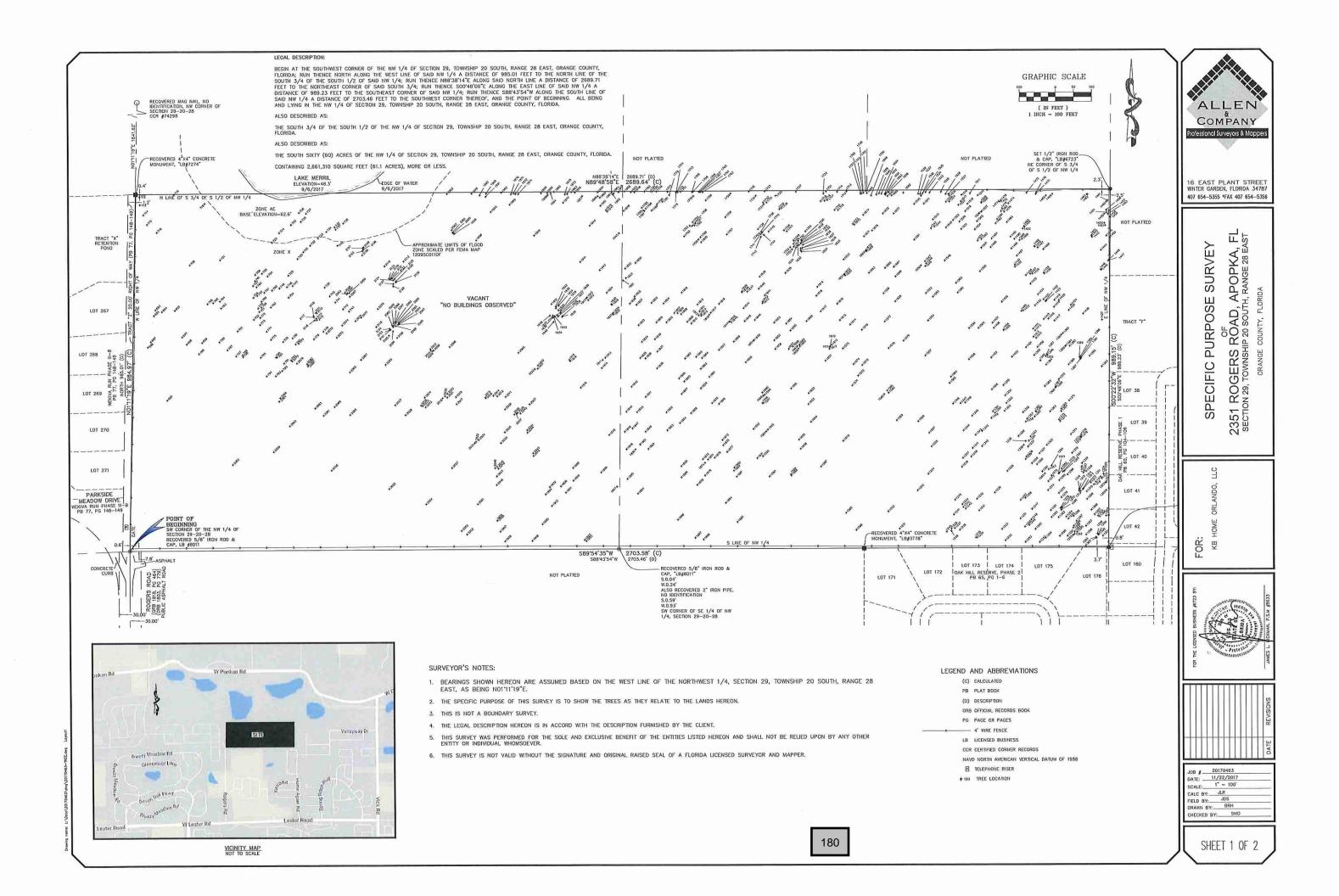
04/30/18 IRRIGATION PLAN

04/30/18

INDEX OF SHEETS

FOR





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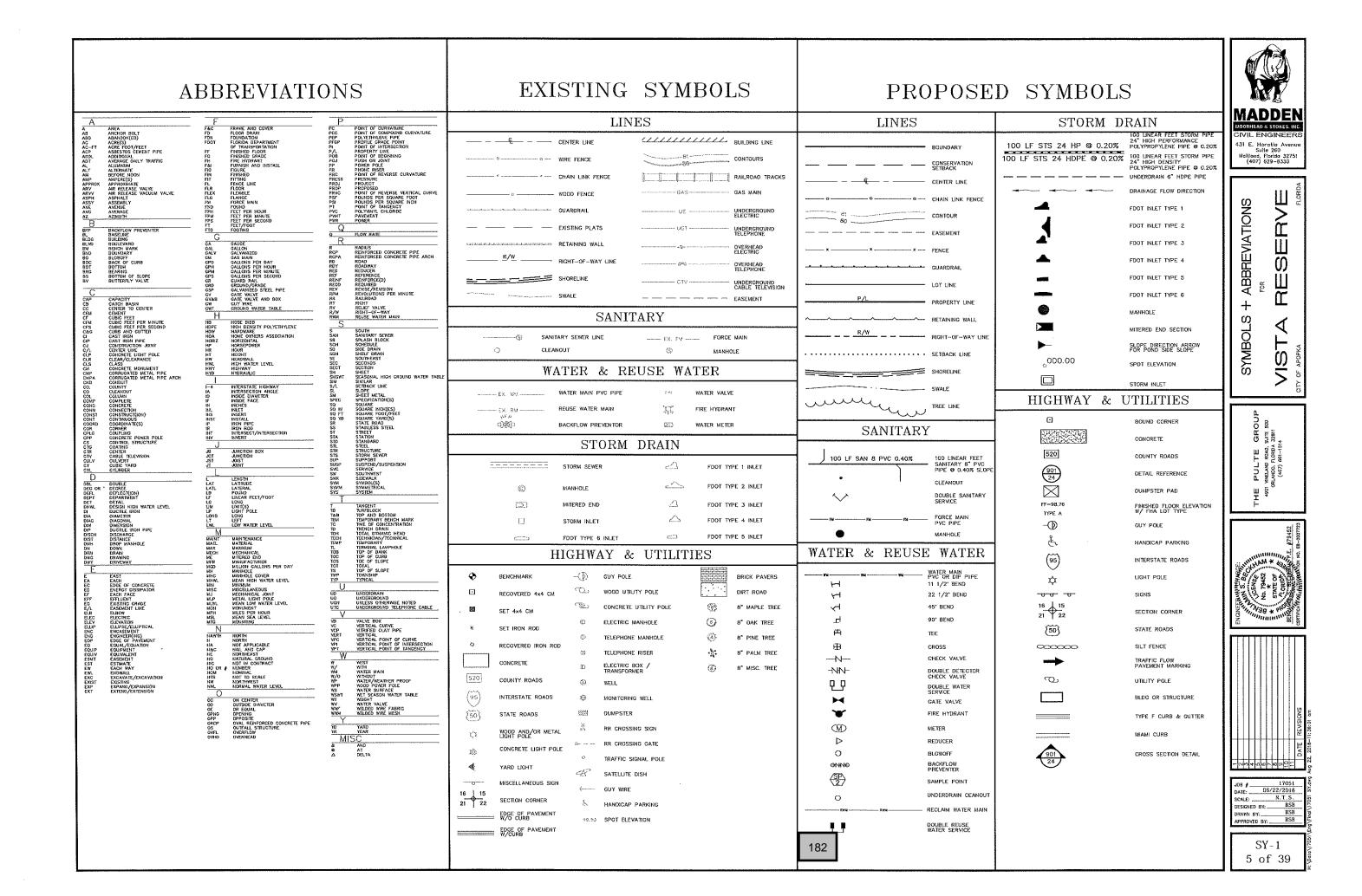
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GENERAL NOTES

- 1. ALL CONSTRUCTION WORK SHALL BE BL ACCORDANCE WITH THE LATEST CITY OF APOPKA DETAILS & THE FROT FY 2016—17 DESIGN STANDARDS, EFFECTIVE, 7/1, TO 6/30/2017, AND ALL SUPPLEMENTS THERETO, AND THE "ROADWAY TRAFFIC DESIGN STANDARDS", WHICHEWEN IS MORE STRINGER!
- THE LOCATIONS OF EXISTING UTILITIES SUCH AS MATER MAINS, SEWER, OAS LINES, ETC., AS SHORM ON THE PLANS HAVE BEEN OFTERMINED FROM THE BEST AVMALABLE HITCHRIATION, AND ARE PROVISED FOR THE CONVENENCE OF THE CONTRACTOR. HOWEVER, THE ENGINEER AND OWNER DO HOT ASSUME RESPONSIBILITY FOR THE SYSTEM AND CONTRACTOR. SHALL BE RESPONSIBLE FOR FIELD VERHEARTON OF THE SIZE AND LOCATION OF ALL ENSING UTILITIES SHORM AND NOT SHORM OF THE SIZE AND LOCATION OF ALL ENSING UTILITIES SHORM AND NOT SHORM OF THE SIZE AND LOCATION OF ALL ENSING UTILITIES SHORM AND NOT SHORM OF THE SIZE AND LOCATION OF ALL ENSING UTILITIES SHORM AND NOT SHORM OF THE SIZE AND LOCATION OF ALL ENSING UTILITIES SHORM AND NOT SHORM OF THE SIZE AND LOCATION OF ALL ENSING UTILITIES SHORM AND NOT SHORM OF THE SIZE AND LOCATION OF ALL ENSING UTILITIES SHORM AND NOT SHORM OF THE SIZE AND LOCATION OF ALL ENSING UTILITIES SHORM AND NOT SHORM OF THE SIZE AND LOCATION OF ALL ENSING UTILITIES SHORM AND NOT SHORM OF THE SIZE AND LOCATION OF ALL ENSING UTILITIES SHORM AND NOT SHORM OF THE SIZE AND LOCATION OF ALL ENSING UTILITIES SHORM AND NOT SHORM OF THE SIZE AND LOCATION OF ALL ENSING UTILITIES SHORM AND NOT SHORM OF THE SIZE AND LOCATION OF ALL ENSING UTILITIES SHORM AND NOT SHORM OF THE SIZE AND LOCATION OF ALL ENSING UTILITIES SHORM AND NOT SHORM OF THE SIZE AND LOCATION OF ALL ENSING UTILITIES SHORM AND NOT SHORM OF THE SIZE AND LOCATION OF ALL ENSING UTILITIES SHORM AND ADDRESS AND ADDRESS AND SHORM OF THE SIZE AND LOCATION OF ALL ENSING UTILITIES SHORM AND ADDRESS AND ADDRESS
- 3. PRIOR TO COMMERCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL MEET AND SUBMIT A CONSTRUCTION SCHEDULE TO THE ARCHITECT/ENGINEER. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SECURE ANY AND ALL NEEDED LICENSES AND PERMITS REQUIRED FOR CONSTRUCTION PURPOSES.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL SETBACKS AND EASEMENTS BEFORE BEGINNING CONSTRUCTION.
- 5. BEHCHWARKS AND OTHER REFERENCE POINTS SHALL BE CAREFULLY MAINTAINED HIROUGHOUT THE CONSTRUCTION PERIOD. IF DISTURBED OR DESTROOTED, THESE POINTS SHALL BE REPLACED BY A FLORIDA PLLS. AT COMPACTOR'S EXPENSE.
- 6. THE CONTRACTOR IS DIRECTED TO NOTIFY MADDEN, MODIFIEAD, AND STOKES INC., PHONE (407) 629-8330, FOR PROBLEMS REQUIRING DEMATION FROM THESE PLANS AND SPECIFICATIONS.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITOR AND REMOVAL OF ALL EXISTING STRUCTURES, ETC., UNLESS OTHERWISE NOTED. ALL SOL STRIPPINGS AND ANY UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR DUNESS OTHERMISE ORICITED BY THE OMNER.
- 8. THE CONTRACTOR SHALL PROTECT ALL EMSTHIG STRUCTURES AND UTILITIES NOTED TO REMAIN, FROM DAMAGE OR DISPLACEMENT DURING CONSTRUCTION. IN THE EVENT OBSTRUCTIONS ARE ELECOMITERED, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ENGINEER AND THE UTILITY COMPANY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS INCORRED TO REPAIR DAMAGE OR CORRECT DISPLACEMENT.
- 9. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PROTECT ALL TREES AND OTHER VEGETATION OUTSIDE THE LIMITS OF CONSTRUCTION.
- WHEN DETAILS ARE PROVIDED, CONTRACTOR SHALL CONSTRUCT JOB PER SPECIFIC DETAILS, AND NOT BY SCALING FROM THESE PLANS.
- 11. ROADWAY MARKING, STRIPING, SIGNS AND OTHER TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS," (AUTICO) AND SUBSOLIVENT REVISIONS AND ADDEPOINS, AS PUBLISHED BY F.D.O.T. AND CITY OF APOPKA STANDARDS AND SPECIFICATIONS.
- 12. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ANY REQUIRED TRAFFIC CONTROL, PLANS, ALL WORK SHALL BE EXECUTED UNDER THE ESTABLISHED PLAN, F.D.O.T., AND CITY OF APOPKA PROVED PROCEDURES.
- THE CONTRACTOR SHALL RESTORE OFF SITE CONSTRUCTION AREAS TO EQUAL OR BETTER CONDITION THAN EXISTED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- 14. AS-BUILT DRAWHGS SHALL BE KEPT BY THE CONTRACTOR AND SUBMITTED TO THE PROJECT ENGINEER UPON PROJECT COMPLETION.
- CONTRACTOR SHALL COMPLY WITH ALL CITY OF APOPKA REQUIREMENTS FOR INSPECTION AND TESTING.
- 16. SUBJECT PROPERTY IS UNDER CONTROL OR OWNED BY APPLICANT.
- 17. TOPOGRAPHY PROMOED BY ALLEN & COMPANY, INC.
- 18. SANITARY SEWER SERVICE PROVIDED BY THE CITY OF APOPKA.
- 19. ALL NEW UTILITIES AND UPGRADED UTILITIES PROVIDED TO OR ON THE SITE MUST BE INSTALLED UNDERGROUND.
- 20. CHAPTER 17-153 OF THE FLORIDA STATUTES REQUIRES THAT AN EXCAVATOR NOTIFY ALL GAS UTILITIES A MINIMUM OF TWO HORKING DAYS PRIOR TO EXCAVATION.
- 21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RESTORATION OF ANY TRAFFIC SIGNAL EQUIPMENT RICLIDING BUT NOT LIMITED TO RIBER LODG SENSORS PULL BOOKS, COMOUNT TRAFFIC SIGNALS, AND CARRENTS ANY TIEMS DAMAGED BY THE CONTRACTOR WILL BE RESTORED TO THOSE ORIGINAL CONDITIONS UNLESS OTHER
- 22. RESIDENTIAL ARCHITECTURE MUST COMPLY WITH THE CITY OF APOPKA DEVELOPMENT DESIGN GUIDELINES, WITH THE EXCEPTION OF FRONT LOAD CARACES.
- 23. BUILDER/DEVELOPER MUST SUBHIT BUILDING ELEVATIONS AND FLOOR PLANS TO THE CITY OF APOPKA FOR APPROVAL PRIOR TO CONSTRUCTION OF HOMES.
- 24. STRUCTURES SHALL BE SET BACK A MINIMUM OF SOFT FROM ANY SHOREUNE OR WEILAND'S EDGE AS DEFINED IN ARTICLE 1.
- A COPHER TORTOISE RELOCATION PERMIT MUST BE OBTAINED FROM THE FLORIDA FISH & MILDLIFE COMMISSION PRIOR TO STIE DEVELOPMENT.
- 26. ALL ROADWAYS AND FIRE HYDRANTS MUST BE CONSTRUCTED BEFORE BUILDING CONSTRUCTION BEGINS.
- 27. BLUE ROAD REFLECTORS MUST BE PROVIDED AT EACH FIRE HYDRANT LOCATION

NOTE: EXTERIOR RESIDENTIAL HOME'S ARCHITECTURAL DESIGN SHALL COMPLY WITH THE CITY'S DEVELOPMENT DESIGN GUIDELHES. HOME ELEVATIONS NUST BE APPROVED BY THE COMMUNITY DEVELOPMENT DEPARTMENT PRIOR TO ISSUANCE OF ANY MODEL HOME OR RESIDENTIAL HOME.

SANITARY SEWER

- 1. ROOF DRAINS, FOUNDATION DRAINS OR OTHER STORM WATER CONNECTIONS TO THE SANITARY SEWER ARE PROMEHED.
- ALL SANITARY SEWER PIPE SHALL BE PVG SEWER PIPE CONFORMING TO ASTM D~3034, SDR 35.
- 3. ALL MANHOLES SHALL BE 4 FT. INSIDE DIAMETER UNLESS OTHERWISE HOTED.
- 4. ALL SANIFARY SERVICE LATERALS SHALL BE 6 HICH DIAMETER UNLESS OTHERMSE NOTED.
- WHETI MINIMUM SEPARATION CANNOT BE MAINTAINED BETWEEN WATER AND GRANTY SEWER, THE SENER SHALL BE UPGRADED TO C-900, ORIS AND PRESSURE IESTED TO 150 PSI.
- 6. FOR HORIZONTAL AND VERTICAL CLEARANCES BETWEEN SANITARY SEWER MAINS/LATERALS AND WATER MAINS/LATERALS, SEE WATER NOTES J & 4.
- HHERE SOLL REPORT HOLICATES THE POSSIBILITY OF UNSUITABLE MATERIAL IN THE WIGHLY OF SANITARY UNES. THE CONTRACTOR SHALL DETERMINE THE NATURE AND EXTENT OF THIS UNSUITABLE MATERIAL, PREPARE THEREOF AND MISTALL THE SEVER LIFE AN ACCORDANCE MIM ASTM 0-2321. IT MILL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER OF THIS UNSUITABLE MATERIAL.
- B. THE CONTRACTOR SHALL BE REQUIRED TO PERFORM INFILTRATION OR EXPLIRATION TEST, IMPOREMENT IS APPLICABLE, IMPLIFIATION SHALL NOT EXCELD SO CALLIONS PER DAY PER NOTO, OF DIAMETER FOR MILE OF LENGTH, OR THE COMPUTED EXCUMENT FOR SHAPE REPORT ALL RECORDENISTS, CODES AND OPENIMIESS OF THE MASSEMBLER TRANSMISSION AUTHORITY INCLUDING ADVANCE MOTIFICATION PROCE TO CONSTRUCTION AND TESTING.
- . MADDEN, MOORHEAD, & STOKES, INC. SHALL BE NOTIFIED A MINIMUM OF 48 HOURS (2 FILL WORKING DAYS) PRIOR TO CONSTRUCTION AND TESTING OF THE SANITARY SEWER, PHONE (407) 629–8330.
- 10. THE CONTRACTOR SHALL SUPPLY COMPLETE "AS BUILT" INFORMATION RELATIVE TO INVERTS, RIM LEEVATIONS, LOCATION OF MAINIQUES AND LENGTHS OF PIPE, LATERALS SHALL BE LOCATED FROM THE CENTERINE OF THE NEAREST GOINSTREAM MAINIQUE. THE NEVONATION SHALL BE SUBMITTED ON LEGINLY MARKED—UP PRINTS TO THE ENGINEER WITHIN THO (2) WEEKS OF COMPLETION OF SENER CONSTRUCTION.
- 11. CONTRACTOR SHALL RECEIVE SEWER CERTIFICATION PRIOR TO PLACEMENT OF SOIL CEMENT.
- 12. MINIMUM SLOPE ON ALL 8" SANITARY SEWER GRAVITY MAINS TO BE 0.3%
- 13. ALL SANITARY SERVICE LOCATIONS SHALL BE MARKED BY CUTTING AN "S" INTO THE CURB.
- 14. WHEN MINIMUM SEPARATION CANNOT BE MAINTAINED BETWEEN WATER AND FORCEMAINS, THE FORCEMAIN SHALL BE UPGRADED TO PVC DR14 AND FIRESOFF IESTED TO 200 PS.
- 15. AIR RELEASE VAVES SHALL BE REQUIRED AT ALL HIGH POINTS ALONG THE FORCE MAIN
- BLANKET UTILITY EASEMENTS WILL BE RECORDED FOR PROPERTIES USING THIS LIFT STATION.
- 17. ONSITE WASTEWATER COLLECTION SYSTEM, THE LIFTSTATION, AND FORCEMAIN ARE TO BE OWNED AND MAINTAINED BY CITY OF APOPKA.

WATER

- 1. ALL MATERIALS AND CONSTRUCTION REQUIREMENTS FOR THE FIRE SERMICE, WATER UNES, CHECK WALVES, BACKPLOW FREMENTERS, CATE VALVES, ETC., SMALL BE HI ACCORDANCE WITH THE CITY OF APOPKA STANDARD DETAILS AND LAND CEVELOPMENT CODES.
- 2. THE CONTRACTOR SHALL LAY THE WATER LINE AND SERVICES A MINIMUM OF THREE (3) FEET BELOW FINISHED GRADE, TO THE TOP OF PIPE.
- 3. THE WATER MAIN SHALL BE LOCATED ABOVE THE STORMWATER AND SANITARY MAINS AT CONFLICTS WHERE POSSIBLE.
- 4. (1) HORIZONTAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEVERS, WASTEWATER OF STORMWATER FORCE MAINS, RECIAMED WATER PPELMES, AND ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS.
- (A) NEW OR RELOCATED, UNDERGROUND WATER MARIS SHALL BE LAID TO PROMDE A MORIZONTAL DISTANCE OF AT LEAST BIREE FEET BETWEEN THE OUTSIDE OF THE WATER MARIA MAD HE OUTSIDE OF ANY EDSTRING OF PROPOSED STOM SCHEN, STORMHATER FRUE MAN, OR FIRELINE CONVEYING RECLAIMED WATER REDUCATED WHOSE PART HI OF CHAPTER 68-510, FATOR
- (B) HEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROWDE A HOMEOWING, DISTANCE OF AT LEAST THREE FEET, AND PRETERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM—TYPE SANTARY SEWER.
- (C) HEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONIA DISTANCE OF AT LEAST SIX REET, AND PREPERABLY TEN FEET, BETHEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EMSTIME OR PROPOSED GRANTY—OR RECSUME—THE SANITARY SEWER, WASTERNATER FORCE MAIN, OR PREVIDENCE CONVEYING RECLAIMED WATER NOT RECULATED UNDER PART IN OF CHAPTER 82—510, EA.C. THE MINIMUM HORIZONTAL SEPARATION OSTANCE STRENG SHALL BE RECOULDED TO THREE MAIN SHOW CONVEYING STRENG SHALL BE RECOULDED TO THREE HERE THE WORT OF THE MATER MAIN IS LAID AT LEAST SAN TOWERS ABOVE THE TOP OF THE SEATS STATES MAIN IS LAID AT LEAST SAN TOWERS ABOVE THE TOP OF THE SEATS STATES AND THE TOP OF THE SEATS STATES AND THE MAIN IS LAID.
- (O) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROMDE A HORIZONTAL DISTANCE OF AT LEAST TEN FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND ALL PARTS OF ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM" AS DEFINED IN SECTION 381.0065(2), ES., AND RULE 64E-6.002, EAC.
- (A) NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRANTY—OR VACIOUM—TIPE SANTARY SEMER OR STORM SEKER SHALL BE LAID SO THE OUTSOE OF THE WATER MAIN IS AT LEAST SU MICHES, AND PRETERABLY 12 WICHES, ABOVE OR AT LEAST 12 WICHES BELOW THE OUTSOE OF THE OTHER PREFILME. MOVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PREFUL
- (B) HEY OR RELOCATED, UNDERGRAMID WATER MAILS CROSSING ANY EMSTING OR PROPOSED PRESSURE—TYPE SAMURARY SEMER WASTEWATER OR STORMIMIER POORE MAIN, OR PPELINE CONVENIOR DECLAMICD WATER SHALL BE LAD SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 MORES ABOVE OR BELOW THE OUTSIDE OF THE OTHER PRELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PRELINE.
- (6) AT THE UNITY CONSINGS DESCRIBED IN PARAGRAPHS (A) AND (B) ABOVE ONE FULL LENGTH OF WATER MAIN PRE SHALL BE CENTERED ABOVE OR BEION HE OTHER PREPLIES OF THE WATER MANY JOINTS WILL BE AS FAR AS POSSBULFROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO HAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM—THPE SHATHARY SWEEDS, STORM SEWERS, STORMMERT FORCE MAINS, OF PIPELINES CONVENIES RECLAMED WATER AS PARAFERS FORCE—THE SHATHARY SWEEDS, STORM SEED FOR THE SHATHARY SEWERS, STORM SEED FORCE THE SHATHARY SEWERS, WASTEWART FORCE MANN, OR PIPELINES CONVENIES CONVENIES CONVENIES FORCE MAIN ASSESSMENT FORCE MANN, OR PIPELINES CONVENIES CONVENIES CONVENIES FORCE WATER ASSESSMENT FORCE MANN, OR PIPELINES CONVENIES FORCE WATER NOT RECULATED UNDER PART IN OF CHAPTER 52–610, F.A.C.
- WATER LINES LESS THAN 4° IN DIAMETER SHALL BE PYC PIPE NSF LOGO SUITABLE FOR POTABLE WATER (200 PS).
- ALL 4"-12" WATER LINES SHALL BE PYC PIPE AWHA C-900, DR 18, HECHANICAL JOINTS AND RUBBER COMPRESSION RING JOHNS CONFORMING TO ASTA D3139. FROM POS FORWARD AS DESIGNATED BY F.S. 633, PIPE SHALL BE DR-14 AND TESTED AT 200 PS FOR THO HOURS.
- 7. GATE VALVES SHALL CONFORM TO AWWA C-808-87, WITH WRENCH NUT EXTENSION STUDS AND OTHER APPURTENANCES AS REQUIRED. THEY SHALL BE IRON BOOK, FULL BROWNE MOUNTED, DOUBLE DISK, PRACHEL SEAT, NOT-RESID STEW YALES HIT VALVES TO BE SHALL THE STANDARD OF THE STANDARD AND ALL TIESS, CAPS, PLUGS, BENDS, VALVES, ETC., SHALL BE PROVIDED WITH GRIP RING RESTRAINTS.
- B. THE CONTRACTOR SHALL TAPE 10 GAUGE LOCATOR WHE TO ALL WATER LINES AT 5' INTERVALS. THE LOCATOR WHE SHALL BE SINGLE STRAND COPPER WHE RATED 600V
- SERVICE MAHIS FOR FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF APOPKA CONSTRUCTION DESIGN STANDARDS MANUAL OR HIPA 24 2007 EDITION, MICHCHER IS MORE STRINGENT.
- 10, NEW FIRE HYDRANTS SHALL BE INSTALLED SO THAT 5-1/4" RICH PORT IS FACING THE ROADWAY BY WHICH IT IS ACCESSED. HYDRANTS SHALL BE POSITIONED NOT MORE THAN 5 FEET AWAY FROM HE CURB OR BERN OF THE ROADWAY.
- 11. MADDEN MOORHEAD & STOKES, INC. SHALL BE NORFIED A MINIMUM OF FORTY EIGHT HOURS (2 FULL WORKING DAYS) PRIOR TO TESTING OF THE WATER LINES, PHONE
- 12. HYDROSTATIC TESTS CONSISTING OF PRESSURE TEST AND LEAKAGE TEST SHALL BE CONDUCTED ON ALL NEWLY-HISTALLED WATER DISTRIBUTION SYSTEM PRESSURE PIPES AND APPLITEMENANCE. THE TESTS SHALL BE IN ACCORDANCE WITH PROMSTONS OF ANYMACOGO OF COOS AS APPLICABLE.
- 13. DISINFECTION OF THE WATER DISTRIBUTION SYSTEM SHALL BE PERFORMED IN ACCORDANCE WITH AWAY COST-DISINFECTING WATER MAIN, INCLUDING ANY REQUIRED RESING BY CITY OF APOPKA. 14. THE CONTRACTOR SHALL SUPPLY COMPLETE "AS-BUILT" IMPORMATION RELATIVE TO LOCATION OF ALL MATER LINES AND SERVICES. THE INFORMATION SHALL BE SUBBILITED IN LEDGY MARKED—UP PRINTS TO THE ENGINEER WITHIN TWO (2) WEEKS OF THE COMPLETION OF THE WATER LINE CONSTRUCTION.
- 15. CONTRACTOR SHALL SCHEDULE ALL TESTING TO ALLOW THE ENGINEER'S ATTENDANCE. FAILURE TO PROPERLY NOTIFY THE ENGINEER MAY RESULT IN RETESTING AT THE ENGINEERS OPTION AND THE CONTRACTOR'S EXPENSE.
- 16. WATER SERVICE PROVIDED BY CITY OF APOPKA.
- 17. NEW HYDRANTS SHALL BE TESTED AND IN PROPER WORKING ORDER WITH DOCUMENTATION SUPPLIED TO THE FIRE MARSHAL PRIOR TO ANY COMBUSTIBLE CONSTITUTION (I.E. FIRE FLOW TEST SHALL BE PERFORMED).
- 18. ANY EXISTING WELLS ON SITE SHALL BE ABANDONED IN ACCORDANCE WITH THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT RULES AND REGULATIONS
- 19. ALL NEW WATER MAINS SHALL BE COLOR CODED PER F.D.E.P. REGULATIONS

PAVING AND DRAINAGE

- THE CONTRACTOR SHALL CONSTRUCT PAYEMENT IN ACCORDANCE WITH TYPICAL PAYEMENT SECTIONS AND CITY OF APPEAR SPECIFICATIONS THE FINISHED PAYEMENT GRADES SHALL CONFORM TO THOSE SPECIFIED ON THE DRAWLOGE PLAN.
- EXCAVATION, PANING AND STORM SEWER WORK SHALL BE DONE IN ACCORDANCE WIT F.D.O.T. "STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION" AND CITY OF APPRIX SPECIFICATIONS.
- 3. UNLESS OTHERWISE HOTED, CRADE TO MEET EXISTING ELEVATIONS AT PROPERTY LINES. CONTRACTOR SHALL PROVIDE POSITIVE DRAWINGE OF THE SITE TO THE RETENTION POWDS AS SHOWN BY PROPOSED GRADES AND FLOW ARRIONS.
- 4. DURING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE ADEQUATE DRAWAGE AND PROPER SOIL EROSION CONTROL NEASURES FOR PROTECTION OF ALL DRAWAGE AND SEVER STRUCTURES AND AT ALL ADJACENT LAND AND FOR DRAWAGE.
- 5. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY AND ALL GEOTECHNICAL REPORTS PREPARED FOR THE SITE.
- 6. SOIL BORINGS AND SQIL ENGINEERING SERVICES HAVE BEEN PROVIDED BY UNIVERSAL ENGINEERING SCIENCES INC. AND ADDITIONAL SERVICES MILL BE PROVIDED TO THE CONTRACTOR UPON REQUEST TO THE OWNER. THIS ENGINEERING THAN ASSUMES NO RESPONSIBILITY FOR THE CORRECTIESS, ACCURACY AND COMPLETENSS OF THEIR MORK. EXCHANGING OF UNSUITABLE FILL AND COMPACTION SHALL BE DONE IN ACCORDANCE WITH THE SQIL REPORTS.
- 7. THE SITE SHALL BE CLEARED OF ALL TREES EXCEPT THOSE WHICH ARE DESIGNATED TO BE SAVED OR RELOCATED. BEFORE CONSTRUCTION, THE CONTRACTOR SHALL MEET AT THE SITE WITH THE OWNER, AT THIS TIME, ANY TREES TO BE SAVED SHALL BE POINTED OUT AND TAGGED, THESE TREES SHALL BE PROTECTED FROM DAMAGE.
- 8. THE CONTRACTOR SHALL LOCATE ALL UTILITIES OR UNDERGROUND STRUCTURES PAROR TO CONSTRUCTION AND HOTHEY EACH RESPECTIVE UTILITY OWNER FORTY—EIGHT HOURS (THO WORKHIE DAYS) PHOR TO COMMERCEMENT OF CONSTRUCTION.
- THE CONTRACTOR SHALL IMMEDIATELY HOTIFY THE SUPERVISING ENGINEER IF A PAVEMENT OR FOUNDATION STAKE IS DISTURBED.
- THE CONTRACTOR SHALL INSTALL DROP CURBS AND HANDICAP RAMPS AT ALL INTERSECTIONS OF THE SIDEWALK WITH THE PROPOSED PAYEMENT.
- 12. ALL MANHOLE AND INLET STRUCTURES SHALL BE PRECAST CONCRETE.
- 13. THE CONTRACTOR SHALL USE CONCRETE WITH A MIN. 28 DAY STRENGTH OF 3,000 P.S.L.
- 14. ALL SIDEWALK MIDTHS SHALL BE 5' OR AS NOTED AND SHALL HAVE 1" DEEP CONTRACTION JOINTS EVERY 5' AND AN EXPANSION JOINT EVERY 20' MIN. SIDEWALK
- 15. PROMOE F.O.O.T. TYPE III SILT FENCE ALONG THE PROPERTY LINES AND PHASE UNES AS WELL AS ANY CONSTRUCTION WITHIN THE OTHER PHASES THAT IS DEEMED NECESSARY.
- 16. ALL TEST REPORTS CENERATED BY A TESTING FIRM ARE TO HAVE COPIES SENT DIRECTLY TO CITY OF APOPKA AS SOON AS THEY ARE CENERATED. CLEARANCE FROM CITY OF APOPKA SHALL BE RECEIVED PRIOR TO PAWHG.
- 17. CONTRACTOR SHALL COMPLY WITH ALL CITY OF APOPKA REQUIREMENTS FOR INSPECTION AND TESTING.
- 18. ALL CONCRETE PIPE JOINTS SHALL BE WRAPPED IN FILTER FABRIC.
- 19. ALL TRAFFIC CONTROL SIGNS, MARKINGS AND STREET HAME SIGNS ARE TO CONFORM TO FD.O.T. AND ROADWAY AND TRAFFIC DESIGN STANDARDS, MANUAL OF UNFORM TRAFFIC CONTROL DEMCES, CITY OF APOPHA L.D.C. AND CITY OF APOPHA CODES.
- 20. REGULATORY SIGNS AND MARKINGS SHALL, BE IN PLACE PRIOR TO FINAL INSPECTION OF PAYING AND DRAINAGE IMPROVEMENTS.
- 21, PAVEMENT RETURN RADII SHALL BE MEASURED FROM THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- 22. POND SLOPES AND BERMS SHALL BE SOCKED, BOTTOM OF POND SHALL BE SEEDED.
- 23. THE BASE COURSE SHALL HOT BE CONSTRUCTED UNTIL AFTER SUBGRADE CONSTRUCTION HAS BEEN COMPLETED AND REQUIRED SUBGRADE TEST RESULTS HAVE BEEN SUBMITTED AND APPROVED BY THE CITY CHORGER.
- 24. THE FINISHED BASE COURSE SHALL BE PRIMED WITHOUT DELAY, PROTECTED FROM HEAVY TRAFFIC, AND CONTINUOUSLY MAINTAINED FREE OF DAMAGE UNTIL THE WEARING SURFACE IS APPLIED, ALL BAD AREAS SHALL BE CUT OUT AND REPLACED PRIOR TO APPLING WEARING SURFACE.
- 25. ASSUMING ACCEPTABLE CURING, THE WEARING SURFACE SHALL BE APPLIED NO SOCHER THAN SEVEN (7) DAYS AND NO LATER THAN THIRTY (30) DAYS AFTER COMPLETION.
- 26. ALL PRECASI DRAINAGE STRUCTURES TO HAVE STEEL ANGLE IRON FRAME, ALL STRUCTURES IN PAVED AREAS TO HAVE STEEL RECTRINEAR GRATES WITH H-ZO LOADING.
- 27. ALL HOPE DRAINAGE PIPE SHALL BE ADS N~12 PUSH ON WATER TIGHT JOINT PIPE OR APPROVED EQUAL

EMERGENCY WASTEWATER SPILL AND WATER MAIN BREAK PROCEDURES

- EXCAVATING CAUDIOUSLY.
 THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN EXCAVATING IN THE
 PRODUITY OF WASTERNETS FORCE MAINS AND GRAWITY SENERS. FORCE MAIN AND
 SCHIEF LOCATIONS SHOWN ON THIS ARE NOT OR COMMUNICED. CONTRACTOR
 IS RESPONSIBLE FOR HELD TENERING ENSING UNITY LOCARDIS.
- 2. TELEPHONE HORPICATION:
 THE CITY OF APORTA DISPATCH OPERATOR SHALL BE NOTIFIED MINEDIATELY IN THE
 EVERT OF A FORCE MAIN, GRAWTY SEWER OR WATER MAIN BREAK OR DAMAGE AT
 (407) 703–1731. THE CITY DISPATCH CAM BE REACHED AT (407) 703–1757.
- 3. REPAIR IMMEDIATELY ALL DAMAGE TO CITY OF APOPKA WAINS SHALL BE REPAIRED
- 4. CITY OF APOPKA UTILITIES DEPARTMENT GENERAL TELEPHONE HUNGERS:
 CITY OF APOPKA UTILITIES CONSTRUCTION INSPECTION SECTION (407) 703–1716.
 CITY OF APOPKA UTILITIES WASTERMEN DIVISION (407) 703–1731.
 CITY OF APOPKA UTILITIES WATER DIVISION (407) 703–1731.
 CITY OF APOPKA UTILITIES ENGINEERING DIVISION (407) 703–1731.
- 5. ADVANCE NOTIFICATION OF CONSTRUCTION THE CITY OF APOPKA UTILITIES CONSTRUCTION SECTION ((407) 703-1731) SHALL BE NOTIFIED AT LEAST SEVEN (7) DATS PROOF TO ANY CONSTRUCTION ACTIVITY.
- ADVANCE HORRICATION OF PENDING CONNECTION THE CITY OF APOPKA HATER DIVISION ((407) 703-1731) AND CITY OF APOPKA MASTEWATER DIVISION ((407) 703-1731) SHALL BE HORRED AT LEAST (7) DAYS IN ADVANCE TO SCHEDULE MAIN TIE-HIS AND VALUE OPERATIONS.
- OPERATION OF CITY OF APOPKA VALVES WATER, WASTEWATER, AND REUSE VALVES
 ARE TO BE OPERATED ONLY BY CITY OF APOPKA UTBJIES HISPECTOR ((407)
 703-1731), ALL VALVES BEING INSTALLED ARE TO REMAIN CLOSED DURING
 CONSTRUCTION.
- B. CPERATION OF CITY OF APOPKA PUMP STATION THE CONTRACTOR SHALL COORDINATE.
 ALL PUMP STATION OPERATION AND SHUT DOWN CONTROL WITH AN CITY OF APOPKA UTILITIES INSPECTOR ((407) 703-1731).



431 E. Horatio Avenue Suite 260

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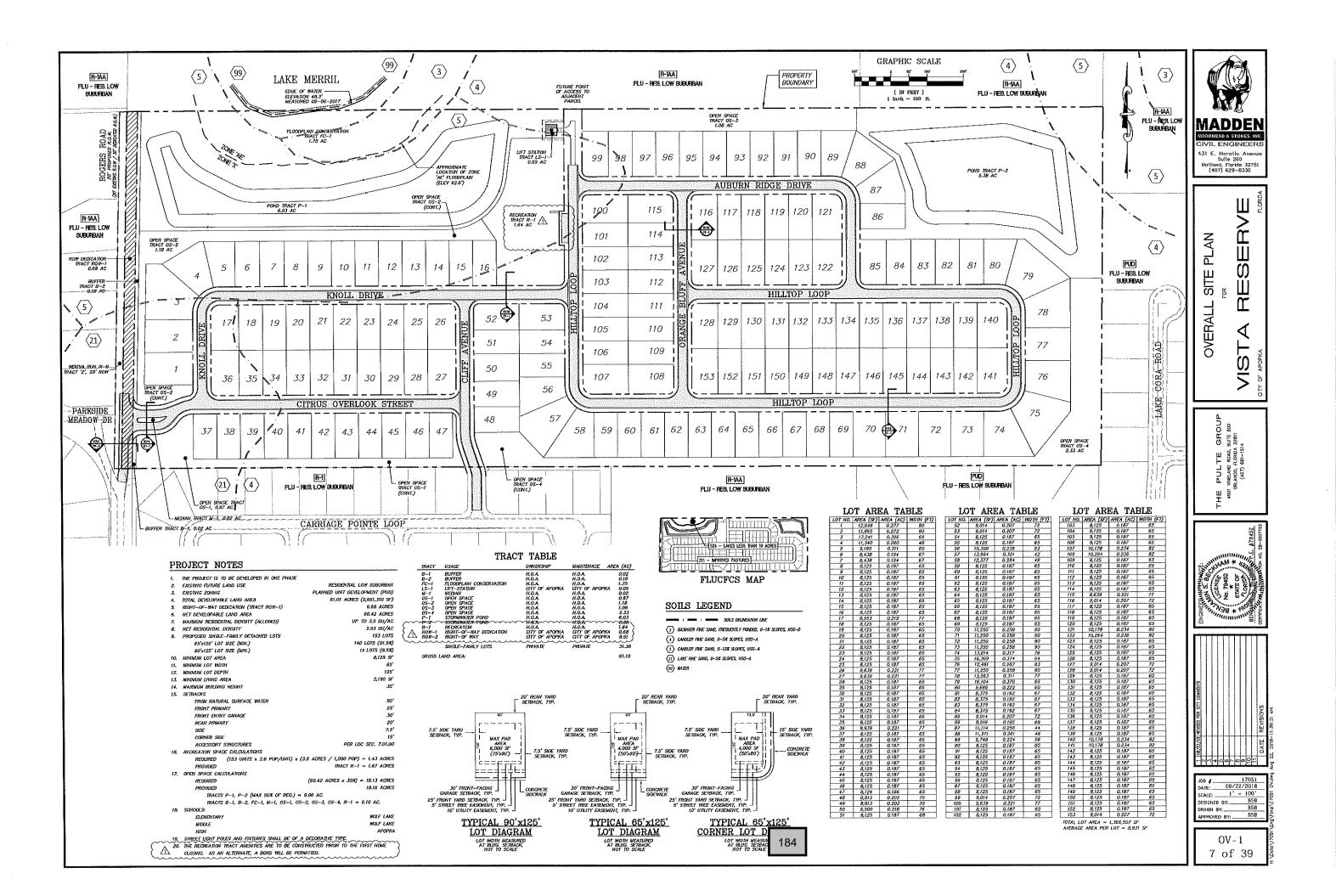
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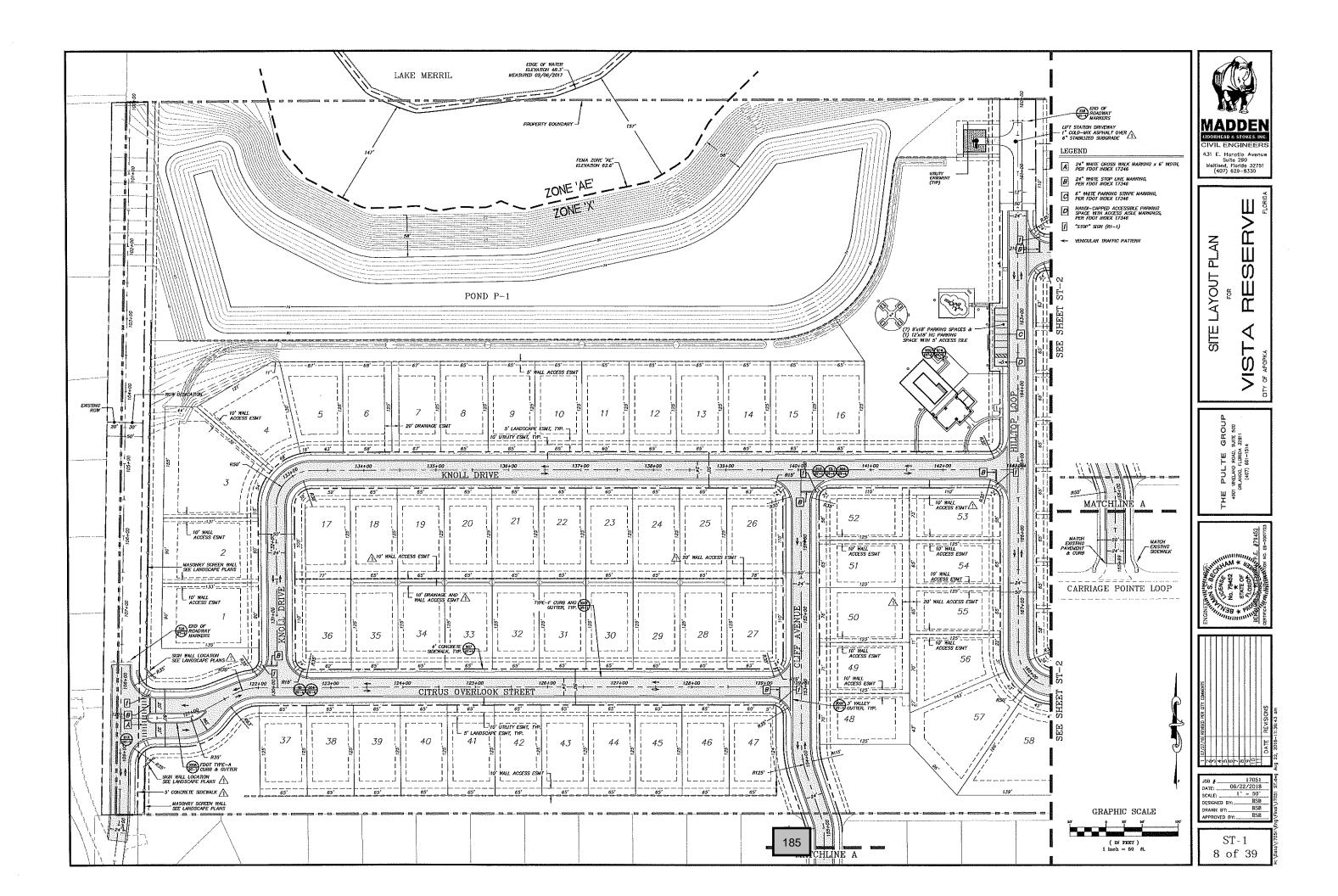


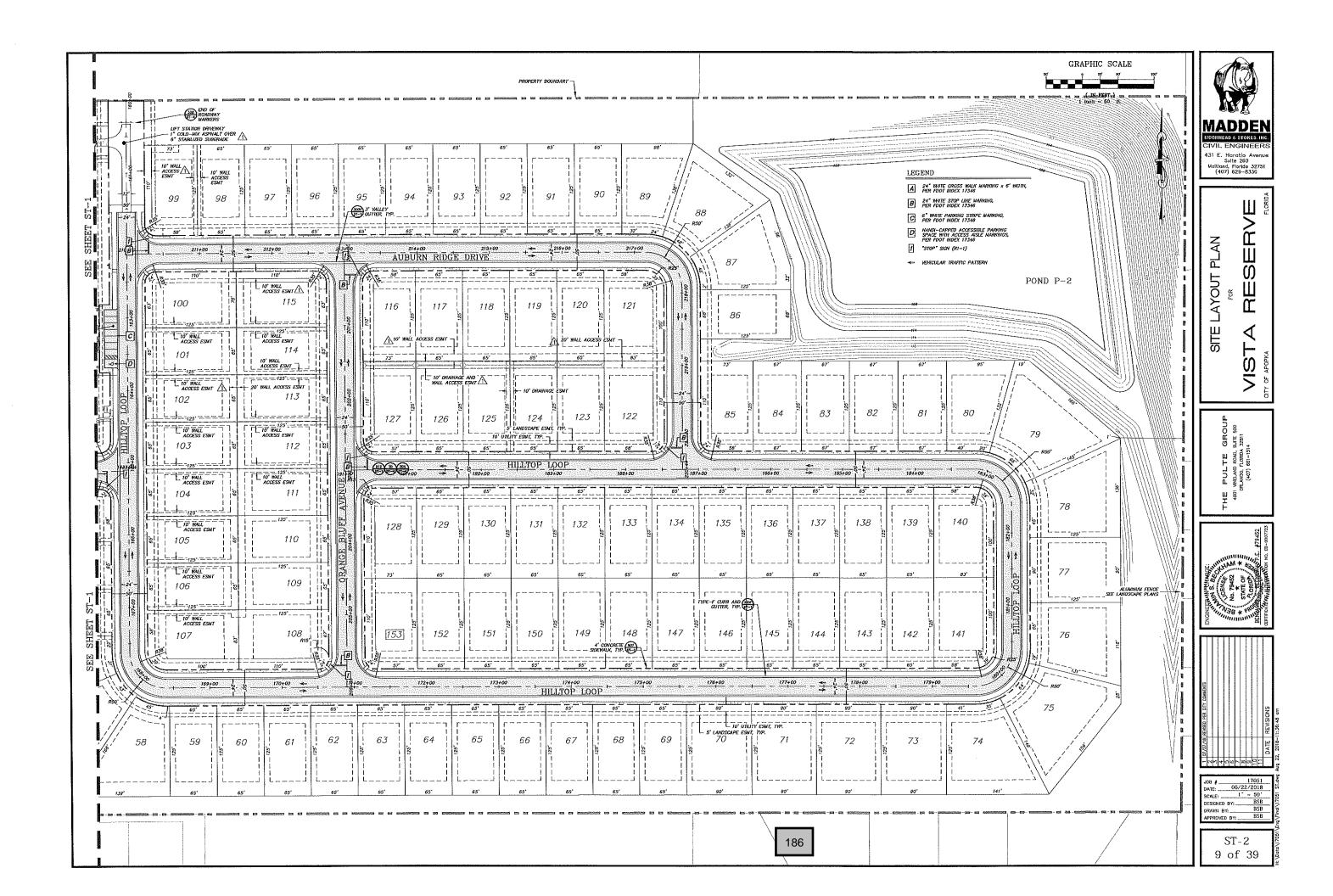
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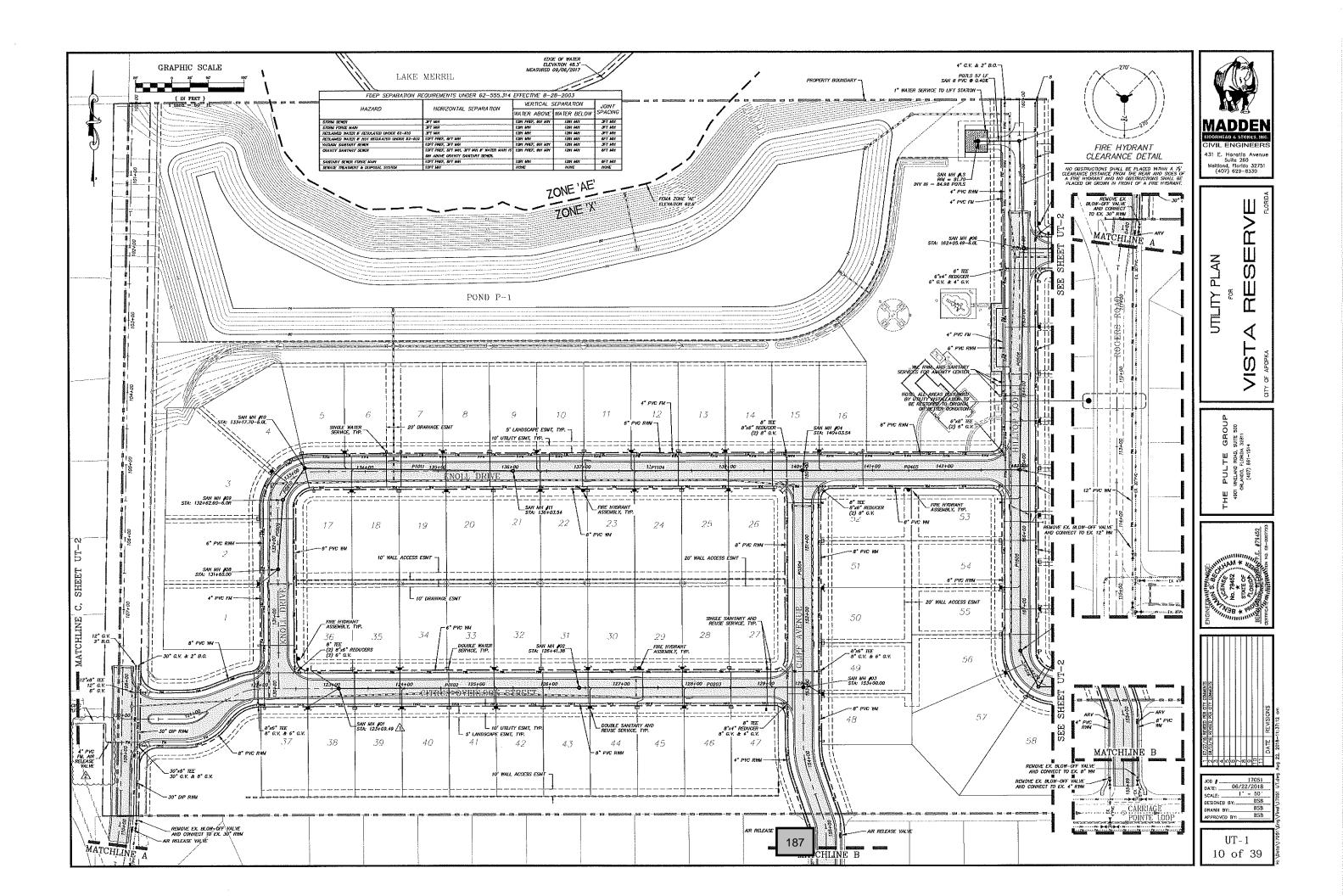
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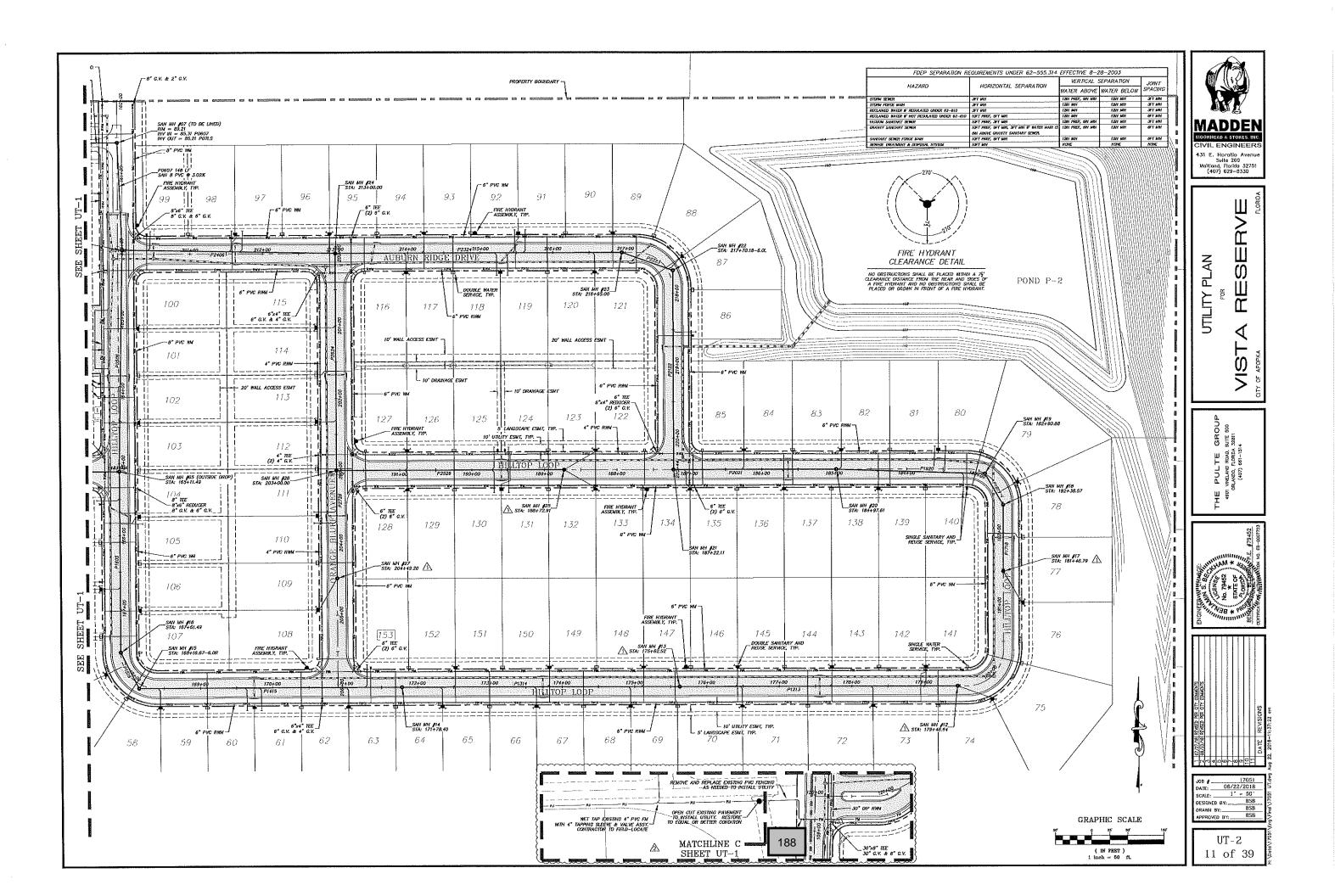
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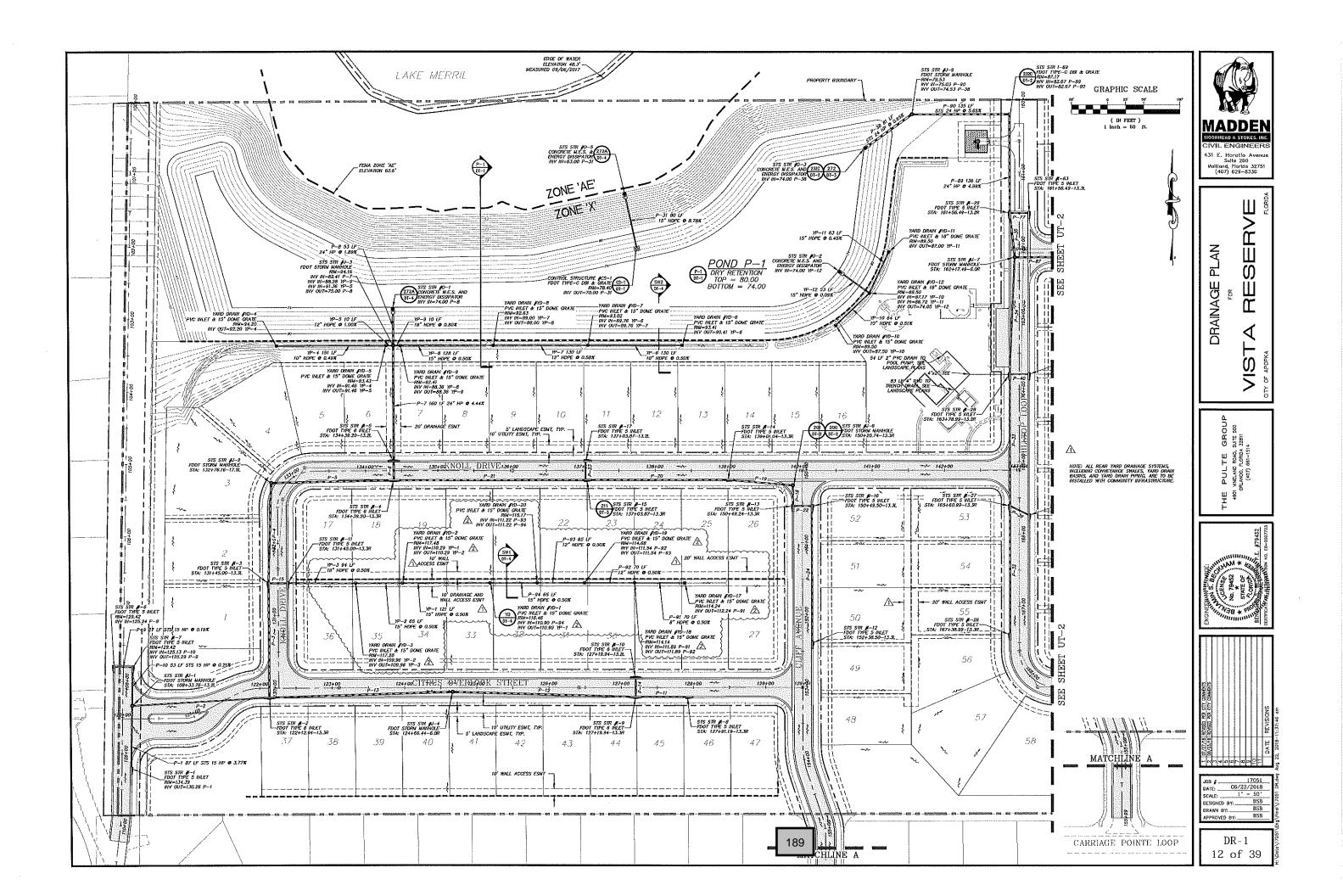


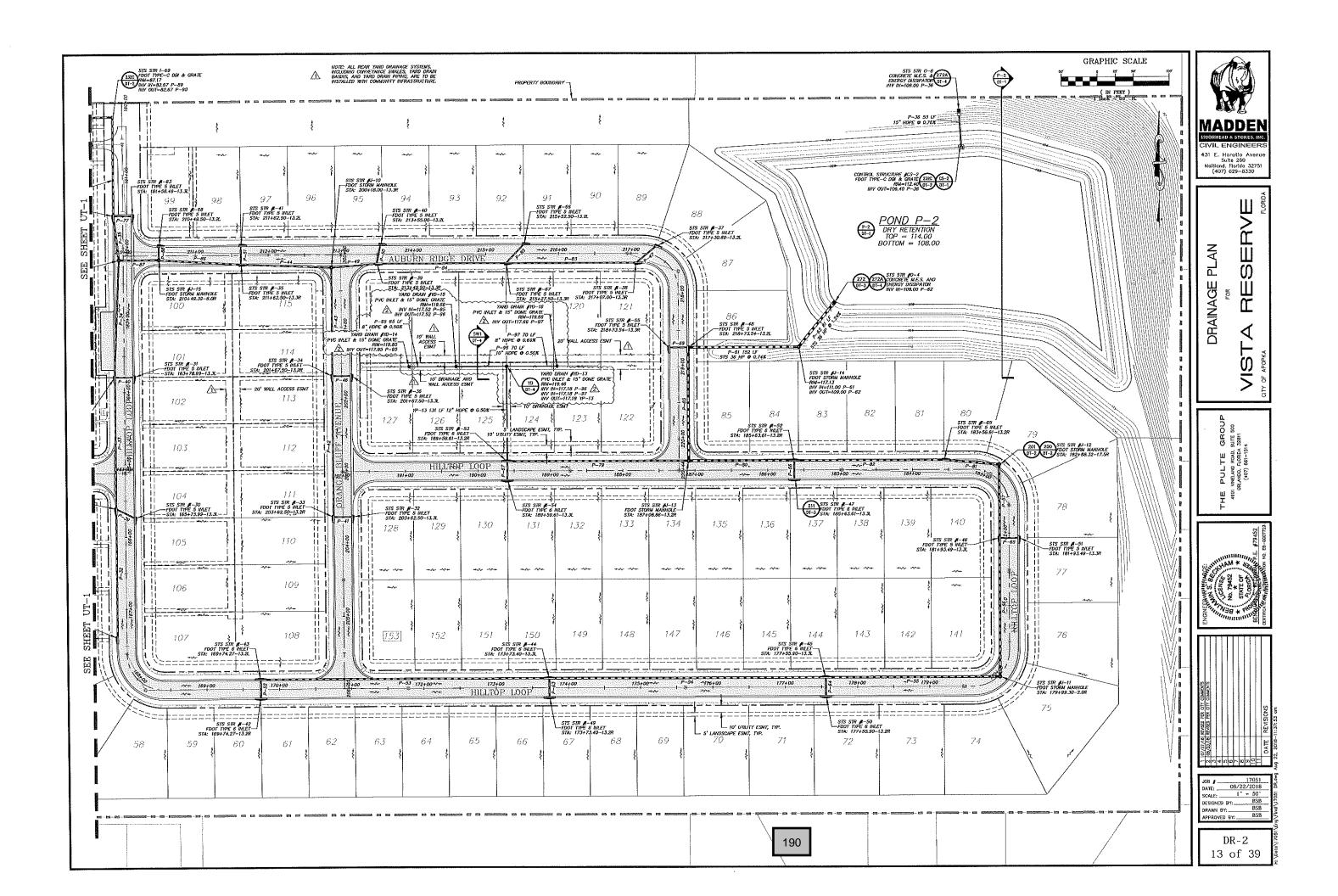


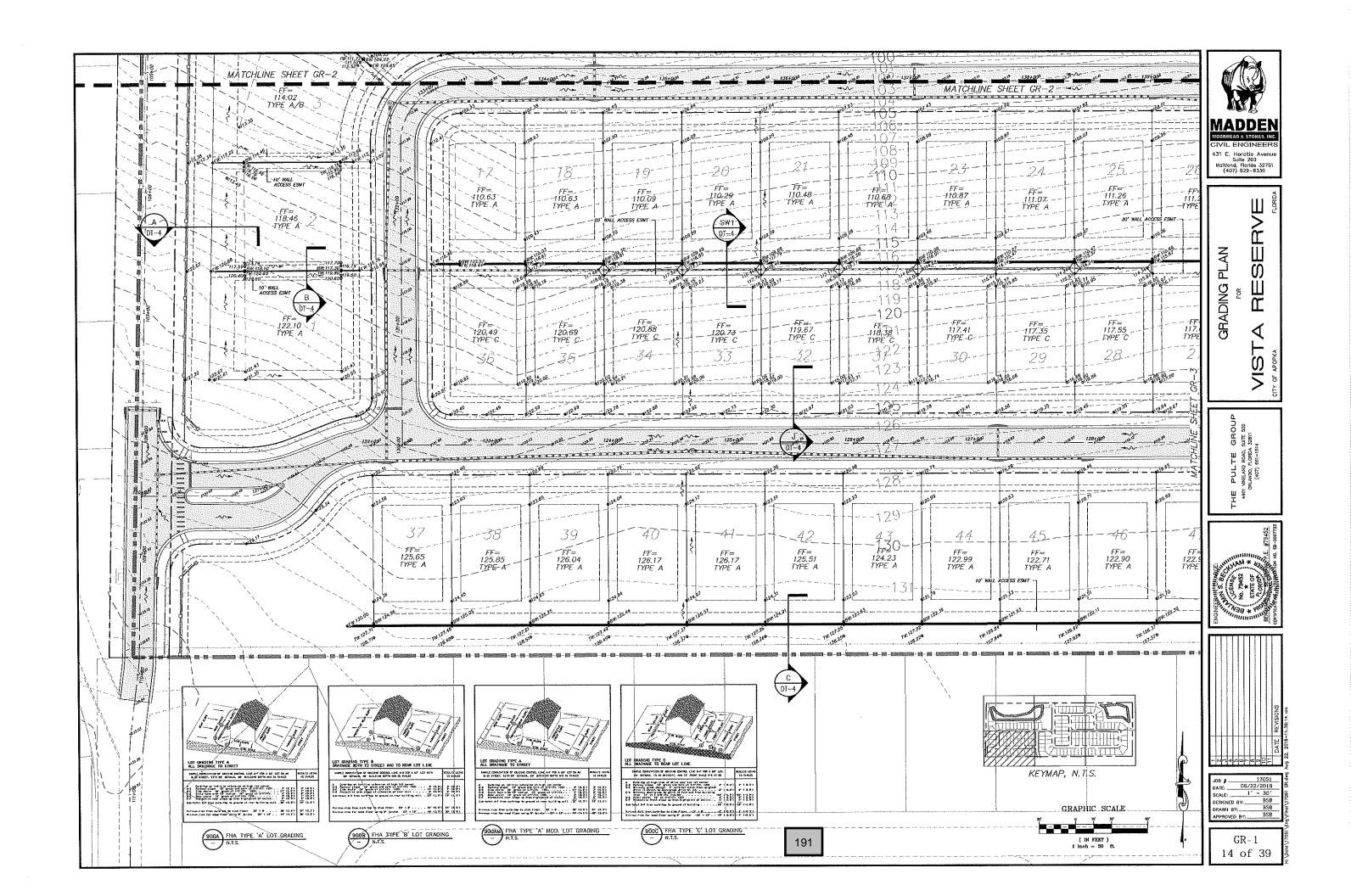


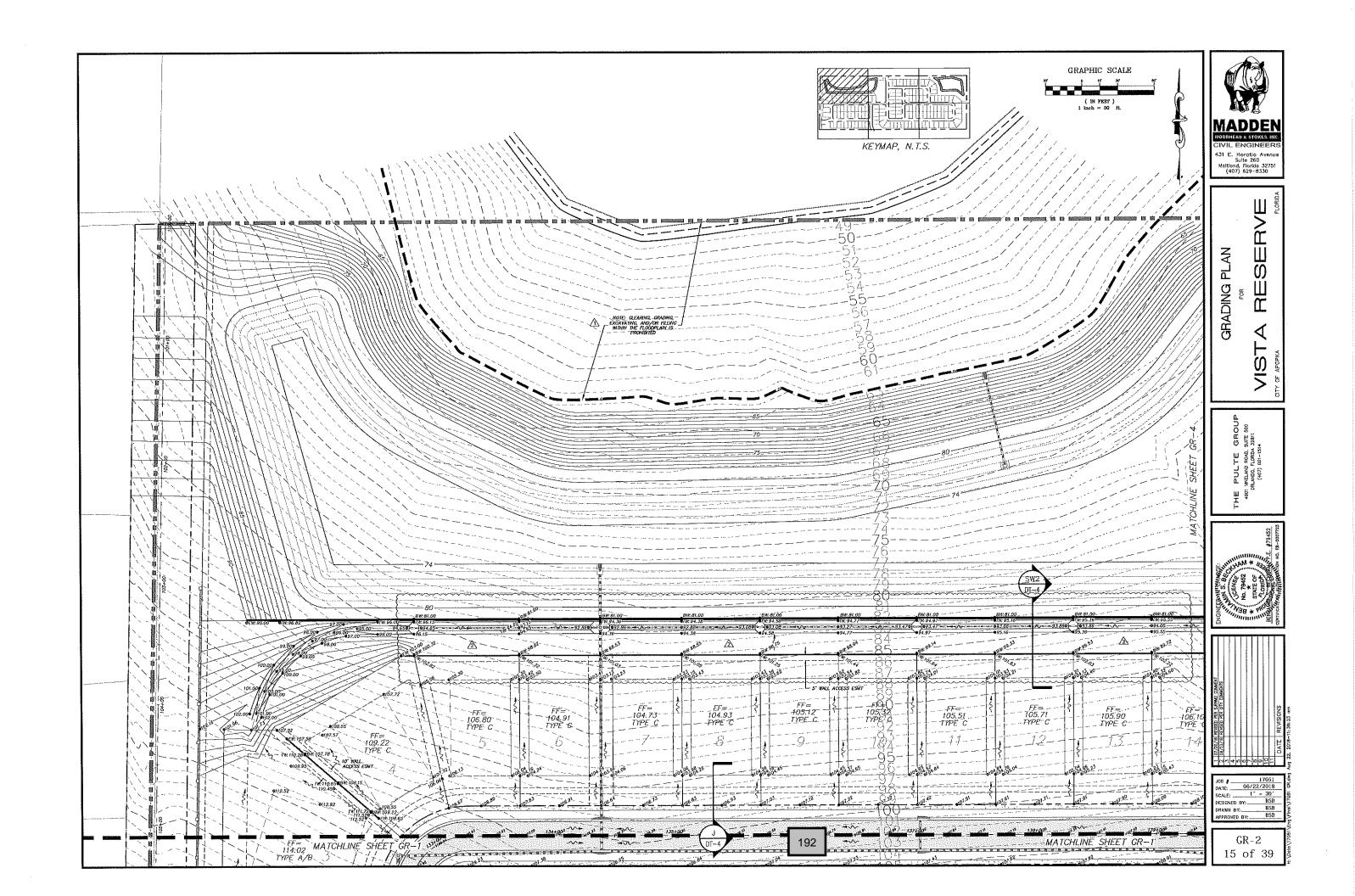


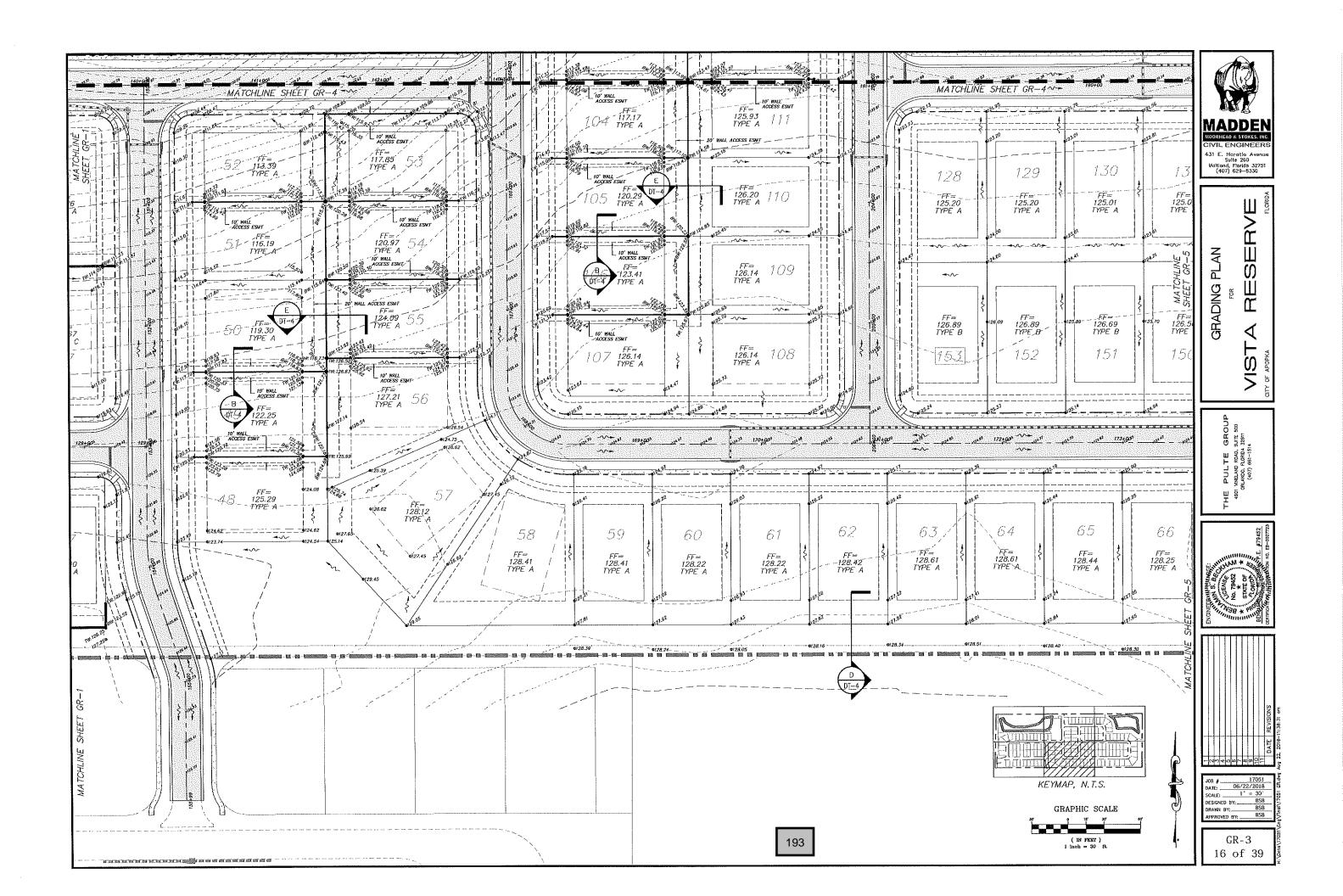


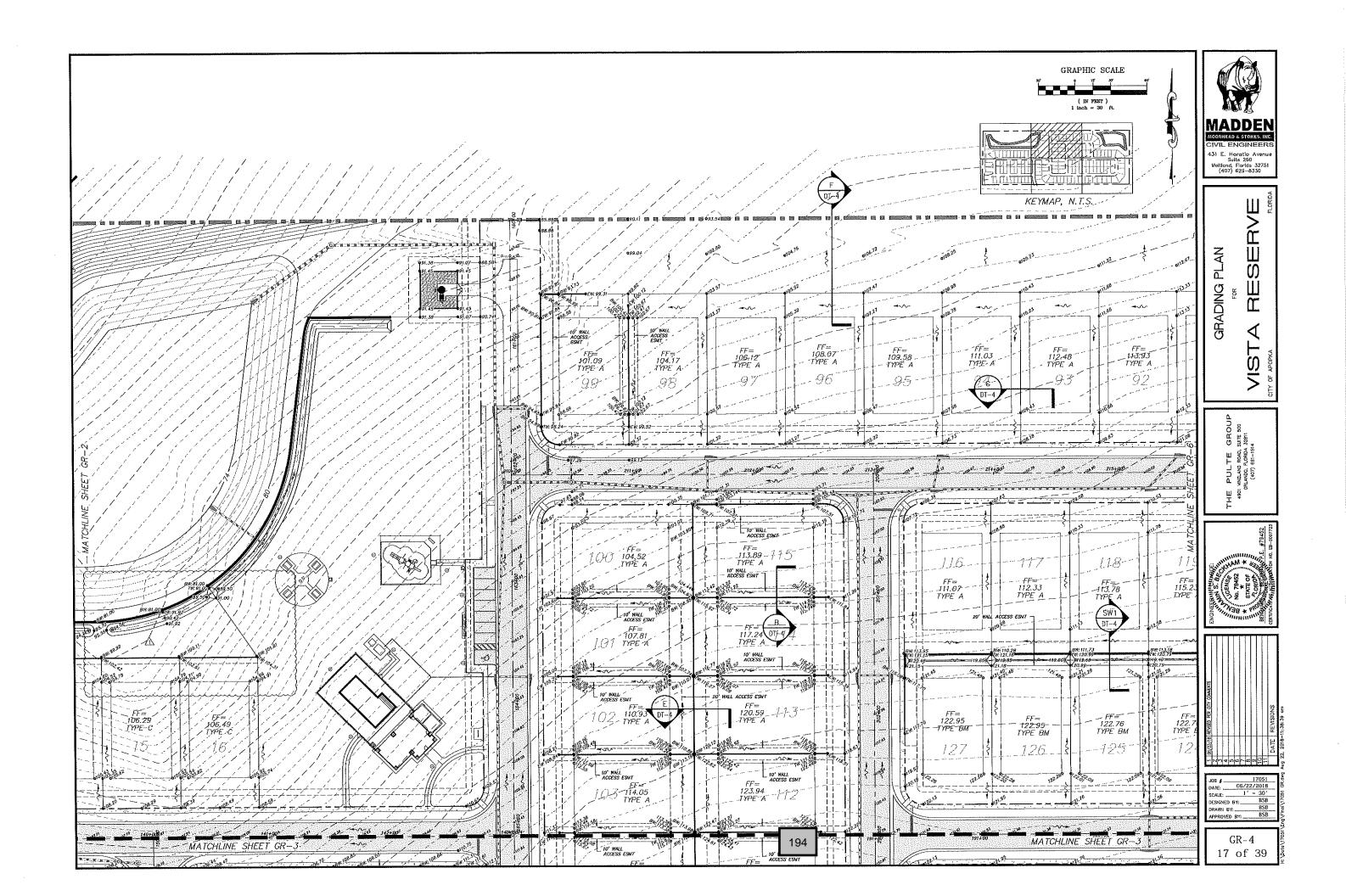


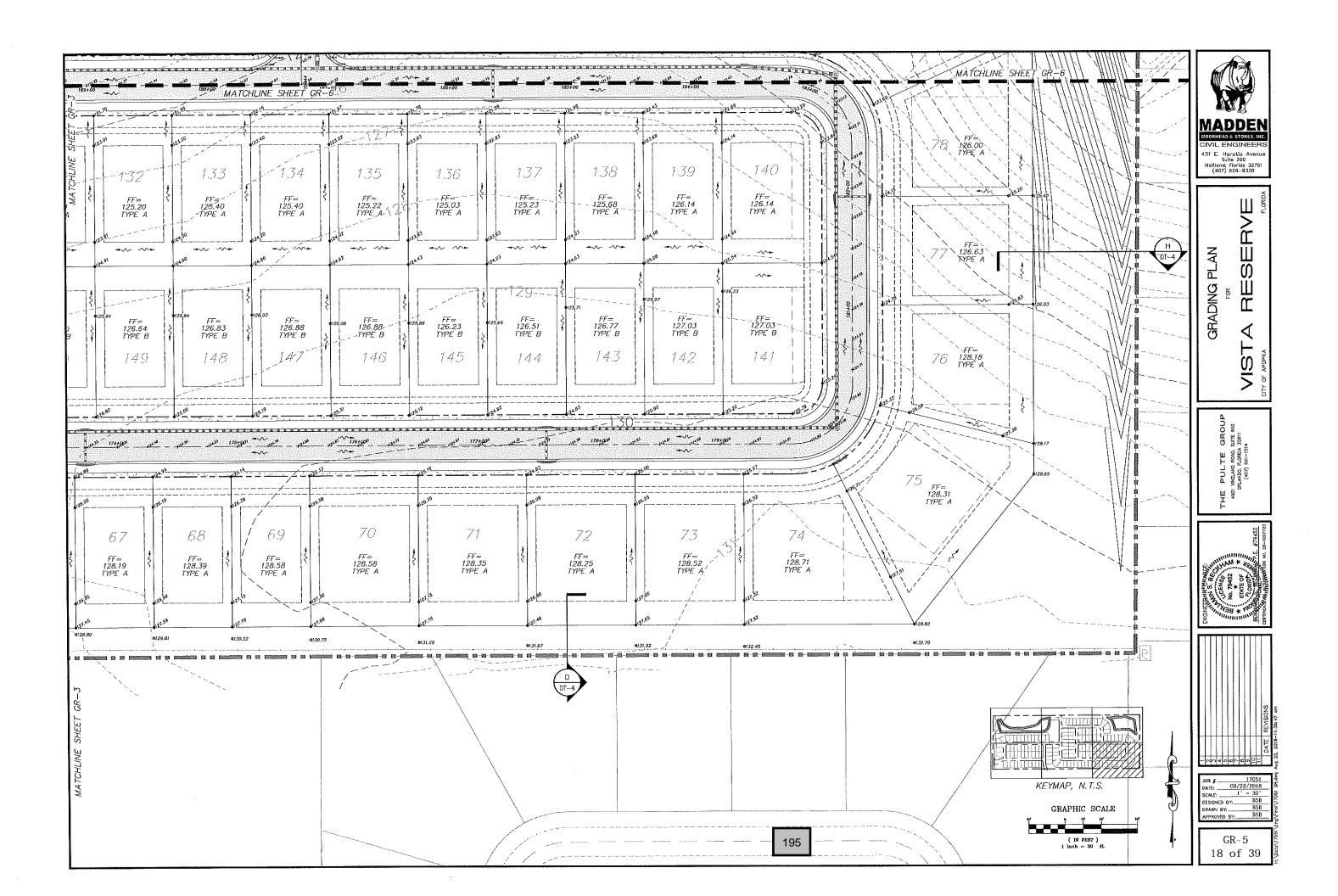


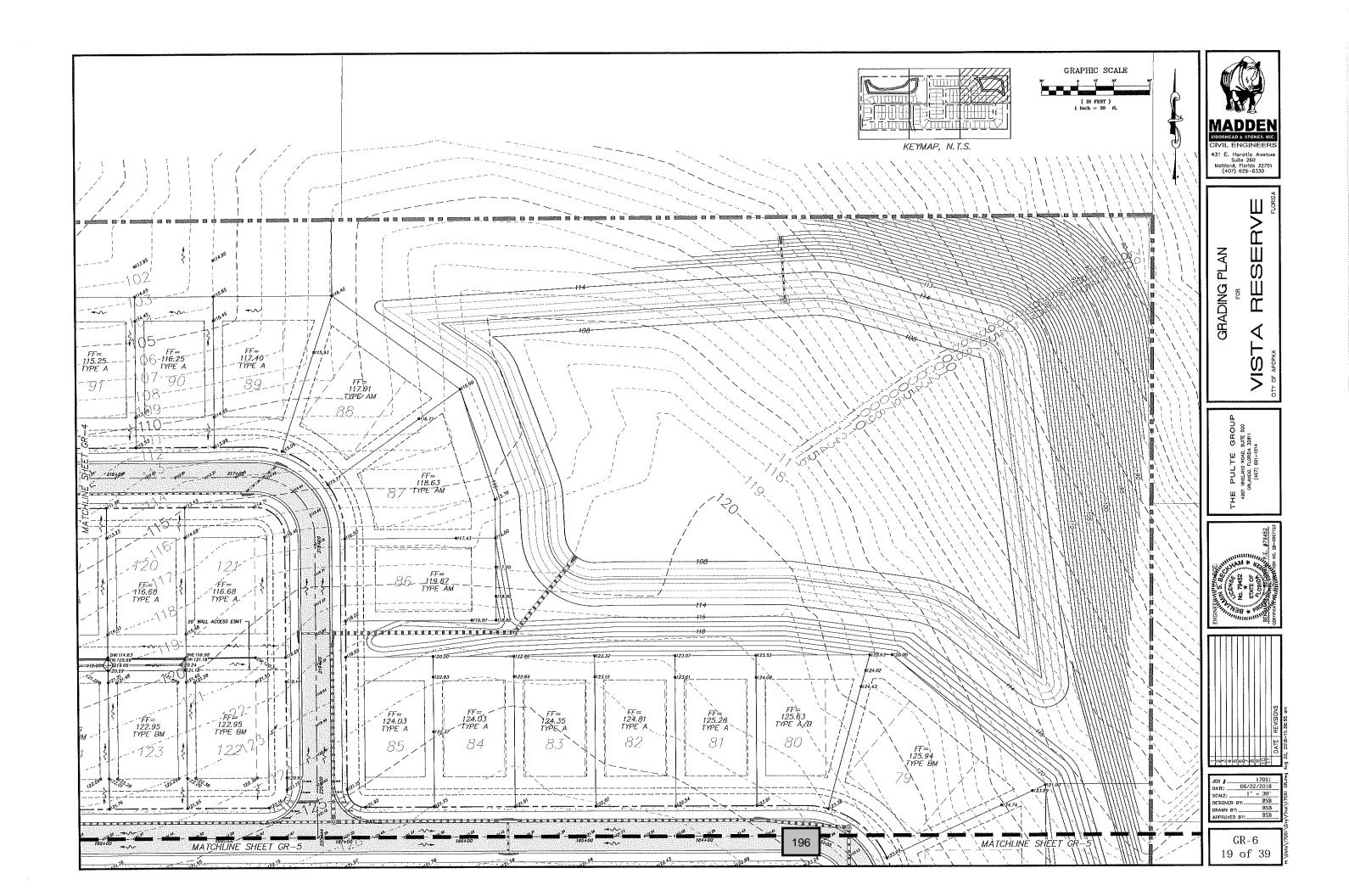


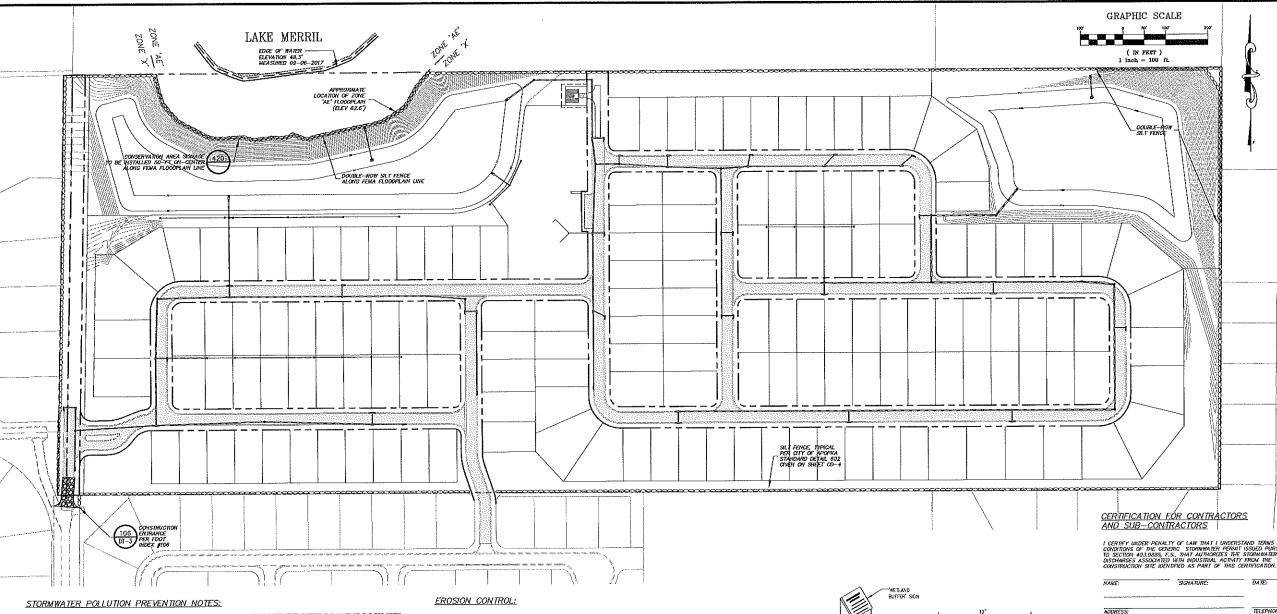












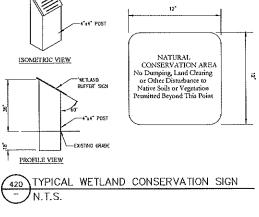
- THE CONTRACTOR SHALL EXECUTE ALL WEASURES HECESSARY TO UNIT THE TRANSPORT OF SEDMENTS OUTSIDE THE LIMITS OF THE PROJECTION FOR VOLUME AND AMOUNT THAT ARE DOSTING PHOIOR TO THE COMMENCEMENT OF CONSTRUCTION, THIS CONDITION WILL BE SATISFIED FOR THE TOTAL ANTIOPATED CONTRIGUENCY PROMISED, PROMISED WILLS BE MADE TO PRESENTE THE MISERRY GANDON PATTERNS, ETC. REQUIRED TO UNIT PROJUCED TO MEET THIS PROMISED HEADON PATTERNS, ETC. REQUIRED TO THE CONSTRUCTION, THE CONTRACTOR SHALL PROMISE SLE BARRETS, TEMPORARY CRASSMOSTICS, REQUIRED TO PULLY COMPLY WITH THE RIFERT OF THIS SPECIATION.
- NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF OWEGILY OFF THE PROJECT SITE OR INTO ANY
 ADJACENT WATER BODY OF STORMWATER COLLECTION FACULTY.
- THE SURFACE AREA OF OPEN, RAW ERODBLE SOIL EXPOSED BY CLEARNIC AND GRUBBING OPERATIONS OR EXCAVATION AND FILLING OPERATIONS
 SHALL BE CONTROLLED, SO THAT THIS OPERATION WILL NOT SIGNIFICANTLY AFFECT OFF—SITE DEPOSIT OF SEDMENTS.
- INLETS AND CATCH BASISS SHALL BE PROTECTED FROM SEDAMENT LADEN STORMMATER RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE SEDIMENT TO THE WILET.
- 5. AREAS OPENED BY CONSTRUCTION OPENATIONS THAT ARE NOT ANTICIPATED TO BE CRESSED OR RECEIVE HIAL GRASSING TREATMENT WITH IN THIRTY DAYS SHALL BE SEEDED WITH A OUTCK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER, DURING THE SEASON IN WHICH IT IS PLANTED. TEMPORARY SEEDING SHALL BE CONTROLLED SO AS TO NOT ALTER OR COMPETE WITH PERMANENT GRASSING. THE RATE OF SEEDING SHALL BE 30 POINTS PER ACRE.
- THE SEEDED OR SEEDED AND MULCHED AREA(S) SHALL BE ROLLED AND WATERED AS REQUIRED TO ASSURE OPTIMUM GROWING COMPITIONS FOR THE ESTABLISMENT OF A GOOD GRASS COVER.
- IF AFTER 14 DAYS, THE TEMPORARY GRASSES AREAS HAVE HOT ATTAINED A WINDOW OF 75% GOOD GRASS COVER, THE AREA WILL BE BENERKED AND ADDITIONAL SEED APPLIED TO ESTABLISH THE DESIRED VEGETATION COVER.
- B. ALL FEATURES OF THE PROJECT SHALL BE CONSTRUCTED TO PREVENT EROSION AND SEDMENT AND SHALL BE MAINTAINED DURING THE UFE OF THE CONSTRUCTION SO AS TO FUNCTION PROPERLY INTROUT THE TRANSPORT OF SEDMENTS OUTSIDE THE UNITS OF THE PROJECT.
- ALL DISTURBED AREAS OUTSIDE THE EXCAVATION AND FILL LIMITS WILL BE RESTORED TO A CONDITION EQUAL TO ON BETTER THAM THEIR
 CONDITION PRIOR TO CONSTRUCTION.
- 10. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE OF ALL NEWLY PLANTED GRASSES OR VEGETATION AND RETENTION/DETENTION FACULTIES WHILL THE WORK HAS BEEN ACCEPTED BY THE CITY.
- 11, THE CONTRACTOR SHALL BE RESPONSBLE FOR THE STABILITY OF ENBANKMENTS AND SHALL REPLACE ANY PORTION, MHICH IN THE OPINION OF THE ENDINEER, HAS BECOME DISPLACED. DUE TO EROSION OR DUE TO CARELESSNESS OR NEGLIGENCE ON THE PART OF THE CONTRACTOR.
- 12. THE CONTRACTOR SHALL COMPLY MITH ALL FEDERAL, STATE, AND LOCAL LAWS AND REGILATIONS CONTROLLING POLLUTION OF THE ETHEROMETH, MEASURES SHALL BE TAKEN BY THE COMPRACTOR TO CONTROL ENGINE AND SEDWENT RUMOFF FROM THE SITE DURING CONSTRUCTION, SHOW METHORS SHALL BE IN ACCORDANCE WITH THE COMPARTMENT OF THAT MEMORYMENON SHAMPORTATION SHOWNED.
- 13. ABSOLUTEY HO WORK WILL BE ALLOHED WITHIN ANY CONSERVATION AREA, BUFFER AREA, MITIGATION AREA OR DESIGNATED WETLAND AREA WALESS SO SPECIONALLY DESCRIBED BY THE PLANS AND GRANIED BY REASON OF PERMIT FROM THE GOLERIMMENTAL ENTITY HAVING JURSOCION OVER SAO AREA.
- 14. PRIOR TO CLEARING AND GRUBBING, THE UNITS OF HETLANDS, BUFFERS METLANDS, BUFFERS AND INTIGATION AREAS SHALL BE CLEARLY MARKED ALONG THE PROPOSED RIGHT OF WAY LINE TO PROTECT THESE AREAS FROM ENCROCHMENT FROM CONSTRUCTION ACTIVITIES.
- ALL FILL EMBANKWENT AND GRADED AREAS SHALL BE PROTECTED ACARIST EROSION BY METHODS STATED IN SECTION 104. F.D.O.T. STANDARD SPECIFICATIONS FOR BRIDGE AND ROAD CONSTRUCTION. SOE SLOPE MAY BE SEED AND MILLCHED, PROVINCID THAT THE FULCH MATERIAL IS USEC HARRORD AND THE SIDE SLOPES ARE HEITHER CREATER THAN ST. HOST PART OF A DRANTAGE CONVENIENCE.
- IG REFER TO POND DETAIL SHEETS FOR EROSION CONTROL MEASURES AT POND OUTFALLS.
- 17. EROSION CONTROL AT ALL BILLET DRAINAGE STRUCTURES DURING CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH FDOT HIREX NO. 102.
- 18. INSPECTIONS ON EROSON CONTROL MEASURES WILL BE PERFORMED BY THE CONTRACTOR ONCE PER WEEK AND WITHIN 24 HOURS AFTER 1/4
 INCH OF RAINFALL. THE INSPECTIONS MUST BE LOGGED BY THE CONTRACTOR AND KEPT WITH THE APPROVED FLANS AND SWPPP.
- GRAVEL CONSTRUCTION ENTRANCES SHALL BE PROVIDED TO MINIMIZE EXPORT OF ONSITE DIRT. IF GRAVEL IS NOT ALLOWED, THE CONSTRUCTION ENTRANCES SHALL BE SHEPT FERROMOMENTY AND LOGGED BY THE CONTRACTOR.

THE CONTRACTOR SHALL PERFORM EROSION CONTROL MEASURES IN ACCORDANCE WITH CITY OF APOPHA AND THE S.J.R.W.M.D., DETAILS CONTAINED IN THE PLANS, THE FOLLOWING NOTES AND AS DIRECTED BY THE ENGINEER.

- A. TEMPORARY EROSION CONTROL
- STOCKPILING MATERIAL, NO EXCAVATING MATERIAL SHALL BE STOCKPILED IN SUCH A MARKER AS TO DIRECT RUIGHT DIRECTLY OFF THE PROJECT SITE OF INTO ANY ADJACENT WATERBOOY OR STORMMATER COLLECTION FACILITY.
- IHLET PROTECTION INLETS AND CATCH BASINS SHALL BE PROTECTED FROM SEDMENT— LADEN STORM RUHORI DIRECTLY OFF THE PROJECT SIE OR INTO ANY ADJACENT WATERBOOY OR STORMWATER COLLECTION FACILITY.
- 3. TEMPORARY SETUNG / STRIP SCHONIG AREAS OPENED BY CONSTRUCTION OPERATIONS AND THAT ARE HOT ANTICIPATED TO BE DRESSED AND RECEIVE FINAL GRASSING TREATMENT WHITH THIRTY DAYS SHALL BE STRIP-SCORED ALONG ALL DEGOLATE DAYS. THIS HILL PREVENT SEDIMENT REMORE FROM MIND DRAHLAGE SYSTEMS, AND WILL HOT LATER COMPETE WITH THE PERMANENT LOT CRASSING.
- TEMPORARY SEEDING AND NULCHING SLOPES STEEPER THAN 6:1 THAT FALL WITHIN THE CATEGORY ESTABLISHED IN HOTE 3 ABOVE SHALL ADDITIONAL RECEIVE MILLORING OF APPROXIMATELY 2 HOTES LOOSE MEASURE OF NULCH MATERIAL CUT HITO THE SOL OF THE SEEDED AREA TO A DEPTH OF 4 MICHES.
- TEMPORARY CRASSING THE SEEDED OR THE SEEDED AND MULCHED AREA(S) SHALL BE ROLLED AND WATERED AS REQUIRED TO ASSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER.
- TEMPORARY REGRASSING -- IF AFTER FOURTEEN DAYS, THE TEMPORARY GRASSED AREAS HAVE NOT ATTAINED A
 MINIMUM OF 75% GOOD GRASS COVER THE AREA MILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT
 TO ESTABLISH THE DESIRED VECTATION COVER.
- 7. THE CONTRACTOR SHALL PLACE HAY BALES AROUND ALL EXISTING AND NEWLY CONSTRUCTED INCETS TO CONTROL EROSION DURING CONSTRUCTION.
- B. PERMANENT EROSION CONTROL

THE ENGINE CHITEK FACILITYS OF THE FROLECT SHOULD BE DESCRIBE TO DIRRUPE THE HUPLOT ON OFT-SITE FACILITYS. ALL FORWARDES DESCRIBES FROM THE PROJECT UNITS SHALL BE ROUTED THROUGH OFTENTION HASHIS TO THAN SUSPERIORD SERVICITY AND DISCHARGE FACILITIES FROM THESE BASHIS SHALL BE PROVIDED WITH A SHOWLER DEVICE TO THAN PLANTABLE DEPERS.

- PERMANENT SEEDING ALL AREAS WHICH HAVE BEEN DISTURBED BY THE CONSTRUCTION MILL, AS A MINIMUM, BE FERRUZED AND SEEDED.
- PERMANENT SEEDING AND MULCHING SLOPES OF 6:1 TO 4:1 INCLUSIVE WILL BE MALCHED WITH A UNIFORM THICKNESS OF APPROXIMATELY TWO INCHES, LOOSE MEASURE, OF MULCH MATERIAL INCORPORATED WITO THE SOIL BY MUNICI DO A DEPTH OF FOUR MICHES.
- PERMANENT SCOORIG ALL RETENTION/DETENTION BASINS SHALL BE SCOODED WITHIN THEIR UMITS. ALL EXPOSED AREAS WITHIN PUBLIC RICHT-OF-BAYS WIL BE SOUD SCOODED. OTHER AREAS WITH AREAS WITH SLOPES STEEPER THAN 4:1 MILL BE SCOODED.
- 4. STRIP SODOHIG STRIP SOD SHALL BE PLACED ADJACENT TO ALL CURBS, WALKS AND PAVEMENTS.
- REGRASSING ALL GRASSED AREAS WILL BE MAINTAINED TO ASSURE A GOOD STARD AND SUFFICIENT GROUND COVER TO MINUMZE ERGOSON, IF, AFTER 60 DAYS AN ADEQUATE GROUND COVER HAS NOT BEEN ESTABLISHED, THE AREA MILL DE REGRASSED.
- 6. ADDITIONAL FERTILIZATION CRASSED AREAS NOT ACCEPTED WITHIN 90 DAYS OF THEIR COMPLETION SHALL BE FERTILIZED. 7. FOR ADDITIONAL SODDING REQUIREMENTS, REFER TO THE LAHOSCAPE PLANS.



197

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND TERMS AND COMBINONS OF THE GENERIC STORMWATER PERMIT ISSUED PURSUANT IN SECTION 403.0865, F.S., THAT AUTHORIES THE STORMWATER RISCHROES ASSOCIATED WITH MOUSTRAL ACTIVITY FROM THE CONSTRUCTION STEE IDENTIFICAL PAR PART OF THIS CERTIFICATION. ADDRESS: ADDRESS:

4DORESS:

SIGNATURE: DATE: TELEPHONE: I CERTIFY UNDER PEHALTY OF LAW THAT I UNDERSTAND TERMS AND CONDITIONS OF THE GENERIC STORMMATER PERMIT ISSUED PURSOANT TO SECTION 403,0885, F.S., THAT AUTHORIZES THE STORMMATER DISCHARGES ASSOCIATED WITH MODIFICAL ACTIVITY FROM THE CONSTRUCTION SEE DEDIFIEDE AS PART OF THIS CERTIFICATION. SIGNATURE: DATE TELEPHONES I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND TERMS AND COQUITIONS OF THE GENERIC STORMMARE PERMIT ISSUED PURSUANT O SECTION 403.0895, F.S., THAT AUTHORIZES THE STORMMARE ASSOCIATED WITH INDUSTRAL ACTIVITY FROM THE CONSTRUCTION SEE DEDITIFIED AS PART OF THIS CERTIFICATION. SIGNATURE: DATE: ADDRESS: TELEPHONE: I CERTIFY UNDER PEHALTY OF LAW THAT I UNDERSTAND TERMS AND CONDITIONS OF THE GENERIC STORMWHER FEBRUIK ISSUED PURSUART OF SECTION JOBOBS, F.S., THAT AUTHORIZES HE STORMWHEATH FOR SCHARCES ASSOCIATED WITH ROUSTRIAL ACTIVITY FROM THE CONSTRUCTION STEE DERIVITY AS PAPER OF HIS CERTIFICATION. SONATURE-DATE:

DATE

TELEPHONE:

TELEPHONE:



431 E. Horatio Avenu Suite 260 Maltiand, Florida 32751 (407) 529-8330

PLAN Ш **PROTECTION** Ш Ō

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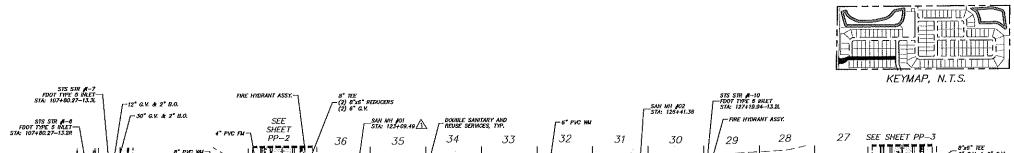
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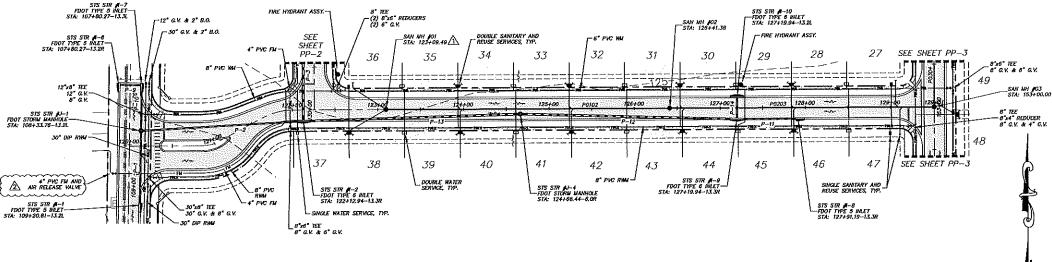




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EC-1 20 of 39

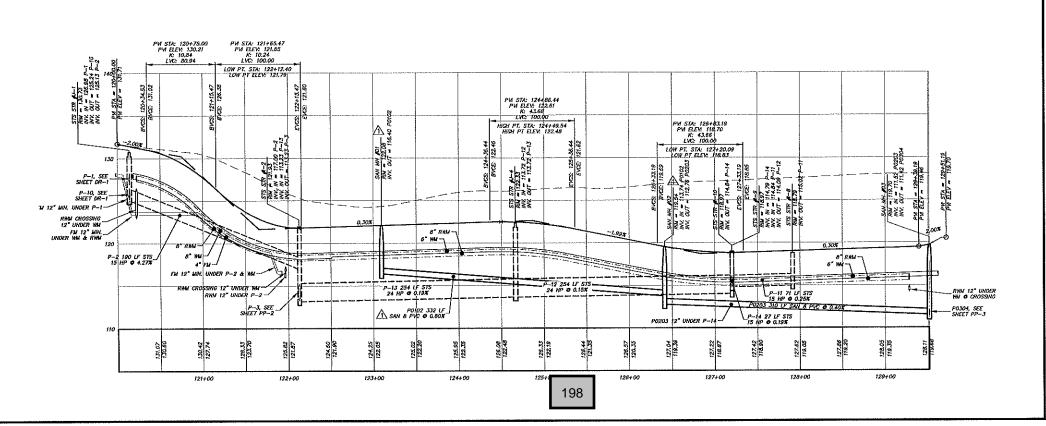




CITRUS OVERLOOK STREET

NOTE: UNLESS HOTED OTHERWISE, WATER MAINS, RECLAIMED WATER MAINS, AND FORCE MAINS ARE TO BE INSTALLED WITH A WINIMUM OF 3 FEET OF COVER.

GRAPHIC SCALE





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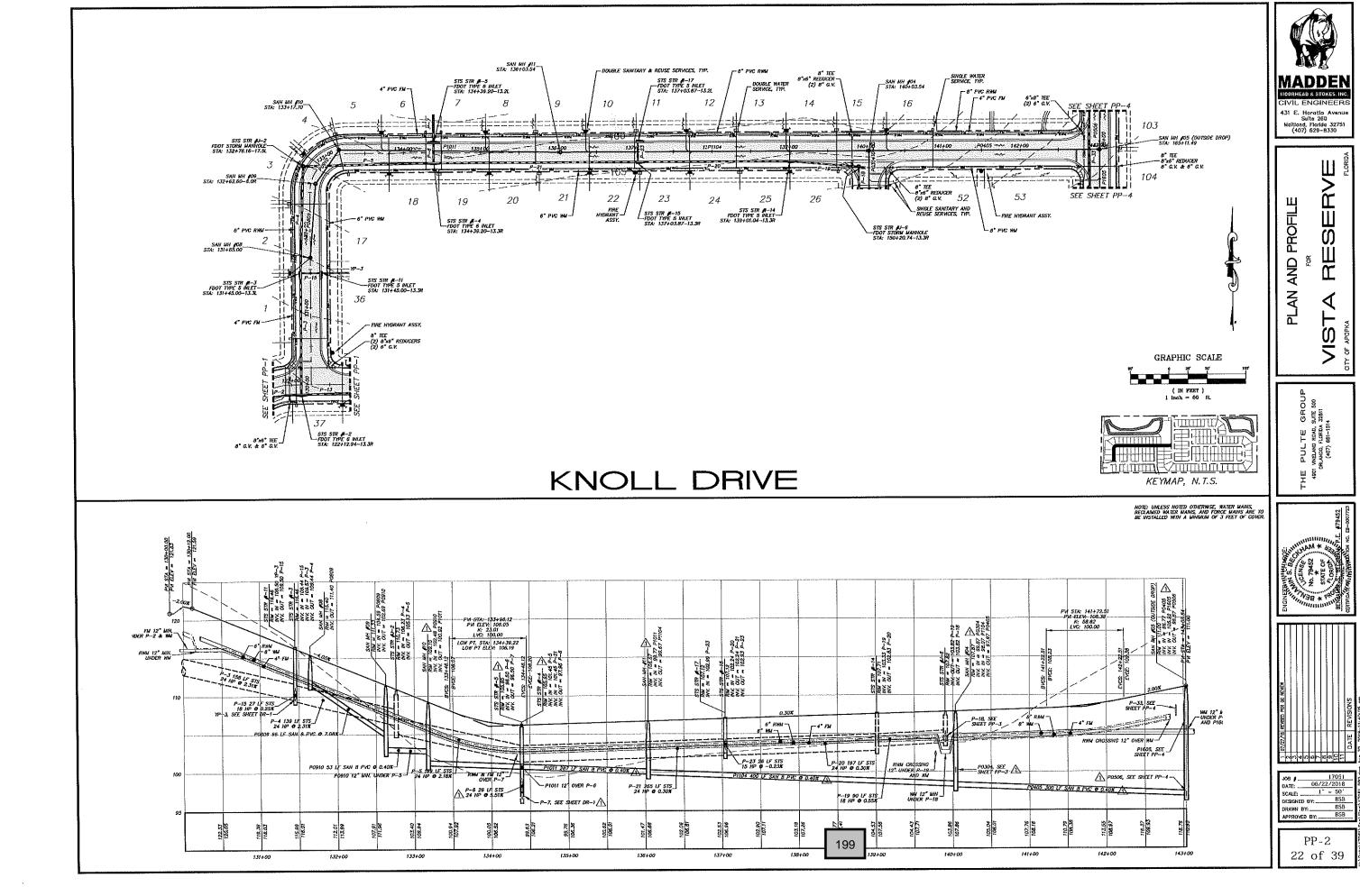
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401 WIELND ROW, SUITE 500
60LAND, FLORIDA 22811
(407) 851-1514

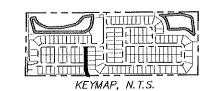


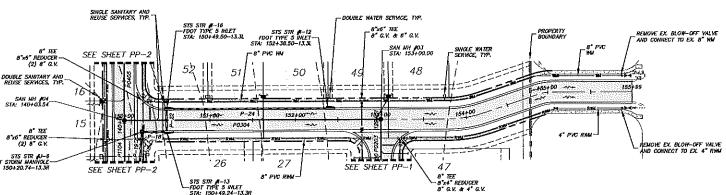
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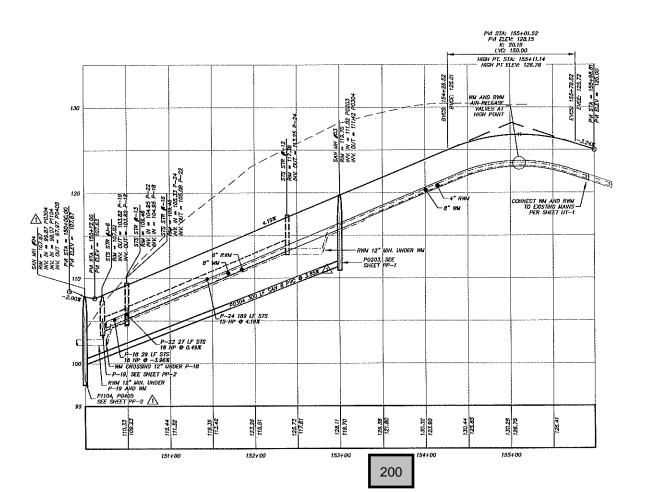
PP-1 21 of 39







GRAPHIC SCALE **CLIFF AVENUE**





SERVE PLAN AND PROFILE

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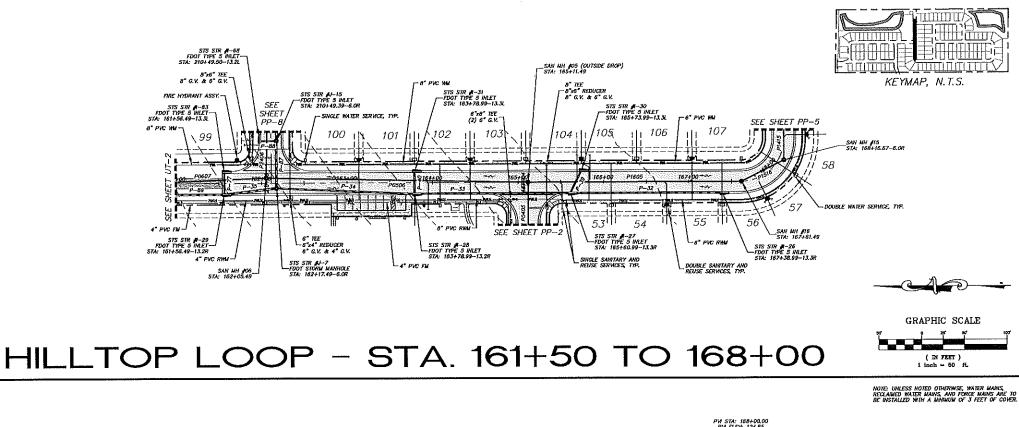
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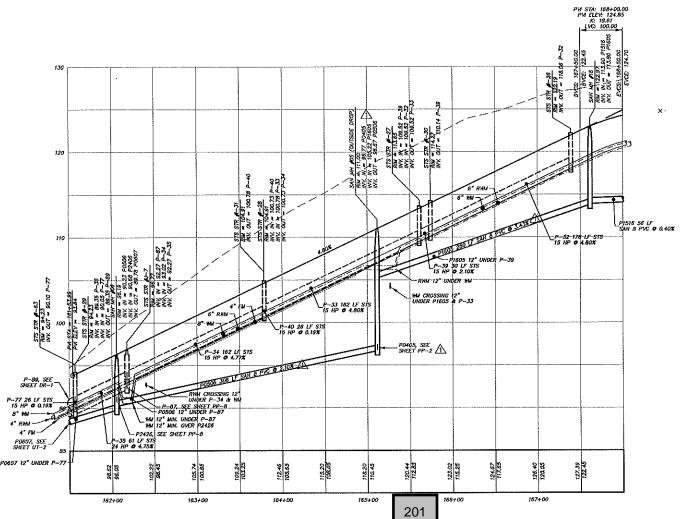
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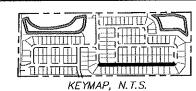




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GRAPHIC SCALE

NOTE: UNLESS NOTED OTHERWISE, WATER MAINS, RECLAIMED WATER MAINS, AND FORCE MAINS ARE TO BE INSTALLED WITH A MINIMUM OF J FEET OF COVER





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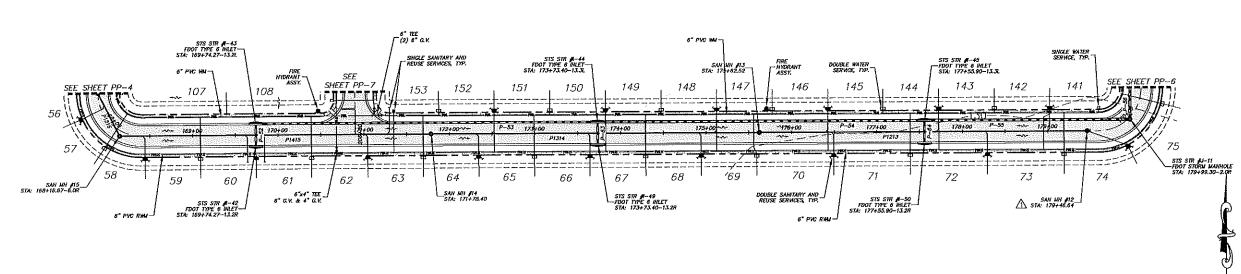
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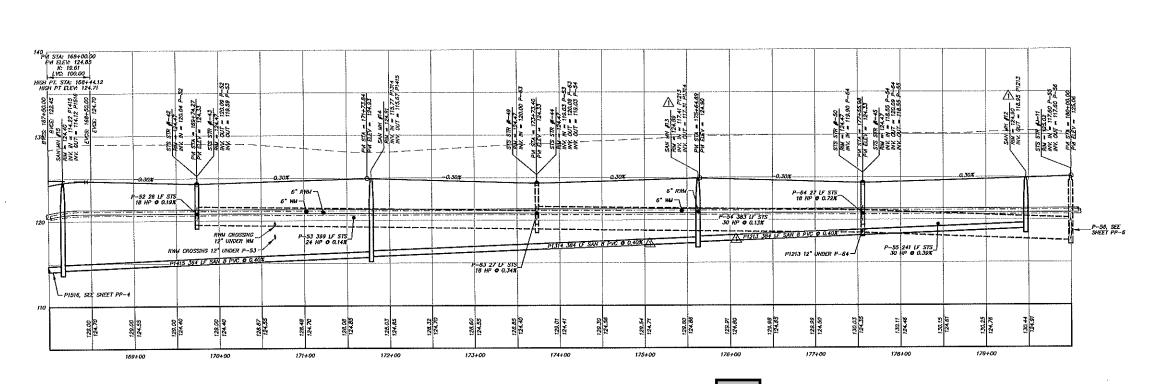


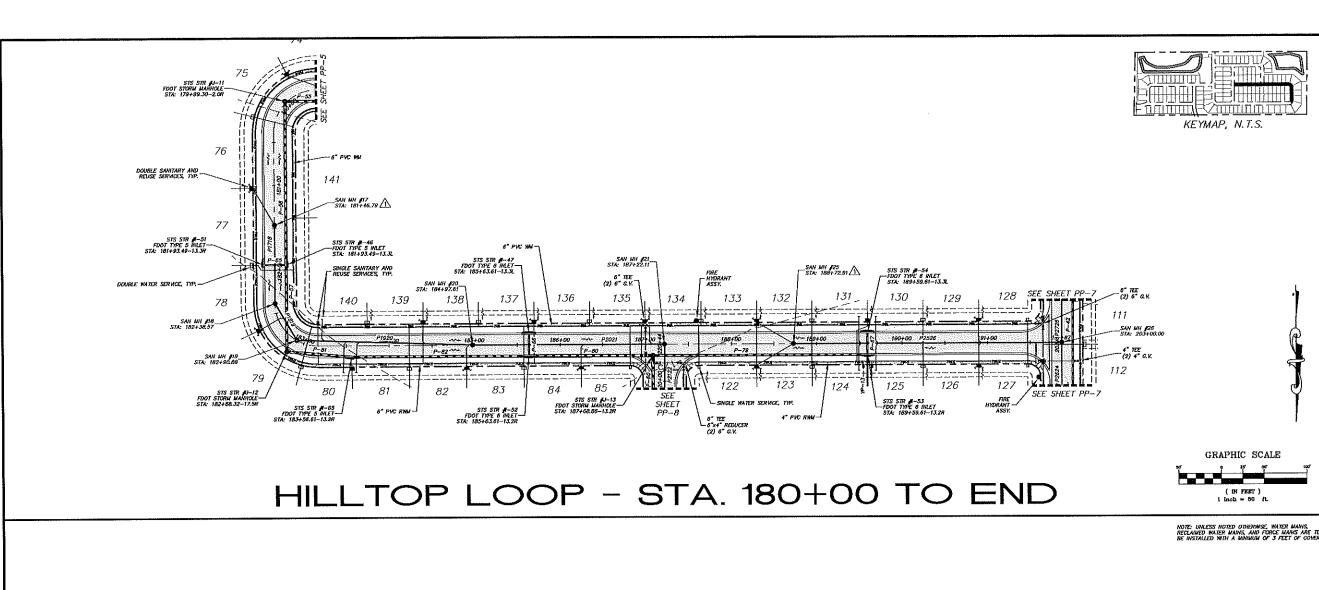
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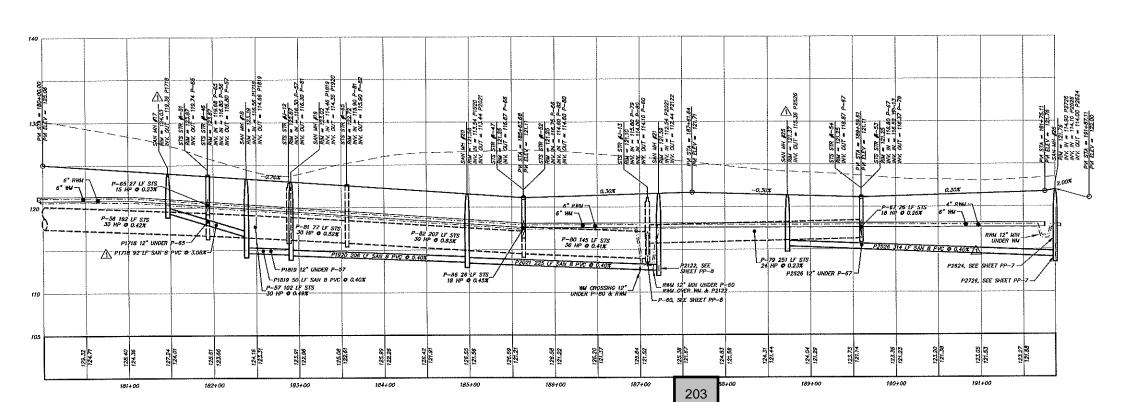
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HILLTOP LOOP - STA. 168+00 TO 180+00









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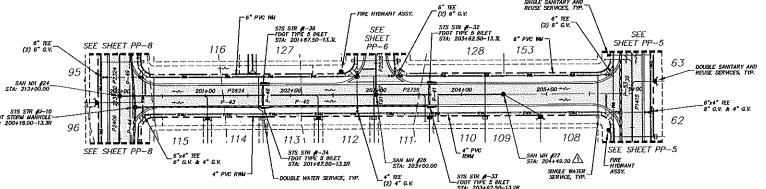
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KEYMAP, N.T.S.

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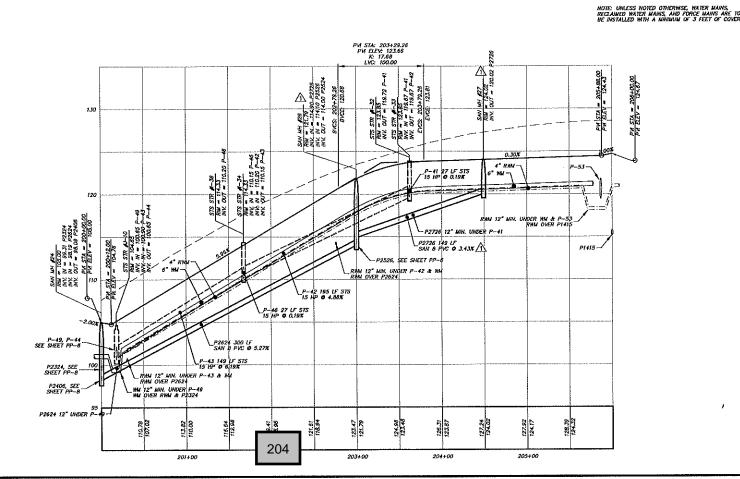


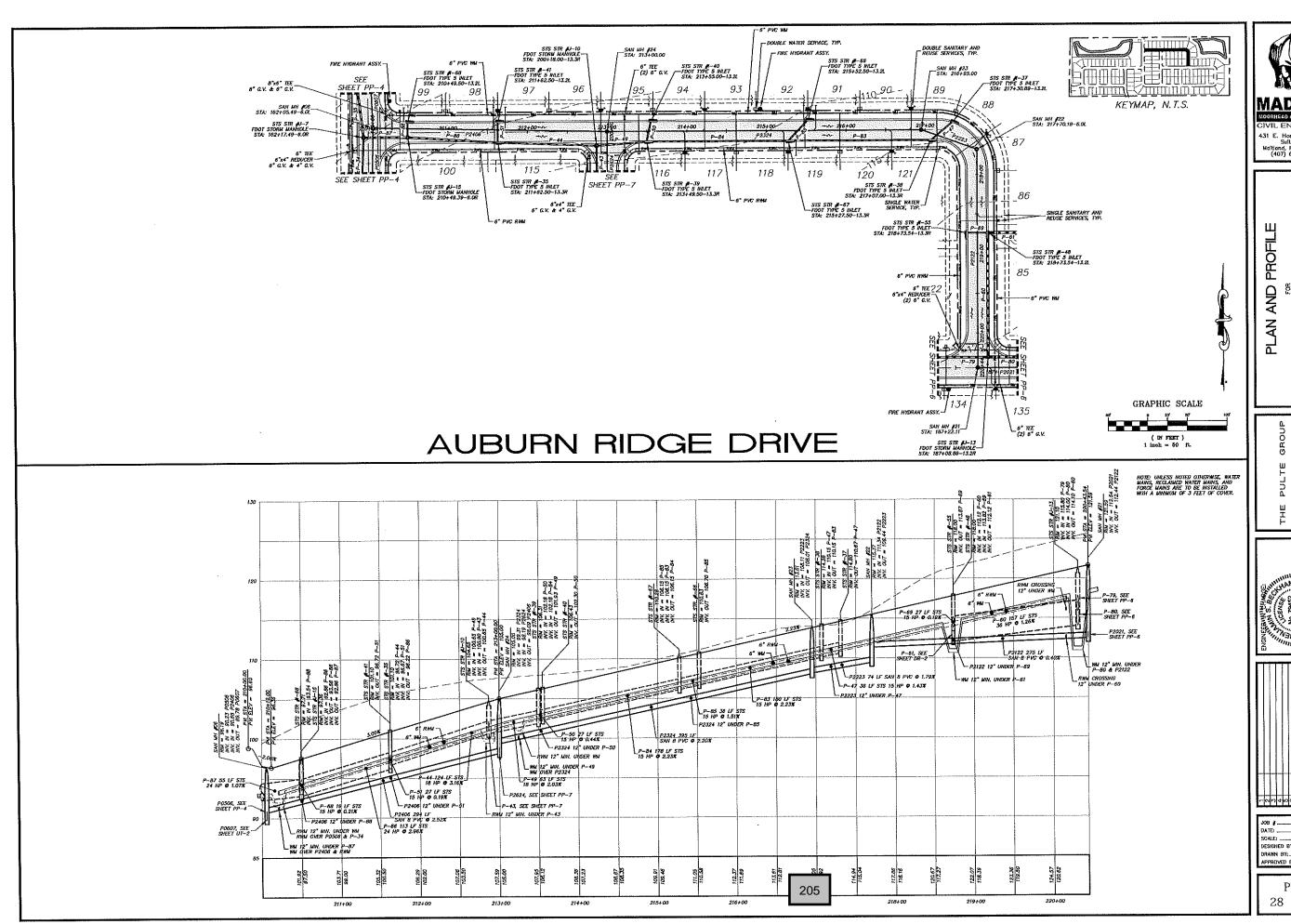


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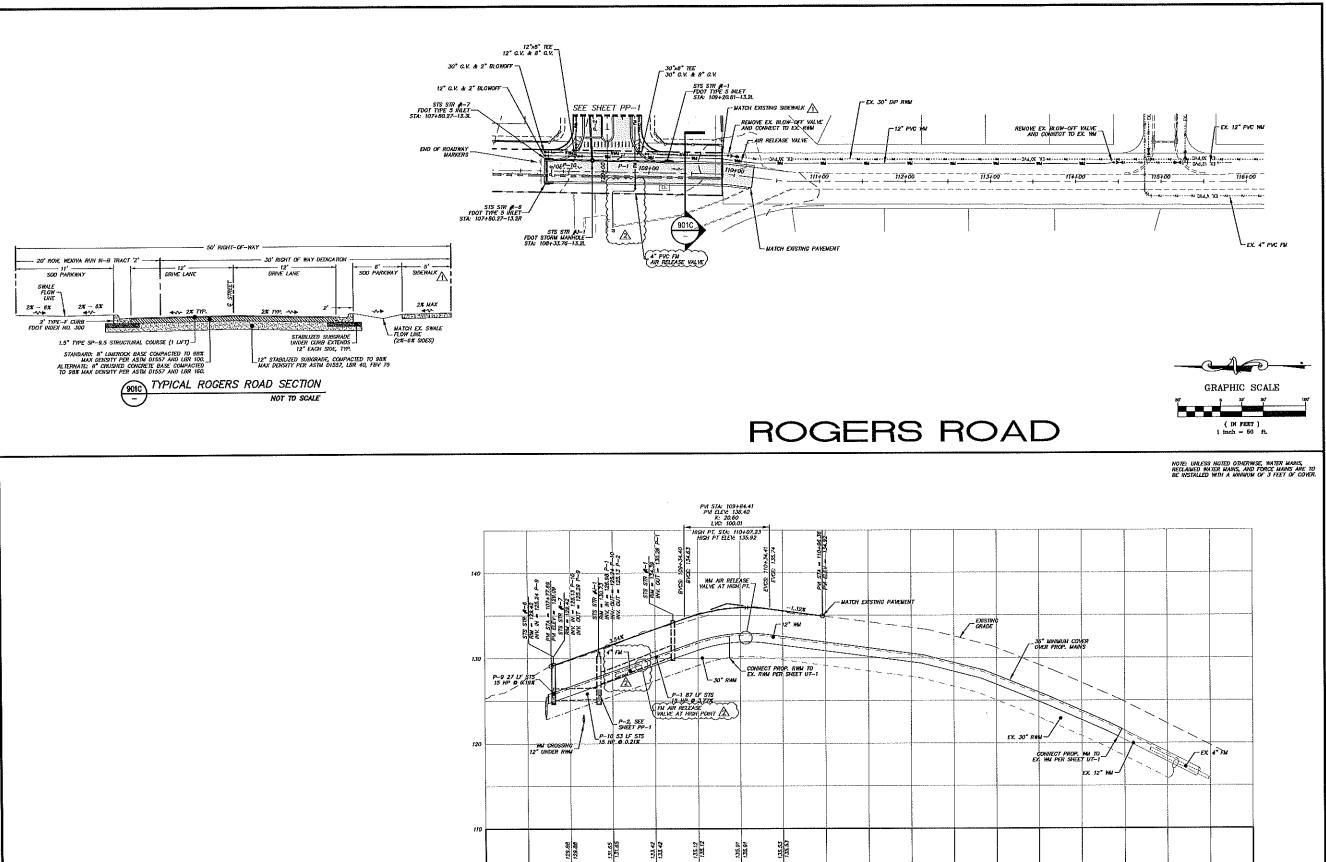
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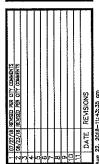
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MOORHEAD'S STOKES INC.
CIVIL ENGINEERS
431 E. Haratto Avenue
Suite 280
Mollland, Florida 32751
(407) 629-8330

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(407) 681–1514





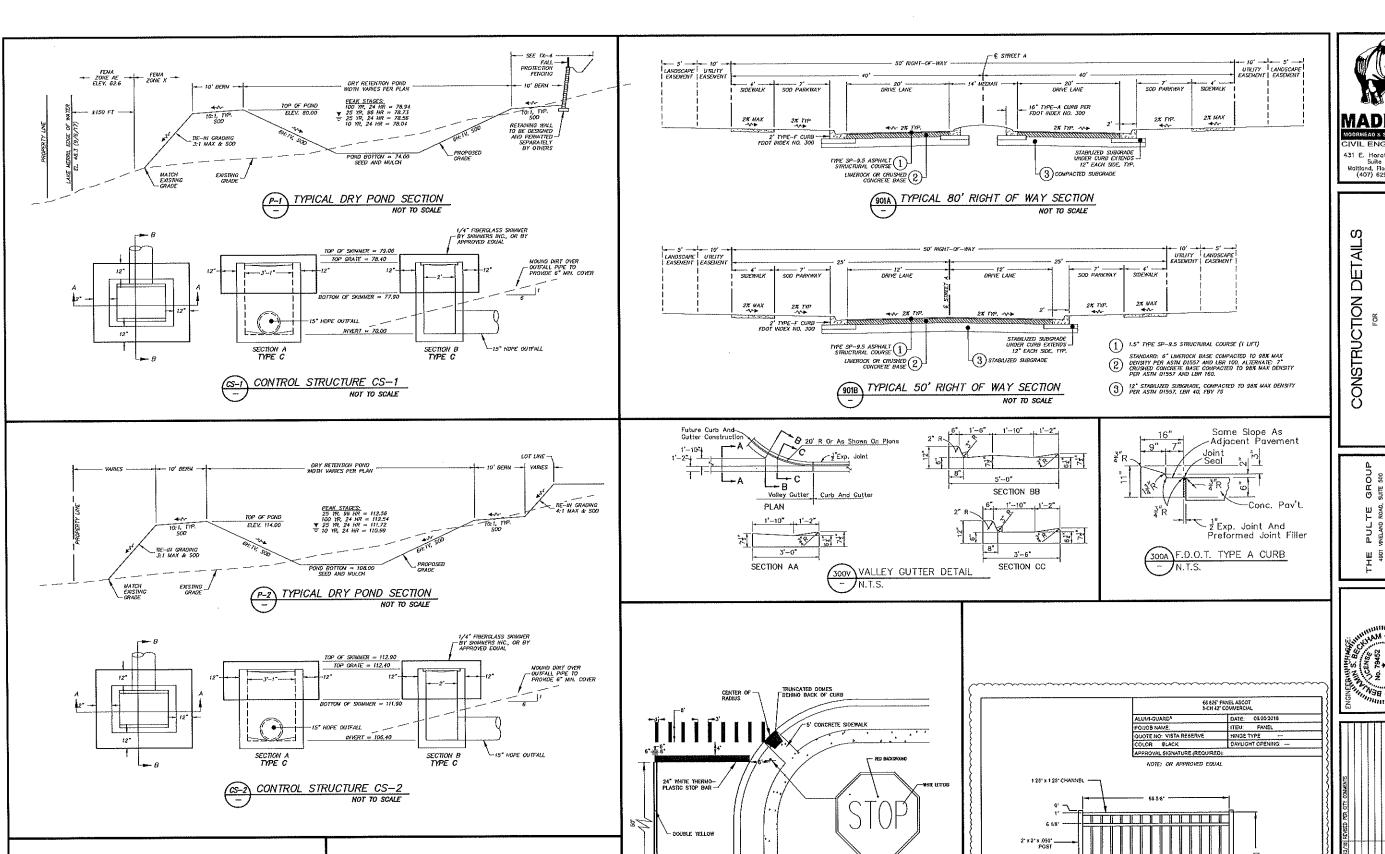
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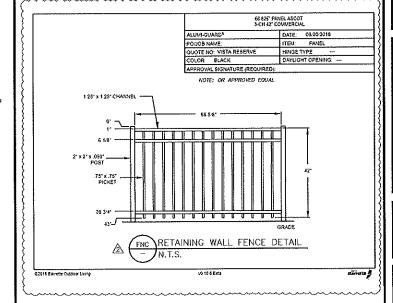
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4 FT WIDE, UNLESS NOTED OTHERWISE

ONCRETE WALK
N.T.S.

(300F) F.D.O.T. TYPE F CURB N.T.S.



PER MUTCD 28-4 (R1-1) 30" HIGH INTENSITY STOP SIGN 24" ENGINEERING GRADE STOP SIGN FOR INTERNAL SIGNANGE

207

NOTE:
RAMPS RUNS SHALL HAVE A TACTILE SURFACE RAMP LANDINGS
ADJOINNG VEHICULAR WAYS SHALL HAVE A TACTILE SURFACE 36
WIDE BORDERING THE VEHICULAR WAY, TACTILE SURFACES SHALL
BE CONSTRUCTED AS SHOWN ON DETAIL TO ON SHEET DT-3.

STOP SIGN, BAR AND CROSSWALK N.T.S.



RESERVE 1 VIST,

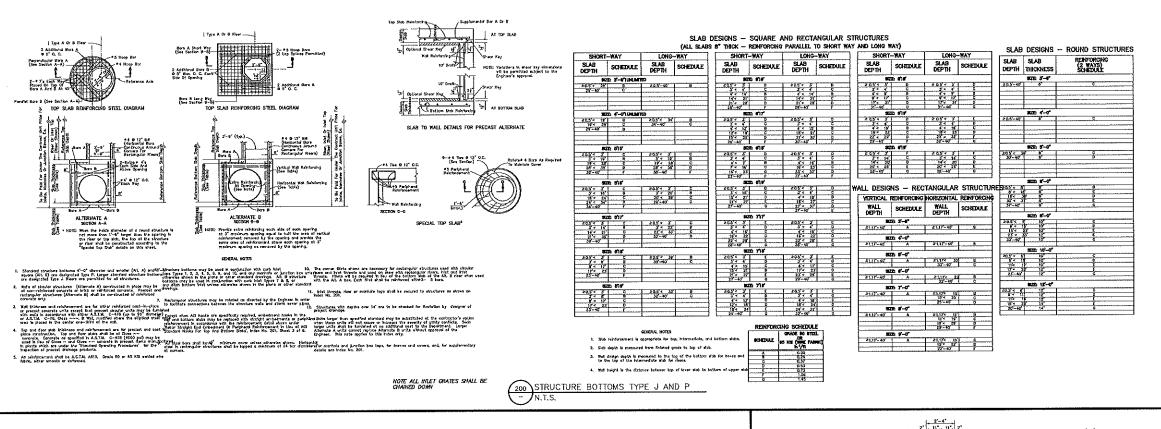
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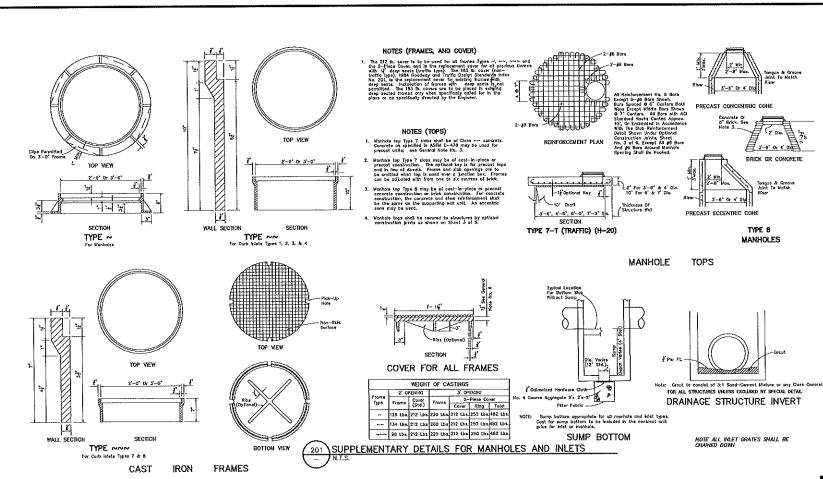


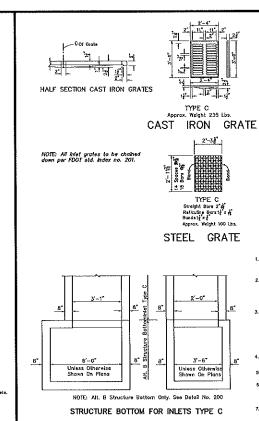


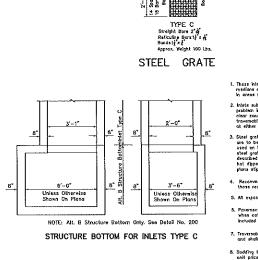
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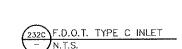
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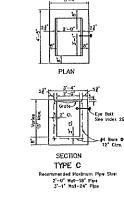


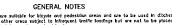












- S. All exposed corners and edges of concrete are to be changered
- Traversable slots constructed in existing inlets shall be gald for as latels portial, and shall include the cost for slet openings, paving and any required replacement grates.
- Sodding to be used on all inlate nat located in paved areas and paid for under contract
 unit price for Sodding SY.
- 9. For supplementary details see Datol No. 201.
- 10. When used in traffic areas use four sided bearing grots, U.S. Foundry#6450 or equal.



CONSTRUCTION DETAILS \square Ø \triangleleft

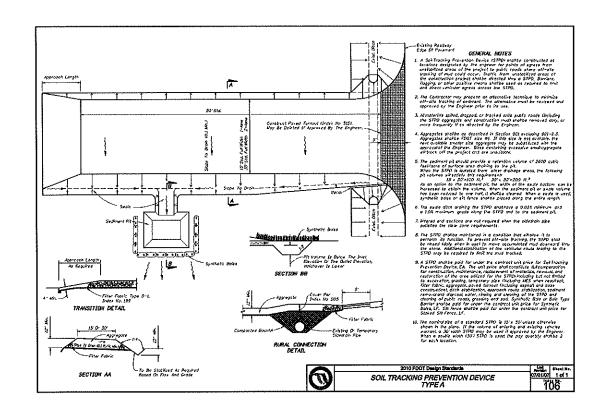
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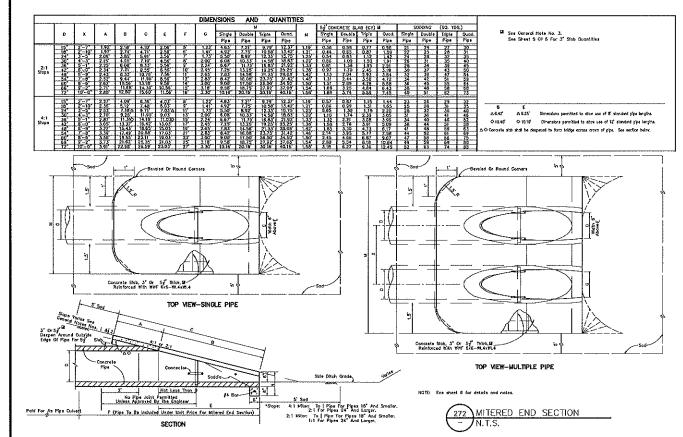


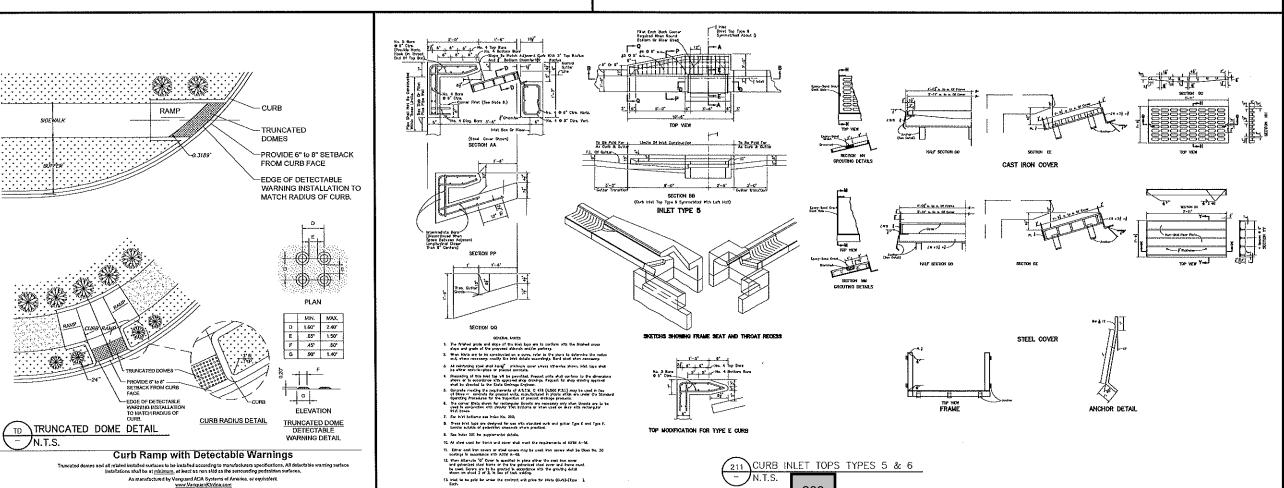


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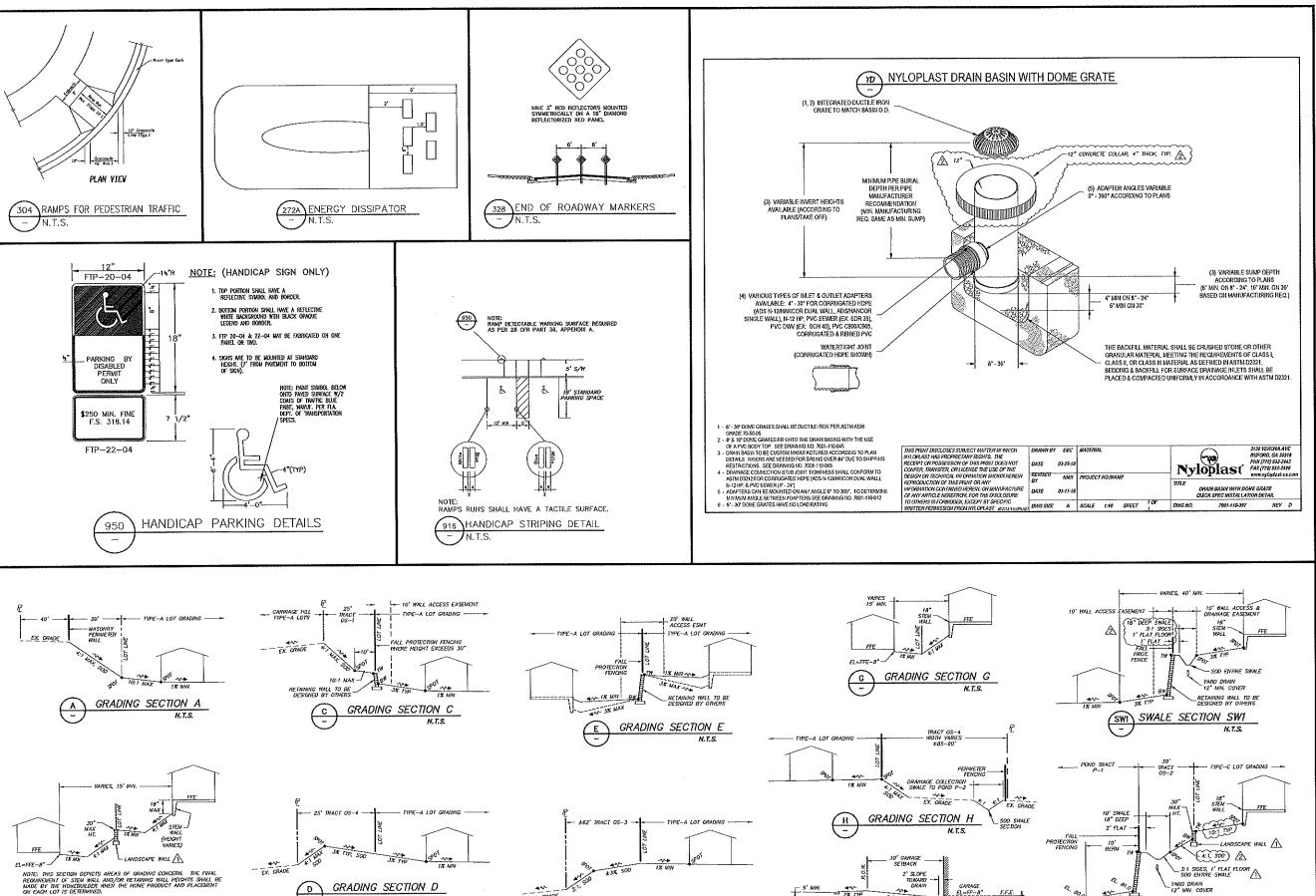
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GRADING SECTION F

N.T.S.

GRADING SECTION B



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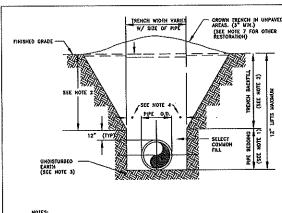
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SW2 SWALE SECTION SW2
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GRADING SECTION J

210



- 1. PIPE BEDDING: SELECT COMMON FILL COMPACTED TO 98% UNDER PAYEMENT OF THE MAXIMUM DENSITY AS PER AASHTO 7-18G.
- 2. TRENCH BACKFILL: COMMON FILL COMPACTED TO 98% UNDER PAVEMENT OF THE MAXIMUM DENSIT AS TO AASHTO T-180.
- PIPE BEDDING UTILIZING SELECT COMMON FILL OR BEDDING ROCK IN ACCORDANCE WITH TYPE A BEDDING AND TRENCHING DETAIL MAY BE REQUIRED AS DIRECTED BY THE CITY.

- 5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTIO
- 6. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW
- FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REQUILITIONS OF GOVERNING AGENCIES.
- SURFACE RESTORATION WITHIN CITY RIGHT-OF-WAY, SHALL COMPLY WITH REQUIREMENTS OF RIGHT-OF-WAY UTILIZATION REGULATIONS.
- 9. ALL UNPAYED DISTURBED AREAS SHALL BE SODDED TO MATCH ADJACENT DOMINATE GRASS SPECIES.

TRENCH BACKFRL: COMMON FILL COMPACTED TO BOX UNDER PAYEMENT OF THE MAXIMUM DENSIT AS PER AASHTO T-180.

PIPE 0.0.

- . ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW. GRAVITY SEWERS SMALL UTILIZE TYPE A BEODING IF REQUIRED BY THE CITY. BEDDING DEPTH SHALL BE 4" MINIMUM FOR PIPE DIAMETER LESS THAN 15" AND 6" MINIMUM FOR PIPE DIAMETER 18" AND LARGER.
- 8. DEFTH FOR REMOVAL OF UNSUITABLE MATERIAL SHALL GOVERN DEPTH OF BEDDING ROCK BELOW THE PIPE. THE CITY SHALL DETERMINE IN THE PIELD IF REMOVAL OF UNSUITABLE MATERIAL IS REQUIRED TO TEACH A SUITABLE FOUNDATION.
- ALL UNPAYED DISTURBED AREAS SHALL BE SODOED TO MATCH ADJACENT DOWNATE ORASS SPECIES.

CONCRETE ARCH AND ENCASEMENT DETAILS

Z. "O" REFERS TO THE CHAMETER OF THE PIPE.

3. "I" REFERS TO THE THICKNESS OF THE PIPE.

SHEETED TRENCH

CONCRETE CRADLE

UNSHEETED TRENCH

MINIMUM LENGTH (FT) TO BE RESTRAINED ON EACH SIDE OF FITTING(S). * PIPE SIZE 6" 8" 10" 12" 16" 18" 20" 24" 30" 36" 48" 33 43 51 60 90' BEND 14 18 22 25 45" BEND 7 9 | 11 | 12 22-1/2" BEND 4 5 6 6 11-1/4' BEND 1 7 24 44 41 39 40 SIZE SMALLER) CONCRETE ARCH 74 96 115 136 DEAD END FULL ENCASEMENT

• ONLY RESTRAIN BRANCH PIPE FOR TEES. ONLY RESTRAIN LARGER PIPE FOR REDUCERS
• LENGTH ALONG RUN ASSUMED TO BE 18'

- FIFTINGS SHALL BE DUCTILE IRON RESTRAINED JOINT TYPE. FM FITTINGS TO BE LINED WITH PROTECTO 401.
- INSTALL FULL LENGTHS OF PIPE WITH TOTAL LENGTH CONTAINING ONLY RESTRAINED JOINTS COURL TO OR GREATER THAN LENGTH SHOWN IN TABLE.
- 3. WHERE TWO OR MORE FITTINGS ARE TOGETHER, USE FITTING WHICH YIELDS CREATEST LENGTH OF RESTRAINED PIPE.
- IN LINE YALVES AND THROUGH RUN OF TEES OUTSIDE LIMITS OF RESTRAINED JOINTS FROM OTHER FITTINGS NEED NOT BE RESTRAINED UNLESS OTHERWISE INDICATED.
- 5. LENGTHS SHOWN IN THE TABLE HAVE BEEN CALCULATED IN ACCORDANCE WITH THE PROCEDURE OUTLINED IN "THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE" AS PUBLISHED BY DIPRA, FOR PVC WITH THE FOLLOWING ASSILIZATIONS.

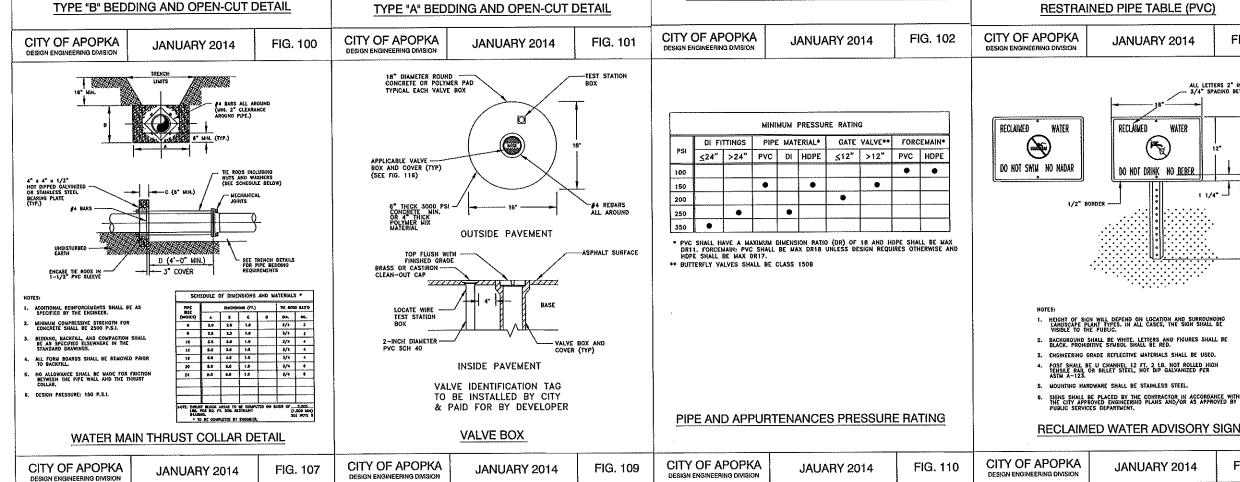
TYPE OF PIPE: PVC
WORKING PRESSURE: 150 P.S.I.**
SOIL DESIGNATION: SWEARD SRT
LAYING CONDITIONS: WM OR RWM = 150 P.S.I.

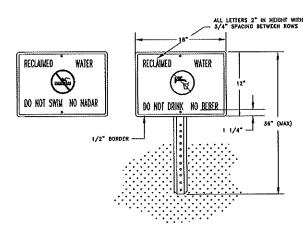
FIG. 105

FIG. 115

- FOR PIPE ENCASED IN POLYETHYLENE INCREASE THE GIVEN VALUE BY A FACTOR OF 1.5.
- 7. VALUES NOT LISTED IN THE TABLE TO BE COMPLETED BY THE ENGINEER.

RESTRAINED PIPE TABLE (PVC)





RECLAIMED WATER ADVISORY SIGN

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- 1	APPROVED BY:	BSB 💆
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CIVIL ENGINEERS

431 E. Haratja Avenu Sulte 260 Mailland, Florida 32751 (407) 629-8330

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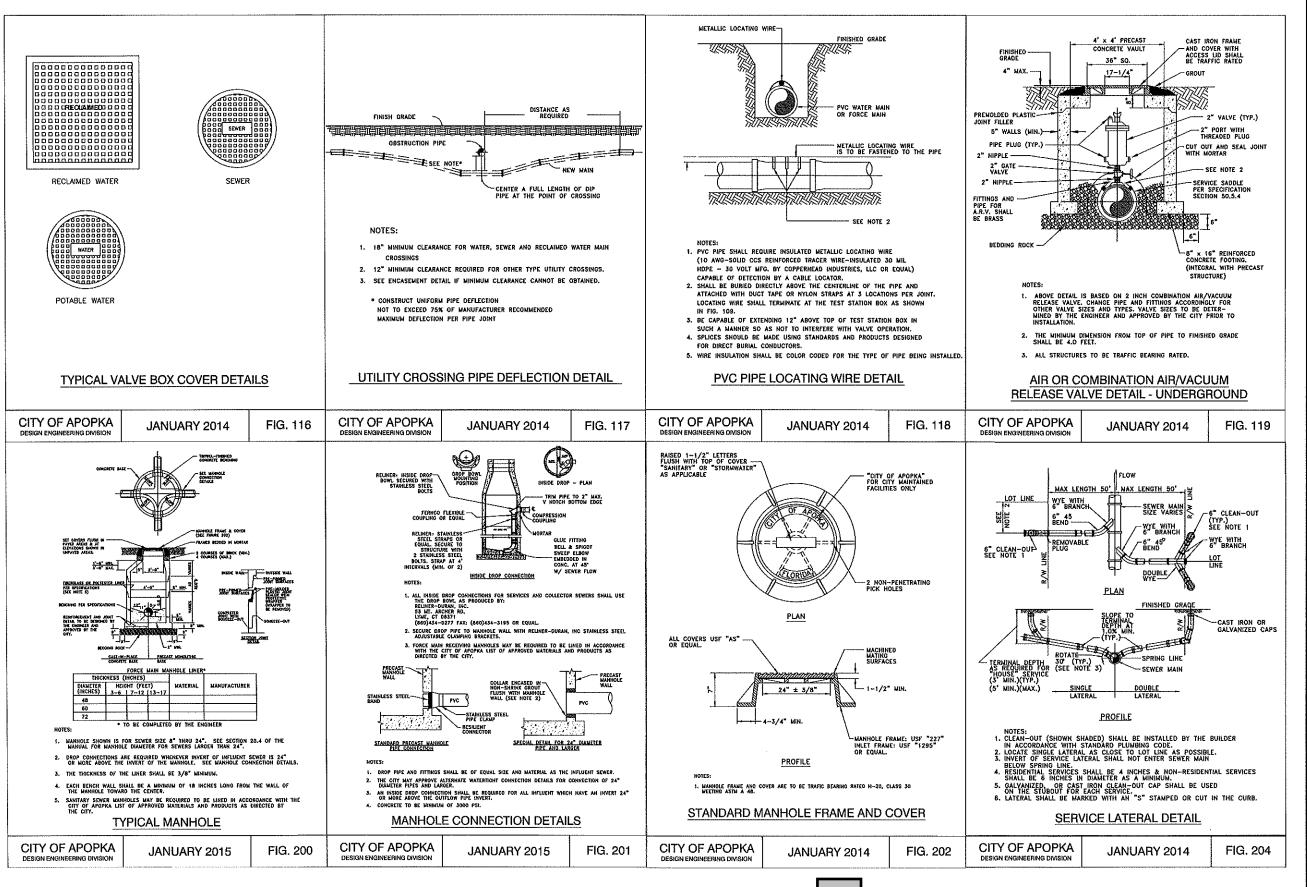
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CD-1 34 of 39



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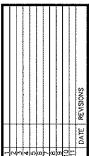
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Moltland, Florida 32751 (407) 629-8330

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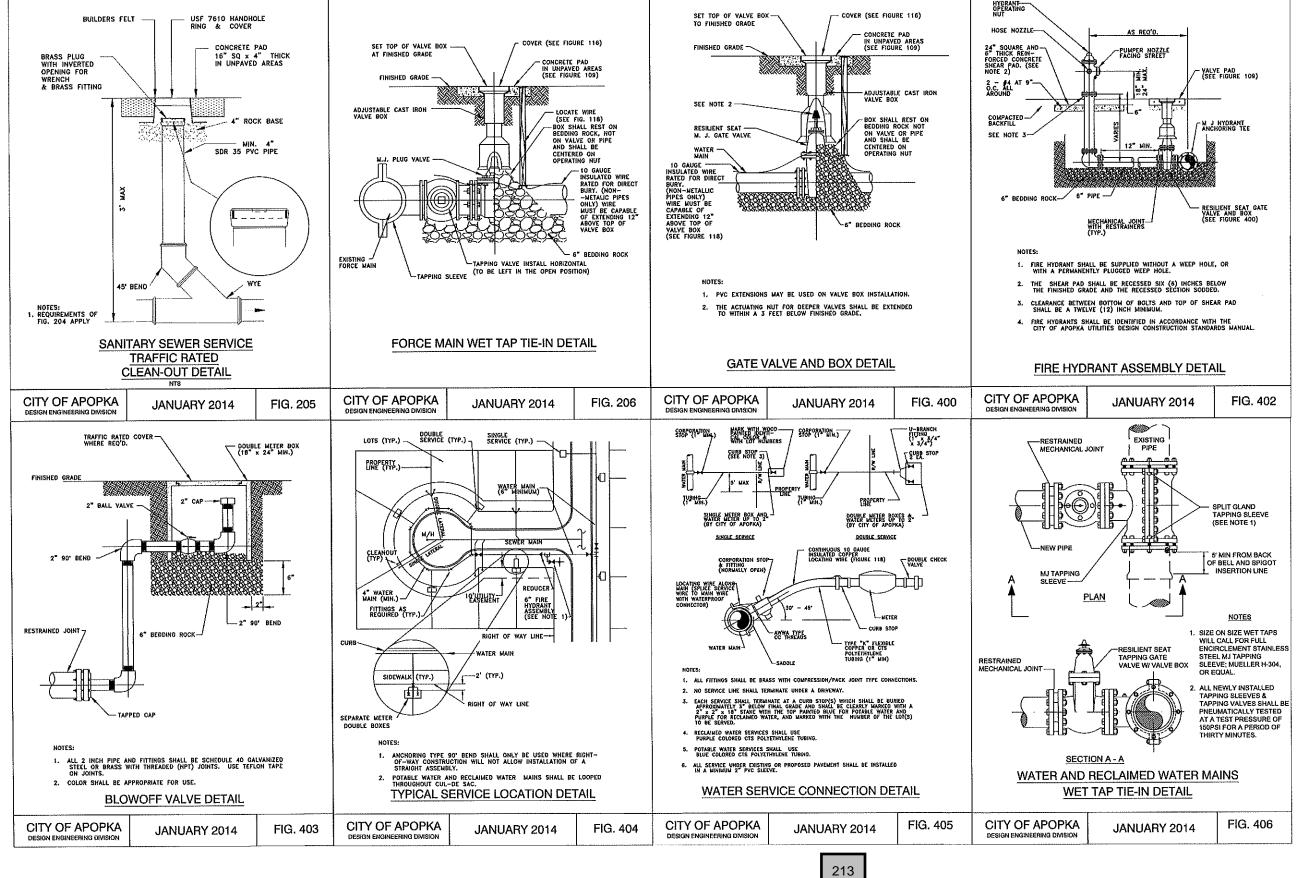
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APPROVED BY:	BSB

CD-2 35 of 39



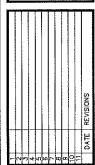


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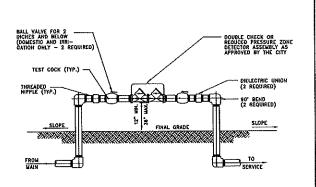
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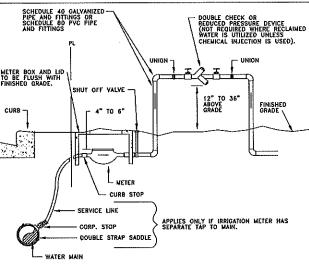
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- ALL PIPE FITTINGS, MATERIALS, LABOR, AND APPURTENANCES SHALL BE SUPPLIED BY THE CONTRACTOR.
- 2. ALL PIPE AND FITTINGS TWO (2) INCHES AND SMALLER SHALL BE THREADED SCHOOLIE 40 GALVANIZED STEEL.

DOUBLE CHECK OR REDUCED PRESSURE ZONE DETECTOR ASSEMBLY

2 INCH AND BELOW ASSEMBLY



- A POSITIVE DIELECTRIC CONNECTION SHALL BE MADE BETWEEN ALL GALVANIZED AND BRASS COMPONENTS.

 METER SHALL BE INSTALLED JUST INSIDE THE ROW LINE OR PROPERTY LIVE AND IN NO CASE SHALL IT BE INSTALLED IN THE SIDEWALK OR OTHER PAVED AREAS.
- AREAS.

 ADUBLE CHECK VALVES MAY BE USED AS LONG AS THEIR ARE NO CHEMICALS

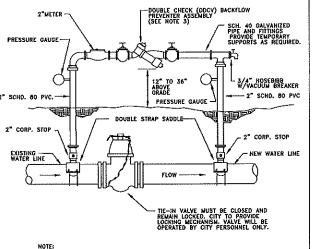
 OR A WELL DO SITE.

 A PUB DEVICE SHALL BE 12-INCHES MINIMUM ABOVE HIGHEST OUTLET OR SPRAYHEAD

 A LONG BECKET SHALL BE 12-INCHES MINIMUM ABOVE HIGHEST OUTLET OR SPRAYHEAD

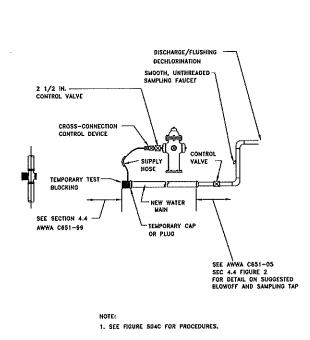
 ALL BACKFLOW PREVENTION DEVICES ARE TO BE AWWA APPROVED.

IRRIGATION METER AND DOUBLE CHECK VALVE OR REDUCED PRESSURE BACKFLOW PREVENTER



2, SEE FIGURE 504C FOR PROCEDURES.

TEMPORARY JUMPER CONNECTION



TEMPORARY JUMPER CONNECTION FROM FIRE HYDRANT

CITY OF APOPKA

JANUARY 2014

FIG. 500 A CITY OF APOPKA

JANUARY 2014

FIG. 502

CITY OF APOPKA

JANUARY 2014

cellive water makes and proposed new water main interessiments.

Figures 50-4 and 50-8 is be used for "Illing any new water main of any size from existing eather water mains and for flushing of new mains up to 8 inches in dismrster (2.6.875 inflammus valiety) and far pulling bedefieldspoid samples from any new water main at any size. The jumper connection shall be maintained sont sized and the same sized of the same sized

Flushing of 10 Inches in dismeter and larger water mains may be done through the Ita-In valve under very controlled conditions. The following procedures shall be followed:

A. The Its-In-Inches shall be appealed and presure issaled in the presence of the Ctyl engleser to verify water fightness prior to fis-In. Valves which are not water fight shall be replaced with a new valve installed timesociatily adjocant to the testing water.

- Provide for and monitor the pressure in the tis-in point. The pressure in the existing main must not drop below 35 psi.
- The fis-in votre shall be opened a few turns only, ensuring a pressure drop across the votre is greater than 10 psl.
- b. The fle-in volve shall be opened only for flushing of the new main. The procedure shall be directed by the City and observed by the angineer.
- E. After thishing, the tis-in valve shall be closed and tacked in the closed position by the City personni.

- All installation and maintenance of the temporary jumper connection and associated backflow prevention device. Millings, valve, etc. shall be the responsibility of the contractor.

PROCEDURES FOR TEMPORARY JUMPER CONNECTION

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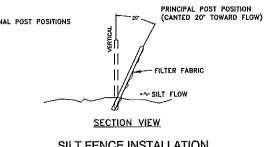
FIG. 504 C

CITY OF APOPKA

BACKFLOW PREVENTER ASSEMBLY WITH

JANUARY 2014

FILTER FABRIC IN -CONFORMANCE WITH SEC. 985 F.D.O.T. SPEC. POST OPTIONS: WOOD 2.5" MIN Ø-WOOD 2" X 4" OAK 1.5" X 1.5" STEEL 1.33 Lbs/Ft. MIN †o 18" ELEVATION VIEW PRINCIPAL POST POSITION (CANTED 20" TOWARD FLOW) OPTIONAL POST POSITIONS



SILT FENCE INSTALLATION

FIG. 602 JANUARY 2014

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DETAIL

APOPKA

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APPROVED BY: BSB APPROVED BY: _

> CD - 4 37 of 39

POTABLE WATER SERVICE DETAIL FOR LOTS SERVED WITH RECLAIMED WATER

A 3' PIECE OF STRAIGHT PIPE MUST BE CONNECTED TO METER USING THE DESIGNATED HOLES IN THE METER BOX BEFORE ANY ANGLES ARE CONNECTED. THE SAME RULES APPLY FOR DOUGLE METER HOOK-UPS.

2. BACKFLOW DEVICE AND METER ARE TO BE SET BY THE CITY FOR METERS 2-INCH OR LESS IN SIZE.

FIG. 505

CITY OF APOPKA

214

METER BOX AND LID TO BE FLUSH WITH FINISHED GRADE.

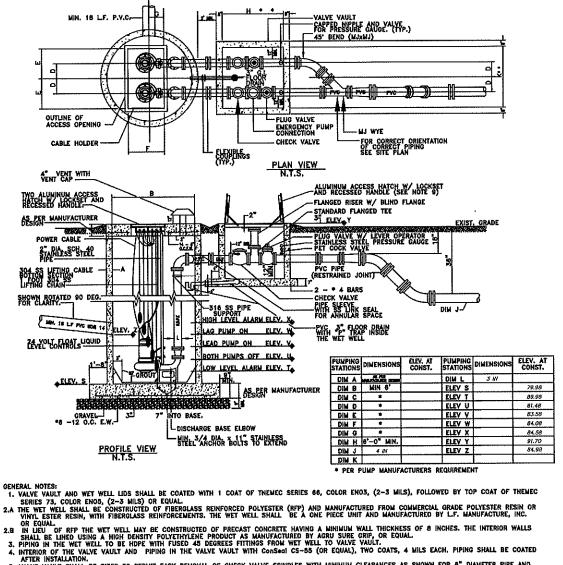
THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS, ASSEMBLY, AND THE INSTALLATION OF THE DEVICE.

3. DDCY IS MINIMUM PROTECTION REQUIRED. A RPZ DEVICE MAY BE REQUIRED DEPENDING ON PROJECT. PROVIDE COPY OF LATEST CERTIFICATION TEST RESULTS.

CITY OF APOPKA FIG. 504 A

JANUARY 2014

FIG. 504 B



- AFIEM INSTALLABILING.

 5. VALVE VAULT SHALL BE SIZED TO PERMIT EASY REMOVAL OF CHECK VALVE SPINDLES WITH MINIMUM CLEARANCES AS SHOWN FOR 8" DIAMETER PIPE AND SMALLER, CLEARANCES SHALL INCREASE AS REQUIRED FOR LARGER PIPE SIZES,

 6. VALVE VAULT SHALL HAVE SEALED FLOOR AND DRAIN.

 7. ALL LOCATIONS WHERE PIPES ENTER OR LEAVE THE WET WELL OR VALVE VAULT SHALL BE MADE WATERTIGHT WITH WALL SLEEVE AND STAINLESS STEEL LINK
- SEAL
 THERE SHALL BE NO VALYES OR ELECTRICAL JUNCTION BOXES IN WET WELL.
 WET WELL AND VALVE VAULT COVERS SHALL BE ALUMINUM WITH 316 S.S. HARDWARE LOCK BRACKET. SIZE AS REQUIRED BY PUMP MANUFACTURER AND
 APPROVED BY THE CITY.
 FLEXIBLE COUPLING SHALL BE SLEEVE TYPE, EPOXY COATED.
- 11. PUMPS SHALL BE:

 MANUFACTURER: FLYDT

 VOLTAGET: 50 VC

 12. OPERATING CONDITIONS SHALL BE

 13. ALL HARDWARE IN WET WELL AND VALVE BOX TO BE 316 STANLESS SITES

 14. *P* TRAP TO BE INSTALLED IN WET WELL

 15. ALL PUBLIC LIFT STATIONS SHALL BE EQUIPPED WITH SCADA SYSTEM.THE DEVELOPER SHALL PAY THE CITY COST OF THE UNIT. THE CITY WILL BE RESPONSIBLE FOR INSTALLATION.

 16. ALL LIFT STATIONS SHALL BE FENCED WITH DECORATIVE STONE OR BRICK OR AS DIRECTED BY THE CITY.

 17. ALL LIFT STATIONS SHALL BE FENCED WITH DECORATIVE STONE OR BRICK OR AS DIRECTED BY THE CITY.

 17. ALL LIFT STATIONS SHALL BE FENCED WITH DECORATIVE STONE OR BRICK OR AS DIRECTED BY THE CITY.

 17. ALL LIFT STATIONS SHALL HAVE A 10 FEET WIDE CONCRETE ACCESS ORIVEWAY, 35' LONG FROM EDGE OF WET WELL TO BACK OF CURB.

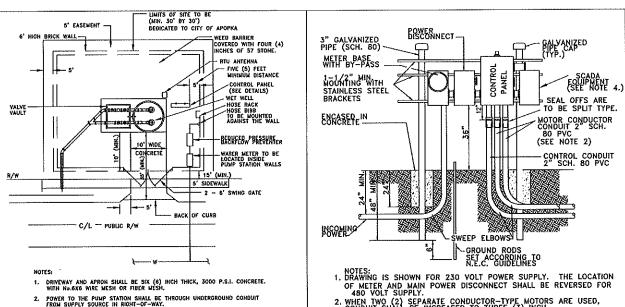
 18. ENGINEER SHALL PROVIDE A SCALED (1" = 20' MIN.) SITE SPECIFIC DETAIL.

PUMP STATION DETAIL

CITY OF APOPKA DESIGN ENGINEERING DIVISION

JANUARY 2014

FIG. 301



200 YOLL SUFFLE.

WHEN TWO (2) SEPARATE CONDUCTOR-TYPE MOTORS ARE USED, CONDUIT SHALL BE INCREASED TO THREE (3) INCH.

3. POWER SUPPLY SHALL BE UNDERGROUND TO THE PUMP STATION AND SHALL BE THREE (3) PHASE FROM A THREE (3) PHASE SOURCE ONLY.

4. STUB OUT UNISTRUT LONG ENOUGH TO ACCOMODATE A 24"x24" SCADA EQUIPMENT CABINET. CITY TO INSTALL SCADA EQUIPMENT CABINET.

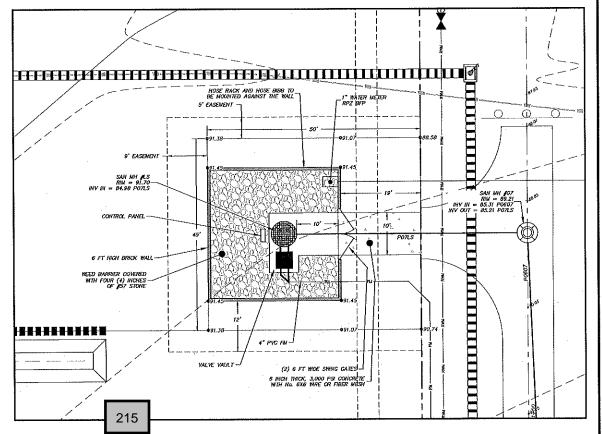
DUPLEX PUMP STATION CONTROL PANEL INSTALLATION DETAIL

CITY OF APOPKA CITY OF APOPKA FIG. 302 FIG. 300 **JANUARY 2014 JANUARY 2014**

3. GATE TO BE DECORATIVE BLACK POWDER COATED ALUMINUM W/PICKET SPACING # OR < 4"

8. LIFT STATION WALL TO BE PLACED AT LEAST 15FT. BEHIND THE R/W LINE.

PUMP STATION TYPICAL SITE PLAN





 \square DETAIL STATION \triangleleft

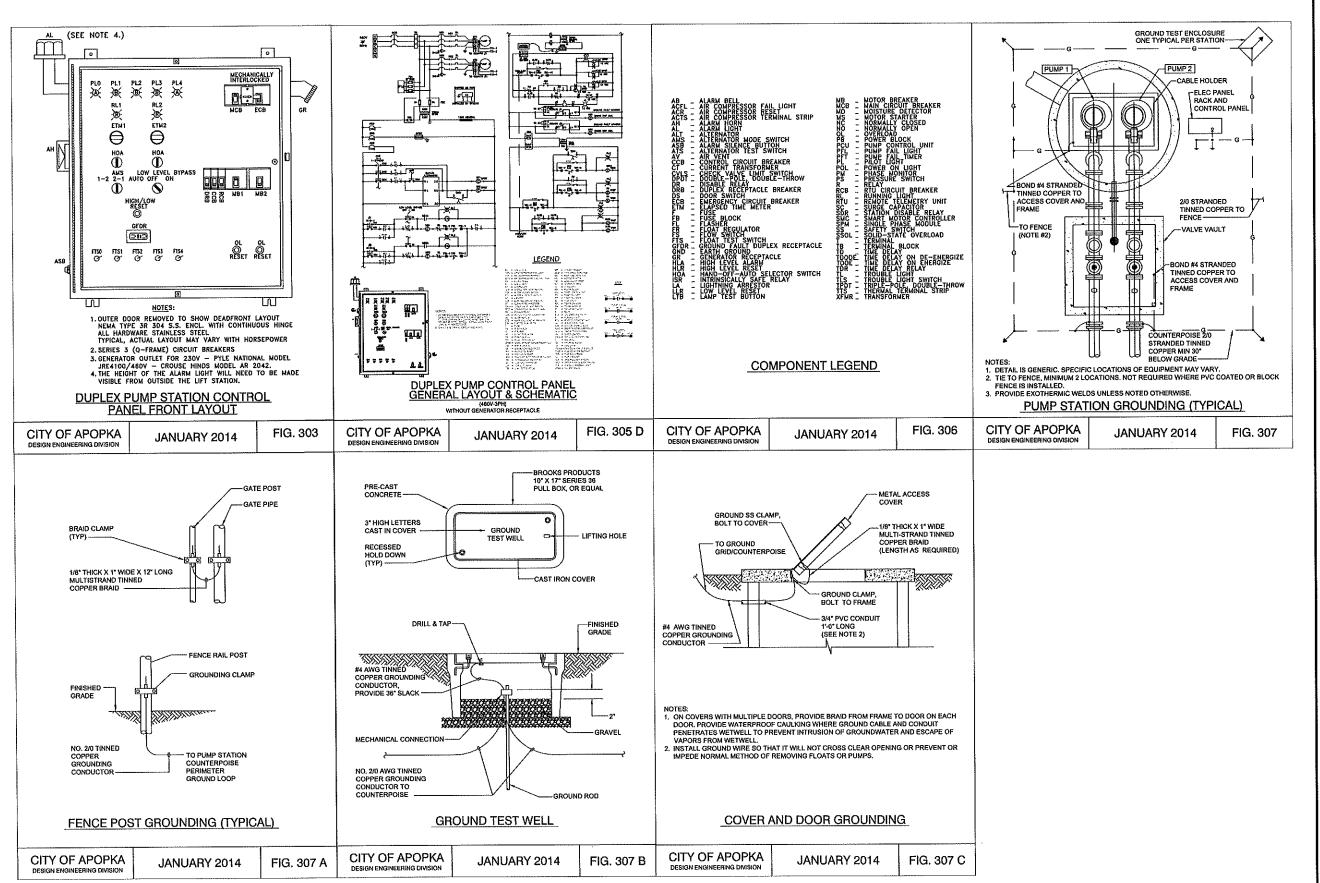
> SUITE 32831 PULTE WINELAND ROAD, DRLANDO, FLORIDA (407) 661-15





SCALE: N.T.S.
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DRAWN BY: BSB
APPROVED BY: BSB PROVED BY:

LS-1 38 of 39





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GROUP SUITE 500 32811 PULTE
VINELAND ROAD,
RLANDO, FLORIDA
(407) 665-151





N.T.S. DESIGNED BY: BSB
DRAWN BY: BSB
APPROVED BY: BSB DRAWN BY: _____

> LS-2 39 of 39

VISTA RESERVE

CITY OF APOPKA, FLORIDA

LANDSCAPE ARCHITECTURAL DRAWINGS

FINAL DEVELOPMENT PLAN

ISSUED FOR PERMIT - 04.05.18

REVISED: 04.30.18 REVISED: 06.27.18 REVISED: 07.27.18 REVISED: 08.21.18

VICINITY MAP



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LP-001	04/05/18	- 22	250	KEY PLAN	
LP-002	04/05/18			TREE MITIGATION PLAN	
LP-003	04/05/18	· · ·		TREE MITIGATION PLAN	
LP-004	04/05/18	-44		TREE MITIGATION PLAN	
LP-005	04/27/18	2	06.27.18	RECREATION/OPEN SPACE PLAN	
LP-100	04/05/18	1	04.30,18	LANDSCAPE PLAN	
LP-101	04/05/18	1	04.30.18	LANDSCAPE PLAN	
LP-102	04/05/18	1	04.30.18	LANDSCAPE PLAN	
LP-103	04/05/18	1	04.30.18	LANDSCAPE PLAN	
LP-104	04/05/18	2	06.27.18	LANDSCAPE PLAN	
LP-105	04/05/18	1	04.30.18	LANDSCAPE NOTES & DETAILS	
LP-200	04/05/18	3	07.27.18	HARDSCAPE DETAILS	
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LP-305	04/05/18	3	07.27.18	IRRIGATION NOTES AND DETAILS	
LP-306	04/05/18			IRRIGATION DETAILS	
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LP308	04/05/18	10.000	200	IRRIGATION DETAILS	

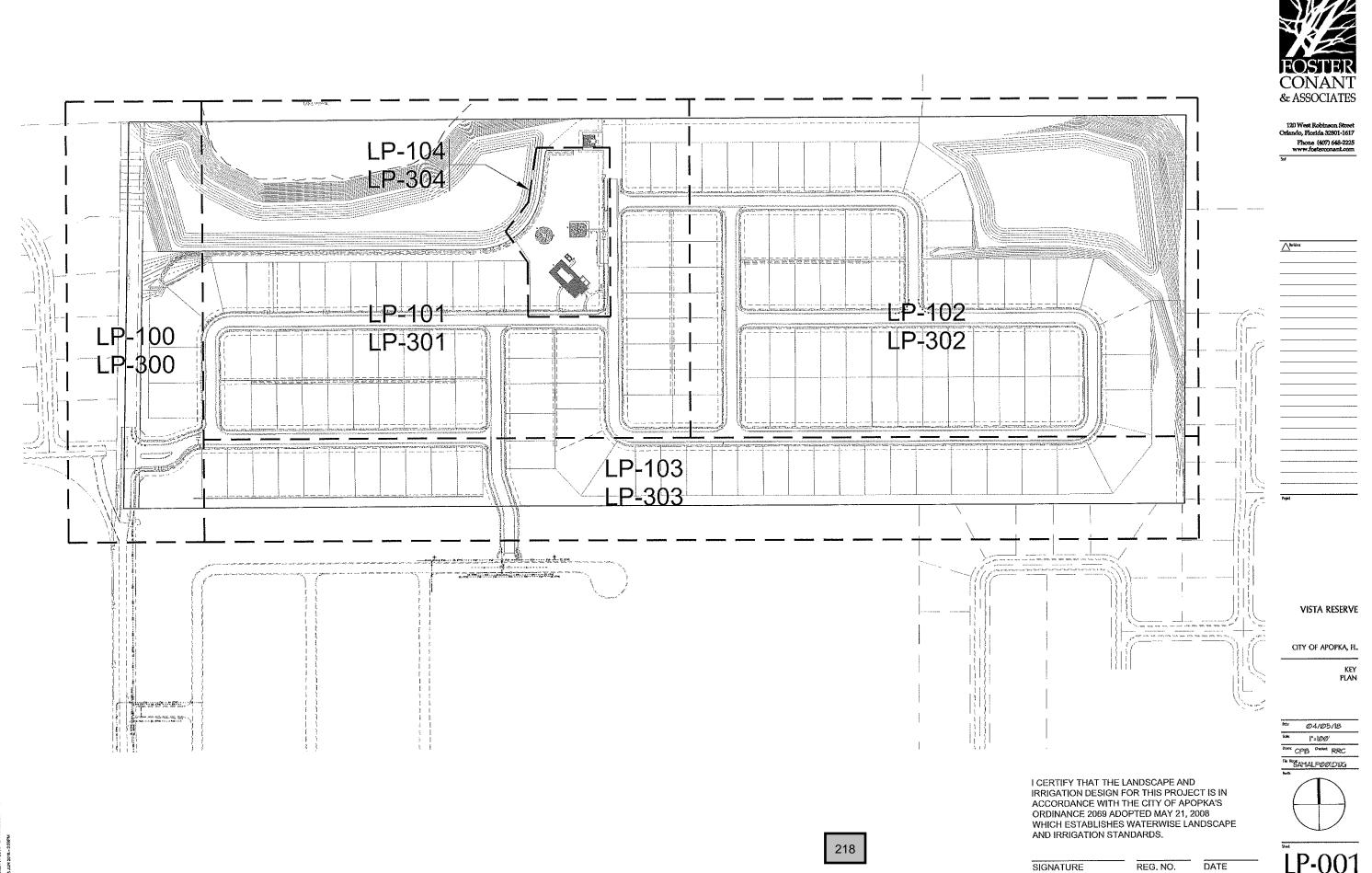


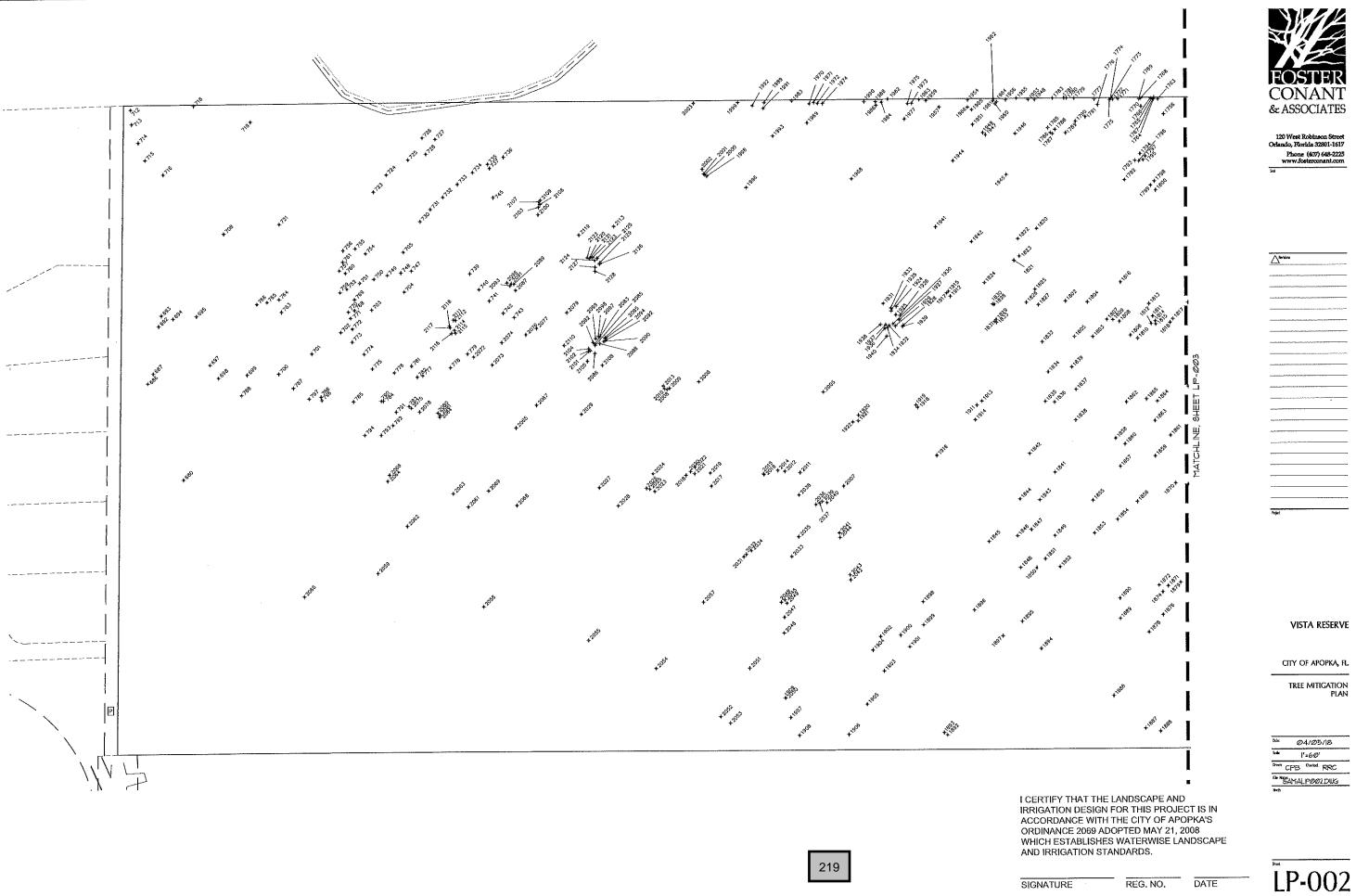
I CERTIFY THAT THE LANDSCAPE AND IRRIGATION DESIGN FOR THIS PROJECT IS IN ACCORDANCE WITH THE CITY OF APOPKA'S ORDINANCE 2069 ADOPTED MAY 21, 2008 WHICH ESTABLISHES WATERWISE LANDSCAPE AND IRRIGATION STANDARDS.

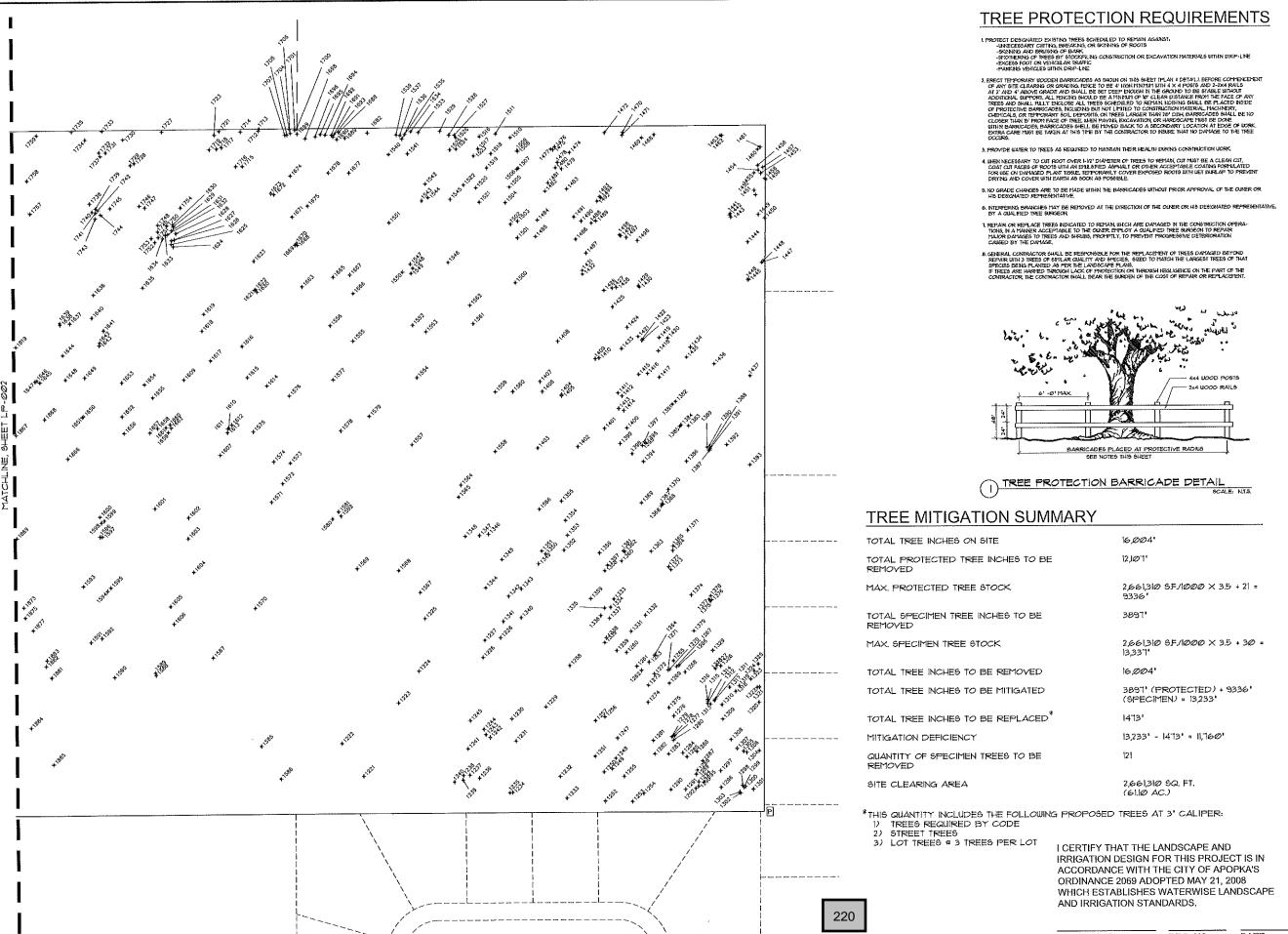
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CONANT & ASSOCIATES

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VISTA RESERVE

CITY OF APOPKA, FL.

TREE MITIGATION

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*SAMALP003.DUG

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PCINT TABLE PONT TUMBER DESCRIPTION 600 10° OAK 600 10° OAK 600 10° OAK 600 10° OAK 607 10° OAK 6092 7° OAK 6092 7° OAK 6092 7° OAK 6093 13/8° OAK 6093 15/15° OAK 6091 12′ OAK 6091 12′ OAK 6091 15′ OAK 6092 9° OAK 700 19/7/1/18/2/11′ OAK 700 19/7/1/18/2/11′ OAK 701 19/7/1/18/2/11′ OAK 702 22° OAK 703 11/9° OAK 704 11/9° OAK 705 31′ OAK 706 39° OAK 707 11/9° OAK 708 39° OAK 709 39° OAK 709 39° OAK 712 17/15° OAK 713 14′ OAK 714 12′ PALM 715 12′ PALM 716 10° OAK 718 8° OAK 719 38/2/1′ OAK 719 38/2/1′ OAK 719 38/2/1′ OAK 719 38/2/1′ OAK 720 11′ OAK 721 11′ OAK 722 11′ OAK 723 15′ OAK 724 11′ OAK 725 11′ OAK 726 11′ OAK 727 15′ OAK 727 15′ OAK 727 15′ OAK 728 11′ OAK 729 11′ OAK 720 11′ OAK 721 11′ OAK 722 11′ OAK 723 15′ OAK 724 11′ OAK 725 11′ OAK 726 11′ OAK 727 15′ OAK 727 15′ OAK 728 11′ OAK 729 11′ OAK 729 11′ OAK 720 11′ OAK 721 11′ OAK 722 11′ OAK 723 15′ OAK 724 11′ OAK 725 11′ OAK 726 11′ OAK 727 15′ OAK 727 15′ OAK 728 11′ OAK 729 11′ OAK 730 11′ OAK 731 11′ OAK 733 13/11′ OAK 735 11′ OAK 736 10′ OAK 737 15′ OAK 737 15′ OAK 738 11′ OAK 739 15′ OAK 740 9° OAK 741 15′ OAK 741 15′ OAK 745 16′ OAK 747 18′ OAK 747 18′ OAK 748 11′ OAK 749 11′ OAK 749 11′ OAK 749 11′ OAK 749 11′ OAK 740 9° OAK 741 15′ OAK 741 15′ OAK 745 10′ OAK 747 18′ OAK 747 18′ OAK 748 11′ OAK 749 11′ OAK 749 11′ OAK 749 11′ OAK 740 9° OAK 741 15′ OAK 747 18′ OAK 748 11′ OAK 749 11′ OAK 749 11′ OAK 740 9° OAK 741 15′ OAK 747 18′ OAK 748 11′ OAK 749 11′ OAK 740 11′ OAK 740 11′ OAK 740 11′ OAK 740 11′ OAK 74	1264	1400 8" OAK 1401 22" OAK 1402 39/7" OAK 1402 39/7" OAK 1403 13/17" OAK 1404 14/11/10" OAK 1405 9" OAK 1406 21" OAK 1406 21" OAK 1406 19" OAK 1408 19" OAK 1410 9" OAK 1410 9" OAK 1410 9" OAK 1410 9" OAK 1411 7" OAK 1412 15/13/11" OAK 1413 10" OAK 1414 15" OAK 1415 119/17" OAK 1416 6" OAK 1416 6" OAK 1416 6" OAK 1417 23" OAK 1418 33/10" OAK 1419 14/10" OAK 1422 15" OAK 1423 7" OAK 1425 11" OAK 1426 15" OAK 1427 11" OAK 1428 9" OAK 1429 11" OAK 1439 11" OAK 1430 12" OAK 1431 10" OAK 1431 10" OAK 1432 15" OAK 1435 15" OAK 1435 15" OAK 1435 15" OAK 1436 7" OAK 1437 15" OAK 1438 7" OAK 1439 11" OAK 1439 11" OAK 1430 12" OAK 1430 12" OAK 1431 10" OAK 1435 15" OAK 1435 15" OAK 1435 15" OAK 1435 7" OAK 1437 15" OAK 1439 7" OAK 1439 7" OAK 1439 7" OAK 1430 7" OAK 1435 7" OAK 1355 7" OAK 135	1551	1700 12 OAK 1701 11 OAK 1701 11 OAK 1704 14 PALM 1705 15 OAK 1706 15 OAK 1706 5 OAK 1707 15 OAK 1712 24 OAK 1713 9 OAK 1714 7 OAK 1715 14/11/0 OAK 1716 15/12/9 OAK 1717 12/6 OAK 1717 12/6 OAK 1717 12/6 OAK 1718 15/12/9 OAK 1719 14 OAK 1719 14 OAK 1721 12 OAK 1722 17 OAK 1722 17 PALM 1723 7 OAK 1723 12 OAK 1733 6 OAK 1733 6 OAK 1733 6 OAK 1733 6 OAK 1733 8 OAK 1734 8 OAK 1735 15 OAK 1736 8 OAK 1737 8 OAK 1737 8 OAK 1738 8 OAK 1739 15 OAK 1740 9 OAK 1741 8 OAK 1741 8 OAK 1742 174 12 OAK 1744 175 OAK 1745 18 OAK 1745 18 OAK 1746 20/15 OAK 1747 23 OAK 1748 8 OAK 1749 9 OAK 1	1655 26" OAK 1656 18/11" OAK 1657 18/15/12" OAK 1657 18/15/12" OAK 1659 24" OAK 1659 38" OAK 1660 6" OAK 1660 6" OAK 1660 6" OAK 1660 25" OAK 1671 10" OAK 1671 10" OAK 1671 10" OAK 1672 35'/22" OAK 1673 12/12/10" OAK 1674 15" OAK 1675 15/10" OAK 1677 15" OAK 1678 25" OAK 1678 25" OAK 1679 10" OAK 1680 25" OAK 1685 25" OAK 1695 15" OA	2009 6" DaK 2010 11/8" OMK 2011 12/8" OMK 2012 25/20" OMK 2013 10/10/7" OMK 2013 10/10/7" OMK 2014 17" OMK 2015 14" OMK 2016 9" OMK 2017 20" OMK 2017 20" OMK 2018 9" OMK 2019 14" OMK 2019 14" OMK 2019 14" OMK 2020 9" OMK 2020 9" OMK 2022 5" OMK 2022 5" OMK 2022 19" OMK 2023 14" OMK 2024 15'/12/1" OMK 2025 15/14/5" OMK 2025 15/14/5" OMK 2026 11" OMK 2027 12" OMK 2029 14" OMK 2029 14" OMK 2029 14" OMK 2020 14" OMK 2021 17" OMK 2025 16" OMK 2025 15" OMK 2025	FOSTER CONANT & ASSOCIATES 120 West Robinson Street Orlando, Florida 32801-1617 Phone (407) 648-2225 www.foeterconant.com Sed
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VISTA RESERVE

CITY OF APOPKA, FL.

RECREATION/OPEN SPACE PLAN

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Driven CPB Owned RRC

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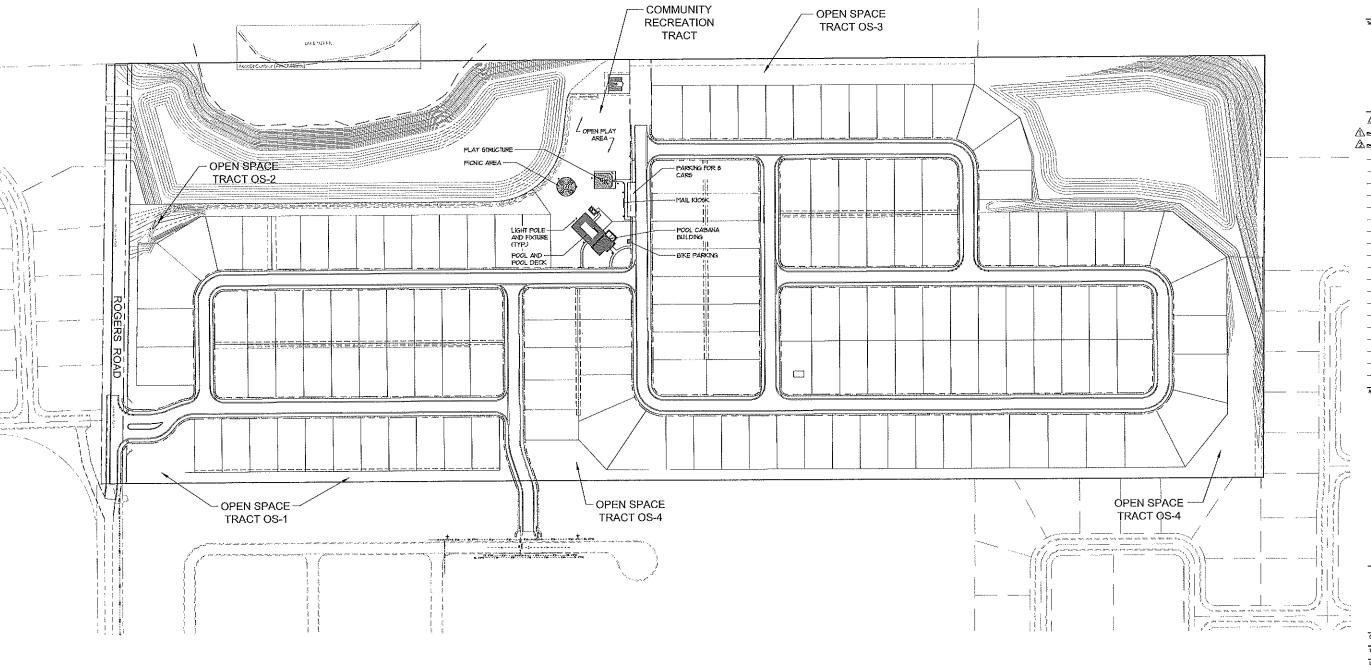
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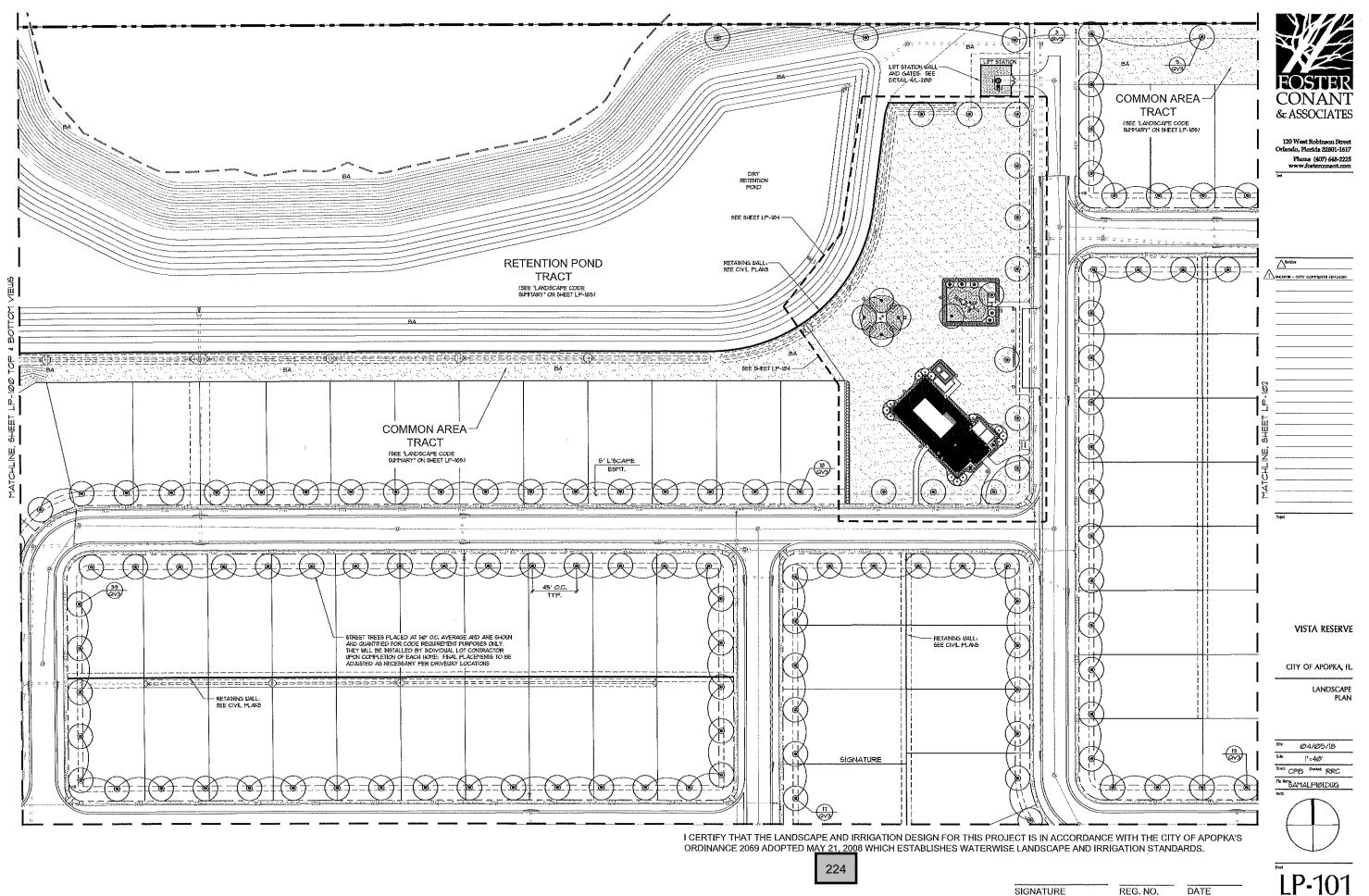
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AND IRRIGATION STANDARDS.

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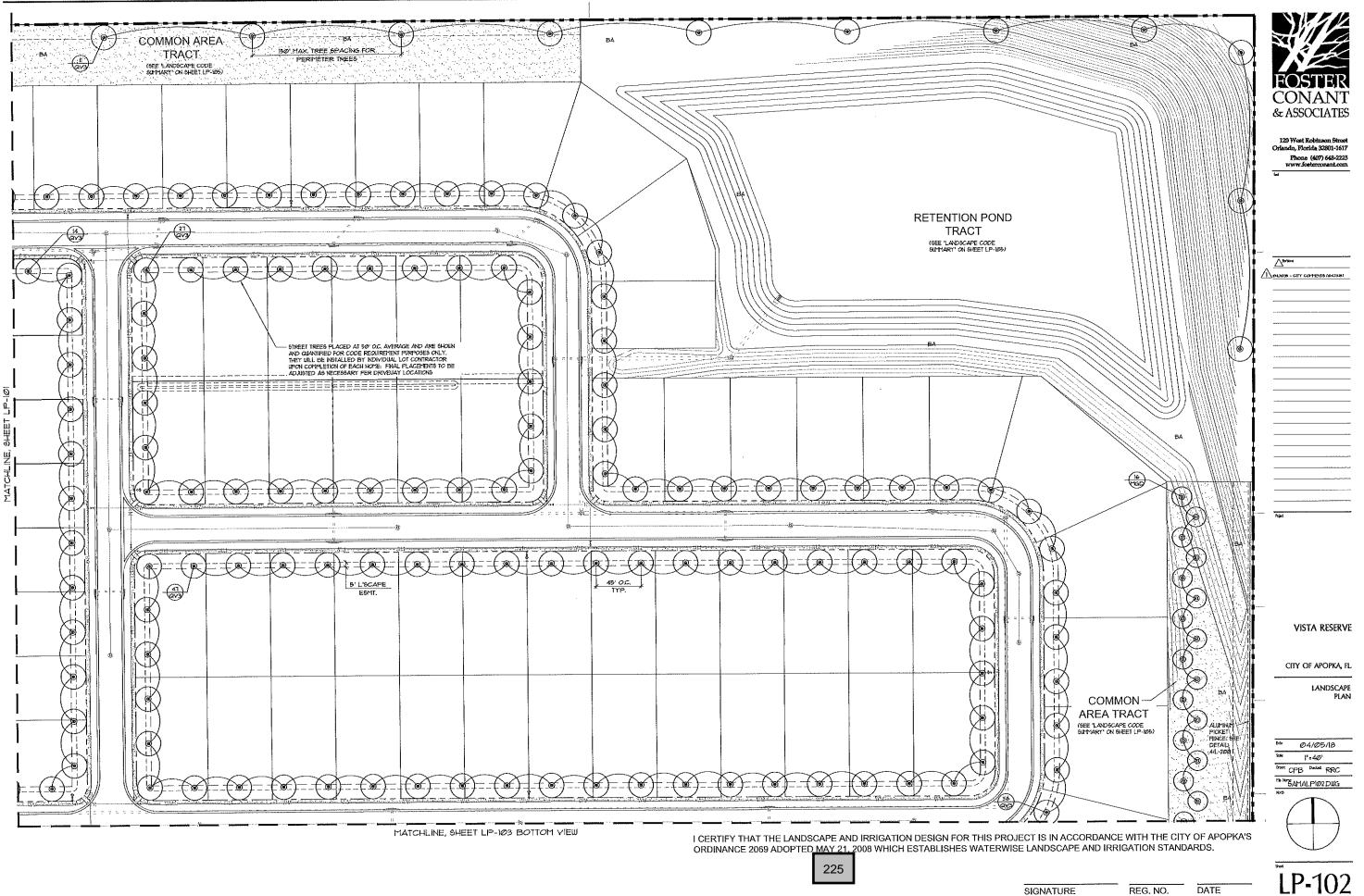
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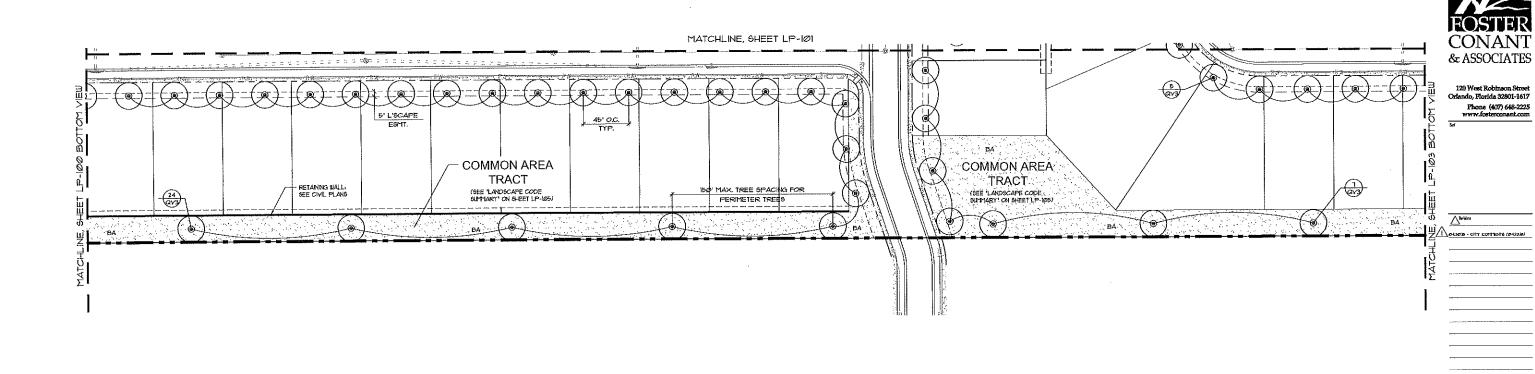


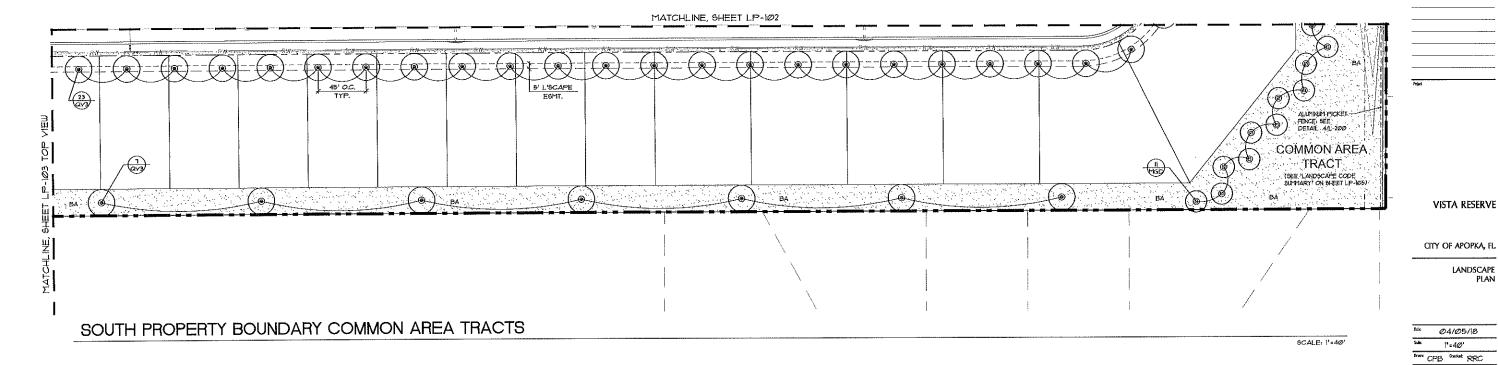
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VISTA RESERVE

LANDSCAPE PLAN

Ø4/Ø5/18

1'=4Ø'

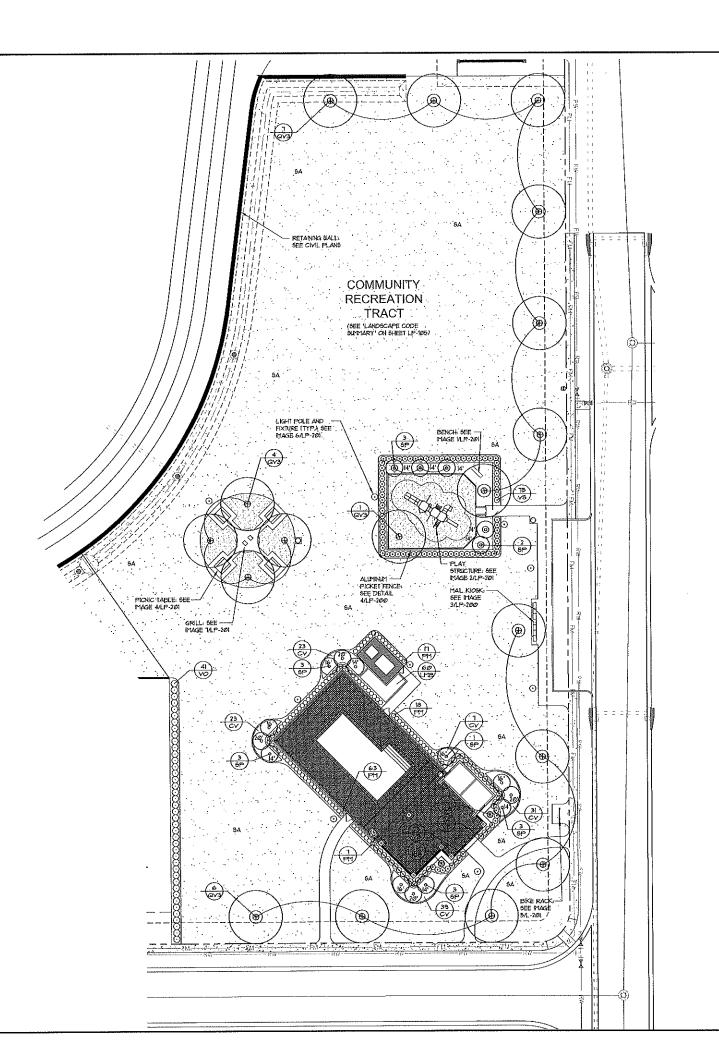
F M SAMALPIØ3DUG

226

SIGNATURE

REG. NO.

DATE





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	<u> </u>
Δ	04309 - CITT COTTENTS (04239)
Δ	063128 - ADD HAIL KIOSK AREA

VISTA RESERVE

CITY OF APOPKA, FL.

LANDSCAPE PLAN

Ø4/Ø5/18 l'=2Ø'

CPB Detail RRC

The PS AMALPIØ4 DIUG



LP-104

227

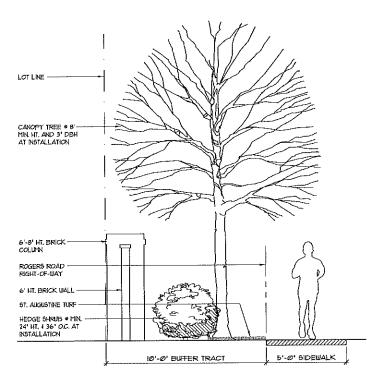
SIGNATURE

I CERTIFY THAT THE LANDSCAPE AND IRRIGATION DESIGN FOR THIS PROJECT IS IN

ACCORDANCE WITH THE CITY OF APOPKA'S ORDINANCE 2069 ADOPTED MAY 21, 2008 WHICH ESTABLISHES WATERWISE LANDSCAPE

AND IRRIGATION STANDARDS.

REG. NO. DATE



10' ROGERS ROAD RIGHT-OF-WAY LANDSCAPE BUFFER

CITY OF ADODKA CODE SHAMADY

REQUIREMENT	CODE REFERENCE	CALCULATION	REQUIRED	PROVIDED	SIZE
ROGERS ROAD NORTH	BUFFER TRACT	•			
ONE CANOPY THEE PER 45 ALONG ROGERS ROAD R.O.W.	SEC. 5.01.08(G) OF APOPKA CODE OF ORDINANCES (ACCO)	776 L.F./45 × 17.3	17 CANOPY TREES	17 CANOPY TREES	M31 25" OBH & 8" HT
CONTINUOUS HEOGE ALONG ROGERS ROAD R.O.W.	SEC. 5.01.98(G) OF APOPKA CODE OF ORDINANCES (ACOO)	N/A	CONTINUOUS ALONG ROAD R.O.W.	CONTRAIOUS ALONG ROAD R.O.W.	MBE 24" HT. @ PEANITHIG & 36" O.C
SEC. 3.9 OF APO PROVIDE SCREEN WALL GEVELOPMENT I GUIDELINES (ADE		IUA	CONTINUOUS ALONG ROAD R.D.W.	COMBRADOUS ALCYNG ROAD R.O.W.	MAX 6"HF. BRICK WALL
ROGERS ROAD SOUTH	BUFFER TRACT				
ONE CANOPY TREE PER 25' ALONG ROGERS ROAD FRONTAGE R.O.W.	SEC. 2.02 18(D)(21)(d) OF APOPKA CODE OF ORDENANCES (ACOO)	67 LF./25 = 2.68	3 CANOPY TREES	3 CANOPY TREES	M31 25 DBH & 8 H
CONTINUOUS HEDGE	SEC. 5.01.08(G) OF ACOO	iva.	COMMINUOUS ALONG ROAD R.O.W.	CONTINUOUS ALONG ROAD R.O.W.	JARL 24" HT. @ PLANTING & 35" O.C
PROVIDE SCREEN WALL	SEC. 3.9 OF APOPKA DEVELOPMENT DESKIN GUIDELINES (ADDG)	NVA	CONTINUOUS ALONG ROAD R.O.W.	CONTINUOUS ALONG ROAD FLO.W.	MAX 6' HT. BRICK WALL
OVERALL TREE REQU	REMENT				
1 CANOPY TREE PER 8000 SQ. FT. OF SITE AREA	SEC 5.01.08(A)	2.660,965 S.F./6000 = 332.52	333 CANOPY TREES	668 CANOPY TREES**	NEW 25 CAL & 6" P
PERIMETER TREE REC	UIREMENT				
1 CAKOPY TREE PER 150 FT. OF SITE PERIMETER	SEC. 2.02.18(D)(21)(d)(1) OF APOPKA CODE OF ORDINANCES (ACOO)	6301 LF#150 = 42.00	42 CANOPY TREES	60 CANDPY TREES	MIN 25 CAL 88'F
COMMUNITY RECREAT	ION TRACT				
t CANOPY TREE PER 4000 SQ. FT. OF TRACT AREA	SEC. 5.01.08(F) OF ACOO	72,679 S.F./4000 = 18.16	18 CANOPY TREES	16 CANOPY TREES	MIN 25 CAL & 81

t Since a 6' wall is also being provided in this buffer, a 24' shrub helght is being substituted for the normally required 36' high berm/hedge screen require'
Proposed oversil litee total consists of 249 canopy street trees, 111 canopy trees to be placed in common tract areas and 366 canopy trees at 2 trees per

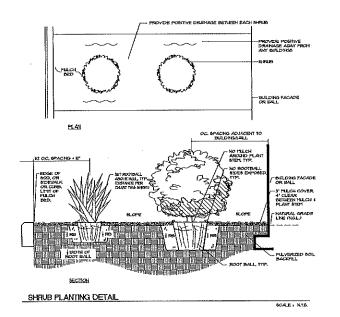
NOTE:

SCALE - 3/8' - 1-0"

ALL SPECIFIED PLANTS IN THE PLANT LIST ARE "FLORIDA FRIENDLY"
AS LISTED IN THE FLORIDA FRIENDLY LANDSCAPING GINDE AS
PUBLISHED BY THE UNIVERSITY OF FLORIDA/FASE SKITENDLAND SERVICE
AND THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

- 2" HLCH COYEN, AYON CONTACT FEM TRAK

SYLVESTER DATE PALM DETAIL



PLANT SCHEDULE

IREE8						Charles III
SYM	QTY	BOYANICAL NAME	COMMON NAME	SPECIFICATION	WATER USE	NATRYE
ED -	8	ELAEOCARPUS DECIPIENS	JAPANESE BLUEBERRY	MIN. 8 HT. & 3' MIN. CAL., FULL, 3' C.T.	LOW	NO
LJ :	2	LIGUSTRUM JAPONICUM	TREE LIGUSTRUM	MIN. 6"HT., FULL, MULTI-STEM	MEDANN	NO.
MGD	27	MAGNOLIA GRANDIFLORA 10 D. BLANCHARD	D.D. BLANCHARD MAGNOLIA	MIN. 8" HT. & 3" MIN.CAL., FULL, SYMMETRICAL FORM	HEDUM	YES
QV3	359	QUERCUS VIRGINIANA	LIVE OAK	MIN. 8' HT. & 3" MIN.CAL., FULL, SYMMETRICAL FORM	LOW	YES
ALMS						
SYM	QTY	BOTANICAL NAME	COMMON NAME	SPECIFICATION	WATER USE	HATIVE
PS	3	PHOENIX SYLVESTRIS	SLVER DATE PALM	MIN, 10' C.T., DIAMOND-CUT TRUNK, SPECIMEN QUALITY	LOW	NO
SP	28	SABAL PALMETTO	CABBAGE PALL!	REMOVE BOOTS, C.T. HT. AS NOTED ON PLANS, REGENERATED ROOTS	LOW	YES
HRUBS						
SYM	ary	BOTANICAL NAME	COMMON NAME	SPECIFICATION	WATER USE	NATIVE
ĊV	123	CALLISTEMON VIMINALIS LITTLE JOHN	DWARF BOTTLEBRUSH	3 GAL., 12'-14" HT. X 12"-14" SPRD, 24" O.C.	LOW	NO
08	58	DIETES SICOLOR	YELLOW AFRICAN IRIS	I GAL., 18"-24" HT., 3-4 PPP, 18" O.C.	MEDAUM	NO
ICS	2	LEXCRENATA SKY PENCIL	SKY PENGIL HOLLY	3 GAL., 24'-28' HT. X 24'-28' SPRO., 30" O.C., FULL	MEDIUM	YES
LMB :	80	LIRIOPE MUSCARI BIG BLUE	BKG BLUE BORDER GRASS	1 GAL., FULL IN POT, 18" O.C.	LOW	NO.
MC	73	MUHLENBERGIA CAPILLARIS	HUHLY GRASS	3 GAL., 24"-28" HT. X 24"-25" SPRD , 30" O.C., FULL	LOW	YES
PM	105	POODCARPUS MACROPHYLLUS	YEW PODOCARPUS	3 GAL., 20"-24" HT. X 14"-16" SPRD, 24" Q.C.	LOW	NO
RIA	105	RHAPHIOLEPIS INDICA 'ALBA'	WHITE INDIAN HAWTHORN	3 GAL., 12'-14" HT. X 12'-14" SPRD, 24" O.C.	LOW	CH1
VO	323	VIBURNUM ODORATISSIMUM	SWEET VIBURNUM	MIN. 24" HT., 3" O.C., FEAL.	NEDVUM	NO
vs	122	VIBURNUM SUSPENSUM	SANDANKWA VIBURNUM	3 GAL., 16*-20" HT, X 16*-20" SPRD., 30" O.C., FULL	MECKUM	NO.
RASS				1		
SYM	qTY	BOTANICAL NAME	COMMORNAME	SPECIFICATION	WATER USE	NATIVE
ВА	TBD	PASPALUU NOTATUM 'ARGENTINE'	ARGENTINE BAHIA	FULL, DENSE FOLIAGE, PEST AND DISEASE FREE	LOW	NO
SA	твр	STENOTAPHRUM SECUNDATUM FLORATAM	FLORATAM ST. AUGUSTINE	FULL, DENSE FOLIAGE, PEST AND DISEASE FREE	MEDIUM	Ю

& ASSOCIATES

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Verson - CLLL COLLEGIO (04738)

GENERAL NOTES

- L ALL INPAYED AREAS NOT DESIGNATED AS A LANDSCAPE SHRUB BED SHALL BE COYERED WITH 60D AS NIDICATED ON PLANS.
- ALL SHRUBS SHALL BE PLANTED I-I/O' AND TREES AT HEIGHT SPECIFIED IN TREE PLANTING DETAIL ABOVE GRADE. CONTRACTOR SHALL BE RESPONSIBLE FOR FROFER PLANT HEALTH IN OR INSITE SOLIS.
- NEULT INSTALLED TREES SHALL HAVE THEIR CALIPER PEASURED AT DIAPETER BREAST HEIGHT (DBH) PER CITY OF APOPIKA CODE.
- 4. ALL PLAN MATERIAL CHALL REET OR EXCEED THE GRADE STANDARDS OF FLORIDA NO. I AS PROVIDED IN GRADES AND STANDARDS FOR NEWERT PLANTS (LATEST EDITION) STATE OF FLORIDA, DEPARTMENT OF ASPICILITIES, TALLAHASSEE, AND ANY APENDMENTS THERETO.
- THE LANDSCAPE ARCHITECT MAY REJECT ANY PLANT MATERIAL BROUGHT TO THE SITE WHICH HE DEEMS TO BE OF MERIOR QUALITY, DOES NOT YEET FLORIDA NO. I GRADE OR THAT DOES NOT MEET SPECTIED SIZE.
- ALL TREES WITH THE EXCEPTION OF PALMS SHALL BE EITHER CONTAINER GROWN OR FIELD GROWN, NO GROW BAGS WILL BE ACCEPTED.
- ALL PLANT BEDS AND DESIGNATED TALCH' AREAS SHALL BE TOP-DEESSED WITH A MINIMAL OF 3' PRE BARK MINI-NIGGETS' MILCH.
- ALL TREES SHALL HAVE ALL SYNTHETIC BURLAP REHOVED FROM THE ENTIRE ROOT BALL THE TOP THREE ROUS OF SQUARES ON ALL CAGES ARXIND THE ROOT BALLS SHALL BE CLIPTED OFF AND REHOVED.
- IO. THE CONTRACTOR SHALL READ AND ADHERE TO ALL URITTEN SPECIFICATIONS.
- IL THE CONTRACTOR SHALL SUBMIT UNIT PRICES FOR ALL BID ITEMS.

EDGE OF HALCH RING TO BE N' OUTSIDE OF WE'RE GATHS CASS BITTER GROUND

LARGE TREE PLANTING DETAIL

- 2. THE CONTRACTOR SHALL VERBY ALL EXISTING UTILITY LOCATIONS AND DEPTHS FRIOR TO LANDSCAPE INSTALLATION.
- B. THE CONTRACTOR SHALL YIBHALLY INSPECT THE SOILS CONDITION OF THE SITE. HE SHALL DIS A MINISM OF B TEST HOLES 3 FEET DEEP RANDONLY ARCOND THE SITE. HE SHALL PREPORT FERCOLATION TESTS IN THESE HOLES FOR A PERIOD OF CASE HOUR BOACH. THE HOLES SHALL BE FILLED WITH WATER AND IF THE HOLES HOLD MOVET THAN 6' OF WATER AFTER OKE HOUR, THE LANDSCAPE ACCITIENT LIGHT BOACH OF THE PROPELET THE CONTRACTOR SHALL RECOYDIND BUSSTITUTIONS OF PLANT HATERIAL AND PLANTING MISTALLIGHT TO ACCORDANCE.
- IN THE CONTRACTOR SHALL PROVIDE A SOL TEST NO ALCOATIONS AND PROVIDE RECONTRIBUDATIONS FOR ATENDRENIS BASED ON THE RESULTS IN ORDER TO ACHIEVE A BALANCED PH FOR THE PLANTING BACKFILL (SEE SECTION \$2/IB OF THE LANDSCAPE SPECIFICATIONS). PROPER SOL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR THE CONTRACTOR SHALL RECTIFY ALL NOURSED DATAGES AT NO ADDITIONAL COST TO THE CONTRACTOR SHALL RECTIFY ALL NOURSED DATAGES AT NO ADDITIONAL COST TO THE CONTRACTOR.

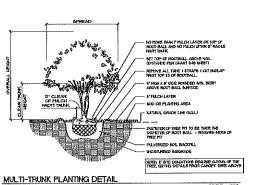
228

HO HOPE THAN FINALCH LAYER ON TOP OF ROOT BALL AND NO HALON BITHIN BY RANGE FRONT DRINK

- PLATETER OF TREE FIT TO BE TAKE THE PARTETER OF ROOT BALL POLICED! SIDES OF TREE FIT

- 4" HOJI K B" TADE RIXADED BOIL DEPH ABOVE ROOT BALL BURGLE FOR BELL DRAVED BOIL DRAY! -- KAX J'HLGI LATER

- B. BUCCESSFIR, BIDDER SHALL LOOK UP ALL MATERIALS INTEDIATELY AFTER CONTRACT ASSIGNMENT, PLANTS SHALL BE HELD DURBN THE PERHOD FRICH CONTRACT TO NOTALLATION TO ALLOU FOR ADDITIONAL GROWNII, ALL PLANTS WILL BE REQUIRED TO BE RILL AND HEALTHY, CONTRACTOR SHALL ARREADED FOR FLANT APPROVAL PRIOR DELIVERY EITHER BY SAMPLES, PHOTOS OR INTESERY WISTS.
- IB. THE CONTRACTOR SHALL REVIEW THE SOILS REPORT ON FILE WITH THE OWNER
- FI. THE INSTALLATION OF PLANT MATERIAL SHALL BE VIEWED AS ACCEPTANCE BY THE CONTRACTOR OF EXISTING GRADES AS GIVEN TO HIM.
- IB. IN THE EYENT OF A VARIATION BETRIEDN THE PLANT LIST AND THE ACTUAL QUANTITY OF PLANTS SHOULD ON THE PLAN DRAWNAS, THE PLANTS SHALL CONTROL. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING A GUANTITY COURT AS A CHECK FOR DISCREPANCIES.
- 20. WERE LIGHT FOLES AND TREES OR STREET SIGNS AND TREES OCCUR IN PROXIMITY TO EACH OTHER, A MINIMUM SEPARATION OF 10 FEET SHALL, BE MAINTAINED.
- 71. THE CONTRACTOR WILL BE REGUIRED TO SAND AREAS OF SOO THAT ARE NOT SMOOTHLY APPLIED TO ELIPINATE SMALL RREGULARITIES IN GRADES, LARSE GRADE RREGULARITIES WILL RECURRE REGRADMS AND RESOCONG.
- 27. THE CONTRACTOR IS RESPONSIBLE FOR MANTENANCE OF THE SITE NOLUDING ALL MOUNG, EDGING, TRINTING, PRINING AND SPRAYING OF PESTICIDES AND RANGICIDES UNTIL THE TITLE OF FRAM, ACCEPTANCE BY THE OURSE, IF PROJECT IS NOTALED IN PHASES, CUINER UILL PROVIDE PHASING INFORMATION AT TITLE OF BIDDING PROCESS.
- 2). CONTRACTOR SHALL BE RESPONSIBLE FOR RECEIVING THE LANDSCAPE ARCHITECT'S APPROVAL OF ALL PLANT BED LAYOUTS AND TREE LOCATIONS PRIOR TO NOTALLATION. IF PLANT HATERIAL IS NOTALLED PRIOR TO LANDSCAPE ARCHITECT'S APPROVAL, CONTRACTOR WILL BE GUBARCT TO SELECCATING THE MATERIAL AT THE LANDSCAPE ARCHITECT'S REQUEST AND AT THE CONTRACTOR SUM BY PROPERS.
- 24. PRIOR TO THE REMOVAL OF ANY TREES, THE TREES TO BE RETAINED SHALL HAVE PROTECTIVE TREE BARRIERS FER THE TREE PROTECTION DETAIL.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE NORMAL HIGH WATER ELEVATION OF THE RETENTION POLICIES WITH THE CIVIL ENGINEER PRIOR TO PLANTING ANY SPECPHED TREES OR LITTORAL PLANTINGS IN THE PREDIATE POOL VICINITY. THE LANDSCAPE ASCHIELT SHALL BE NOTHED IF THE NORMAL MATER ELEVATION IS NOT AS SHOWN ON THE LANDSCAPE HANDS OF THE PROPERTY REPUBLISHES CAM BE HANDSCAPE.



I CERTIFY THAT THE LANDSCAPE AND IRRIGATION DESIGN FOR THIS PROJECT IS IN ACCORDANCE WITH THE CITY OF APOPKA'S ORDINANCE 2069 ADOPTED MAY 21, 2008 WHICH ESTABLISHES WATERWISE LANDSCAPE AND IRRIGATION STANDARDS.

LANDSCAPE NOTES & DETAILS Ø4/Ø5/18 AS NOTED OFF CPB Chatter RRC R MOSAMALPIØSDIUG

VISTA RESERVE

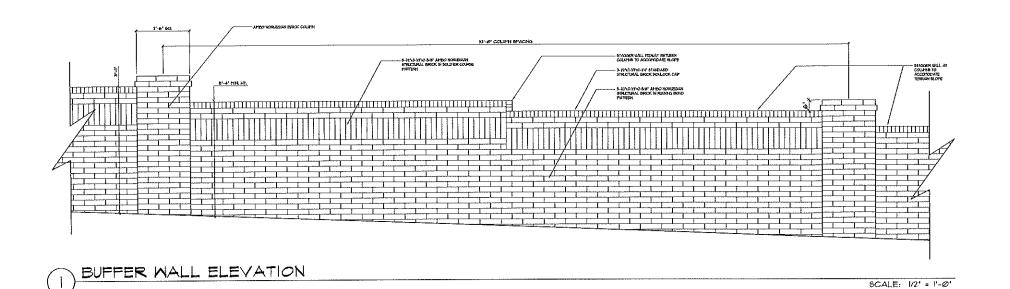
CITY OF APOPKA, FL

LP-105

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DATE





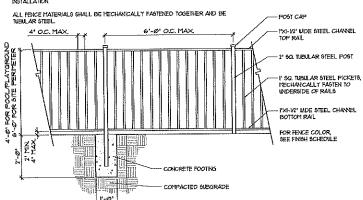
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PALSON - CITY CONTENTS (842338) A PULLE - CITT CONTENTS (PIESE)

. Alumnum Picket Gates - JMBO NORLEGIAN BRICK COLLIMN AND WALL - 45852) MODULAR ROULOCK BRICK (3) LIFT STATION WALL AND GATE ELEVATION SCALE: 1/2" = 1'-@"

SHOP DRAWNAS, HARDWARE AND SPECFICATIONS WILL BE REQUIRED PRIOR TO FARRICATION OF THE GATES AND TO BE APPROVED BY THE OWNER PRIOR TO INSTALLATION

2 SIGN WALL ELEVATION



SIGN SHALL NOT EXCEED B' N HEIGHT PER LOR SEC, BØ4J5(b)

PLAYGROUND/SITE PERIMETER PICKET FENCE SCALE: 1/2' = 1'-@'

- FRECAST CONC. CAP AND SIGN FRAME

4'x8'x2|' MODULAR ROULOCK BR!CK

SCALE: 1/2' = 1'-@'

VISTA RESERVE

CITY OF APOPKA, FL.

HARDSCAPE DETAILS

Ø4/Ø5/18 AS NOTED

Part CPB Owner RRC FEMTHLP200DUG

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229

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BENCH

PICNIC TABLE

2 PLAY STRUCTURE

5 BIKE RACK



MAIL KIOSK (3)

N.T.S.

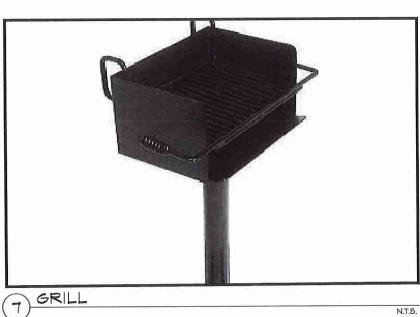
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N.T.S.





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N.T.S.

VISTA RESERVE

CITY OF APOPKA, FL

HARDSCAPE

04/05/18 Sale AS NOTED

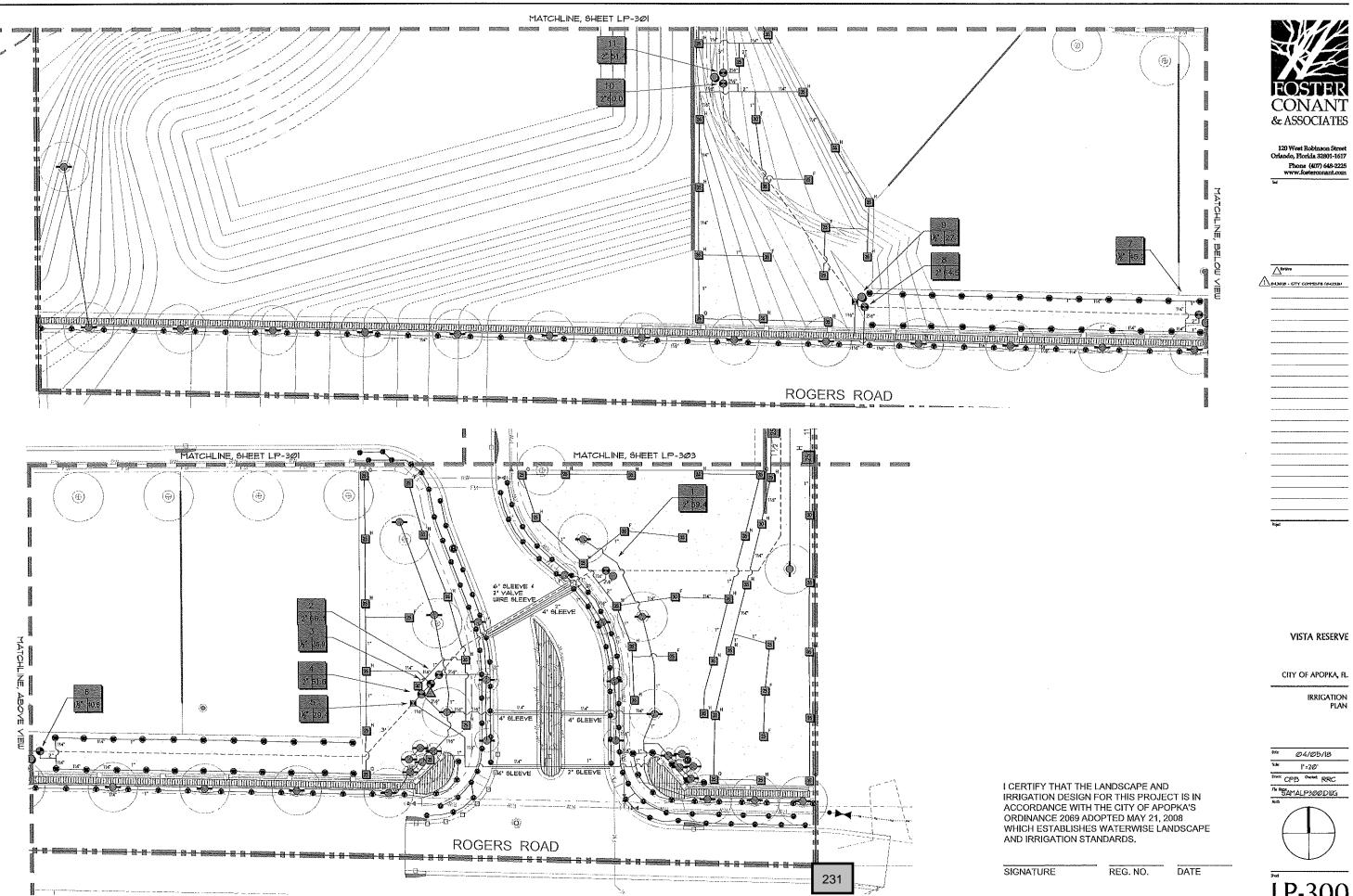
treet CPB Detail RRC PAR NOTEMTHLP201DWG

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SIGNATURE

N.T.S.

LP-201 REG. NO. DATE



CITY OF APOPKA, FL.

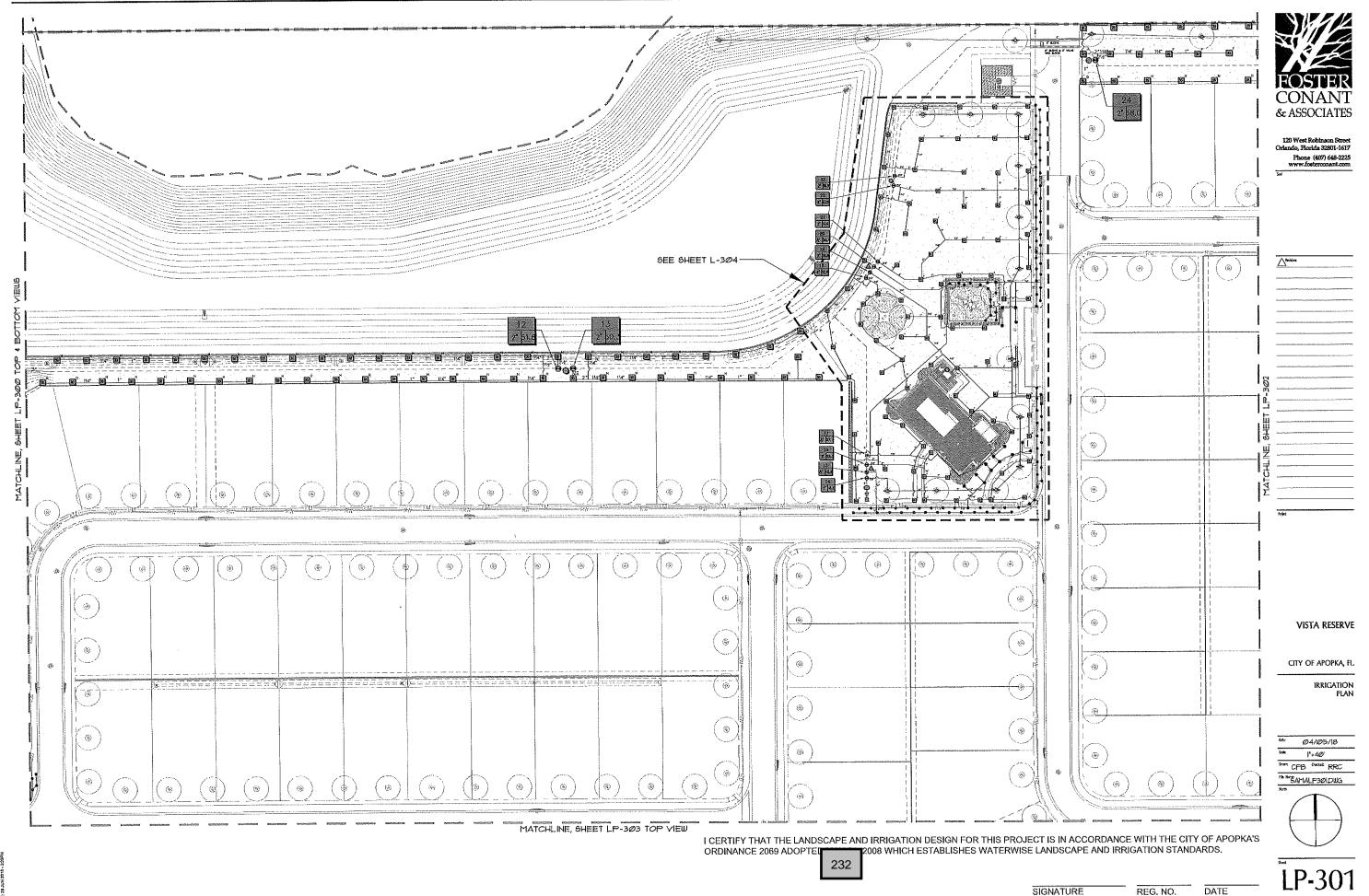
IRRIGATION

Ø4/Ø5/I8 l'=2Ø'

from CPB (twint RRC

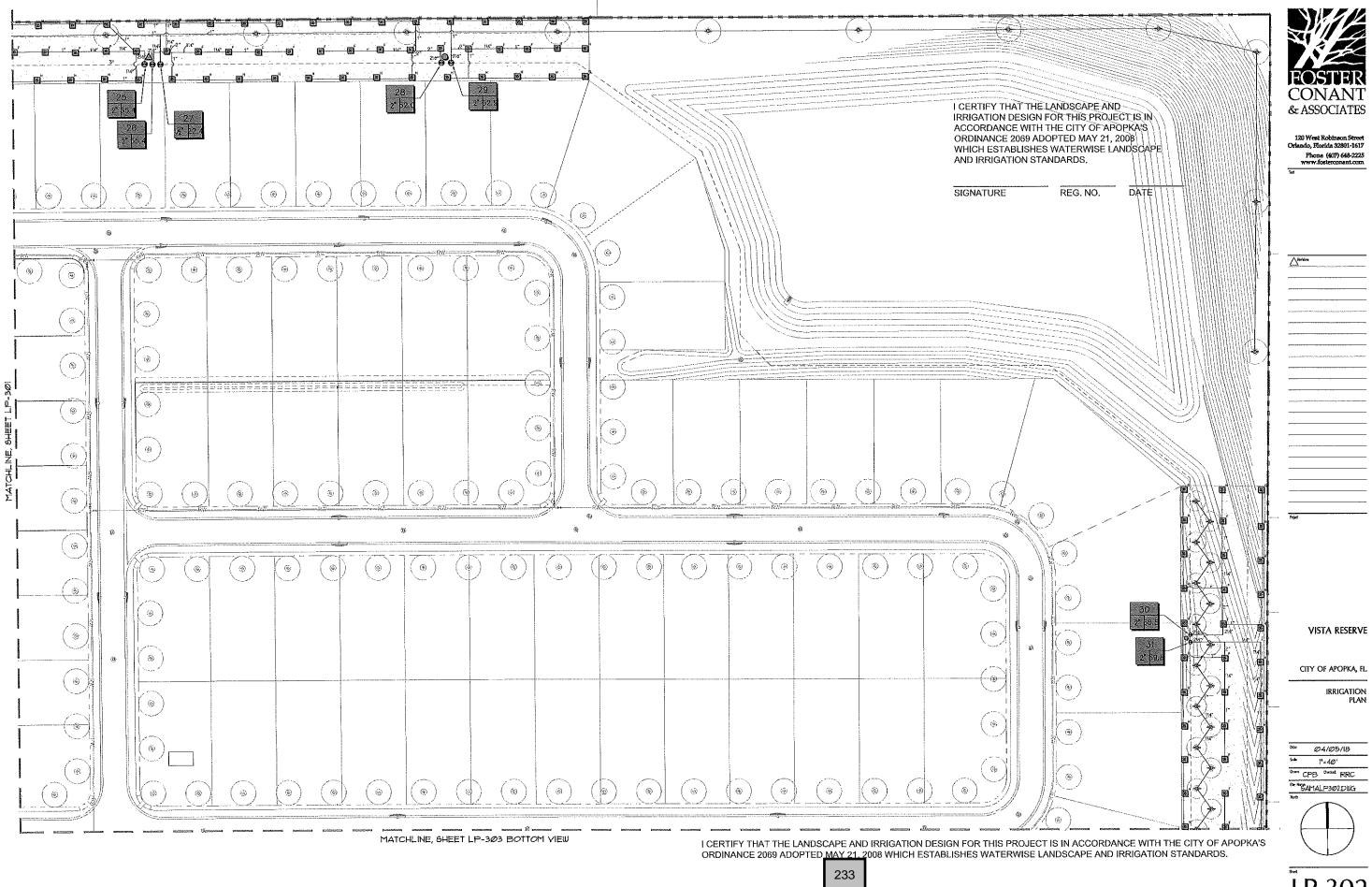
***SAMALP300DUG





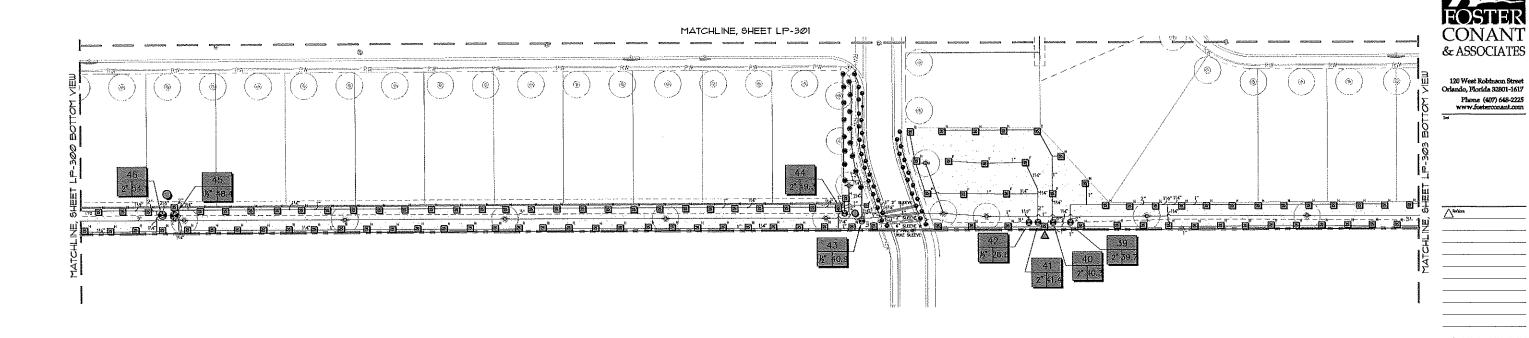
SIGNATURE

DATE



SIGNATURE

REG. NO. DATE



MATCHLINE, SHEET LP-3/02 SOUTH PROPERTY BOUNDARY COMMON AREA TRACTS

> I CERTIFY THAT THE LANDSCAPE AND IRRIGATION DESIGN FOR THIS PROJECT IS IN ACCORDANCE WITH THE CITY OF APOPKA'S ORDINANCE 2069 ADOPTED MAY 21, 2008 WHICH ESTABLISHES WATERWISE LANDSCAPE AND IRRIGATION STANDARDS.

THE STAMAL P303 DWG

VISTA RESERVE

CITY OF APOPKA, FL

Ø4/Ø5/18

l'=40' CPB Debt RRC

IRRIGATION

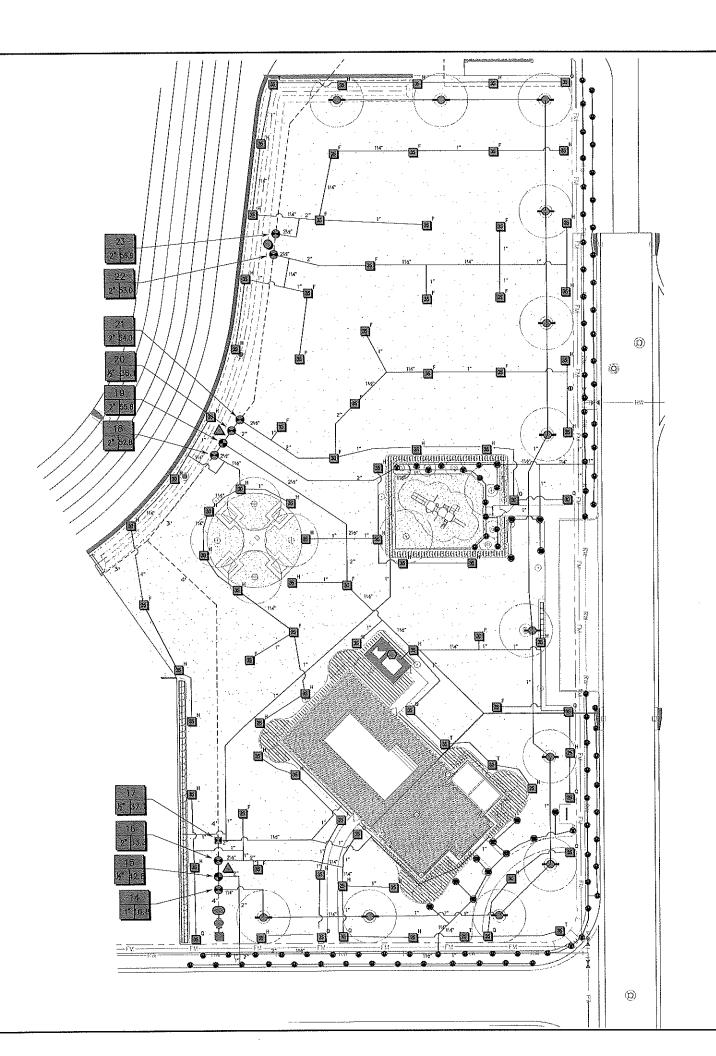
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6CALE: 1" 40"

LP-303 DATE

234





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	△ Rerbiora
Δ	0430M - CITY COITENTS (0433M

VISTA RESERVE

CITY OF APOPKA, FL.

IRRIGATION PLAN

I CERTIFY THAT THE LANDSCAPE AND IRRIGATION DESIGN FOR THIS PROJECT IS IN ACCORDANCE WITH THE CITY OF APOPKA'S ORDINANCE 2069 ADOPTED MAY 21, 2008 WHICH ESTABLISHES WATERWISE LANDSCAPE AND IRRIGATION STANDARDS.

SIGNATURE

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™ Ø4/Ø5/I8 1'=2Ø' Print CPB Ducket RRC

FAMALP3Ø4DUG

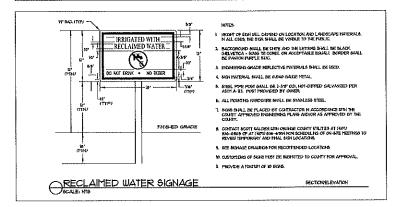
SYMBOL.	MANUFACTURER/MODEL	ARC	<u>PS1</u>	CPM	RADIUS
ø	Roin Bird 1806-U-SAM-PRS 15 Strip Series	EST	30	0.6t	4'x15'
8	Rain Bird 1808-U-SAM-PRS 15 Strlp Series	SST	30	1.21	4 x 30
@	Rain Bird 1806-U-SAM-PRS U12 Series	360	30	2.60	12'
©	Roin Bird 1806-U-SAM-PRS U15 Series	360	30	3.70	15' 8'
9	Rain Bird 1806—U—SAM—PRS HEVAN Series Rain Bird 1806—USAM—PRS HEVAN Series	Adj Adi	30 30		10,
69	Roin Bird 1806-U-SAM-PRS HE-VAN Series	AdJ	30		12'
	Rain Bird 1806-U-SAM-PRS HE-VAN Series	Ad]	30		15'
*	Rain Bird 1800-1300AF Flood	360	20	1.40	3'
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION		<u>PSi</u>	GPM.	RADIUS
™ **C	Roin Bird 5006-NP-PC,FC-MPR Turf Rotor, 5.0° Pop-Up, Plastic Riser, Motthed Presipitation Rotor (MPR nozzle). Are and Rodius as per Symbol. 25 ft=red, 30 ft=green, 35ft=belge. With Non-Potable Purple Cover.		35		24'
₩ ^{ACC}	Rain Bird 5006-NP-PC,FC-MPR Turf Rotor, 6.0° Pop-Up, Plastic Riser, Motched Precipitation Rotor (MPR nozzle), Arc and Radius as per Symbol, 25 (tered, Jo (tegreen, 35ft-beige, With Non-Potable Purple Cover.		35		30'
ARC SEE	Rain Bird 5008-NP-PC.FC-MPR Turf Rotor, 6.0" Pop-Up, Plostic Riser, Matched Precipitation Rotor (MPR nazzle). Are and Radius as per Symbol. 25 ft-red, 30 ft-green, 35ft-beige. With Non-Potable Purple Cover.		35		34'
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION				
Ø	Roin Bird XC2-150-PRB-CDM 1-1/2" High Flow Control Zone Klt, for Lorge Commercial Drip Zones. 1-1/2" PESB Volve wil two 1" Pressure Regulating (40psi) Quick-Check, Basket Filters. Flow ronge: 15-40gpm.	lh			
10 A	Area to Receive Dripline Rain Blrd XFD -U9-12 XFD 0n-Surface Pressure Campensating Landscape Dripline. 0.9 GPH emitters at 12* O Pripline laterals spaced at 12* opart, with emitters offset for triangular pattern. UV Resistant. Specify XF insert fittings.	.C.			
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION				
8	Roin Bird PESBR 1-1/2" 1", 1-1/2", and 2" Dursoble Chlorine-Resistant Yalves for Reclaimed Water Applications. With Serubber Mechanism Technology, and Purple Flow Control Mondle.				
8	Roin Bitd PESBR 1" 1", 1—1/2", and 2" Duroble Chlorine—Resistant Yaves for Readolmed Water Applications. With Scrubber Mechanism Technology, and Purple Flow Control Handle.				
8	Rain Bird PESBR 2" 1" 1-1/2" and 2" Durable Chlorine-Resistant Yolves for Reclaimed Water Applications. With Scrubber Mechanism Technology, and Purple Flow Control Handle.				
•	Rain Bird 300-BPE-PRS-D-NP-HAN Globe 3* 3* Bross Moster Yolve, with Globe Configuration. With PRS-Dial Pressure Regulator Module, With Purple Flow Control Handle for Non-Potable Water Applications.				
	Rain Bird ESP—LXD—LXMMSS—LXMMSSPED 50 station 2—wire, exterior stainless steel pedestal. Flow sensing.				
(S)	Rain Bird RSD—BEX Rain Sensor, with metal latching bracket, extension wire. Roin Bird FD—101TURF				
_	Field Decoder for Two-Wire system. Install in valve box for valve. Operates one valve/solenoid. Use line surge protection as per monificationations.				
@	Rola Bird FD-202TURF Field Decoder for Two-Wire system. Install in valve box for valve. Operates two valve/Satenolds or two pairs of valves. Use line surge protection as per manufasturer directions.				
▲	Rolo Bird FD-4011URF Field Decader for Two-Wire system. Install in valve box for valve. Operates up to four valvey/solenoids. Use line surge protection as per monistations.				
6	Roin Bird FS-300-P 3" Flow Smarp for use with Rain Bird Maxico SiteControl, and ESP-LXD Centrol Control Systems. Plastic (PVC) Model. Suggested Operating Range of 20,0 GPM to 300.0 GPM. Sensors should be sized for flow rother than pipe size.	m.			
	Water Mater 2" RECLAIM FOC				
	irrigation Lateral Line: PVC Class 160 SDR 26 SEE PLAN FOR PIPE SIZE.	5-NP			
	SEE PLAN FOR PIPE SIZE. Irrigation Mainline: PYC Closs 200 SOR 21 SEE PLAN FOR PIPE SIZE.				
	Value Gallock				

\/A \/C	SCHEDITE	Marie Control of the					
VALVE.	SCHEDULE MODEL	SIZE TYPE	GPN	<u>MRE</u>	P.S.I	PSI @ POC	PRECIP.
1 2	Roin Bird PESBR Rain Bird PESBR	2" Turf Rotor 2" Turf Spray	59. 66.	27 1,635	40.29 36.65	61,44 55.05	0.65 in/h 1.18 in/h
3 4 5	Rain Bird PESBR	1-1/2" Turf Rotor 2" Tree Bubbler 1-1/2" Plant Bed Drip	36.9 61.6 29.4	0 1,622	39.62 34.22 34.58	48,18 45.71 42.50	0.62 in/h 4.77 in/h 1.44 in/h
6 7	Rain Bird PESER	1-1/2" Turf Spray	40.5 45.1	6 1,415	35.62 34.46	44.35 43.63	1.15 in/h 1.13 in/h
8 9	Rain Bird PESBR	2" Turt Spray 1w1/2" Plant Red Dria	64.4 27.1	17 1,239 14 1,233	38.89 31.85	47 39.44	1.75 In/h 1.44 In/h
10 11	Rain Bird PESBR Rain Bird PESBR	2" Turf Rotor	59.5 51.4	1,096	40.68 42.19	51.08 51.63	0.61 in/h 0.61 in/h
12 13	Roin Bird PESBR Roin Bird PESBR	Z" Turf Rotor Z" Turf Rotor 1" Tree Bubbler	51.8 50.3	53 517.8	42.60 42.42	51.60 51.27	0.60 in/h 0.59 in/h
14 15 16	Roin Bird PESBR	1-1/2" Turf Spray 2" Turf Rotor	16.8 42. 53.	75 208.0	29.38 37.17 40.87	36.38 45.25 49.66	4.77 In/h 1.08 In/h 0.60 In/h
17 18	Rain Bird PESBR	1-1/2" Plant Bed Drip 2" Turf Rotor	37. 52.	73 190.8	40.48 40.79	48.26 49.72	1.44 in/h 0.58 in/h
19 20	Rain Bird PESBR	2" Turf Rotor	55.1 36.1	32 292.8 39 299.9	42.34 35.26	51.53 43.03	0.72 in/h 1.19 in/h
21 22	Rain Bird PESBR Rain Bird PESBR	2" Turf Rotor 2" Turf Rotor	53. 53.	386.6	40.98 40.05	50.02 49.06	0.61 in/h 0.59 in/h
23 24	Roin Bird PESBR Roin Bird PESBR	2" Turf Rotor 2" Turf Rotor 2" Turf Rotor	56. 57.	97 690.5	41.39 41.23 40.68	50.75 50.91 50.42	0.54 in/h 0.55 in/h 0.53 in/h
25 26 27	Rain Bird PESBR Rain Bird PESBR Rain Bird PESBR	2" Turf Rotor	55. 55. 22.	37 998.4	40.30 38.15	50.05 45,40	0.56 in/h 4.77 in/h
28 29	Rain Bird PESBR Rain Bird PESBR	2" Turf Rotor	52. 52.	04 1,286	40.63 40.78	50.37 50.63	0.54 in/h 0.54 in/h
30 31	Rain Bird PESBR Rain Bird PESBR	2" Turf Rotor 2" Yurf Rotor	56. 59.	46 2,424 78 2,432	41.11 41.59	53.31 54.43	0.55 in/h 0.55 in/h
32 33	Roin Bird PESBR Roin Bird PESBR	2" Turf Rotor 2" Turf Rotor	53. 54.	67 2,659	40.91 41.35	62.03 53.65	0.58 In/h 0.58 In/h
34 35	Rain Bird PESBR Rain Bird PESBR	1-1/2" Tree Bubbler 2" Turf Rotor	37. 45.	33 2,848	28.28 41.34	37.78 62.20	4,77 in/h 0.58 in/h
36 37 38	Roin Bird PESBR Roin Bird PESBR Roin Bird PESBR	2" Turf Rotor 2" Turf Rotor 2" Turf Rotor	39. 55. 53.	36 3,472	42.03 43.47 43.23	62.02	0.59 ln/h 0.58 ln/h 0.58 ln/h
38 39 40	Roin Bird PESBR Roin Bird PESBR	2" Turf Rotor 2" Turf Rotor	39. 40.	66 2,799	41.92 41.25		0.59 în/h 0.57 în/h
41 42	Rain Bird PESBR Rain Bird PESBR	2" Turf Rotor 1-1/2" Tree Bubbler	41. 26.	43 2,769 60 2,760	41.16 34.30	51.15 42.45	0.56 în/h 4.77 in/h
43 44	Rain Bird PESBR Rain Bird PESBR	1—1/2" Turf Spray 2" Turf Rotor	40. 49.	32 2,585	33.12 40.73	52.48 51.71	1.11 in/h 0.60 in/h
45 46	Rain Bird PESBR Rain Bird PESBR	1—1/2" Turf Rotor 2" Turf Rotor	48. 54,		41.60 40.57	51.85 61.68	0.60 in/h 0.59 in/h
WATER	COMMON WIFE RING SCHED	ULE		6,742			
NUMBER	MODEL Roln Bird PESBR	IYPE Turi Rotor	PRECIP. 0.65 in/h	N./WEEK 1.50	MIN./WEEK	GAL./WEEK 8,201	GAL/DAY 4,101
1 2 3	Rain Bird PESBR	Turf Spray Turf Rotor	1.18 in/h 0,62 in/h	1.50	77 145	5,103 5,355	2,551 2,677
4 5	Rain Bird PESBR	Tree Bubbler Plant Bed Drip	4.77 in/h 1.44 in/h	1	13 42	800.8 1,235	400.4 617.7
6 7	Rain Bird PESBR	Turf Spray Turf Spray	1.15 in/h 1.13 in/h	1.50 1.50	79 80	3,204 3,617	1,602 1,809
8 9	Rain Bird PESBR	Turf Spray Plant Bed Drip	1.76 in/h 1.44 in/h	1.50	52 42	3,352 1,140	1,676 570.0
10 11	Roin Bird PESBR Roin Bird PESBR	Turf Rotor Turf Rotor Turf Rotor	0.61 in/h 0.61 in/h 0.60 in/h	1.50 1.50 1.50	149 147 151	8,937 7,552 7,822	4,469 3,781 3,911
12 13 14	Roin Bird PESBR Roin Bird PESBR Roin Bird PESBR	Turi Rotor Trea Bubblar	0.59 in/h 4.77 in/h	1.50	153	7,700 218,4	3,850 109.2
15 16	Rain Bird PESBR	Turf Spray Turf Rotor	1.08 ln/h 0.60 in/h	1.50 1.50	83 150	3,548 7,988	1,774 3,994
17	Rain Bird PESBR	Plant Bed Drip Turf Rotor	1.44 in/h 0.58 in/h	1 1.50	42 156	1,585 8,243	792.3 4,122
19 20	Rain Bird PESBR	Turf Rotor Turf Spray	0.72 ln/h 1.19 in/h	1.50 1.50	125 76	6,978 2,743	3,489 1,371
21 22	Rain Bird PESBR Rain Bird PESBR	Turf Rotor Turf Rotor	0.61 in/h 0.59 in/h	1.50 1.50	149 153	8,040 8,115	4,020 4,058
23 24	Rain Bird PESBR Rain Bird PESBR	Turf Rotor Turf Rotor	0.54 In/h 0.55 In/h	1.50 1.50	167 164	9,502 9,507 9,358	4,751 4,754
25 26	Rain Bird PESBR Rain Bird PESBR Rain Bird PESBR	Terf Rotor Turf Rotor	0.53 ln/h 0.56 ln/h 4.77 in/h	1.50 1.50 1	169 152 13	9,358 8,970 291.2	4,679 4,485 145.6
27 28 29	Rain Bird PESBR Rain Bird PESBR	Tree Bubbler Turf Rotor Turf Rotor	0.54 in/h 0.54 in/h	1.50 1.50	168 166	8,743 8,780	4,371 4,390
30 31	Rain Bird PESBR Rain Bird PESBR	Turf Rotor Turf Rotor	0.55 in/h 0.55 in/h	1.50	165 163	9,316 9,744	4,658 4,872
32 33	Rein Bird PESBR Rein Bird PESBR	Turf Rotor Turf Rotor	0.58 in/h 0.58 in/h	1.50 t.50	155 156	8,234 8,529	4,117 4,264
34 35	Rain Bird PESBR Rain Bird PESBR	Tree Bubbler Turf Rotor	4.77 in/h 0.58 in/h	1 1,50	13 155	491.4 7,026	245.7 3,513
36 37	Roin Bird PESBR Roin Bird PESBR	Turf Rotor Turf Rotor	0,59 in/h 0.58 in/h	1.50 1.50	153 155	6,088 8,581	3,044 4,290
38 39	Rain Bird PESBR Rain Bird PESBR	Turf Rotor Turf Rotor	0.58 in/h 0.59 in/h	1.50 1.50	155 154	6,313 6,108	4,156 3,054
40 41	Rain Bird PESBR Rain Bird PESBR Rain Bird PESBR	Turf Rotor Turf Rotor	0.57 in/h 0.56 in/h	1.50 1.50 1	160 161 13	6,445 6,670 345 R	3,222 3,335 172.9
42 43 44	Rain Bird PESBR Rain Bird PESBR Rain Bird PESBR	Tree Bubbler Turf Spray Turf Rotor	4.77 in/h 1.11 in/h 0.60 in/h	1 1,50 1,50	13 82 149	345.8 3,351 7,349	1,675 3,674
45 46	Rain Bird PESBR Rain Bird PESBR	Turf Rotor Turf Rotor	0.60 In/h 0.59 In/h 5,517	1.50 1.50 1.50 278,817	151 153 139,409	7,314 8,276	3,657 4,138
TOTALS:			5,517	276,817	139,409		
CRITIC	AL ANALYSI	S		DESIGN A			
P.O.C. NUM Water Sour	IBER: 01 ce Information:	RECLAIM PO	;	Maximum Flow Aya	Station Fla Table at PO Flow Avoilab	C;	66.27 gp: 77.03 gr 10.76 gpm
FLOW AVAI Water Mete		2"		Critical S Design	Station: Pressure:		35 35.00 psi
Flow Availa	ble:	77,03	gpm	Friction Fitting	n Loss: s Loss:		2.40 psi 0.24 psi
PRESSURE Static Pres Elevation (sure at POC:	65.00 psi 1.00 r	14	Loss thr	ion change: ough Valve: Rea at Cri	Heat Station	23.5 ft 3.70 psi 41.34 psi
Service Lin Length of	e Size: Service Line:	2" 10,00 ft		Loss for	Fittings:	tical Station:	0.23 psi 2.32 psi
Pressure A	vallable:	64.00 ps	ı	Loss for	POC to Val Backflow: Moster Valv		10.09 psi 0.00 psi 5.60 psi
				Loss for	Water Mete	r.	1.62 nsi

GENERAL NOTES

- I) REFER TO THE LANDSCAPE PLANS WHEN TRENCHING TO AVOID TREE AND SHRUB LOCATIONS,
- ALL MANLINE PIPING SHALL BE BURIED TO A MINIMM DEPTH OF 18' OF COVER AND ALL LATERAL PIPING SHALL BE BURIED TO A MINIMM DEPTH OF 12' OF COVER
- 3) ALL POP-UP ROTOR AND SPRAY HEADS SHALL BE INSTALLED USING AN IS' PYC. FLEX PIPE CONNECTION CONTRACTOR SHALL NOT USE FANNY PIPE.
- 4) PIPE SIZES SHALL CONFORM TO THOSE SHOWN ON THE DRAWNINGS. THE SMALLEST LATERAL PIPE SIZE TO A SINGLE SPRAY OR ROTOR HEAD SHALL BE 3/4".
- ALL REMOTE CONTROL VALVES, GATE VALVES AND QUICK COUPLERS SHALL BE INSTALLED IN VALVE BOXES.
- 6) THE EXACT HEIGHT OF ANY IZ POP-UP THAT IS SHOWN IN A SHRUB BED SHALL BE DETERMINED BY THE LANDSCAPE ARCHITECT IN THE FIELD.
- T) CONTROL WIRE SHALL BE 7-WIRE AS SPECIFIED FOR USE WITH RANBIRD LXD CONTROLLER BY MANUFACTURER NO CROSS CONNECTION BETWEEN CONTROLLERS SHALL BE ALLOUED. WIRE SPLICES SHALL, BE MADE ONLY IN YALVE BOXES USING RAINBIRD 'DDITR-6' CONNECTORS.
- 8) ANY PIPING OR VALVES SHOUN OUTSIDE THE PROPERTY LINE OR OUTSIDE OF A LANDSCAPE AREA IS SHOUN THERE FOR DESIGN CLARITY ONLY. ALL PIPING AND VALVES SHALL BE INSTALLED ON THE PROPERTY AND WITHIN LANDSCAPE AREAS.
- 9) IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE HIMSELF WITH, AND EXERCISE CARE SO AS TO NOT DAYLAGE ANY EXISTING BERTIS, WALLS, STRUCTURES, PLANT MATERIALS AND UTILITIES, THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR THE INYEDIATE REPAIR OR REPLACEMENT OF ALL TITHS DAYLAGED BY HIS WORK. HE SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS FOR THE LOCATION AND NOTALLATION OF SLEEVES AND PIPING THROUGH WALLS, WORK ROADWAYS AND PAYNA, ETC.
- NOTALLATION OF SLEEYES AND FIFTING THROUGH WALLS, WIDER POLADIMATS AND PAYING, ETC.

 DO NOT MILERLY, INSTALL THE SPENKLER SYSTEM AS SHOUN ON THE DRAIMASS WHAT IT IS OBVICUS IN THE FIELD THAT INFO/ON OBSTRUCTIONS, GRADE DIFFERENCES OR DIFFERENCES IN AREA DIFFERENCES SHOT THAT HIGHT NOT HAVE BEEN CANSIDERED IN THE BHASKEERING. SUCH OBSTRUCTIONS OR DIFFERENCES SHOULD BE BROAGHT TO THE ATTENTION OF THE CURRY'S AUTHORIZED REPRESENTATIVE. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE IRRIGATION CONTRACTOR SHALL ASSURE RILL RESPONSIBILITY FOR ANY REVISIONS.
- II) FINAL LOCATION OF THE AUTOMATIC CONTROLLER'S) SHALL BE APPROVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION.
- 12) ELECTRICAL SERVICE TO ALL EQUIPMENT SHALL BE PROVIDED TO A JANCTION BOX AT THE EQUIPMENT LOCATION (BY OTHERS, NOT A PART OF THIS CONTRACT) THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR THE FINAL CONNECTION FROM THE JANCTION BOX TO ALL POLITIFIED. TO ALL EQUIPMENT.
- B) THE IRRIGATION CONTRACTOR SHALL FLUSH AND ADJUST ALL SPRINKLER HEADS AND VALVES TO PROVIDE OPTIMIN COVERAGE WITH MINIMAL OVERSPRAY ONTO WALKS, STREETS, WALLS, ETC. IN ORDER TO ACCOMPLISH THIS, THE CONTRACTOR MAY SUBSTITUTE VARIABLE ARC NOZILES IN PLACE OF THE SPECIFIED FIXED ARC NOZILES WERE NECESSARY. PRESSURE COMPENSATING SCREENS MAY ALSO BE USED TO REDUCE SPRAY DISTANCE.
- 14) THE CONTRACTOR SHALL COMPLETE ALL WORK IN ACCORDANCE WITH ALL PREVAILING LAWS, CODES AND REGULATIONS.
- (5) ALL SPRINKLER EXIPMENT NOT OTHERWISE DETAILED OR SPECIFIED SHALL BE INSTALLED AS PER MANUFACTURER'S RECONTENDATIONS AND SPECIFICATIONS.
- (6) THE CONTRACTOR SHALL PREPARE AN AS-BUILT DRAWING ON A REPRODUCIBLE MYLAR SHOUNG ALL IRRIGATION INSTALLATION. A MYLAR OF THE ORIGINAL PLAN MAY BE OBTAINED FROM THE LANDSCAFE ARCHITECT FOR A FEE. THE AS-BUILT DRAWING SHALL LOCATE ALL MAINLINE AND VALVES BY SHOWN'S EXACT MEASUREMENTS FROM HARD SURFACES.
- II) ALL WORK SHALL BE GUARANTEED FOR ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE AGAINST ALL DEFECTS IN EQUIPMENT AND WORKHANSHIP.
- (B) SLEEVES SHALL BE PLACE UNDER PAVEMENT AS SHOUN ON PLANS AND SHALL BE A MINIMUM OF 2X THE SIZE OF THE IRRIGATION PIPE.
- (9) ALL SPRAY HEADS IN THE ROW SHALL BE EITHER 6' OR 12' POP-UP AS INDICATED ON THE PLANS, NO RISERS SHALL BE USED ON SITE PER OSCEOLA COUNTY CODE.
- (9) ALL EQUIPMENT SHALL BE PURPLE IN COLOR AS REQUIRED BY OSCEOLA COUNTY CODE INDICATING THE USE OF RECLAIM WATER FOR THE IRRIGATION SYSTEM.
- 20) CONTRACTOR SHALL PERFORM PRESSURE AND VOLUME TEST ON IRRIGATION WATER SOURCE OVER A CONTINUOUS 24 HOUR PERIOD PRIOR TO THE CONSTRUCTION WORK SHOULD THE AVAILABLE SUPPLY NOT BE ADEQUATE TO MEET THE DETAMPS OF THE IRRIGATION STORMED AS DESIGNED THE CONTRACTOR SHALL CONTACT THE LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION FOR DESIGN MODIFICATIONS.
- IN THE EVENT THAT A WELL IS USED AS THE WATER SOURCE FOR THE IRRISATION SYSTEM, THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING WATER SAFFLES FROM THE WELL. AT THE LANDSCAPE CONTRACTOR'S EXPENSE, HE SHALL HAVE A CERTIFIED LAS AVALTZE THE WATER CAULTY. THE LANDSCAPE CONTRACTOR SHALL REPORT TO THE LANDSCAPE ARCHITECT OR OWNERS PROJECT MANAGER, ANY POTENTIAL ISSUES THAT MAY AFFECT THE HEALTH OF THE PLANT MATERIAL OR POTENTIAL STANNING TO SIDEWALKS AND BUILDINGS. REPORTING SHALL COLUR BEFORE THE SYSTEM IS NO PERATION. FAILURE TO REPORT SHALL PLACE LIABILITY ON THE LANDSCAPE CONTRACTOR.



& ASSOCIATES

120 West Robinson Street Orlando, Florida 32801-1617 Phone (407) 648-2225 www.fosterconant.com

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VISTA RESERVE

CITY OF APOPKA, FL.

IRRIGATION NOTES & DETAILS

Ø4/Ø5/18 AS SHOWN District MJ Parket RRC SAMALP3Ø5DIIG

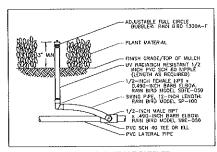
I CERTIFY THAT THE LANDSCAPE AND IRRIGATION DESIGN FOR THIS PROJECT IS IN ACCORDANCE WITH THE CITY OF APOPKA'S ORDINANCE 2069 ADOPTED MAY 21, 2008 WHICH ESTABLISHES WATERWISE LANDSCAPE AND IRRIGATION STANDARDS.

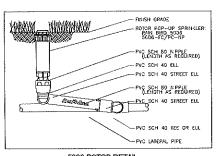
236

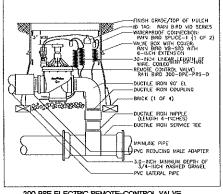
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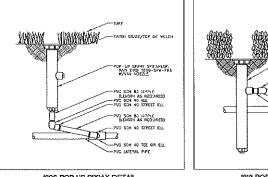
DATE

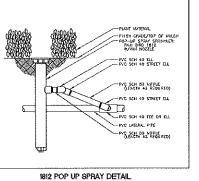
REG. NO.









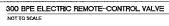


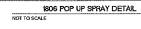
& ASSOCIATES

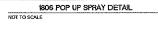
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5006 ROTOR DETAIL

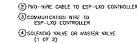












TWO-WIRE DECODER CONTROLLER:

- (5) SOLENCID WIRE (1 OF 4)
- (6) DB SERIES WIRE CONNECTOR: RAIN BRD DBTWC25 (1 DF 6)

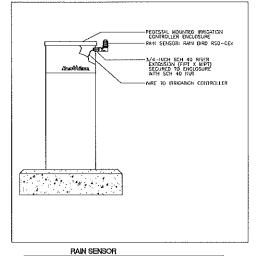
NOT TO SCALE

- THELD DECODER:
 RAIN 8 RD FD-202TURF M13005 DECODE (8) COMMUNICATION WIRE TO NEXT DEWCE (FIELD DECODER, SENSOR DECODER OR LINE SURGE PROTECTOR)
- (9) TWO-W.RE CABLE TO NEXT DEVICE (FIELD DECODER, SENSOR DECODER OR LINE SURGE PROTECTOR)



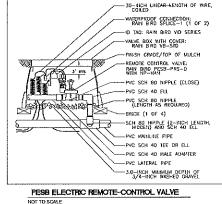
FD-202TURF DECODER

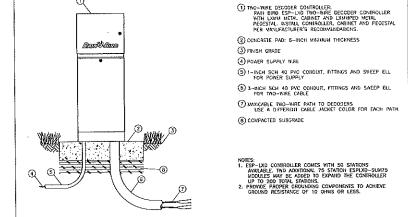
WIRING TO VALVE AND CONTROLLER



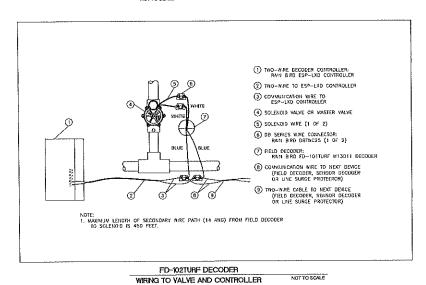
NOT TO SCALE

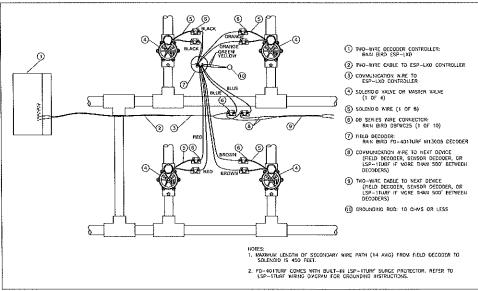
RSD-CEX PEDESTAL MOUNT





ESP-LXD TWO-WIRE DECODER CONTROLLER NOT TO SCALE PEDESTAL MOUNTED





(4) 5/8-UCH X 10 FT COPPER CLAP
ORDUNDNO ROD DR GROUNDING PLAIE
INSTALL RODS IN SOUL IN A THEOULAR
PATTERN SPACED A MIMINUT OF 16 FT
APART FROM EACH OTHER, ORGUNION
GRO TO HAVE A RESISTANCE OF TEN
(10) OPMS OR LESS (5) BARE COPPER WIRE (\$6 AWO MIN.) BETWEEN GROUNDING RED AND GROUNDING PLATE (6) GROUND ROD CLAMP OR NELDS (7) COPPER GROUNDING PLATE (IF REQUIRED) (9) FINISH GRADE

YANGA MARADA MARA

NOT TO SCALE

VISTA RESERVE

CITY OF APOPKA, FL

IRRICATION DETAILS

Ø4/Ø5/18 AS SHOWN Drawn MJ Drestant RRC FE SAMALP306DWG

FD-40ffURF DECODER WIRING TO VALVE AND CONTROLLER

CONTROLLER GROUNDING GRID GROUNDING PLATE DESIGN LAYOUT

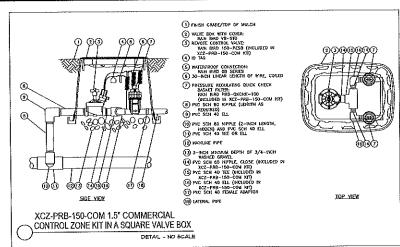
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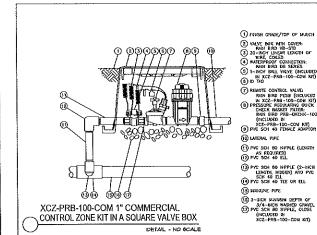
TAIN BIRD CONTROLLER

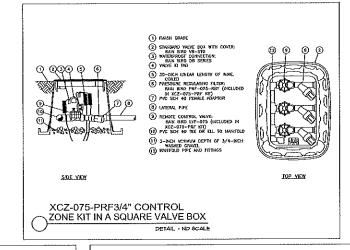
(3) COVER GROUNDING ROO WITH 10-INCH ROUND VALVE BOX AS SHOWN

I CERTIFY THAT THE LANDSCAPE AND IRRIGATION DESIGN FOR THIS PROJECT IS IN ACCORDANCE WITH THE CITY OF APOPKA'S ORDINANCE 2069 ADOPTED MAY 21, 2008 WHICH ESTABLISHES WATERWISE LANDSCAPE AND IRRIGATION STANDARDS.

NOT TO SCALE

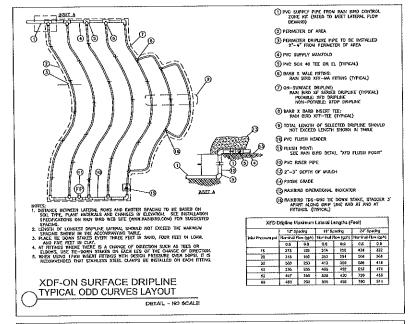








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(1)PVC EXHAUST HEADER

2)PVC SCH 40 TEE OR EL (TYPICAL)

(S) BURB X MALE FITTING:

PROM BERD XFF-MA FITTING (TYPICAL)

SEE RAN BERD DEFAL "XFO FLUSH POINT"

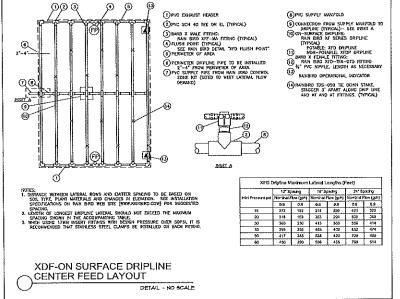
(S) PERMITTER OF AREA

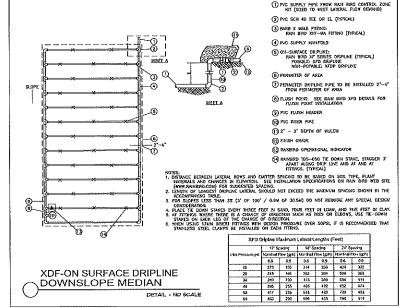
(a) PERMITER REPLIES FIFE TO BE INSTALLED 2"-4" FROM PERMITER OF AREA 100 - 10

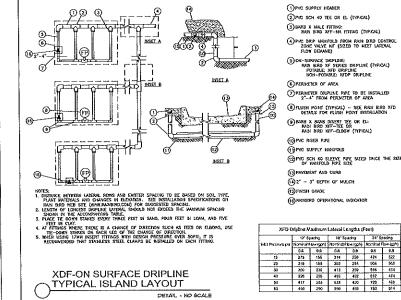
(I) PIC DRIP MUNITULD FROM PAIN BIRD CONTROL ZONE VALVE KIT (SIZED TO WEET LATERAL FLOM DEWARD) (II) PICE SCH 40 RESER PUPE

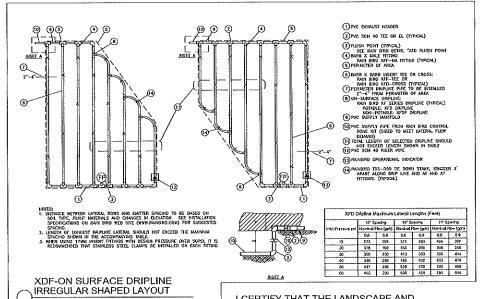
(1) RAINBORD OPERATIONAL INDICATOR

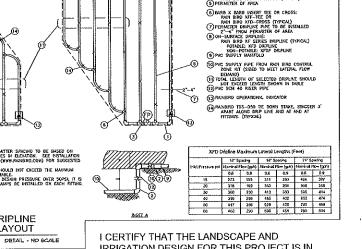
XED Orlogne Maximum Lateral Lengths (Feet)











IRRIGATION DESIGN FOR THIS PROJECT IS IN ACCORDANCE WITH THE CITY OF APOPKA'S ORDINANCE 2069 ADOPTED MAY 21, 2008 WHICH ESTABLISHES WATERWISE LANDSCAPE AND IRRIGATION STANDARDS.

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MOTES:

1. DISTANCE BETWEEN LATERAL ROAS AND ENTITER SPACING TO BE RASED ON SOIL TYPE, PLANT WATERALS AND CHANGES IN ELEVATION. SEE INSTALLATION SPECIFICATIONS ON RAIN BRO WEB SITE (MARKAR-BROCOM) FOR SUGGESTEE

XDF-ON SURFACE DRIPLINE

TYPICAL END FEED LAYOUT

OF LONGEST DRIPLING LATERAL SHOULD NOT EXCELD THE MAXIMUM E SHOWN IN THE ACCOMPANISHO TABLE.
SING THAN INSERT HITHOUS WITH DESIGN PRESSURE OVER SOPSI, IT IS SUPPLYED THAT STANKES SHELL CLAMPS BE SHITALLED ON EACH FITTING.

DETAIL - NO SCALE

REG. NO. SIGNATURE

DATE

LP-307

VISTA RESERVE

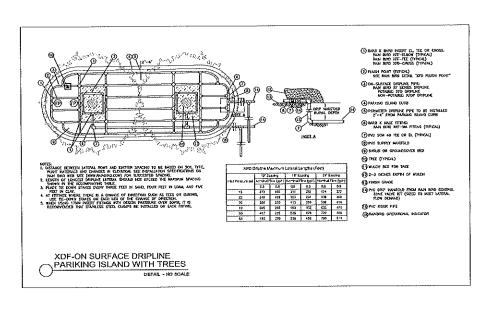
CITY OF APOPKA, FL

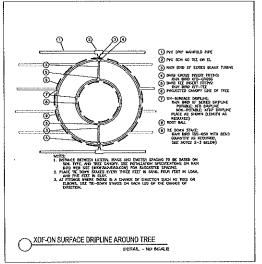
Ø4/Ø5/18

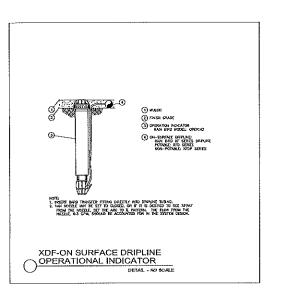
ДБ ЭНОЦИ DOWN MJ Overhal RRC FAMALP3Ø1DILG

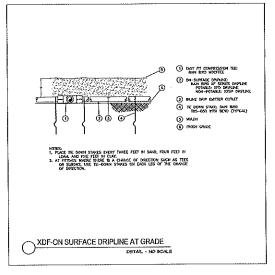
IRRIGATION

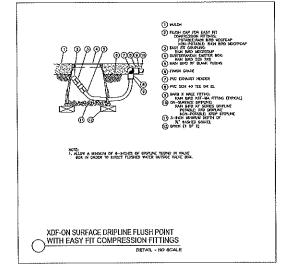
DETAILS













120 West Robinson Street Orlando, Florida 32801-1617 Phone (407) 648-2225 www.fosterconant.com

A Portion
MANAGEMENT

VISTA RESERVE

CITY OF APOPKA, FL.

IRRIGATION

Ø4/Ø5/18 АЗ БНОШМ

brack MJ Overland RRC THE SAMALP3Ø8DUG

I CERTIFY THAT THE LANDSCAPE AND IRRIGATION DESIGN FOR THIS PROJECT IS IN ACCORDANCE WITH THE CITY OF APOPKA'S ORDINANCE 2069 ADOPTED MAY 21, 2008 WHICH ESTABLISHES WATERWISE LANDSCAPE

SIGNATURE

AND IRRIGATION STANDARDS.

REG. NO. DATE

VISTA RESERVE

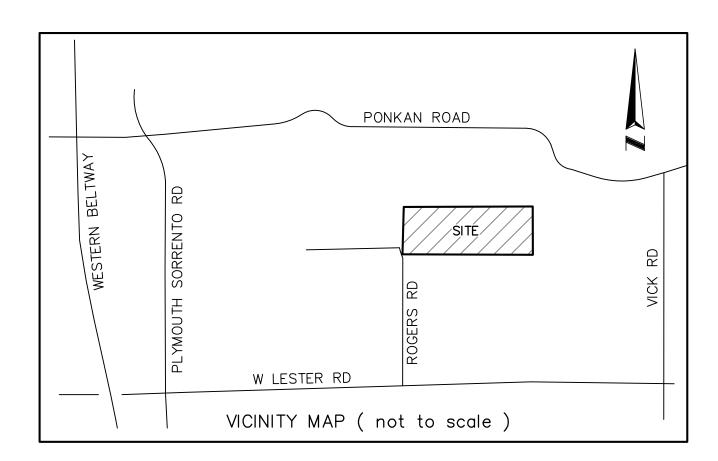
A PARCEL OF LAND LYING IN THE SOUTH 3/4 OF THE SOUTH 1/2 OF THE NORTHWEST 1/4 OF SECTION 29, TOWNSHIP 20 SOUTH, RANGE 28 EAST, CITY OF APOPKA, ORANGE COUNTY, FLORIDA

LEGAL DESCRIPTION:

THE SOUTH THREE QUARTERS OF THE SOUTH HALF OF THE NORTHWEST QUARTER OF SECTION 29, TOWNSHIP 20 SOUTH, RANGE 28 EAST, ORANGE COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGIN AT THE SOUTHWEST CORNER OF THE NORTHWEST QUARTER OF SECTION 29, TOWNSHIP 20 SOUTH, RANGE 28 EAST, ORANGE COUNTY, FLORIDA; THENCE RUN NORTH 01°11'19" EAST ALONG THE WEST LINE OF SAID NORTHWEST QUARTER ALSO BEING THE EAST RIGHT—OF—WAY LINE OF ROGERS ROAD ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 77, PAGES 148—149 OF THE OFFICIAL RECORDS OF ORANGE COUNTY, FLORIDA, FOR A DISTANCE OF 984.97 FEET TO THE NORTHWEST CORNER OF THE SOUTH THREE QUARTERS OF THE SOUTH HALF OF SAID NORTHWEST QUARTER; THENCE RUN N89°48'58"E ALONG THE NORTH LINE OF SAID SOUTH THREE QUARTERS; THENCE RUN S00°22'32"W ALONG THE EAST LINE OF SAID NORTHWEST QUARTER FOR A DISTANCE OF 989.15 FEET TO THE SOUTHEAST CORNER OF SAID NORTHWEST QUARTER; THENCE RUN S89°54'35"W ALONG THE SOUTH LINE OF SAID NORTHWEST QUARTER FOR A DISTANCE OF 2703.58 FEET TO THE SOUTHWEST CORNER THEREOF, AND THE POINT OF BEGINNING.

THE DESCRIBED PARCEL ALL LYING IN ORANGE COUNTY, FLORIDA CONTAINING 2,661,310 SQUARE FEET (61.1 ACRES), MORE OR LESS.



SHEET INDEX

SHEET 1 of 4 — legal description, Surveyor's notes, legend & dedication

LEGEND:

denotes licensed business

SHEET 2 OF 4 - boundary information

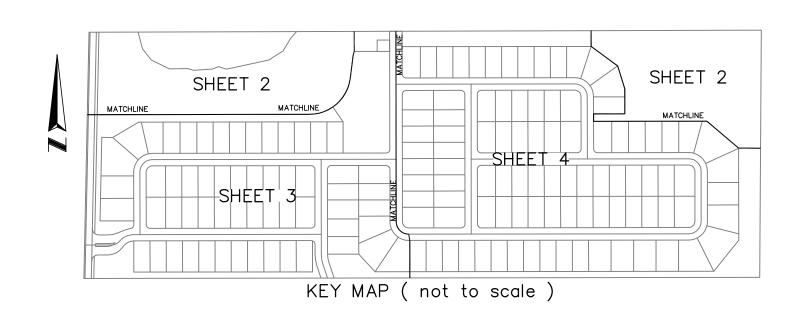
3 through 4 of 4 — geometry

Building setback information according to engineers plans prepared by Madden, Moorhead & Stokes, Inc.

Front Primary	25.00'
Rear Primary	20.00'
Natural Surface waterbody or wetland	edge50.00'
	Front Primary Entry Garage Side Rear Primary Corner Side Natural Surface waterbody or wetland

SURVEYOR'S NOTES:

- 1. Bearings shown hereon are assumed and based on the South line of the Northwest Quarter of Section 29, Township 20 South, Range 28 East being an assumed bearing of South 89°54'35" West for angular designation only.
- 2. All lot lines intersecting curves are radial, unless otherwise noted non-radial (N.R.).
- 3. All platted utility easements shall also be easements for the construction, installation, maintenance, and operation of cable television and data services; provided, however, no such construction, installation, maintenance, and operation of cable television services shall interfere with the facilities and services of an electric, telephone, gas, or other public utility. In the event a cable television company damages the facilities of a public utility, it shall be solely responsible for the damages. This section shall not apply to those private easements granted to or obtained by a particular electric, telephone, gas, or other public utility. Such construction, installation, maintenance, and operation shall comply with the National Electrical Safety Code as adopted by the Florida Public Service Commission.
- 4. Tracts OS-1, OS-2, OS-3, OS-4 (Open Space), R-1 (Recreation Tract), Tracts B-1, B-2 (Buffer), Tract M-1 (Median), and Tracts P-1, P-2 (Stormwater Pond) shall be owned and maintained by the VISTA RESERVE Homeowners Association, Inc. (the Association).
- 5. Tract FC-1 (Floodplain Conservation), shall be owned by the Association with development rights dedicated to the City of Apopka. No soil excavation, fill, or removal within the conservation shall be permitted. The removal of vegetation within the conservation is prohibited unless approval from the City of Apopka or any other applicable jurisdictional agency is granted to remove dead or damaged vegetation that poses a hazard or approval is granted to remove exotic or nuisance vegetation.
- 6. This plat contains 153 Lots.
- 7. The street tree easements, wall access easements, and drainage easements shown hereon shall be dedicated to and maintained by the Association.
- 8. A utility easement is hereby dedicated to the perpetual use of the public over the entirety of Tracts B-1 and B-2 (Buffer).
- 9. The Floodplain Conservation line shown hereon was established by the Federal Emergency Management Association, utilizing the Base Flood Zone Elevation (B.F.E.) for Zone AE as being an elevation of 62.60', North American Vertical Datum of 1988 (NAVD 88). The elevation used to establish the B.F.E. is based on the St. Johns River Water Management District Benchmark #98-079-0-03, box cut in headwall at end of cul-de-sac on Championship Court, Elevation 59.619' (NAVD 88).



NOTICE: THIS PLAT, AS RECORDED IN ITS GRAPHIC FORM, IS THE OFFICIAL DEPICTION OF THE SUBDIVIDED LANDS DESCRIBED HEREIN AND WILL IN NO CIRCUMSTANCES BE SUPPLANTED IN AUTHORITY BY ANY OTHER GRAPHIC OR DIGITAL FORM OF THE PLAT. THERE MAY BE ADDITIONAL RESTRICTIONS THAT ARE NOT RECORDED ON THIS PLAT THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY.

CERTIFICATE OF REVIEW BY REVIEWING SURVEYOR

Pursuant to Section 177.081, Florida Statutes, I have reviewed this plat for conformity to Chapter 177 Part 1 of the Florida Statutes and that said plat complies with the technical requirements of that chapter; provided however, that my review does not include field verification of any of the coordinates, points or measurements shown on this plat.

Signed: _____ Date _____

Printed Name: Timothy O. Mosby, PSM

Registration Number 4732 Southeastern Surveying and Mapping Corp

QUALIFICATION STATEMENT OF SURVEYOR AND MAPPER

KNOW ALL MEN BY THESE PRESENTS, that I the undersigned, being a licensed surveyor and mapper, do hereby certify that on April 13, 2016 I completed the survey of the lands as shown in the foregoing plat or plan: that said plat is a true and correct representation of the lands surveyed and platted and was prepared under my direction and supervision; that permanent reference monuments have been placed as shown thereon; and this plat complies with all the survey requirements of Chapter 177, Florida Statutes; and that said land is located in the City of Apopka, Orange County, Florida.

Ву:	Date:	
James L. Rickman P. & Company Licensed	Business #	6723
16 East Plant Street	, Winter Gard	len,
Florida 34787		

PLAT BOOK____ PAGE___

VISTA RESERVE D E D I C A T I O N

THIS is to certify that the undersigned, Pulte Home Corporation, a Michigan Corporation, hereafter referred to as "Owner" is the lawful owner of the lands described in the caption hereon, and that it has caused the same to be surveyed, and this plat, made in accordance with said survey, is hereby adopted as the true and correct plat of said lands.

The Owner hereby dedicates Tract ROW-1 (Additional Right-of-Way Dedication), Streets, and Utility easements to the perpetual use of the public.

Tract LS-1 (Lift Station) is hereby dedicated in fee simple to the City of Apopka without any restriction whatsoever. City ownership of said Tracts and any improvements thereon vests upon approval of the Plat by the Apopka Planning Commission and City Council of Apopka. Recording of this Plat shall act as conveyance to the City of Apopka and no further instrument shall be necessary to vest fee simple title.

uthorized o	n this	day of_		2018.
TNESSES:			PULTE HOME CORPORATION Michigan Corporation	N, a
		_	Ву:	

- Title	

Printed Name of Witness	(CORPORATE SEAL)
-------------------------	------------------

STATE OF FLORIDA COUNTY OF

Printed Name of Witness



Printed name

I HEREBY CERTIFY, that on this day, before me personally appeared ______, as ______ of PULTE HOME CORPORATION, a Michigan Corporation who is () personally known to me or () produced ______ as identification, and did/did not take an oath, the individual and officer described in and who executed the foregoing conveyance and acknowledged the execution thereof to be his free act and deed as such officer thereunto duly authorized.

WITNESS 2018.	my	hand	and	official	seal	this	 day	of

Printed	Name	of	Notary	Public	_

Notary Public state of Florida

Signature of Notary Public

My Commission Expires:____

Commission Number:	
--------------------	--

CERTIFICATE OF APPROVAL BY APOPKA PLANNING COMMISSION

Examined and Approved _____

 Chairman	Date

CERTIFICATE OF APPROVAL BY CITY ENGINEER

Examined and			
Approved			
	Richard	Earp	Date

CERTIFICATE OF APPROVAL BY MUNICIPALITY

THIS IS TO CERTIFY, that on ______ the foregoing plat was approved by the Municipality.

Mayor

Attest:
City Clerk

CERTIFICATE OF COUNTY COMPTROLLER

I HEREBY CERTIFY, that the foregoing plat was recorded in the Orange County Official Records

on_____ as File No.____

County Comptroller in and for Orange County, Florida.



16 EAST PLANT STREET WINTER GARDEN, FLORIDA 34787 (407) 654-5355

U.E.	denotes utility easement	
R/W	denotes right—of—way	
•	denotes change in direction along right—of—way lines	
C.C.R. #	denotes Certified Corner Record Number	
N.R.	denotes non-radial (see note 2)	F
•	denotes set 4" x 4" concrete monument LB 6723 permanent reference monument (PRM)	
•	denotes recovered 4" x 4" concrete monument permanent reference monument (PRM)	
0	denotes recovered monumentation as labeled	
D.E.	denotes drainage easement	
W.A.E.	denotes wall access easement	
CR	denotes County Road	Р
ORB	denotes Official Records of Orange County, Florida	Р
P.R.C.	denotes point of reverse curvature	f
B.B.	denotes basis of bearing	f

P.C.	denotes	point of curvature
P.T.	denotes	point of tangency
P.I.	denotes	point of intersection
P.B.	denotes	Plat Book
R.P.	denotes	
R	denotes	radius
Δ	denotes	central angle
L	denotes	arc length
CHD	denotes	chord length
CHB	denotes	chord bearing
P.C.C.	denotes	point of compound curvature
P.S.M.	denotes	Professional Surveyor and Mapper
ROW	denotes	right-of-way
	denotes	area of W.A.E and U.E.

denotes street tree easement

denotes set nail & disk LB 6723

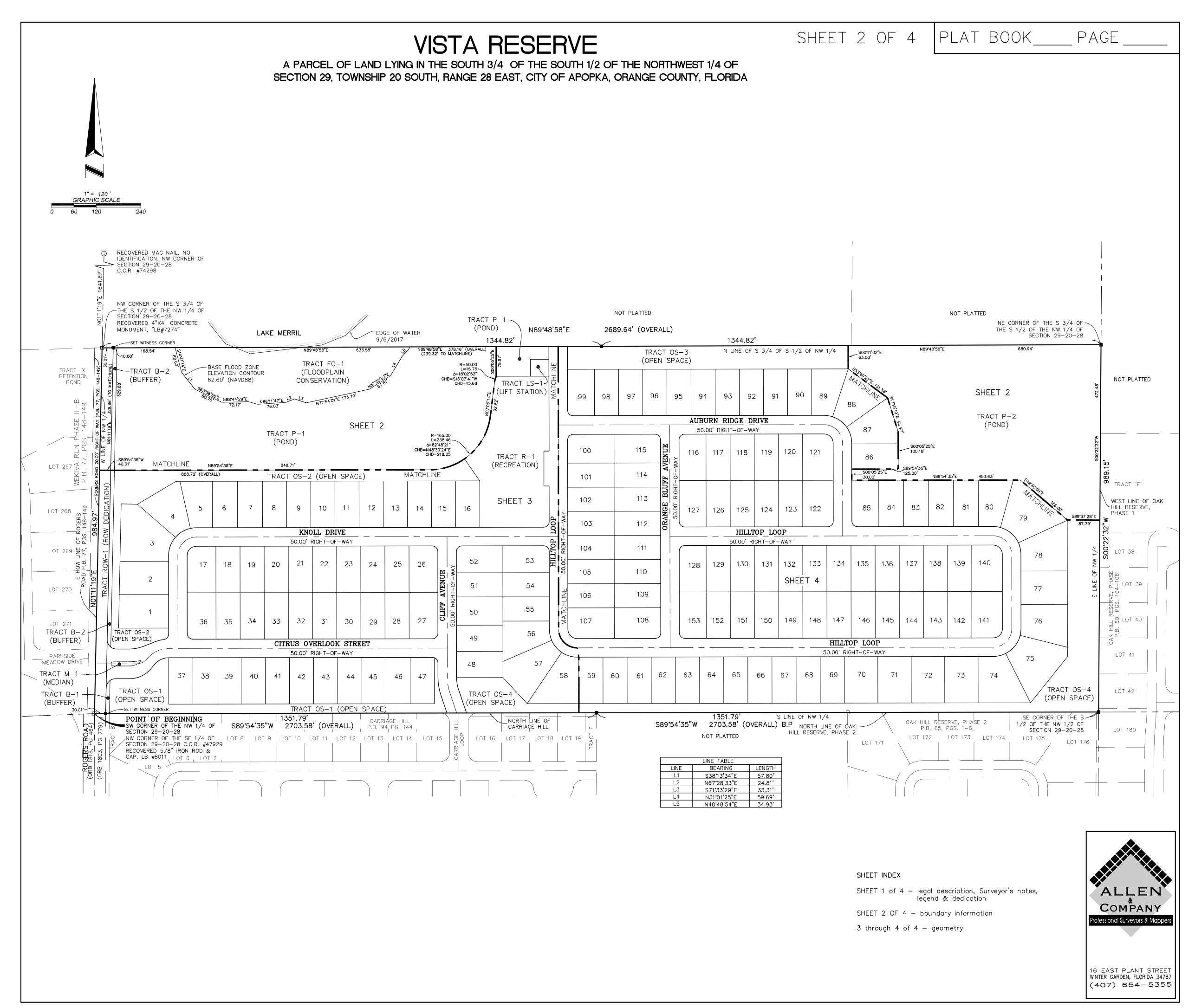
denotes Official Records of Orange County, Florida

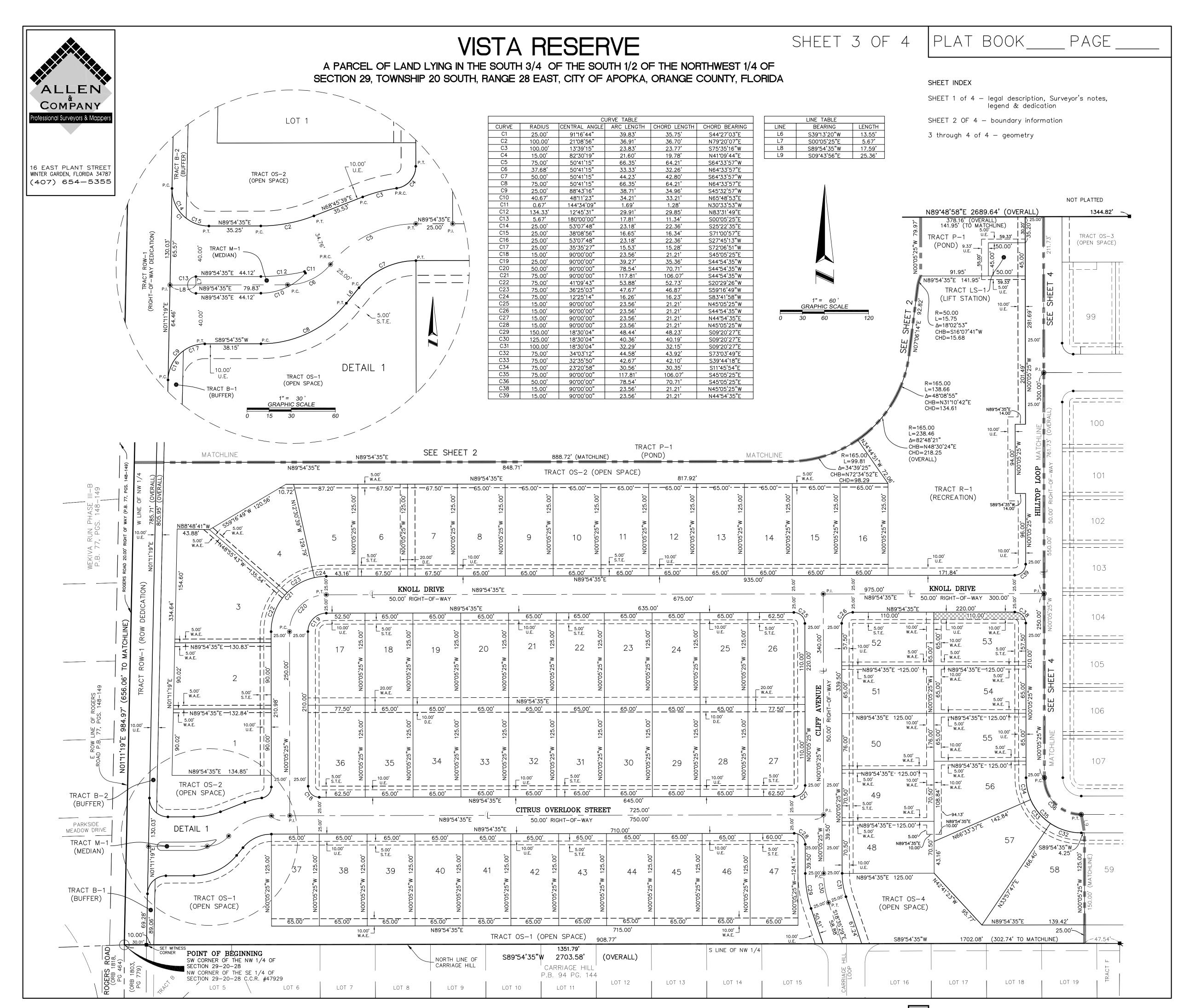
permanent control point (PCP)

denotes non tangent

denotes centerline

denotes page(s)





	VISTA RESERVE	SHEET 4 OF 4	PLAT BOOKPAGE
ALLEN COMPANY Professional Surveyors & Mappers	A PARCEL OF LAND LYING IN THE SOUTH 3/4 OF THE SOUTH 1/2 OF THE NORTHWE SECTION 29, TOWNSHIP 20 SOUTH, RANGE 28 EAST, CITY OF APOPKA, ORANGE COUNT		SHEET 1 of 4 — legal description, Surveyor's notes, legend & dedication SHEET 2 OF 4 — boundary information 3 through 4 of 4 — geometry
16 EAST PLANT STREET WINTER GARDEN, FLORIDA 34787 (407) 654—5355 NOT PLATTED 1344.82'	N89°48′58″E 2689.64′ (OVERALL) 1344.82′ 755.69′ N LINE OF S 3/4 OF S 1/2 OF NW 1/4	BEARING LENGTH CURVE RADIUS CENTRAL ANGLE	CURVE TABLE ARC LENGTH CHORD LENGTH CHORD BEARING 78.54' 70.71' \$45*05'25"E 39.27' 35.36' \$45*05'25"E 23.56' 21.21' \$44*54'35"W 23.56' 21.21' \$45*05'25"E 23.56' 21.21' \$44*54'35"W
HS HS 10.00'	TRACT OS-3 (OPEN SPACE) S89'54'35"W 755.79' 65.00' 65.00' 98.29' 96.50' 98.29' 96.50' 98.29' 97.50' 98.29'	C47	23.56' 21.21' \$45.05'25"E 39.27' 35.36' \$N45.05'25"W 78.54' 70.71' \$N45.05'25"W 23.84' 23.74' \$N80.59'10"W 47.67' 46.87' \$N53.40'22"W 46.30' 45.57' \$N17.46'38"W 117.81' 106.07' \$N45.05'25"W 23.56' 21.21' \$N44.54'35"E 23.56' 21.21' \$45.05'25"E 39.27' 35.36' \$N45.05'25"W 78.54' 70.71' \$N45.05'25"W 117.81' 106.07' \$N45.05'25"W 39.27' 35.36' \$N44.54'35"E 78.54' 70.71' \$N44.54'35"E 117.81' 106.07' \$N44.54'35"E 117.81' 106.07' \$N44.54'35"E 34.86' 34.54' \$N76'35'44"E 64.36' 62.40' \$N38'41'56"E 18.60' 18.55' \$N07'00'46"E 20.14' 20.08' \$N82'23'49"W 65.54' 63.47' \$N49'40'09"W
N89'54'35"E 220.00' N89'54'35"E 220.00' N89'54'35"E 220.00' N89'54'35"E 220.00' N89'54'35"E 220.00' N89'54'35"E 10.00' N89'54'35"E 1	87 15.00' 10	C67 75.00' 24'32'39" 7	0 15 30 60 0 15 30 60 0 15 30 60
V.A.E. W.A.E.	25.00' 25	84 % 83 % 82 % 81 % 80 5.00' S.T.E. 67.00' 67.00' 67.00' 67.00' 67.00' 39.50' N89'54'35"E 365.00' 870.00' 870.00' 870.00' 870.00' 870.00' 870.00' 870.00' 870.00'	5.00' S.T.E. 79 S00'05'25"E S89'37'28"E 1.04 87.79'
10.00° 10.00°		M	200.00' (200.00') (200.00'
109 1000' 10.00	72.50' 65.00'	25"E 125.00' 25"E 125.00' 25"E 125.00' 25"E 125.00'	SS S.T.E.
57 P.T. & S89'54'35"W 250.00' N00.02525"W 125.00' ST.E. 000' S27 00.00N N00.0525	NB9*54'35"E S89*54'35"E S89*54'35"E S89*54'35"E S89*54'35"E S89*54'35"E S89*54'35"E S89*54'35"E S89*54'35"E S89*54'35"W S89*54'35"E S89*54'35"W	50.00' RIGHT-OF-WAY 90.00' 90.00' 90.00' 40.75' 10.00' U.E. 71 72 73 73 55.00' S.T.E. 72 73 8.50' S.T.E. 90.00' 90.00' 90.00' 90.00'	74 75 TRACT OS-4 (OPEN SPACE) LOT 42
25.00' -47.54'	S89*54*35 E S89*54*35"W S LINE OF NW 1/4 S89*54*35"W NORTH LIN HILL RESERVE, LOT	DAK HILL RESERVE, PHASE 2 OAK HILL RESERVE, PHASE P.B. 65, PGS. 1-6	SECTION 29-20-28



CITY OF APOPKA CITY COUNCIL

CONSENT AGENA MEETING OF: October 3, 2018

PUBLIC HEARING FROM: Community Development SPECIAL REPORTS EXHIBITS: Ordinance No. 2679

X OTHER: Ordinance Appendix 7-1 – CIE – Five-Year CIP

SUBJECT: ORDINANCE NO. 2679 - AMENDMENT TO THE CITY'S FIVE-YEAR CAPITAL

IMPROVEMENTS PLAN TO ADD RECREATION IMPROVEMENTS, AND INCORPORATING INTO THE CITY OF APOPKA, COMPREHENSIVE PLAN,

CAPITAL IMPROVEMENTS ELEMENT.

REQUEST: ORDINANCE NO. 2679 – SECOND READING -- AMENDMENT TO THE CITY OF

APOPKA, FIVE-YEAR CAPITAL IMPROVEMENTS PLAN AND INCORPORATE INTO THE CITY OF APOPKA COMPREHENSIVE PLAN, CAPITAL

IMPROVEMENT ELEMENT

SUMMARY:

The City desires to conduct recreation improvements at Kit Land Nelson Park and at Northwest Recreation Complex to accommodate a need for additional and improved playground equipment and facilities for youth. To fund these recreation improvements, the City proposes to apply for available grant funds sponsored by the Florida Department of Environmental Project.

Eligibility requirements for thee grant program require that the proposed recreation improvement must be recognized within the City's capital improvement program (CIP) established in the Comprehensive Plan. Further, the City must proceed expeditiously at this time to meet grant application deadlines. Hence, the proposed update to the five-year CIP of the Comprehensive Plan at this time only addresses the new recreation improvements at Kit Land Nelson Park and at Northwest Recreation Complex.

After the Fiscal year 2018-19 budget has been approved by City Council, staff will conduct an annual update of the five-year CIP to address necessary to meet accepted levels of service (LOS), to maintain and repair failing facilities, and to provide additional infrastructure facilities and roads to meet demands generated by new growth and development. Typically, the five-year CIP within the Comprehensive Plan addresses the infrastructure needs related to transportation, water, sewer, reclaimed water, stormwater management, and recreation.

Exhibit 'A' of this report includes the updated CIP to be incorporated as Appendix 7-1 of the Capital Improvements Element. The proposed CIP changes (additions) are included in the 'General Fund' and 'FDEP Grant Fund' sections of the Recreation CIP (shown in Exhibit 'A'). Funds appearing in the 'General Fun' serve as the local government match requirement per the conditions of the FDEP grant program.

Legislative changes in 2011 to Chapter 163, Florida Statues allow local governments to update their five-year CIP by ordinance, and is not considered a comprehensive plan policy amendment. Therefore, incorporation of the updated CIP into the Capital Improvements Element does not require transmittal to the Florida Department of Economic Opportunity for state agency review.

FUNDING SOURCE: N/A

DISTRIBUTION

Mayor NelsonFinance DirectorPublic Services DirectorCommissionersHR DirectorRecreation DirectorCity AdministratorIT DirectorCity ClerkCommunity Development DirectorPolice ChiefFire Chief

CITY COUNCIL – OCTOBER 3, 2018 UPDATE TO THE FIVE-YEAR CAPITAL IMPROVEMENTS PLAN PAGE 2

PUBLIC HEARING SCHEDULE:

September 11, 2018 – Planning Commission (5:30 pm) September 19, 2018 – City Council 1st Reading (7:00 pm) October 3, 2018 – City Council 2nd Reading (1:30 pm)

DULY ADVERTISED:

August 31, 2018 – Public Hearing Notice September 22, 2018 – Public Hearing Notice

RECOMMENDATION ACTION:

The **Development Review Committee** recommends approval of the update of the City of Apopka Five-Year Capital Improvements Plan to be incorporated into the Apopka Comprehensive Plan – Capital Improvements Element.

The **Planning Commission**, at its meeting on September 11, 2018, found the proposed amendment of the Apopka Five-Year Capital Improvements Plan consistent with the Apopka Comprehensive Plan; and unanimously recommended approval of the Five-Year Capital Improvements Plan amendment and the incorporation into the Capital Improvements Element of the Comprehensive Plan.

The **City Council**, at its meeting on September 19, 2018, accepted the First Reading of Ordinance No. 2679 and held it over for Second Reading and Adoption October 3, 2018.

Adopt Ordinance No. 2679.

Note: This item is considered legislative and establishes general policy. The staff report and its findings are to be incorporated into and made a part of the minutes of this meeting.

ORDINANCE NO. 2679

AN ORDINANCE OF THE CITY OF APOPKA, FLORIDA, AMENDING THE CAPITAL IMPROVEMENTS ELEMENT OF THE APOPKA COMPREHENSIVE PLAN OF THE CITY OF APOPKA; INCORPORATING AN AMENDMENT TO THE CITY'S FIVE YEAR CAPITAL IMPROVEMENTS PLAN; PROVIDING FOR SEVERABILITY; AND PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, the City Council of the City of Apopka, Florida, on October 2, 1991 adopted Ordinance No. 653 which adopted the Comprehensive Plan for the City of Apopka; and

WHEREAS, the City of Apopka has subsequently amended the Comprehensive Plan for the City of Apopka, most recently through Ordinance No. 2617; and

WHEREAS, the City of Apopka's Local Planning Agency and the City Council have conducted the prerequisite advertised public hearings, as per Chapter 163, Florida Statutes, relative to the adoption of this ordinance and the requirements for amendment to the Comprehensive Plan.

NOW, THEREFORE, BE IT ORDAINED by the City Council of the City of Apopka, Florida, as follows:

SECTION I: The City of Apopka hereby amends the Capital Improvements Element of the adopted Comprehensive Plan as follows:

The Capital Improvements Element is hereby amended to incorporate annual updates to the Five Year Capital Improvements plan and replaced in its entirety by Exhibit "A" of this Ordinance, and incorporated herein by reference.

SECTION II: If any section or portion of a section or subsection of this Ordinance proves to be invalid, unlawful, or unconstitutional, it shall not be held to invalidate or impair the validity, force, or effect of any other section or portion of a section or subsection or part of this ordinance.

SECTION III: That all ordinances or parts of ordinances in conflict herewith are hereby repealed.

SECTION IV: This Ordinance shall become effective upon adoption.

ORDINANCE NO. 2679 PAGE 2

ADOPTED	at a regular	meeting	of the City	Council	of the	City o	of Apopka,	Florida,	this
3rd day of October,	2018.								

	READ FIRST TIME:	September 19, 2018
	READ SECOND TIME AND ADOPTED:	October 3, 2018
	Bryan Nelson, Mayor	
ATTEST:		
Linda Goff, City Clerk		
DULY ADVERTISED FOR PUBLIC HEARING:	August 31, 2018; Septer	mber 21, 2018

			POSED CHANGES - L		VIS - RECREATION	-		
Comprehensive Plan Element/Project	Source of Funding	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	FY 21-22	Totals
Concession, bathrooms, building and sidewalks at NWRC			\$300,000			\$0		\$300,000
Parking Lot-NWRC Little League Fields			\$510,000			\$0		\$510,000
Picnic Pavilions			\$100,000		\$100,000	\$0	\$100,000	\$300,000
NWRC Ball Field Renovations		\$23,900	\$50,000	\$50,000	\$50,000	\$0		\$173,900
Fitness Equipment for Kit Land Nelson Park (with grant)						\$0		\$23,900
Bleacher Covers Over Quad 3			\$60,000			\$0		\$60,000
Tennis Court Resurfacing – NWRC					\$50,000	\$0		\$50,000
Basketball Resurfacing – NWRC	General Fund				\$50,000	\$0		\$50,000
Lk. Ave. Park – Playground, Pavilion, Shade Structure	General Fund			\$350,000		\$0		\$350,000
Old Little League Fields New Park					\$200,000	\$0		\$200,000
NWRC Scoreboards for (1) Quad			\$30,000	\$30,000		\$0		\$60,000
New ball fields (Baseball, soccer, etc.)				\$2,200,000		\$0		\$2,200,000
Alonzo Williams Park Improvements (Contingent upon CDBG grant award)			\$50,000			\$0		\$50,000
Kit Land Nelson Park Fitness (grant contingent)*			\$80,000			\$0		\$80,000
Kit Land Nelson Park Playground (Grant Match)			\$75,000			\$0		\$75,000
Northwest Recreation Complex Playground (Grant Match)			<u>\$35,000</u>			\$0		\$35,000
TOTAL GENERAL FUND		\$23,900	\$1,290,000	\$2,630,000	\$450,000	\$0	\$100,000	\$4,493,900
Recreation Splash Pad at NWRC						\$400,000		\$400,000
Skate Park			\$300,000					\$300,000
Playground at Apopka Athletic Complex (AAC)	Recreation Impact Fund		\$75,000					\$75,000
Splash Pad w/ Restrooms (Kit Land Nelson Park)		\$750,000						\$750,000
Park Lot - NWRC				\$267,000	\$865,000		\$1,165,000	\$2,297,000
TOTAL RECREATION IMPACT FUND		\$750,000	\$375,000	\$267,000	\$865,000	\$400,000	\$1,165,000	\$3,822,000

		PRO	POSED CHANGES - L	JNDERSCORED				
Comprehensive Plan Element/Project	Source of Funding	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	FY 21-22	Totals
Alonzo Williams Community Center Bldg.	CDBG		\$750,000					\$750,000
TOTAL CDBG			\$750,000					\$750,000
Alonzo Williams Park[1] Renovations		\$28,000						\$28,000
Alonzo Williams Park New Construction[2]		\$22,000						\$22,000
Kit Land Nelson Park Renovations[3]		\$3,700						\$3,700
Kit Land Nelson Park New Construction[4]	FRDAP Grant	\$42,500						\$42,500
AAC Renovations[5]			\$17,000					\$17,000
AAC New Construction[6]			\$33,000					\$33,000
Old Little League Fields New Park Construction					\$200,000			\$200,000
TOTAL FRDAP GRANT FUNDS		\$96,200	\$50,000	\$0	\$200,000	\$0	\$0	\$346,200

^[1] Resurfacing, irrigation, drinking fountain, picnic facilities

^[6] Playground, landscaping, picnic facilities

Downtown Parking Lot Downtown Park Lot Upgrades	CRA	\$200,000	\$500,000					\$200,000 \$500,000
TOTAL OTHER FUNDS		\$9,560	\$20,000,000	\$0	\$0	\$0	\$0	\$20,009,560
Fitness Equipment for Kit Land Nelson Park/Outdoor Fitness Grant	Other Funds	\$9,560						\$9,560
Gymnasium/Aquatic Center (GO Bond)	0.1 5 1		\$20,000,000					\$20,000,000
TOTAL FDEP GRANT FUNDS		\$310,000	\$200,000	\$110,000	\$0	\$0	\$0	\$310,000
Northwest Recreation Complex Playground				<u>\$35,000</u>				\$35,000
Kit Land Nelson Park Playground	FDEP GRANT			<u>\$75,000</u>				\$75,000
Kit Land Nelson Park Fitness Track/Trail*			\$200,000					\$200,000

^[2] Playground, security lighting

^[3] Resurfacing, tennis court maintenance, drinking fountain, picnic facilities, miscellaneous maintenance

^[4] New playground, bike rack, picnic facilities

^[5] Restrooms, playground surface materials, baseball dugout shelters, drinking fountain & picnic facilities

PROPOSED CHANGES - <u>UNDERSCORED</u>									
Comprehensive Plan Element/Project	Source of Funding	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	FY 21-22	Totals	
Brick Streets, Repair & Restoration			\$500,000					\$500,000	
Equipment (3412 Streets-6400)	2	\$60,000	\$60,000	\$60,000	\$50,000	\$50,000	\$50,000	\$330,000	
New Sidewalk & Curb Construction (3412 Streeets-6304)	Street Improvement Fund	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$300,000	
Paving & Resurfacing (3412 Streets-6304)	Fullu	\$600,000	\$600,000	\$600,000	\$600,000	\$600,000		\$3,000,000	
8 th Street Complex (Renovation/or Relocate) Split with 3412/3513/3181)		\$300,000						\$300,000	
TOTAL STREET IMPROVEMENT FUND		\$1,010,000	\$1,210,000	\$710,000	\$700,000	\$700,000	\$100,000	\$4,430,000	
6 th Street Reconstruction & Downtown Related Street Improvements, Central Ave to US 441		\$500,000	\$500,000	\$1,000,000				\$2,000,000	
Bradshaw Rd US 441 Traffic Signal		\$400,000						\$400,000	
Peterson Rd (End of pavement to Hermit Smirth Rd) 2 lanes				\$750,000				\$750,000	
Maine Ave, Martin St to Old Dixie Hwy (2 lanes)					\$1,000,000			\$1,000,000	
Martin St, Maine Ave between Park Ave					\$1,600,000			\$1,600,000	
Marden Rd (Keene Rd to CR 437A) 2 lanes, Urban Section Improvement	Traffic Impact	\$500,000	\$500,000					\$1,000,000	
New Sidewalks	Fee	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000		\$250,000	
Rogers Rd, Lester Rd to Ponkan Rd				\$1,400,000				\$1,400,000	
Old Dixie (Hawthorne Ave to Schopke Lester Rd) turn lane, curb, gutter		\$1,000,000						\$1,000,000	
Sheeler Ave/Cleveland St Intersection Improvement (turn lanes/traffic light)			\$500,000					\$500,000	
Plymouth Rd/Yothers Rd Intersection Improvements		\$500,000						\$500,000	
Piedmont-Wekiwa Rd/Greenacres Rd (Traffic Light)				\$350,000				\$350,000	
TOTAL TRAFFIC IMPACT FUND		\$2,950,000	\$1,550,000	\$3,550,000	\$2,650,000	\$50,000	\$0	\$10,750,000	
Drainage Upgrading – Citywide (6308)	Stormwater Fund	\$350,000	\$350,000	\$350,000	\$350,000	\$350,000	\$350,000	\$2,100,000	
TOTAL STORMWATER FUND		\$350,000	\$350,000	\$350,000	\$350,000	\$350,000	\$350,000	\$2,100,000	
Miscellaneous Water Mains (2)	Water Impact Fee	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$600,000	
TOTAL WATER IMPACT FUND		\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$ <u>600.000</u>	

PROPOSED CHANGES - <u>UNDERSCORED</u>									
Comprehensive Plan Element/Project	Source of Funding	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	FY 21-22	Totals	
Binion Rd RWM, IFAS to Ocoee Apopka Rd, 5,329				ı	1		1		
LF,					\$511,584			\$511,584	
16" Golden Gem Reuse Station HSP						\$6,500,000		\$6,500,000	
Keene Rd RWM, Marden Rd to Ocoee Apopka Rd, 4,413 LF, 36"		\$794,340						\$794,340	
Kelly Park Rd RMW II, Jason Dwelley Pkwy to Rock Springs Rd 16", 8,801 LF (2)				\$705,000				\$705,000	
Kelly Park Rd RWM, Golden Gem Rd to Round Lake Rd 24"			\$371,400					\$371,400	
Miscellaneous RWM (5)		\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$600,000	
Northwest Reclaim Water Pump Station, 2 @ \$3,000	Reclaim Fund		\$700,000					\$700,000	
Northwest Reclaim Water Pond 2 & 3		\$250,000						\$250,000	
Ocoee Apopka Rd, RWM, Harmon Rd to Alston Bay Blvd, 2,500 LF, 30"		\$412,500						\$412,500	
Ocoee Apopka Rd RWM, Keene Rd to Alston Bay Blvd, 4,000 LF 30"		\$660,000						\$660,000	
Plymouth Sorrento Rd RWM, Yothers Rd to Ponkan Rd, 4,654 LF 24" (2)			\$670,176					\$670,176	
Ocoee Apopka Rd RWM, Keene Rd to Binion Rd, 3,500 LF 30"		\$308,000						\$308,000	
Plymouth Sorrento Rd RWM, Ponkan Rd to Kelly Park Rd 2,745 LF, 20" (2)			\$645,000					\$645,000	
TOTAL RELAIM FUND		\$2,524,840	\$2,486,576	\$805,000	\$611,584	\$6,600,000	\$100,000	\$13,128,000	
Grossenbacher WTP, Replace Well					\$910,000			\$910,000	
Haas Rd WM, Mt. Plymouth Rd to Round Lake Rd, 22,708 LF 12" (1)					\$1,634,976			\$1,634,976	
Kelly Park Rd WM, Golden Gem Rd to Round Lake Rd, 4,035 LF 16" (1)			\$387,360					\$387,360	
Kelly Park Rd WM, Plymouth Sorrento Rd to Golden Gem, 6,672 LF 12" (1)	Water Impact	\$400,320						\$400,320	
Miscellaneous Water Mains (2)	Fee	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$600,000	
Mt. Plymouth Water Plant (Well #1) modifications and improvements		\$700,000						\$700,000	
Mt. Plymouth Water Plant (Well #4) modifications and improvements			\$900,000					\$900,000	
NW WTP (1 MG Storage Tank) (1)				\$850,000				\$850,000	
Plymouth Sorrento Rd WM Ponkan Rd to Kelly Park Rd, 10,720 LF 16" (1)				\$1,030,000				\$1,030,000	
Plymouth Sorrento Rd WM, Yothers Rd to Ponkan Rd, 5,423 LF 12" (1)		\$390,456						251	

		PRO	POSED CHANGES - L	<u>JNDERSCORED</u>				
Comprehensive Plan Element/Project	Source of Funding	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	FY 21-22	Totals
Plymouth Regional Water Plant, modifications and improvements Wells #1 & 2			\$900,000					\$900,000
Ponkan Rd, Ponkan Pines to Golden Gem 8,271 LF 12"	Water Impact Fee (Con't)		\$595,572					\$595,572
Sheeler Oaks WTP 65T .75 MG (1)			\$750,000					\$750,000
Southwest Water Plant (1)						\$4,500,000		\$4,500,000
US 441 WM, Roger Williams Rd to Sheeler Rd (1)				\$240,000				\$240,000
TOTAL WATER IMPACT FUND		\$1,590,776	\$3,632,932	\$2,220,000	\$2,644,976	\$4,600,000	\$100,000	\$14,788,684
Martin's Pond Improvements	Other Funds (TBD)							TBD
TOTAL OTHER FUNDS								TBD



CITY OF APOPKA CITY COUNCIL

CONSENT AGENA MEETING OF:

PUBLIC HEARING FROM: Community Development

SPECIAL REPORTS **EXHIBITS: Zoning Report** OTHER: PUD Master Plan/PDP/PSP Vicinity Map

Adjacent Zoning Map

Aerial Map

October 3, 2018

Ordinance No. 2678

Ex. A – PUD Master Plan/PDP/PSP

SUBJECT: ORDINANCE NO. 2678 - CHANGE OF ZONING; APPROVAL OF PUD MASTER

PLAN/PRELIMINARY DEVELOPMENT PLAN/SUBDIVISION SITE PLAN FOR

MID-FLORIDA LOGISITCS PARK

REQUEST: FIRST READING OF ORDINANCE NO. 2678 - CHANGE OF ZONING; APPROVAL

> OF PUD MASTER PLAN/PRELIMINARY DEVELOPMENT PLAN/SUBDIVISION SITE PLAN FOR MID-FLORIDA LOGISITCS PARK; AND HOLD OVER FOR

SECOND READING & ADOPTION.

SUMMARY:

OWNERS: Mid-Florida Freezer Warehouses LTD, Florida Express Trucking, Inc.,

Eagles Landing at Ocoee, LLC.

APPLICANT: Dave Schmitt Engineering, Inc., c/o Bryan Gaines, AICP

LOCATION: West side of SR 429, south of General Electric Road, and east of Hermit

Smith Road

PARCEL ID NUMBERS: 06-21-28-7172-12-041;

 $\begin{array}{lll} 01\text{-}21\text{-}27\text{-}0000\text{-}00\text{-}060; & 06\text{-}21\text{-}28\text{-}7172\text{-}12\text{-}020; \\ 06\text{-}21\text{-}28\text{-}7172\text{-}12\text{-}060; & 01\text{-}21\text{-}27\text{-}0000\text{-}00\text{-}030; \\ 12\text{-}21\text{-}27\text{-}0000\text{-}00\text{-}010; & 12\text{-}21\text{-}27\text{-}0000\text{-}00\text{-}018; \\ 12\text{-}21\text{-}27\text{-}0000\text{-}00\text{-}017; & 12\text{-}21\text{-}27\text{-}0000\text{-}00\text{-}021 \end{array}$ 06-21-28-7172-13-000; 12-21-27-0000-00-015;

EXISTING USE: Vacant

FLUM DESIGNATION: Industrial (adopted September 19, 2018)

I-1 (Restricted Industrial District); Mixed-EC; R-1AA (Residential Single-**CURRENT ZONING:**

Family District); AG (Agriculture District); and A-1 (ZIP)

2,406,095 sq. ft. industrial buildings; developed in multiple phases PROPOSED DEVELOPMENT:

PROPOSED ZONING: Planned Unit Development (PUD)

TRACT SIZE: 188.893 +/- acres

FUNDING SOURCE: N/A

DISTRIBUTION

Mayor Nelson Finance Director **Public Services Director** Commissioners **HR** Director Recreation Director

IT Director City Clerk City Administrator Community Development Director Police Chief Fire Chief

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<u>SUMMARY</u>: The subject property is approximately 188.893 acres in size and is zoned I-1 (Restricted Industrial District), Mixed-EC, R-1AA (Residential Single-Family District), AG (Agriculture District), and A-1 (ZIP) and has a future land use designation of Industrial. The subject property is located west of SR 429, south of General Electric Road and east of Hermit Smith Road. The proposed change of zoning to PUD (Planned Unit Development) is being requested by the prospective developer, who proposes to construct a subdivision consisting of five industrial warehouse buildings totaling 2,406,095 on the property.

ADDITIONAL APPROVALS: A development agreement is required to address off-site infrastructure obligations placed on either the City or the Developer, land dedications, vacate of city right-of-way, timing of infrastructure, and special design or use standards. City staff and the city attorney's office has worked with the applicant and its attorney to prepare the development agreement. At this time it is not complete, but is anticipated to be ready for City Council review and action at the second public hearing for the PUD zoning. If the development agreement is not ready for the October 17 City Council meeting, City staff will request a continuation of the second hearing to the November 7 City Council meeting date.

PROJECT DESCRIPTION: The PUD Master Plan/Preliminary Development Plan/Preliminary Site Plan proposes a subdivision consisting of five industrial warehouse buildings totaling 2,406,095 square feet. Access to the site is proposed an ingress/egress point on Hermit Smith Road, two ingress/egress points on General Electric Road, and a yet to be constructed road that is dedicated to the public that is referred to as Fern Industrial Drive, which is proposed to be constructed in a north-south direction. In addition, three railroad spurs are proposed to lead into buildings 1A and 1B, 2, and 3. The railroad spurs will be located along the right-of-way of Fern Industrial Drive. Parking will be provided on each lot, and will be owned and maintained by each property owner.

Four Stormwater retention areas are proposed on site. Pond A (dry retention) is proposed south of Building 3, Pond B is proposed east of Building 1A and 1B and adjacent to SR 429, and Ponds C1 (dry retention) and C2 (wet detention) are proposed south and west of Building 5.

An unimproved platted right-of-way known as Peterson Road bisects the property in an east to west direction. This right-of-way is proposed to be vacated when the property is platted, and the right-of-way of Peterson Road will be relocated to the south to allow access to the property owners located to the south of the PUD. The proposed relocation of the Peterson Road right-of-way is shown on the PUD Master Plan in a "J" shaped configuration that extends from north to south and east to west. The new right-of-way of Peterson Road is proposed at 55-feet in width in the north/south direction. Adjacent to the east of the new Peterson Road right-of-way, the Central Florida Expressway Authority has 25-foot perpetual ingress/egress easement that allows access to the property to the south. This easement will not be included in the north/south portion of the right of way. 80-feet of right-of-way is proposed in the east/west direction.

In order accommodated the subdivision plan and site plan, a small area of right-of-way in the northwestern corner of the site that is referred to as Fronds Road must also be vacated.

Deviations: The applicant is requesting five deviations to the City's required development standards. For a PUD Master Plan, a deviation from the City's Land Development Code (LDC) does not represent a variance but a development standard or zoning condition unique to and approved as part of the Planned Unit Development zoning. PUD's are required to satisfy the requirements of the Land Development Code unless the City Council finds that, based on substantial evidence, a proposed alternative development guideline is adequate to protect to the public health safety, and welfare. Any deviations must be consistent with the policies of the Comprehensive Plan.

CITY COUNCIL - OCTOBER 3, 2018 MID-FLORIDA LOGISTICS PARK - CHANGE OF ZONING PAGE 3

LDC, Section 6.03.02.A. Number of parking spaces required (Wholesale, industrial, manufacture, 1. processing or assembly uses) - 2 spaces per 1,000 square feet of gross floor area up to 150,000 square feet, plus 1 space per vehicle operating from premises or 1 space per 2 employees. 1 space per 1,000 square feet over 150,000 square feet of gross floor area.

The applicant is proposing 0.89 parking spaces per 1,000 square feet of gross floor area.

The following justification has been provided: "The ITE Parking Generation Manual, 4th Edition, 85th percentile parking requirement for warehouse use is 0.81 spaces per 1,000 square feet of gross floor area."

2. LDC, Section 2.02.01.A. - Maximum building height for all zoning districts is 35-feet.

The applicant is proposing a maximum building height of 55-feet within the PUD.

The following justification has been provided: "The modern warehouses require 36-feet to 45-feet of clear space under roof to accommodate automated materials handling equipment and maximize storage."

LDC, Section 2.02.15.F. Yard requirements - Front yard - 25-feet, side yard - 10-feet, Yards adjacent to road right-of-ways shall be a minimum of 25-feet, Rear Yard - 10-feet (30-feet adjacent to residential)

The applicant is proposing 15-foot setback on General Electric Road, Hermit Smith Road to main entrance, 0-feet to 10-feet adjacent to SR 429, 10-feet to 25-feet adjacent to Peterson Road, 10-feet adjacent to Fern Industrial Drive.

The following justification has been provided: "The northwestern portion of the site is constrained by the encroachment of General Electric Road. SR 429 has 300-feet of right-of-way, 6 lanes, and provides a 20-foot high barrier to adjacent property to the east."

LDC, Section 2.02.01.b(8a) - Roof top equipment shall be completely screened from adjacent properties and rights-of-way to the maximum extent possible.

The applicant is proposing roof top equipment shall be screened from view from adjacent property lines and public right-of-way, with the exception of SR 429 due to the large elevation change of the roadway and the finished floor elevation of the building. SR 429 is at an elevation of 135-feet, approximately 20-feet above the finished floor height of Building 2. Screening shall be reviewed to be in conformance by the subdivision president and the City of Apopka. Screening shall be reviewed through a sight line document from the nearest adjacent property line and/or from the center line of the public right-of-way. The eye line shall be from the typical height of a person driving an automobile.

The following justification has been provided: "All buildings will have a site line evaluation to confirm that rooftop equipment will not be visible from adjacent properties and right-of-way."

LDC, Section 6.02.08.B.2 – All subdivisions are required to have four-foot wide concrete sidewalks on both sides of all local and minor collector streets.

The applicant is proposing to construct a sidewalk along only one side of Fern Industrial Drive.

The following justification has been provided: "We are requesting that we do not place a sidewall 255

the east side of the right-of-way proximate to the rail spurs. The pedestrian access plan provided on Sheet 6 of the PUD Master Plan shows a network of pedestrian facilities serving the entire site. The sidewalk on the west side of Fern Industrial is the spine connecting the southern end of the site with General Electric Road. All buildings are connected to this north/south spine and the appropriate crosswalks are provided when needed. We (BlueScope) remain concerned that placement of a sidewalk will not increase the pedestrian connectivity over the current plan but will put pedestrians in close proximity to the rail spurs to the east of Fern Industrial serving the site. The benefit of the additional sidewalk does not, in our opinion, warrant the risk of inadvertent interaction of pedestrians and rail vehicles."

TRANSPORTATION IMPACTS:

ACCESS: Access to the site is provided from General Electric Road and Hermit Smith Road. Peterson Road is also a future access point for this project as well as for properties to the south of the Mid-Florida Logistics Park site. Peterson Road and Fronds Road are both proposed to be vacated at the request of the applicant and property owner. Peterson Road will be re-aligned to follow the south project/property line and intersect with Fern Industrial Drive. The vacated road right-of-way will become part of the development site, making it more compact and contiguous. Peterson Road access will serve as a future secondary access for emergency response. The proposed Peterson Road alignment will also create connection to Peterson Road east of SR 429, allowing residents of the proposed Avian Pointe residential development to reach the Logistics Park. The Peterson Road connection between the east and west side of SR 429 also allows another road connection besides using West Orange Avenue and Binion Road, thus allowing traffic to distribute over more routes.

A transportation impact analysis (TIA) was conducted for this project to assess its impacts on the surrounding roadway segments and intersections within a one-mile radius of the project per the City's adopted TIA methodology. Included in the analysis were segments of US 441, General Electric Road, Binion Road, Hermit Smith Road and Hogshead Road. Intersections analyzed were General Electric Road and Orange Avenue, Hermit Smith Road and General Electric Road, Hermit Smith Road and US 441, SR 429 Connector Road and US 441, Orange Avenue and US 441, Plymouth Sorrento Road and US 441, Boy Scout Boulevard and US 441, General Electric Road and Site Access, and Hermit Smith Road and Site Access. Peterson Road connection requires additional right-of-way east of SR 429. In exchange for the City vacating Fronds Road and Peterson Road, Mid-Florida Freezer will be obligated to donate an additional 30-foot width of land along Peterson Road, east of SR 429, to create a 50-foot wide right-of-way.

The project will generate 3,444 daily trips and 246 P.M. Peak Hour trips. It is estimated that 20% of the total traffic generated by this project will be truck traffic. The nature of the land use supports the assumption that most of the truck traffic will leave the site and access SR 429 from US 441 and SR 429 Connector Road.

The addition of project trips to the study roadways will not cause the Level of Service (LOS) to fall below the City's adopted LOS standard. The addition of project traffic to the intersection of Hermit Smith Road and US 441 will cause the intersection to fail. The applicant is required to design and construct a dedicated right turn lane on Hermit Smith Road to allow for safe access to US 441. The addition of project traffic to the other study intersections is not project to cause failures in the future.

The tenants of the Mid-Florida Logistics Park are unknown at this time, so trip generation is based on the best information currently available; however, it is possible that tenants occupying space at Mid-Florida Logistics Park will exceed the trip generation used to conduct the analysis. As the site develops and becomes occupied, the applicant must reassess the trip generation. If it exceeds the projected trip generation used in the analysis, an updated study is required and additional mitigation for roadway and intersection failures caused by the project traffic.

<u>PUD RECOMMENDATIONS</u>: That the zoning classification of the following described property be designated as Planned Unit Development (PUD), as defined in the Apopka Land Development Code, and with the following Master Plan provisions subject to the following zoning provisions:

- A. The uses permitted within the PUD district shall be those described in C below.
- B. Terms of Expiration for this PUD shall be as follows:

If a Final Development Plan associated with the PUD district has not been approved by the City within three years, and site development has not commenced within four years after approval of these Master Plan provisions, the approval of the Master Plan provisions will expire. At such time, the City Council may:

- 1. Permit a single six-month extension for submittal of the required Final Development Plan;
- 2. Allow the PUD zoning designation to remain on the property pending resubmittal of new Master Plan provisions and any conditions of approval; or
- 3. Rezone the property to a more appropriate zoning classification.

C. Zoning Standards

1. Permitted Uses:

- (a) All permitted uses allowed under I-1 zoning district;
- (b) The uses allowed by the "Developer's Agreement for Development of Copart, Inc. Apopka Property," as recorded as document number 20160275220 within the official records of Orange County, Florida, shall be available uses within this PUD if the Copart Developer's Agreement is terminated with the mutual consent of City Council and the property owner subject to the Copart Developer's Agreement;
- (c) Long-term outdoor vehicle (bus, car, cab, and truck) storage and terminal use is permitted within the PUD as an accessory use if said vehicle parking is associated with an enclosed building having a minimum floor area of 10,000 square feet and located within the same Lot or abutting lots. All vehicles stored outdoors must be operable.
- (d) Prohibited Use: Flea markets; day-care centers except when provided solely for on-site employees; churches, public or private schools (k-12th grade) except when located within a stand-alone building; community residential homes; All prohibited uses for the I-1 zoning district.
- (e) Special Exceptions: As set forth by the I-1 zoning district except if listed as a permitted or prohibited uses above.

<u>COMPREHENSIVE PLAN COMPLIANCE</u>: The proposed use of the property is consistent with the proposed Industrial Future Land Use designation and is consistent with the Land Development Code.

CITY COUNCIL – OCTOBER 3, 2018 MID-FLORIDA LOGISTICS PARK – CHANGE OF ZONING PAGE 6

PUBLIC HEARING SCHEDULE:

September 11, 2018 - Planning Commission (5:30 pm) October 3, 2018 - City Council (1:30 pm) - 1st Reading October 17, 2018 - City Council (7:00 pm) - 2nd Reading

DULY ADVERTISED:

August 24, 2018 – Public Notice (Apopka Chief); Letter, Poster October 5, 2018 – Public Notice (Apopka Chief)

RECOMMENDATION ACTION:

The **Development Review Committee** finds the proposed rezoning to Planned Unit Development (PUD), PUD Master Plan/Preliminary Development Plan/Preliminary Site Plan consistent with the Comprehensive Plan and Land Development Code and recommends approval of the Mid-Florida Logistics Park PUD Master Plan/Preliminary Development Plan/Preliminary Site Plan.

The **Planning Commission**, at its meeting on September 11, 2018, found the proposed zoning and PUD Master Plan/Preliminary Development Plan/Preliminary Site Plan consistent with the Comprehensive Plan and Land Development Code, and unanimously recommended approval of the rezoning of the subject parcel from I-1 (Restricted Industrial District), Mixed-EC, R-1AA (Residential Single-Family District), AG (Agriculture District), and A-1 (ZIP) to PUD (Planned Unit Development), and approval of the PUD Master Plan/Preliminary Development Plan/Preliminary Site Plan based on the findings and facts presented in the staff report and exhibits, subject to City Council approving a Development Agreement.

City Council: Accept the First Reading of Ordinance No. 2678 and Hold it Over for Second Reading and Adoption on October 17, 2018.

Note: This item is considered quasi-judicial. The staff report and its findings are to be incorporated into and made a part of the minutes of this meeting.

ZONING REPORT

RELATIONSHIP TO ADJACENT PROPERTIES:

Direction	Future Land Use	Zoning	Present Use
North (City)	Industrial (max FAR 0.60)	I-1	Transport/freight uses, Copart
East (City)	None assigned	N/A	SR 429 right-of-way
South (County)	Orange County Rural	AG	Vacant property
West (City)	Orange County Rural	AG	Lake Apopka Restoration Area

LAND USE &

TRAFFIC COMPATIBILITY: The property is accessed via Hermit Smith Road and General Electric

Road and a yet to be constructed public roadway referred to as Fern Industrial Drive, which will be owned and maintained by the City of Apopka. Future land use designations and zoning categories assigned to properties to the north, south, east, and west are predominantly

Industrial and Rural.

COMPREHENSIVE

PLAN COMPLIANCE: The proposed PUD zoning is compatible with policies set forth in the

Comprehensive Plan.

ALLOWABLE

USES: Industrial uses as set forth within the Planned Unit Development

Master Plan.

Project: MID-FLORIDA LOGISTICS PARK

Owned by: Mid-Florida Freezer Warehouses, LTD, Florida Express Trucking, Inc. Eagles

Landing at Ocoee, LLC

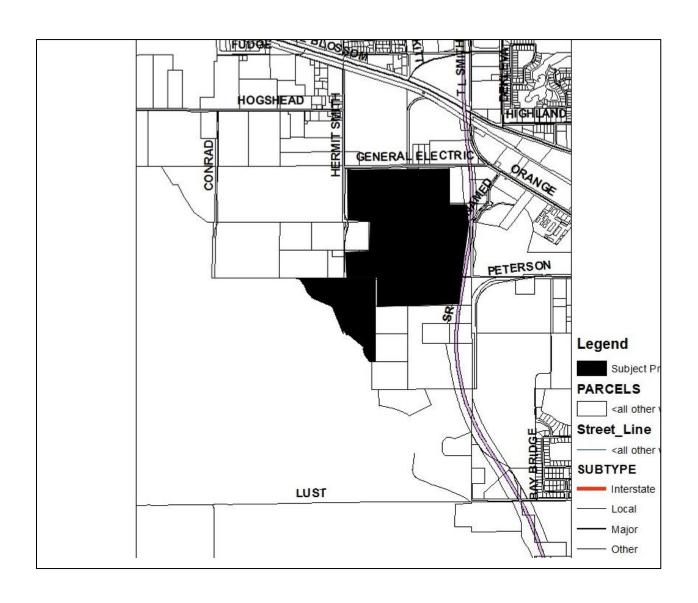
Located: East side of Hermit Smith Road, South of General Electric Road, west of SR 429 Parcel ID#s: 01-21-27-0000-00-060, 06-21-28-7172-12-020, 06-21-28-7172-12-041, 06-21-28-7172-12-

060, 01-21-27-0000-00-030, 06-21-28-7172-13-000, 12-21-27-0000-00-010, 12-21-27-

0000-00-018, 12-21-27-0000-00-015, 12-21-27-0000-00-017, 12-21-27-0000-00-021

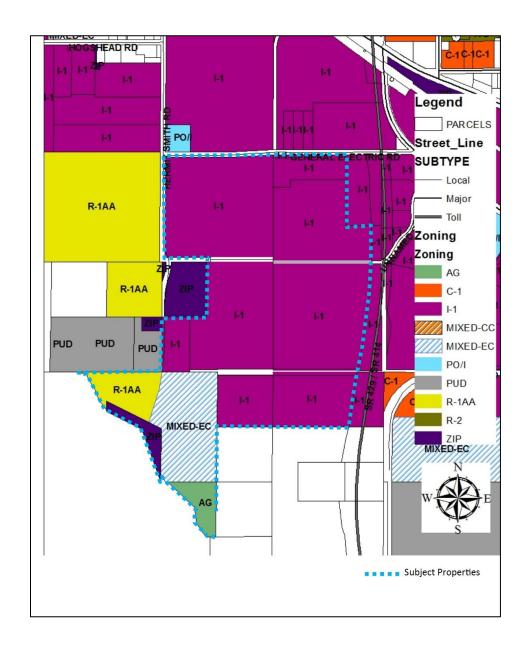


VICINITY MAP





ADJACENT ZONING



AERIAL MAP





ORDINANCE NO. 2678

AN ORDINANCE OF THE CITY OF APOPKA, FLORIDA, CHANGING THE ZONING FROM "COUNTY" A-1 (ZIP), "CITY" RESIDENTIAL SINGLE-FAMILY DISTRICT (R-1AA), "CITY" MIXED-EC (MIXED-USE), "CITY" AG (AGRICULTURE), AND "CITY" I-1 (RESTRICTED INDUSTRIAL DISTRICT) TO "CITY" PLANNED UNIT DEVELOPMENT (PUD), FOR CERTAIN REAL PROPERTY GENERALLY LOCATED ON THE WEST SIDE OF SR 429, SOUTH OF GENERAL ELECTRIC ROAD, AND EAST OF HERMIT SMITH ROAD, COMPRISING 186.03 ACRES MORE OR LESS, AND OWNED BY MID FLORIDA FREEZER WAREHOUSES LTD; AND EAGLES LANDING AT OCOEE, LLC; **PROVIDING FOR DIRECTIONS** THE **COMMUNITY** TO DEVELOPMENT DIRECTOR, SEVERABILITY, CONFLICTS, AND AN EFFECTIVE DATE.

WHEREAS, to manage growth, the City of Apopka, Florida, finds it in the best interest of the public health, safety and welfare of its citizens to establish zoning classifications within the City; and

WHEREAS, Dave Schmitt Engineering, Inc. has requested a change in zoning on said property as identified in Section II of this ordinance; and

WHEREAS, the proposed Planned Unit Development (PUD) zoning has been found to be consistent with the City of Apopka Comprehensive Plan, and the City of Apopka Land Development Code.

NOW THEREFORE, BE IT ORDAINED, by the City Council of the City of Apopka, Florida, as follows:

Section I. That the zoning classification of the following described property be designated as Planned Unit Development (PUD), as defined in the Apopka Land Development Code, and with the following development standards and provisions, and subject to the following zoning provisions:

- A. The following uses are permitted within the PUD district:
 - 1. All permitted uses allowed under I-1 zoning district;
 - 2. The uses allowed by the "Developer's Agreement for Development of Copart, Inc. Apopka Property," as recorded as document number 20160275220 within the official records of Orange County, Florida, shall be available uses within this PUD if the Copart Developer's Agreement is terminated with the mutual consent of City Council and the property owner subject to the Copart Developer's Agreement;
 - 3. Long-term outdoor vehicle (bus, car, cab, and truck) storage and terminal use is permitted within the PUD as an accessory use if said vehicle parking is associated with

ORDINANCE NO. 2678 PAGE 2

an enclosed building having a minimum floor area of 10,000 square feet and located within the same Lot or abutting lots. All vehicles stored outdoors must be operable.

- B. The following uses are Prohibited within the PUD district:
 - 1. Flea markets
 - 2. Day-care centers except when provided solely for on-site employees
 - 3. Churches
 - 4. Public or private schools (K-12th grade) except when located within a stand-alone building
 - 5. Community residential homes
 - 6. All prohibited uses for the I-1 zoning district
- C. Special Exceptions: As set forth by the I-1 zoning district except if listed as a permitted or prohibited uses above.
- D. Development of the property shall occur consistent with the Master Site Plan set forth in Exhibit "B". Where any development standard conflicts between the Master Site Plan and the Land Development Code, the Master Site Plan shall preside. Any proposed revision to the Master Site Plan shall be evaluated and processed pursuant to Section 2.02.18.N. (Master plan revision), LDC
- E. If a Final Development Plan associated with the PUD district has not been approved by the City within three years after approval of these Master Plan provisions, the approval of the Master Site Plan/PDP provisions will expire. At such time, the City Council may:
 - 1. Permit a single six-month extension for submittal of the required Final Development Plan;
 - 2. Allow the PUD zoning designation to remain on the property pending resubmittal of new Master Site Plan provisions and any conditions of approval; or
 - 3. Rezone the property to a more appropriate zoning classification.

Section II. That the zoning classification of the following described Property, being situated in the City of Apopka, Florida, is hereby PUD as defined in the Apopka Land Development Code:

Legal Description: See Exhibit "A"

Section III. That the zoning classification is consistent with the Comprehensive Plan of the City of Apopka, Florida.

ORDINANCE NO. 2678 PAGE 3

Section IV. That the Community Development Director, or the Director's designee, is hereby authorized to amend, alter, and implement the official zoning maps of the City of Apopka, Florida, to include said designation.

Section V. That if any section or portion of a section or subsection of this Ordinance proves to be invalid, unlawful, or unconstitutional, it shall not be held to invalidate or impair the validity, force or effect of any other section or portion of section or subsection or part of this ordinance.

Section VI. That all ordinances or parts of ordinances in conflict herewith are hereby repealed.

Section VII. That this Ordinance shall take effect upon the date of adoption.

	READ FIRST TIME:	October 3, 2018
	READ SECOND TIME AND ADOPTED:	
	Bryan Nelson, Mayor	
ATTEST:		
	_	
Linda Goff, City Clerk	-	
APPROVED AS TO FORM:		
Cliff Shepard, City Attorney	-	

DULY ADVERTISED: August 24, 2018; October 5, 2018

Exhibit "A" Legal Description

THAT PART OF THE SOUTHEAST 1/4 OF SECTION 1, TOWNSHIP 21 SOUTH, RANGE 27 EAST AND THE NORTHEAST 1/4 OF SECTION 12, TOWNSHIP 21 SOUTH, RANGE 27 EAST, BEING DESCRIBED AS FOLLOWS; COMMENCE AT THE NORTHWEST CORNER OF THE SOUTHEAST 1/4 OF SAID SECTION 1; THENCE RUN S00°14'22"W ALONG THE WEST LINE OF SAID SOUTHEAST 1/4, 60.00 FEET TO A POINT 60.00 FEET SOUTH OF, WHEN MEASURED PERPENDICULAR TO, THE NORTH LINE OF SAID SOUTHEAST 1/4; THENCE RUN N89°59'32"E PARALLEL WITH SAID NORTH LINE, 30.00 FEET TO THE EAST RIGHT OF WAY LINE OF HERMIT SMITH ROAD BEING THE EAST LINE OF A 30.00 RIGHT OF WAY RECORDED IN DEED BOOK 633, PAGE 385, PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA, FOR THE POINT OF BEGINNING; THENCE CONTINUE N89°59'32"E ALONG THE SOUTH RIGHT OF WAY LINE OF GENERAL ELECTRIC ROAD, AS RECORDED IN DEED BOOK 966, PAGE 424, PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA, 800.00 FEET; THENCE CONTINUE ALONG SAID SOUTH RIGHT OF WAY LINE N86°30'41"E, 494.11 FEET TO THE NORTHWEST CORNER OF LOT 4, BLOCK "L", MAP OF PLYMOUTH, AS RECORDED IN PLAT BOOK B, PAGES 17-18, PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA; THENCE RUN N89°59'32"E ALONG THE NORTH LINE OF SAID BLOCK "L", 872.00 FEET TO THE NORTHWEST CORNER OF LOT 1 OF SAID BLOCK "L"; THENCE RUN S00°08'04"E ALONG THE WEST LINE OF LOT 1 AND LOT 8 OF SAID BLOCK "L", 852.07 FEET TO THE NORTHWEST CORNER OF LOT 9 OF SAID BLOCK 'L"; THENCE RUN N89°59'14"E ALONG THE NORTH LINE OF SAID LOT 9, 305.56 FEET TO THE WEST RIGHT OF WAY LINE OF STATE ROAD 429 (WESTERN BELTWAY); THENCE RUN THE FOLLOWING SIX (6) COURSES ALONG SAID WEST RIGHT OF WAY LINE S03°11'39"E, 222.83 FEET TO A CURVE CONCAVE TO THE WEST: THENCE RUN SOUTHERLY ALONG SAID CURVE HAVING A CENTRAL ANGLE OF 06°55'43", A RADIUS OF 7850.00 FEET, AN ARC LENGTH OF 949.26 FEET, A CHORD BEARING OF S04°57'27"W AND A CHORD DISTANCE OF 948.68 FEET; S08°25'18"W, 432.58 FEET; S12°48'38"W, 196.00 FEET; S07°57'36"W, 604.02 FEET; S15°57'29"W, 30.55 FEET TO THE SOUTH LINE OF THE NORTH 1/2 OF THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SAID SECTION 12; THENCE RUN S89°58'43"W ALONG SAID SOUTH LINE AND THE SOUTH LINE OF THE NORTHEAST 1/4 OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF SAID SECTION 12, 1583.51 FEET TO THE SOUTHWEST CORNER OF SAID NORTHEAST 1/4 OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4; THENCE RUN S00°26'22"W ALONG THE EAST LINE OF THE NORTHWEST 1/4 OF THE SOUTHWEST 1/4 OF THE NORTHEAST 1/4 OF SAID SECTION 12, 1316.77 FEET TO THE SOUTH LINE OF SAID NORTHWEST 1/4 OF THE SOUTHWEST 1/4 OF THE NORTHEAST 1/4; THENCE RUN S89°53'17"W ALONG THE SOUTH LINE OF SAID NORTHWEST 1/4 OF THE SOUTHWEST 1/4 OF THE NORTHEAST 1/4, 124.64 FEET TO THE EASTERN BOUNDARY OF LANDS DEDICATED TO ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT PROPERTY PER OFFICIAL RECORDS BOOK 7711, PAGE 4081, OFFICIAL RECORDS BOOK 7786, PAGE 3958, AND OFFICIAL RECORDS BOOK 5586, PAGE 2510; THENCE RUN THE FOLLOWING FIFTEEN (15) COURSES ALONG SAID EASTERN BOUNDARY OF LANDS DEDICATED TO ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT; N34°51'34"W, 185.69 FEET; N09°14'28"W, 154.82 FEET;

ORDINANCE NO. 2678 PAGE 5

N57°52'23"E, 35.05 FEET; N47°21'45"W, 206.75 FEET; N46°03'10"W, 257.06 FEET; \$64°40'44"W, 30.12 FEET; N33°59'32"W, 130.01 FEET; \$00°32'05"W, 79.45 FEET; N19°49'43"W, 669.98 FEET; N63°05'41"W, 470.00 FEET; N00°32'05"E, 19.26 FEET; N38°59'11"W, 151.57 FEET; N20°38'44"W, 140.91 FEET; N32°02'37"W, 141.62 FEET; N24°49'10"W, 65.79 FEET; N77°14'37"W, 124.93 FEET TO THE NORTH LINE OF AFORESAID NORTHEAST 1/4 OF THE NORTHWEST 1/4 OF SECTION 12; THENCE RUN S89°54'33"E ALONG SAID NORTH LINE, 1028.15 FEET TO THE NORTHWEST CORNER OF THE NORTHEAST 1/4 OF SAID SECTION 12; THENCE RUN S89°58'53"E ALONG THE NORTH LINE OF THE NORTHEAST 1/4 OF SECTION 12, 333.31 FEET TO THE WEST LINE OF THE EAST 3/4 OF SAID SOUTHWEST 1/4 OF THE SOUTHEAST 1/4; THENCE RUN N00°11'01"E ALONG THE WEST LINE OF SAID EAST 3/4 OF THE SOUTHWEST 1/4 OF THE SOUTHEAST 1/4, 659.17 FEET TO THE SOUTH LINE OF THE NORTH 660.00 FEET OF SAID EAST 3/4 OF THE SOUTHWEST 1/4 OF THE SOUTHEAST 1/4; THENCE RUN S89°59'40"E, PARALLEL WITH SAID SOUTH LINE, 200.00 FEET TO A LINE 200.00 FEET EAST OF THE WEST LINE OF SAID EAST 3/4 OF THE SOUTHWEST 1/4 OF THE SOUTHEAST 1/4: THENCE RUN N00°11'01"E PARALLEL WITH SAID WEST LINE, 720.00 FEET TO A LINE 30.00 FEET NORTH OF, WHEN MEASURED PERPENDICULAR TO, THE SOUTH LINE OF THE NORTHWEST 1/4 OF THE SOUTHEAST 1/4 OF SAID SECTION 1, BEING THE NORTH LINE OF A 60.00 FOOT RIGHT OF WAY RECORDED IN OFFICIAL RECORDS BOOK 889, PAGE 331, PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA; THENCE RUN N89°59'40"W ALONG SAID NORTH LINE OF RIGHT OF WAY, 501.97 FEET TO A LINE 30.00 FEET EAST OF, WHEN MEASURED PERPENDICULAR TO, THE WEST LINE OF SAID NORTHEAST 1/4 OF THE SOUTHEAST 1/4, BEING THE EAST LINE OF A 30.00 RIGHT OF WAY RECORDED IN DEED BOOK 633, PAGE 385, PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA; THENCE RUN N00°14'22"E ALONG SAID EAST RIGHT OF WAY LINE, 1199.11 FEET TO THE POINT OF BEGINNING.

THE ABOVE DESCRIBED PARCEL OF LAND CONTAINS 188.893 ACRES MORE OR LESS.

Parcel ID Numbers: 01-21-27-0000-00-030; 01-21-27-0000-00-060; 06-21-28-7172-12-020;

06-21-28-7172-12-041; 06-21-28-7172-12-060; 06-21-28-7172-13-000;

12-21-27-0000-00-010; 12-21-27-0000-00-015; 12-21-27-0000-00-

017;12-21-27-0000-00-018; 12-21-27-0000-00-021

Containing 188.893 +/- Acres

Exhibit "B" – Mid-Florida Logistics Park PUD Master Plan

ENGINEER / PLANNER

DAVE SCHMITT ENGINEERING, INC. 12301 LAKE UNDERHILL ROAD SUITE 241. ORLANDO, FL 32828 407-207-9088 FAX 407-207-9089 CONTACTS: DAVE SCHMITT, P.E.

BlueScope Properties Group LLC 1540 Genessee Street Kansas City, MO 64102 Matt Roth, VP and General Counsel

Mid Florida Freezer Warehouse I Id 2560 West Orange Blossom Trail Apopka, FL 32761

Eagles Landing PO Box 770609 Winter Garden, FL 34777-0609 Randy June

PUD MASTER PLAN for

MID-FLORIDA LOGISTICS PARK

APOPKA, FLORIDA

PARCEL ID No.

#01-21-27-0000-00-060, #06-21-28-7172-12-020 #06-21-28-7172-12-041. #06-21-28-7172-12-060 #01-21-27-0000-00-030, #06-21-28-7172-13-000 #12-21-27-0000-00-010, #12-21-27-0000-00-018 #12-21-27-0000-00-015, #12-21-27-0000-00-017 #12-21-27-0000-00-021

NOTE: THE TWENTY-FIVE FOOT WIDE PROPERTY WHICH IS THE SUBJECT OF OR BOOK 10014, PAGE 4293 IS NOT PROPOSED FOR DEDICATION OR INCLUSION IN THE RIGHT OF WAY FOR THE RE-ALIGNED PETERSON ROAD

SITE DATA

TOTAL SITE AREA 189.00 ACRES TOTAL PUD AREA 186.03 ACRES

FUTURE LAND USE INDUSTRIAL, MIXED USE, AGRICULTURE EXISTING ZONING I-1, MIXED EC, R-1AA, AG, ZIP-(I-1)

PROPOSED ZONING

35' MAX (PROPOSED 55')

FLOOR AREA 60%

BUILDING AREA

BUILDING HEIGHT

BUILDING 1A BUILDING 1B 330,565 SF 324,000 SF BUILDING 2 514,930 SF BUILDING 3 399 000 SF 537,600 SF BUILDING 4

BUILDING SETBACKS

FRONT SIDE: ADJACENT TO RESIDENTIAL USE:

LANDSCAPE BUFFER

FRONT SIDE: REAR CORNER 25' (PROPOSED 0') 25' (PROPOSED 15' WEST OF GE ROAD HERMIT SMITH ROAD FERN INDUSTRIAL ROAD 25' (PROPOSED 10')

1,579 REGULAR 526 TRUCK 36 HANDICAP

2,141 TOTAL (2141 REQUIRED)

POND TRACT AREA: 42.87 AC IMPERVIOUS AREA: 138.88 AC

74.65%

DEVIATIONS OF WAIVER REQUEST TABLE

Code Number	Code Requirement	Requested Modification	Justification	Location
6.03.02 A	Parking 2 spaces per 1,000 at of GFA up to 150,000 at plus 1 space per vehicle operating on the premises or 2 spaces per employee and 1 space per 1,000 at over 150,000 at of GFG	0.53 Space per 1,000 st of GFA	The ITE Parking Generation Manual, 4th Edition, 85th percertile parling requirement for wavehouse use 8.0 81 spaces per 1,000 st of GFA.	Entire Site
2.02.01 A	Building Height Maximum Building Height 35	Maximum Building Height 55	The modern warehouses require 36' to 45' of clear space under roof to accommodate automated materials handling equipment and maximize storage.	All Buildings
2.02.15 <i>F</i>	Buffer Yard Front 25', Side 10', Rear 10' (30' Adjacent to Residential), 25' Road ROW	15' on GE Road, Harmit Smith Road to Main Entrance, 07/10' Adjacent to SR 429, 10725' Adjacent to Peterson Road, 10' Adjacent to Fern Industrial	The northwestern portion of the site is constrained by the encroachment of GE Road, SR 429 has 300' of ROW, 6 lanes, and provides a -20' high barrier to adjacent property to the east.	North and East
2.02.01 BS b(8n)	Roof Top Screening All roof lap edipment shall be screened than adsent properties and rights-of-way to the maximum extent possible.	Roof top equipment shall be screened from view from adjacent properly fire and public injustment properly fire and public injustment with the exception of STA 430 due to the large elevation change of the resolving and the state of the stat	All buildings will have a she fine evaluation to confirm that rooting equipment will not be wish to have adjected properties and ROW,	Entire Ste
2.02,16 B2	Outdoor Vehicle	Longterm outdoor vehicle (bus, car, cab, and truck) storage and terminal is a permitted use within the PUD.	increased business flexibility. Permitted vehicle storage will be screened from the ground.	Entire Site
6.02.08	Sidewalk Location Buld sidewalks on both sides of public streets	Build sidewalk only on the west side of Farm Industrial Orne.	We are requesting that we do not place a sidewalk on the east side of the ROW powinate to the call side of the ROW powinate to the call speed. The provided on Sheel 6 of the PUD Master Plan shows a network of podestitain facilities serving arite sile. The sidewalk on the west side of Pen Industrials it the spine comment of the sidewalk on the west side of Pen Industrials it the spine of the sidewalk of the side	Entire Ste

THIS PROJECT WILL CONFORM TO ALL REQUIREMENTS OF I-1 ZONING WITH THE EXCEPTION OF THE DEWATIONS NOTED ON THE DEVIATION TABLE.

FL STATUE 553.851 (1979) REQUIRES MIN, OF 2 DAYS AND MAX. OF 5 DAYS NOTICE BEFORE YOU EXCAVATE. PREPARED FOR:

Call before you dig.

Know what's below.

BLUESCOPE PROPERTIES GROUP LLC

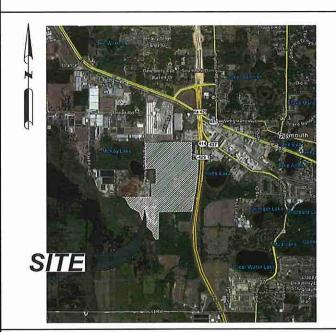
					KEVIOIUNO				
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	
									"M
									— FC
		*1		-					

THIS IS TO CERTIFY THAT THE ROADWAY CONSTRUCTION PLANS AND SPECIFICATIONS AS CONTAINED HEREIN WERE DESIGNED TO APPLICABLE STANDARDS AS SET FORTH IN THE MANUAL OF UNIFORM MINIMUM STANDARDS CONSTRUCTION AND MAINTENANC FOR STREETS AND HIGHWAYS" AS PREPARE 269 DEPARTMENT OF TRANSPORTATION

TABLE OF CONTENTS

COVER SHEET EXISTING CONDITION PLAN PUD MASTER PLAN PRELIMINARY DEVELOPMENT PLAN / SUBDIVISION PLAN OWNERSHIP & MAINTENANCE PLAN PEDESTRIAN ACCESS PLAN LOT 1 PLAN LOT 1 PRELIMINARY GRADING PLAN LOT 2 PLAN
PUD MASTER PLAN PRELIMINARY DEVELOPMENT PLAN / SUBDIVISION PLAN OWNERSHIP & MAINTENANCE PLAN PEDESTRIAN ACCESS PLAN LOT 1 PLAN LOT 1 PRELIMINARY GRADING PLAN
PRELIMINARY DEVELOPMENT PLAN / SUBDIVISION PLAN OWNERSHIP & MAINTENANCE PLAN PEDESTRIAN ACCESS PLAN LOT 1 PLAN LOT 1 PRELIMINARY GRADING PLAN
OWNERSHIP & MAINTENANCE PLAN PEDESTRIAN ACCESS PLAN LOT 1 PLAN LOT 1 PRELIMINARY GRADING PLAN
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LOT 5 PLAN
LOT 5 PRELIMINARY GRADING PLAN
PRELIMINARY STORMWATER POND PLAN
GE ROAD OFFSITE IMPROVEMENTS

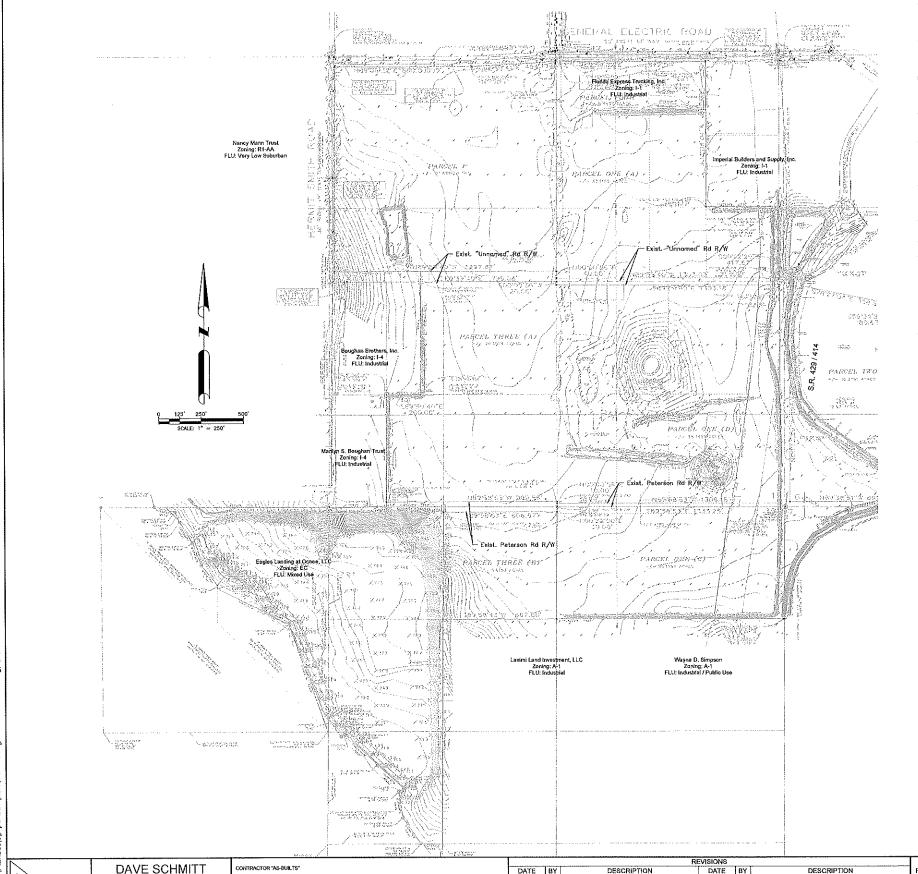
LANDSCAPE PLAN



SITE LOCATION

DAVE SCHMITT ENGINEERING, INC. 12301 LAKE UNDERHILL RD. SUITE 24 ORLANDO, FL 32828 407-207-9088 FAX 407-207-9089

DATE: JUNE 2018 JOB NO.: ANC-1 SHEET: 01 OF 18



LEGAL DESCRIPTION:

PARCEL 01-21-27-0000-00-06

THE NORTHWEST QUARTER OF THE SOUTHEAST QUARTER IN SECTION 1, TOWNSHIP 21 SOUTH, RANGE 27 EAST, ORANGE COUNTY, FLORIDA. LESS ROAD RIGH

LOTS 2, 3, 4, 5 6, 7, AND 9 OF BLOCK L, TOWN OF PLYMOUTH, AS PER RECORDED PLAT IN PLAT BOOK B, PAGES 17-18, PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA, LYING WEST OF STATE ROAD 429 (WESTERN BELTWAY).

ALL OF BLOCK "M", TOWN OF PLYMOUTH, AS PER RECORDED PLAT THEREOF RECORDED IN PLAT BOOK
"B", PAGES 17-18, PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA, LYING WEST OF STATE ROAD 429 (WESTERN BELTWAY).

THE EAST 3/4 OF THE SOUTHWEST QUARTER OF THE SOUTHEAST QUARTER, LESS THE WEST 2/0 FEET OF THE NORTH 560 FEET AND LESS THE SOUTH 30 FEET FOR RIGHT-OF-WAY, SECTION 1, TOWNSHIP 21 SOUTH, RANGE 27 EAST, ORANGE COURTY, FLORIDA.

THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER. LESS THE NORTH 30 FEET FOR RIGHT-OF-WAY, SECTION 12, TOWNSHIP 21 SOUTH, RANGE 27 EAST, ORANGE COURTY, FLORIDA.

THE NORTH HALF OF THE NORTHEAST QUARTER OF THE NORTHEASY QUARTER, SECTION 12, TOWNSHIP 21 SOUTH, RANGE 27 EAST, ORANGE COUNTY, FLORIDA, LYING WEST OF STATE ROAD 429 (MESTERN BELTWAY).

THE ABOVE 6 PARCELS OF LAND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: (AS WRITTEN BY SURVEYOR)

THAT PART OF THE SOUTHEAST 1/4 OF SECTION 1, TOWNSHIP 21 SOUTH, RANGE 27 EAST AND THE NORTHEAST 1/4 OF SECTION 12, TOWNSHIP 21 SOUTH, RANGE 27 EAST, BEING DESCRIBED AS FOLLOWS;

COMMENCE AT THE NORTHWEST CORNER OF THE SOUTHEAST 1/4 OF SAID SECTION 1; THENCE RUN 800*1472*W ALONG THE WEST LINE OF SAID SOUTHEAST 1/4, 60.00 FEET TO A POINT 60.00 FEET SOUTH OF, WHEN MEASURED PERPENDICULAR TO, THE NORTH LINE OF SAID SOUTHEAST 1/4. THENCE RUN 189*9372*E PARALLEL WITH SAID NORTH LINE, 30.00 FEET TO THE EAST RIGHT OF WAY LINE OF GENERAL ELECTRIC ROAD, 80.00 FEET, THENCE CONTINUE ALONG SAID SOUTH REGIST OF WAY LINE OF GENERAL ELECTRIC ROAD, 80.00 FEET, THENCE CONTINUE ALONG SAID SOUTH REGIST OF WAY LINE OF GENERAL ELECTRIC ROAD, 80.00 FEET, THENCE CONTINUE ALONG SAID SOUTH REGIST OF WAY LINE OF GENERAL ELECTRIC ROAD, 80.00 FEET, PARALLEL WITH SAID NORTH LINE, 60 FEET TO THE NORTHWEST CORNER OF LOT 4, BLOCK 1, MAY DEPTH MOUTH, AS RECORDED IN PLAY BOOK B, PAGES 17-18, PUBLIC RECORDS OF CRANGE COUNTY, FLORIC, THE WEST WAY LINE OF CORNER OF LOT 4, BLOCK 1, MAY DEPTH MOUTH, AS RECORDED IN PLAY BOOK B, PAGES 17-18, PUBLIC RECORDS OF CRANGE COUNTY, FLORIC RUN BOYS OF THE WEST RIGHT OF WAY LINE OF SAID LINE OF LOT 4, MAY LINE OF SAID LINE OF LINE OF LOT 4, MAY LINE OF SAID LINE OF LINE OF LOT 4, MAY LINE OF SAID LINE OF LINE OF LOT 4, MAY LINE OF LOT 4, MAY LINE OF LINE OF LOT 4, MAY LINE OF LINE OF LOT 4, MAY LINE OF SAID LINE OF LIN

TOGETHER WITH, BEGIN AGAIN AT AFORESAID POINT "A", THEILCE RUN S12/48/36 W ALONG THE WEST RIGHT OF WAY LINE OF STATE ROAD 4/39 (WESTERN BELTWAY), 20.57 FEET TO A POINT ON THE WORTH LINE OF THE MORTHLEAST 140 OF AFORESAID SECTION 12, THENCE CONTINUE ALONG SAID WEST RIGHT OF WAY LINE S12/48/37 W, 30.16 FEET, THENCE RUN 8079/73/4W ALONG SAID WEST RIGHT OF WAY LINE S12/48/37 W, 30.16 FEET, THENCE RUN 8079/73/4W ALONG SAID WITH READ THE STATE OF THE WORTHLEAST 1/40 OF THE MORTHLEAST 1/40 OF THE MORTHLEAST

THE ABOVE DESCRIBED PARCEL OF LAND CONTAINS 150.132 ACRES MORE OR LESS.

THE WEST 1/2 OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 12, TOWNSHIP 21 SOUTH, RANGE 27 EAST, ALSO THE NORTHWEST 1/4 OF THE SOUTHWEST 1/4 OF THE NORTHEAST 1/4, SECTION 12, TOWNSHIP 21 SOUTH, RANGE 27 EAST, ALSO THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 DETAIL NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 DETAIL NORTHEAST 1/4 DETAIL NORTHEAST 1/4 THENCE SOUTH BIG 82 FEET TO POINT OF BEGINNING, SECTION 12, TOWNSHIP 21 SOUTH, RANGE 27 EAST, ALL IN ORANGE COUNTY, FLORIDA

TOGETHER WITH EASEMENT FOR THE BENEFIT OF PARCEL I AS CONTAINED IN THE AGREEMENT FOR THE RESERVATION OF ACCESS BY AND BETWEEN SAN-GE LAND COMPANY, LTD., A FLORIDA LIMITED PARTNERSHIP AND FRANCIS LEROY STUTZIMMI, AS TRUSTEE AND DOLIALD J. STUTZIMMI RECORDED IN OFFICIAL RECORDS BOOK 2666, PAGE 533, PUBLIC RECORDS OF ORMICE COUNTY, FLORIDA, OVER, LUDGE AND ACROSS THE LANDS DESCRIBED THEREIN.

THOSE PORTIONS CONVEYED BY WARRANTY DEED, TO HARRY R. GREENE, DATED SEPTEMBER 1, 2004 AND RECORDED IN OFFICIAL RECORDS BOOK 7711, PAGE 4081 AND THAT PORTION CONNEYED TO ST. JOHN RIVER WATER MANAGEMENT DISTRICT RECORDS JANUARY 19, 2005 IN OFFICIAL RECORDS BOOK 7769 PAGE 3958, BOTH OF THE PUBLIC RECORDS OF ORANGE COUNTY, ELORIDA.

THAT PART OF THE NORTHEAST (IA OF THE NORTHWEST 1/4 OF SECTION 12, TOWNISHIP 21 SOUTH, RANGE 27 EAST, LYING NORTHEASTERLY OF A DIAGONAL LINE THAT RUNS FROM THE SOUTHEAST CORNER TO THE NORTHWEST CORNER OF SAID NORTHEAST SHORTHWEST 1/4, BEING DESCRIBED AS FOLLOWS: BEGINNING AT THE SOUTHEAST CORNER OF SAID NORTHEAST HA OF THE NORTHWEST 1/4, BY HOST 1/25, BY HOST 1/25

LESS AND EXCEPT THAT PORTION CONVEYED TO ST. JOHNS RIVER WATER MANAGEMENT DISTRICT BY SPECIAL WARRANTY DEED RECORDED IN OFFICIAL RECORDS BOOK 5586, PAGE 2510.

THAT PART OF THE NORTHEAST 1/4 AND THE NORTHEAST 1/4 OF SECTION 12, TOWNSHIP 21 SOUTH, RAINGE 27 BAST, ORANGE COUNTY, FLORIDA, BEING DESCRIBED AS FOLLOW, BEGIN AT THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SAID SECTION 12, THENCE RUN S89°5837E ALONG THE NORTH LINE OF SAID NORTHEAST 1/4, GEGS FEET TO THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SAID SECTION 12, THENCE RUN S80°5837E ALONG THE NORTHEAST 1/4, OF SAID SECTION 12, THENCE RUN S80°5817E ALONG THE NORTHEAST 1/4, OF THE SOUTHEEST 1/4 OF THE NORTHEAST 1/4 OF THE SOUTHEEST 1/4 OF THE NORTHEAST 1/4. THE NORTHEAST 1/4 OF THE SOUTHEEST 1/4 OF THE SOUTHEEST 1/4 OF THE SOUTHEEST 1/4 OF THE NORTHEAST 1/4. THE NORTHEAST 1/4 OF THE SOUTHEEST 1/4 OF THE SOUTHEST 1/4 OF THE SOUTHEEST 1/4 OF THE SOUTHEEST 1/4 OF THE SOUTHEST 1/4 OF THE SOUTHEST

THE ABOVE DESCRIBED PARCEL OF LAND CONTAINS 37.401 ACRES MORE OR LESS.

ENGINEERING, INC. 12301 Lake Underhill Road Suite 241 ORLANDO, Ft. 32828 407-207-9088 FAX 407-207-9089 Certification of Authorization #27471

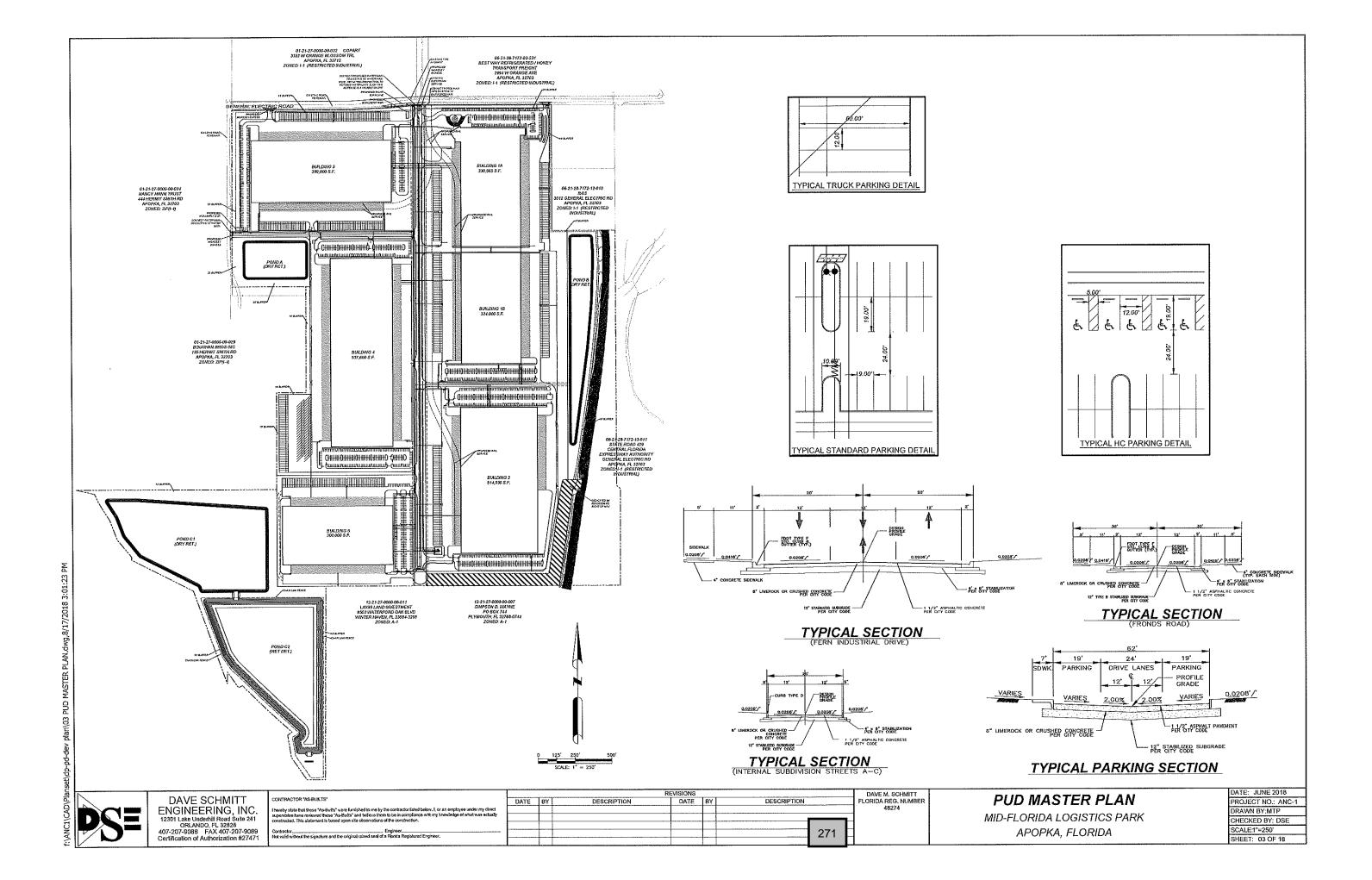
weeky state that these "As-Butts" were furnished to me by the confractor Ested below. I, or an employee under my strect periodics have reviewed these "As-Butts" and delever them to be in complained with my knowledge of what was actual restructed. This statement is broad upon state observations of the commissioners.

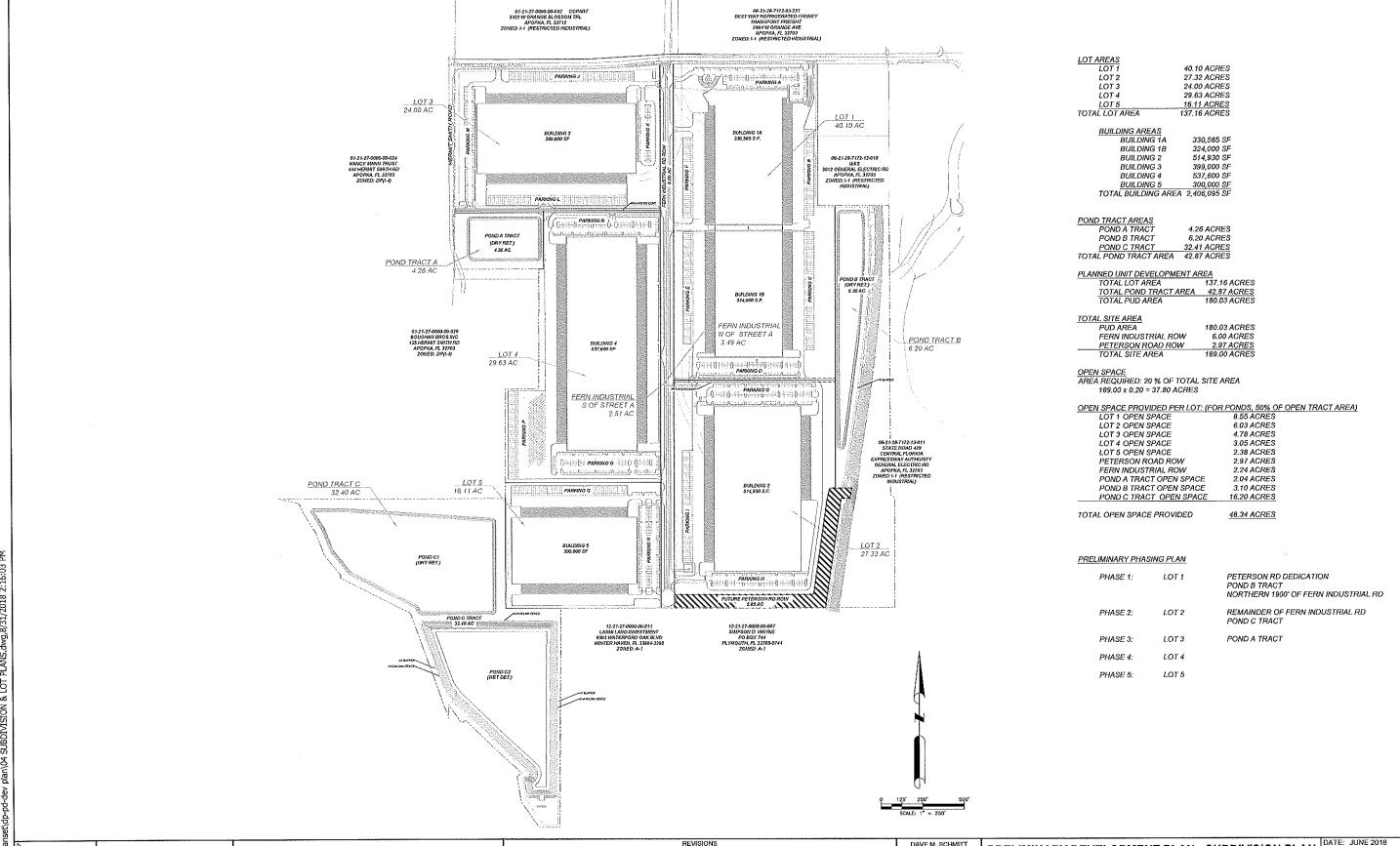
DATE BY 270 FLORIDA REG. NUMBER 48274

EXISTING CONDITION PLAN

MID-FLORIDA LOGISTICS PARK APOPKA, FLORIDA

DATE: JUNE 2018 PROJECT NO.: ANC-1 DRAWN BY: JL CHECKED BY: DSE SCALE:1" = 250' SHEET: 02 OF 18





DAVE SCHMITT ENGINEERING, INC. 12301 Lake Underhill Road Suite 241 ORLANDO, FL 32828 407-207-9088 FAX 407-207-9089 Certification of Authorization #27471

hereby state that these "As-Buits" were fundahed to me by the contractor Ested below. I, or an employee under my diffect uppervision have enviewed these "As-Buits" and televen them to be in compleance with my horselegie of what was extend, producted. This statement is based upon also observations of the construction.

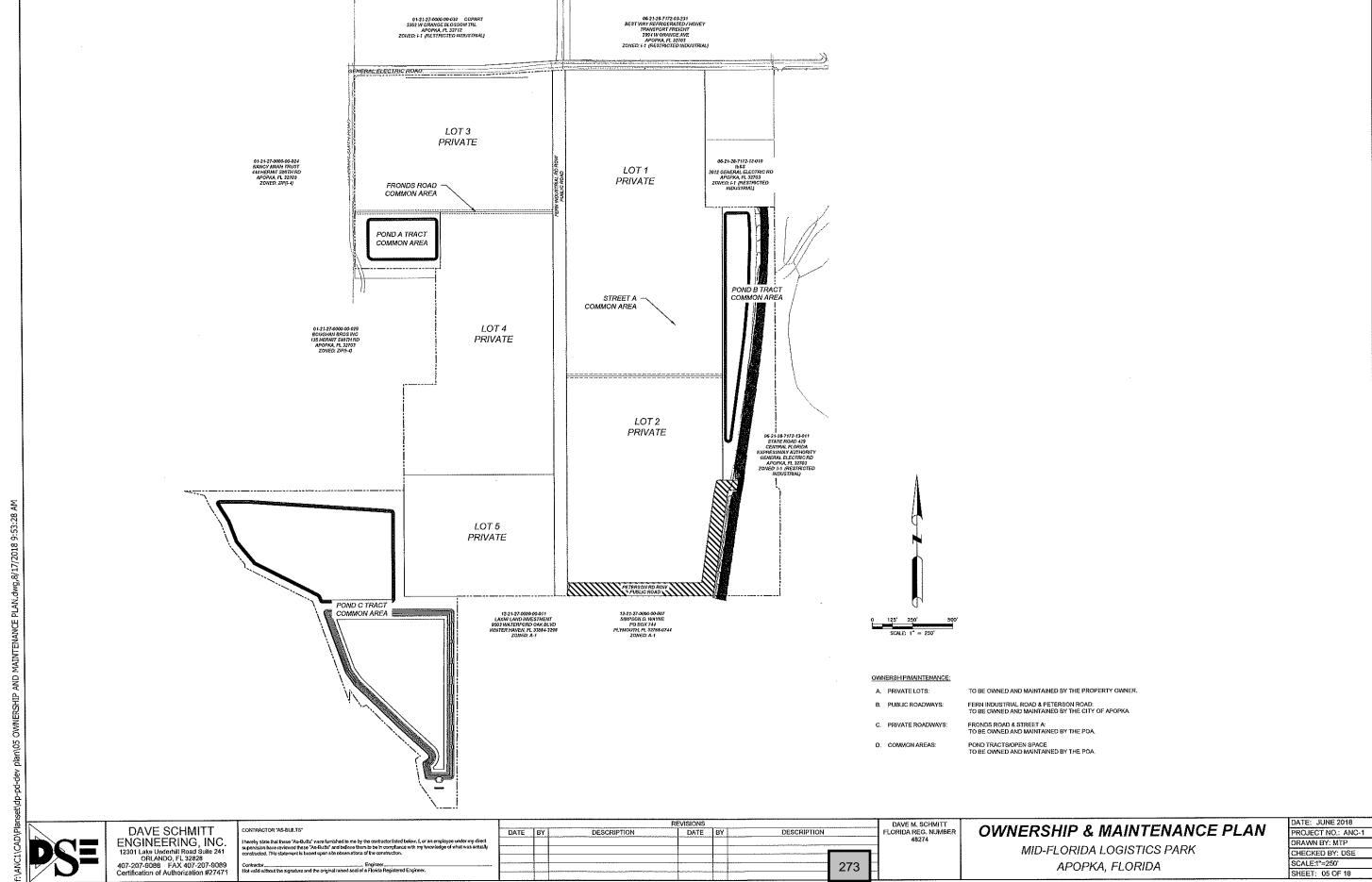
DESCRIPTION DESCRIPTION DATE BY 272

DAVE M. SCHMITT LORIDA REG, NUMBER

PRELIMINARY DEVELOPMENT PLAN - SUBDIVISION PLAN DATE: JUNE 2018 PROJECT NO.: ANC-1 MID-FLORIDA LOGISTICS PARK

APOPKA, FLORIDA

DRAWN BY: MTP CHECKED BY: DSE SCALE:1"=250'



273

DRAWN BY: MTP

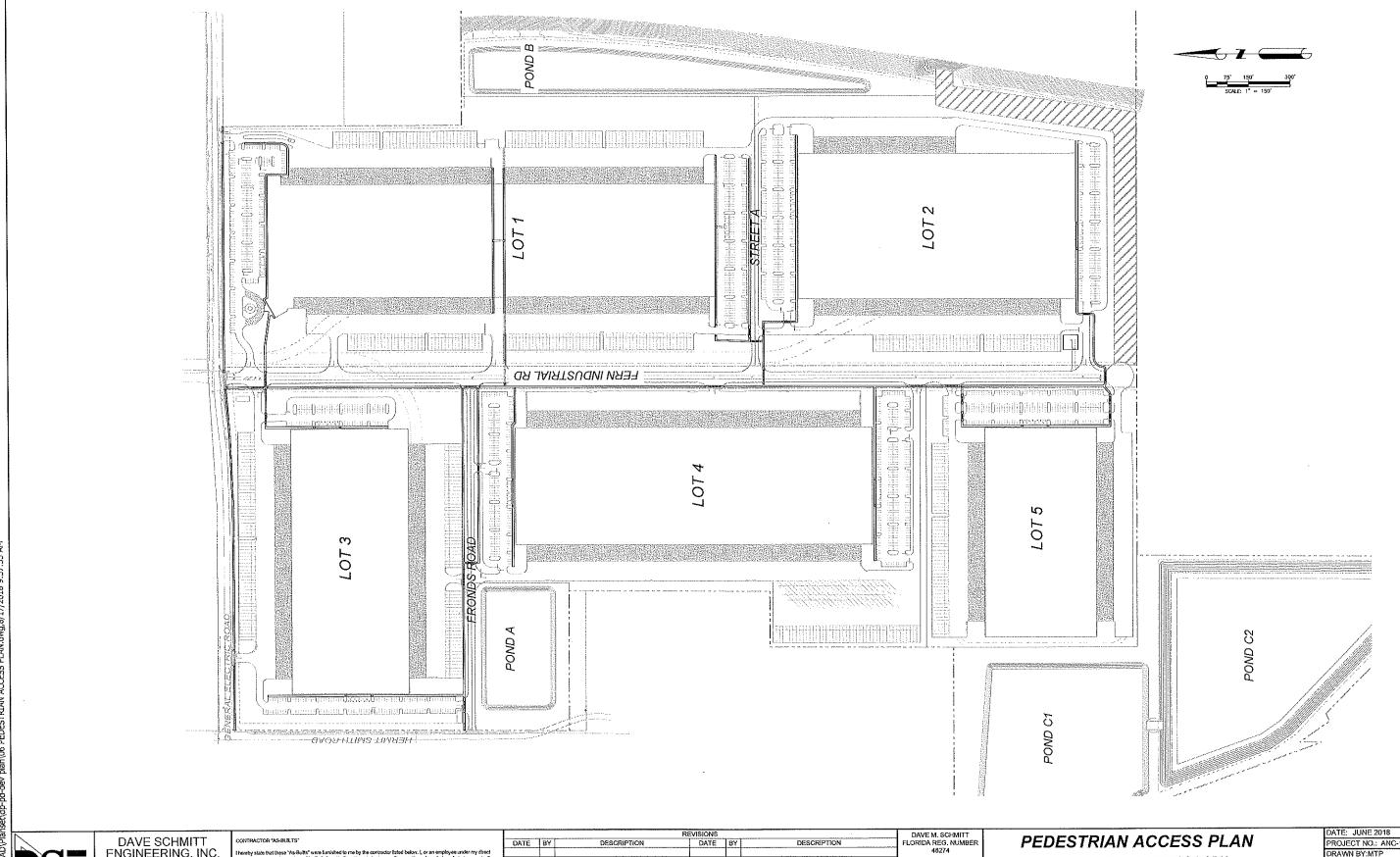
CHECKED BY: DSE

SCALE:1"=250'

MID-FLORIDA LOGISTICS PARK

APOPKA, FLORIDA

I hereby state that these "As-Buits" were furnished to me by the contractor Ested below. I, or an employee under my direct supervision have reviewed these "As-Buits" and belows them to be in compliance with my browledge of what was actually constructed. This statement is based upon also observations of the construction.



DESCRIPTION

DATE BY

DESCRIPTION

274

PEDESTRIAN ACCESS PLAN

MID-FLORIDA LOGISTICS PARK

APOPKA, FLORIDA

PROJECT NO.: ANC-1 DRAWN BY:MTP

CHECKED BY: DSE

SCALE:1"=250'

DAVE SCHMITT ENGINEERING, INC. 12301 Lake Underhill Road Suite 241 ORLANDO, FL 32823 407-207-9088 FAX 407-207-9089 Certification of Authorization #27471

LOT 1 PARCEL NUMBERS #06-21-28-7172-12-020 #06-21-28-7172-12-041

LOT 1 AREA 40.10 ACRES

OPEN SPACE REQUIRED: 20 % OF LOT AREA 40.10 x 0.20 = 8.02 ACRES

OPEN SPACE PROVIDED

LOT 1 OPEN SPACE 8.55 ACRES
POND B TRACT OPEN SPACE 3.10 ACRES

TOTAL OPEN SPACE 11.65 ACRES

BUILDING 1 AREA 654,565

PARKING REQUIRED: 0.89 SPACE PER 1,000 SF OF GROSS FLOOR AREA PARKING SPACES REQUIRED 583 SPACES

PARKING PROVIDED:

	PARKING AREA A	PARKING AREA B	PARKING AREA C	PARKING AREA D	PARKING AREA E	PARKING AREA F
		FANNING ANEA D	FAINNING AINEA C		7 747 WING 741 VE 71 E	I / II W W T W T W I E / I /
STANDARD SPACES	205	o	o	168	0	0
HANDICAP SPACES	6	0	0	6	0	0
TRUCK SPACES	_0	43	59		<u>_56</u>	<u>40</u>
SUBTOTAL	211	43	59	174	56	40

TOTAL PARKING SPACES 583



DEVIATIONS OF WAIVER REQUEST TABLE

KEY MAP

Code Number		Requested Modification	Justification	Location
6.03.02 A	Parking 2 spaces per 1,000 st of GFA up to 150,000 st oks 1 space per velicle operating on the premises or 2 spaces per employee and 1 space per 1,000 st over 150,000 st of GFA.	0 89 Space per 1,000 at of GFA	The ITE Parking Generation Manual, 4th Edition, 85th paceritie parking requirement for warehouse use is 0.81 spaces per 1,000 sf of GFA.	Entire Site
20201A	Building Height Maximum Building Height 35'	Masimum Bukting Height 55'	The modern warehouses require 36 to 45 of deer space under roof to accommodate automated materials handling equipment and maximite storage.	Ali Bulking
20215F	Buffer Yard Front 25', Sido 10', Rear 10' (30' Adjacent to Residented, 25' Road ROW	15' an GE Road, Hennil Smith Road to Main Enhance, 0710' Adjacent to SR 429, 10725' Adjacent to Peterson Road, 10' Adjacent to Fem Inclustrial	The northwestern portion of the site is constrained by the excreactment of GE Road. SR 429 has 200 of ROV, 6 lanes, and provides a -20 high barrier to adjacent property to the east.	North and Eas
20201BS b(8a)	Roof Top Screening Af roof top Af roof top equipment that be completely advent purporties and rights-drively to the maximum extent possible.	Roal top equipment shall be sorreaned from view from editional properly first unal guide fight of view, with the exception of SR 420 due to the large elements on the angular first shall be first the first of the elements of the red without of the first the first from the elements of the first of the fir	At buildings will have a site fine enableson to confer that rooting equipment will not be whole from operating and properties and ROOK.	Entire Sita
2.02.16.B2	Outdoor Vehicle	Longterm outdoor vehicle (bus, cas, cab, and truck) storage and terminal is a permitted use within the PUD.	Increased business flexibility. Permitted vehicle storage will be screened from the ground.	Entre Site
6.02.09	Sidewalk Location Budd idehaulks on both sides of public streets	Build sidewalk only on the west side of Fern Industrial Orine.	We are requesting that we do not place a ablewer on the cast size of the ROV provincials to the roll again. The production access plan and the roll again. The production access plan and the roll again, and the roll again and the roll again, and the roll again and the roll again and the roll again access religious religio	Eniro Sko

NOTE: THIS PROJECT WILL CONFORM TO ALL REQUIREMENTS OF I-1 ZONING WITH THE EXCEPTION OF THE DEVIATIONS NOTED ON THE DEVIATION TABLE.

DAVE SCHMITT ENGINEERING, INC. 12301 Lake Underhill Road Suite 241 ORLANDO, FL 32828 407-207-9088 FAX 407-207-9089 Certification of Authorization #27471

CONTRACTOR "AS-BULL'S"

Thereby stalls that these "As-Builds" were furnished to me by the contractor fated below. I, or an employee under my direct upper size in have reviewed these "As-Builds" and before them to be in compliance with my knowledge of what was actually constructed. This softened it is based upon also observations of the construction.

Contractor

Engineer

DATE BY DESCRIPTION DATE BY DESCRIPTION

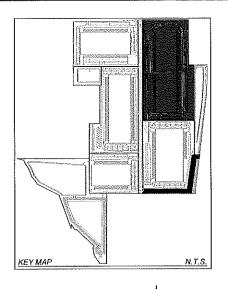
275

DAVE M. SCHMITT FLORIDA REG. NUMBER 48274

LOT 1 PLAN

MID-FLORIDA LOGISTICS PARK APOPKA, FLORIDA DATE: JUNE 2018
PROJECT NO.: ANC-1
DRAWN BY: MTP
CHECKED BY: DSE
SCALE:1"=100"
SHEET: 07 OF 18

N.T.S.





DSE

DAVE SCHMITT ENGINEERING, INC. 12301 Lake Underhill Road Suite 241 ORLANDO, FL 32828 407-207-9088 FAX 407-207-9089 Certification of Authorization #27471

bereby state that see "As-Builds" were furnished to me by the contractor Ested below. I, or an employee under my direct persention have treatment flesse "As-Builds" and believe them to be in compliance with my bromkedge of a half was actually outstanded. This statement is based upon other observations of the construction.

Emphreor

Of valid without this signature and the original raised seal of a Findria Registered Engineer. DATE BY DESCRIPTION DATE BY DESCRIPTION

276

DAVE M. SCHMITT FLORIDA REG. NUMBER 48274

LOT 1 PRELIMINARY GRADING PLAN MID-FLORIDA LOGISTICS PARK APOPKA, FLORIDA DATE: JUNE 2018
PROJECT NO.: ANC-1
DRAWN BY:MTP
CHECKED BY: DSE
SCALE: 1°=100'
SHEET: 08 OF 18

LOT 2 PARCEL NUMBERS #06-21-28-7172-12-060 #06-21-28-7172-13-000

LOT 2 AREA 27.32 ACRES

OPEN SPACE REQUIRED: 20 % OF USABLE LOT AREA 27.32 x 0.20 = 5.46 ACRES

OPEN SPACE PROVIDED LOT 2 OPEN SPACE

LOT 2 OPEN SPACE 6.03 ACRES 1/3 OF POND C TRACT OPEN SPACE 5.40 ACRES

TOTAL OPEN SPACE 11.43 ACRES

BUILDING 2 AREA 514,930 SF

PARKING REQUIRED: 0.89 SPACE PER 1,000 SF OF GROSS FLOOR AREA PARKING SPACES REQUIRED 458 SPACES

 PARKING PROVIDED:
 PARKING AREA G
 PARKING AREA H
 PARKING AREA I

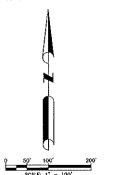
 STANDARD SPACES
 231
 159
 0

 HANDICAP SPACES
 6
 6
 0

 TRUCK SPACES
 0
 0
 56

 SUBTOTAL
 237
 165
 56

TOTAL PARKING SPACES 458



DEVIATIONS OF WAIVER REQUEST TABLE

KEY MAP

Code Number	Code Requirement	Requested Modification	Justification	Location
5.03.02 A	Parking 2 spaces per 1,000 af of GFA up to 150,000 sf plus 1 space per verticle operating on the premises or 2 spaces per employee and 1 space per 1,000 sf over 150,000 sf of GFA.	0.69 Space per 1,000 at at GFA	The ITE Parking Generation Manual. 4th Edition, 65th parteritie parking requirement for waterbose use is 0.81 spaces per 1,000 st of GFA.	Entire São
2.02.01 A	Building Height Maximum Building Height 35'	Maximum Bulding Heigh 55'	The modern warehouses require 36 to 45° of clear space under roof to accommodate actomated melerials handing equipment and maximize storage.	Al Bulding
2.02.16F	Buffer Yard Front 25', Side 10', Rear 10' (30' Adjacent to Residential), 25' Road ROW	15' on GE Road, Hennit Smith Road to Main Entrance, 0710' Adjacent to SR 429, 1078' Adjacent to Peterson Road, 10' Adjacent to Fern Industrial	The porthwestern portion of the site is constrained by the excensioned of GE Road. SR 429 has 300' of ROV, 6 lains, and provides a -20' high barrier to adjacent property to the east.	North and Eas
2.02.01 BS b(3a)	Roof Top Screening At roof log eyipment shell be screened from edizered properties and rights of way to the maximum extent possible.	Roof top equipment shall be screened brow low from educal properly like and public rights drivery, with the acception of SR 420 date to the lurge shreaten sharper of the motivary and survivers and the state of the 15%, apparaturably 20% shows the first shed from ineight of Bulkfurg 2. Screening shall be missimed to be in conformance by the Subdivision . President and the City of Apopla. Screening shall be missimed through a styll the discussed from the continuous states of the state of the control of the state of the state of the state of the state of the state of the the state of the state of the the the state of the state the the the state of the the the the state of the the the the the the the the	All buddings will have a site fire whitestors to confirm that sooting equipment will not be vipible from adjacent propession and ROVE.	Eráše Sde
2.02.16 BZ	Outdoor Vehicle	Longterm outdoor vehicle (bus, car, cab, and buck) storage and terminal is a permitted use within the PUD.	Increased business flexibility. Permitted vehicle storage will be screened from the ground.	Entire Site
5.02.08	Sidewalk Location Build sidewalks on both sides of pulls atreals	Build sidewalk only on the west side of Fern Industrial Device.	We are requesting that we do not place a stätewsk on the cent state of the FLOV province to the red state of the FLOV province to the red state. The podestire access place and the red state of the FLOV state of the FLOV state of the FLOV state of the red state of the FLOV state of the red state of Fern Industrial is the spine connecting the southern end of the state of Fern Industrial is the spine connecting the southern end of the state of the state of Fern Industrial is the spine connected to this buildings are connected to the state of the spine and the appropriate crosswalls are approximately state on the state of the	Erdire Site

HOTE: THIS PROJECT WILL CONFORM TO ALL REQUIREMENTS OF I-1 ZONING WITH THE EXCEPTION OF THE DEVIATIONS NOTED ON THE DEVIATION TABLE.

DSE

DAVE SCHMITT
ENGINEERING, INC.
12301 Lake Underhill Road Suite 241
ORLANDO, FL 32828
407-207-9088 FAX 407-207-9089
Certification of Authorization #27471

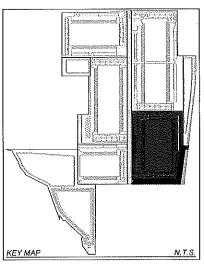
DATE BY DESCRIPTION DATE BY DESCRIPTION

DAVE M. SCHMITT FLORIDA REG. NUMBER 48274

LOT 2 PLAN

MID-FLORIDA LOGISTICS PARK APOPKA, FLORIDA DATE: JUNE 2018
PROJECT NO.: ANC-1
DRAWN BY: MTP
CHECKED BY: DSE
SCALE:1"=100'
SHEET: 09 OF 18

N.T.S.





DAVE SCHMITT ENGINEERING, INC. 12301 Lake Underhill Road Suite 241 ORLANDO, FL 32828 407-207-9088 FAX 407-207-9089 Certification of Authorization #27471

DESCRIPTION DESCRIPTION DATE BY 278

DAVE M, SCHMITT FLORIDA REG. NUMBER 48274

LOT 2 PRELIMINARY GRADING PLAN MID-FLORIDA LOGISTICS PARK APOPKA, FLORIDA

DATE: JUNE 2018 PROJECT NO.: ANC-1 DRAWN BY:MTP CHECKED BY: DSE

LOT 3 PARCEL NUMBERS #01-21-27-0000-00-060

LOT 3 AREA 24.00 ACRES

OPEN SPACE REQUIRED: 20 % OF USABLE LOT AREA

OPEN SPACE PROVIDED

4.78 ACRES 2.04 ACRES LOT 3 OPEN SPACE POND A TRACT OPEN SPACE

TOTAL OPEN SPACE 6.82 ACRES

399,000 SF **BUILDING 3 AREA**

PARKING REQUIRED: 0.89 SPACE PER 1,000 SF OF GROSS FLOOR AREA PARKING SPACES REQUIRED 355 SPACES

PARKING AREA J

PARKING AREA K 90 6 PARKING AREA M 128 6 STANDARD SPACES HANDICAP SPACES TRUCK SPACES SUBTOTAL

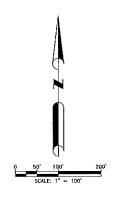
TOTAL PARKING SPACES 355

DEVIATIONS OF WAIVER REQUEST TABLE

KEY MAP

PARKING AREA L

N.T.S.



Code Number		Requested Modification	Justification	Location
6.03.02 A	Parking 2 spaces per 1,000 st of GFA up to 150,000 st plus 1 space per vehich operating on the premises or 2 spaces per employee and 1 space per 1,000 st over 150,000 st of GFA.	0.89 Space per 1,000 st of GFA	The ITE Parking Generation Manual, 4th Ection, 65th percential parking requirement for warehouse tree is 0.81 spaces per 1,000 sf of GFA	Ectiva Sãa
20201A	Building Height Ataximum Buiking Height 35'	Maximum Builderg Height 55'	The modern werehouses require 35' to 45' of clear space under roof to accommodate automated in all properties automated materials banding equipment and materials storage.	AJ Buking
20215F	Buffer Yard Front 25', Side 18', Rear 10' (30' Adjacent to Residential, 25' Road ROSY	15' on GE Road, Hermä Smith Road to Main Entrance, 0'/10' Adjacent to SH 429, 10'/25' Adjacent to Peterson Road, 10' Adjacent to Fern Industrial	The northwestern portion of the site is constrained by the encountered of GE Road, SR 429 has 300° of ROV, 6 kines, and provides a -20° high barrier to adjacent property to the east.	Nonth and Eas
2.02.01 BS b(86)	Roof Top Screening AF roof top	Roof top equipment shall be screened from view from adjusted registra-drawy, with the exception of SR 429 take to the large elevation phases of the top the large elevation phases of the modern force elevation of the and the first and flow elevation of the modern of the modern of the state o	All buildings will have a she line evaluation to confirm that routing equipment will not be visible from edicate properties and ROVE.	Ertine São
2.02.16.B2	Outdoor Vehicle	Longterm outdoor vehicle (bus, car, ceb, and truck) storage and terminal is a permitted use within the PUD.	increased business flexibility. Permitted vehicle storage will be screened from the ground.	Entire Site
6.02.08	Sidewalk Location Bulist sidewalks on both sides of public streets streets	Bušš pidenauli cný or the vest side of Fern Industrial Deive.	We are requesting that we do not place a sidewask on the control place as sidewask on the control place as a sidewask on the control place. The podestitian access plan punkéed on Sheef & of the PUD Measter Plan at house a network of pedastinian facelities serving extins this. The sidewark or the near sidewark compositing than southern end of the sidewark with GE Road All buildings are connected to this north-boards against a substrate a personable crosswalls are provided after a reached. We provided after a reached with place and the provided after a reached with place and the provided after a reached with place and the provided place place the provided place place and the provided place place and the p	Entire São

THE EXCEPTION OF THE DEVIATION'S NOTED ON THE DEVIATION TABLE.

LOT 3 PLAN

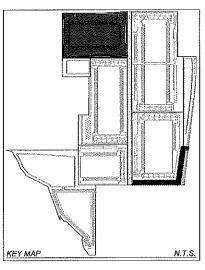
MID-FLORIDA LOGISTICS PARK APOPKA, FLORIDA

DATE: JUNE 2018 PROJECT NO.: ANC-1 DRAWN BY: MTP CHECKED BY: DSE SCALE:1"== 100" SHEET: 11 OF 18

DAVE SCHMITT ENGINEERING, INC. 12301 Lake Underhill Road Suite 241 ORLANDO, FL 32828 407-207-9088 FAX 407-207-9089 Certification of Authorization #27471

DATE BY DESCRIPTION DATE BY 279

DAVE M. SCHMITT FLORIDA REG. NUMBER 48274





DATE BY DATE BY 280

DAVE M. SCHMITT FLORIDA REG. NUMBER 48274

LOT 3 PRELIMINARY GRADING PLAN MID-FLORIDA LOGISTICS PARK APOPKA, FLORIDA

DATE: JUNE 2018 PROJECT NO.: ANC-1 DRAWN BY:MTP CHECKED BY: DSE SCALE: 1"=100'

PRIVATE RD ESMT

LOT 4 PARCEL NUMBERS #01-21-27-0000-00-060 #01-21-27-0000-00-030

LOT 4 AREA 29.63 ACRES

OPEN SPACE REQUIRED: 20 % OF USABLE LOT AREA 29.63 x 0.20 = 5.93 ACRES

OPEN SPACE PROVIDED
LOT 4 OPEN SPACE
\$\frac{1}{3} OF POND 3 & 4 OPEN SPACE 5.40 ACRES

TOTAL OPEN SPACE 8.45 ACRES

BUILDING 4 AREA 537,600 SF

PARKING REQUIRED: 0.89 SPACE PER 1,000 SF OF GROSS FLOOR AREA PARKING SPACES REQUIRED 478 SPACES

PARKING PROVIDED:

	PARKING AREA N	PARKING AREA O	PARKING AREA P
STANDARD SPACES	160	216	0
HANDICAP SPACES	6	6	0
TRUCK SPACES	_0	_0	90
SUBTOTAL	166	222	90

TOTAL PARKING SPACES 478



DEVIATIONS OF WAIVER REQUEST TABLE

KEY MAP

ode Number	Code Requirement	Requested Modification	Justification	Locatio
6.03.02 A	Parking 2 spaces per 1,000 st of GFA top to 150,000 st plus 1 space per vehicle operating on the premises or 2 spaces per employee and 1 space per 1,000 st over 150,000 st of GFA.	0.83 Space per 1.000 st of GFA	The ITE Purking Generation Manual, 4th Edition, 85th percertile parking requirement for wanthouse use to 8 of 1 spaces per 1,000 st of GFA.	Entire São
20201A	Building Height Alaximum Buiting Height 35'	Maximum Buöding Heigh 55'	The modern werehouses require 36 to 45 of deer space under roof to accommodate automated materials handing equipment and maximize storage.	All Bulkdin
20215F	Butler Yard Front 25', Side 10', Rear 10' (30' Adjacent to Residentia), 25' Road ROW	15 on GE Road, Hermit Smith Road to Main Entrance, 0/10' Adjacent to SR 429, 10/25' Adjacent to Peterson Road, 10' Adjacent to Fern Industrial	The northwostern portion of the site is constrained by the encounterment of GE Road, SR 429 has 300° of ROM, 6 laces, and provides a ~20° high buries to adjacent property to the east.	Korth and Es
2.02.01 BS b(8a)	Roof Top Screening Af nod top edipment shall be economic than be screened from adscent properties and rights-of-way to the maximum extent possible.	Roof top equipment shall be screened from view from educate properly the and public rights-of-view, with the exception of SR 429 days to 50 Meyer and public rights-of-view, with the exception of SR 429 days to 50 Meyer and the state of the	At buildings will have a site firm evaluation to confirm that resulting equipment and and to be visible from adjacent properties and ROW.	Entre São
2.02.16 B2	Gutdoor Vehicle	Longterm outdoor vehicle (bus, car, cab, and truck) storage and terminal is a permitted use within the PUD.	Increased business flexibility. Permitted vehicle storage will be screened from the ground.	Erdin Ste
6.02.08	Sidewalk Location Build sidewalks on both sides of public streets	Build indewalk only can the west cide of Fern included Drive.	We are requesting that we do not please a skinned on the not please as did of the ROW proximate to the not state of the ROW proximate to the not state of the ROW proximate to the not specification access plan provided on threat 6 of the provided on the state of the ROW has a serving entire that The state of the stat	Esties Ste

NOTE: THIS PROJECT WILL CONFORM TO ALL REQUIREMENTS OF 14 ZONING WITH THE EXCEPTION OF THE DEVIATIONS NOTED ON THE DEVIATION TABLE.

LOT 4 PLAN

MID-FLORIDA LOGISTICS PARK APOPKA, FLORIDA

DATE: JUNE 2018 PROJECT NO.: ANC-1 DRAWN BY: MTP CHECKED BY: DSE SCALE:1"=100" SHEET: 13 OF 18

N.T.S.

DAVE SCHMITT ENGINEERING, INC. 12301 Lake Underhill Road Suite 241 ORLANDO, FL 32828 407-207-9088 FAX 407-207-9089 Certification of Authorization #27471

hereby state that these "As-Buita" were furnished to me by the contractor Ested below. I, or an employee under my direct supervision have reviewed these "As-Buits" and believe them to be in compliance with my funchinge of what was actually contracted. This subtrement is based upon size observations of the constituction.

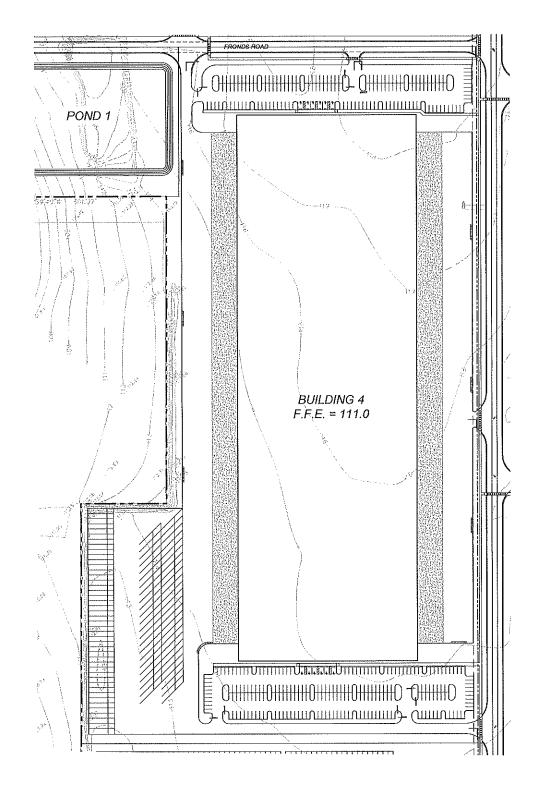
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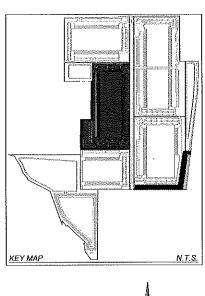
281

DESCRIPTION

DAVE M, SCHMITT FLORIDA REG. NUMBER

48274







I hereby state that these "As-Buits" were furnished to me by the contractor fated below, 1, or an employee supervision have reviewed those "As-Buits" and befere them to be in compliance with my knowledge of a constructed. This statement is based upon site observations of the construction.

DESCRIPTION DESCRIPTION DATE BY DATE 8Y

DAVE M. SCHMITT FLORIDA REG. NUMBER 48274

282

LOT 4 PRELIMINARY GRADING PLAN MID-FLORIDA LOGISTICS PARK APOPKA, FLORIDA

DATE: JUNE 2018 PROJECT NO.: ANC-1 DRAWN BY:MTP CHECKED BY: DSE SCALE: 1"=100'

LOT 5 PARCEL NUMBERS #12-21-27-0000-00-010 #12-21-27-0000-00-0315

LOT 5 AREA

16.11 ACRES

OPEN SPACE REQUIRED: 20 % OF USABLE LOT AREA 16.11 x 0.20 = 3.22 ACRES

OPEN SPACE PROVIDED LOT 5 OPEN SPACE

2.37 ACRES \$ OF POND 3 & 4 OPEN SPACE 5.40 ACRES

TOTAL OPEN SPACE 6,77 ACRES

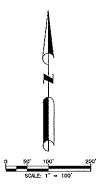
BUILDING 5 AREA

300,000 SF

PARKING REQUIRED: 0.89 SPACE PER 1,000 SF OF GROSS FLOOR AREA PARKING SPACES REQUIRED 267 SPACES

PARKING PROVIDED:	PARKING AREA Q	PARKING AREA R
STANDARD SPACES	0	203
HANDICAP SPACES	0	6
TRUCK SPACES	58	_0
SUBTOTAL	58	209

TOTAL PARKING SPACES 267





KEY MAP

Code Humber		Requested Madification	Justification	Locati
6.03.02 A	Parking 2 spaces per 1,000 at of GFA up to 150,000 st plus 1 space per vehicle operating on the premises or 2 spaces per employee and 1 space per 1,000 st over 150,000 st of GFA.	0.89 Space per 1,000 at at GFA	The ITE Parking Generation Manual, 4th Edition, 65th percertike pathing requirement for wavefususe use is 0.81 spaces per 1,000 st of GFA.	Eritro Site
2.02.01 A	Building Height Maximum Buikling Height 35	Maximum Buköng Height 55'	The modern warehouses require 35' to 45' of dear space under roof to accommodate eutomated meterists handling equipment and maximize storage.	Al Bukki
20215F	Buffer Yard Front 25', Side 10', Rear 10' (30' Adjacent to Residential), 25' Road ROW	15' on GE Road Hermit Smith Road to Main Entrance, 0710' Adjacent to SR 429, 10725' Adjacent to Pelerson Road, 10' Adjacent to Fern Industrial	The northwestern portion of the site is constrained by the exceedament of GE Road. SR 429 has 300' of ROV, 6 Ares, and provides a -20' high barrier to edjecent property to the east.	North and Ed
2.02.01 BS b(8a)	Roof Top Screening All roof top equipment also be equipment also be exemped from achiever properties and rights-of-way to the maximum extent possible.	Roal top equipment shall be screened from view from ediposed properly fire and public fields of one, with the acception of \$37.420 to see to the large development of \$78.420 to see to the large development of the modeling and building. \$37.420 in at an intendition of \$133, appointmently \$27 though the first hard from height of fluidding. \$2.50 towering shall be minimated building. \$2.50 towering shall be minimated to be it conformance by the Subchiston Frankford und the City of Apopla. Screening shall be minimated to the conformance of the Subchiston of the Subchi	As buildings will have a she fine evolution to confirm that moting equipment will not be viable from edge-car properties and ROVI.	Erstin Site
2.02.16.B2	Outdoor Vehicle	Longterm outdoor vehicle (bus, car, cab, and truck) storage and terminal is a permitted use within the PUD.	Increased business flexibility. Permitted vehicle storage will be screened from the ground.	Entir São
6.02.08	Sidewalk Location Build addressits on keth sides of public streets	Build sidewalk only on the vest side of Fern Industrial Orine.	We are sequesting that two do not place a sidewark on the cest side of the ROIV positions to be an at side of the ROIV positions to be not all against the pedestine access plan provided on Street 6 of the PUD Makes Plan strong a sensing extire tab. The sidewark on the west side of Fern Industrial is the appreciate to the sidewark on the west side of Fern Industrial is the appreciate concentry the southern end of the side with CE Road All the contributions to the way to the period to the sidewark on the west side of the sidewark on the way to the part of the sidewark with CE Road All the sidewark of the sidewark with CE Road All the order to the sidewark with the sidewark of the appropriate cross-ranks are appropriate cross-ranks are appropriate cross-ranks are appropriate cross-ranks are to sidewark with the provided these and to sidewark with the provided part of the Indexnal and I sidewark company to the Indexnal and I sidewark company to the productions to the sidewark company to the sidewark con	Enth Site

NOTE: THIS PROJECT WILL CONFORM TO ALL REQUIREMENTS OF I-1 ZONING WITH THE EXCEPTION OF THE DEVIATIONS NOTED ON THE DEVIATION TABLE.

MID-FLORIDA LOGISTICS PARK APOPKA, FLORIDA

DATE: JUNE 2018 LOT 5 PLAN

plan\04 SUBDIVISION & LOT PLANS.dwg,8/31/2018 2:16:03 PM

DAVE SCHMITT ENGINEERING, INC. 12301 Lake Underhill Road Suite 241 ORLANDO, FL 32828 407-207-9088 FAX 407-207-9089 Certification of Authorization #27471

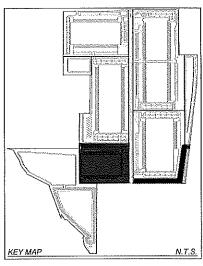
DESCRIPTION DESCRIPTION DATE BY 283

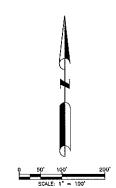
48274

DAVE M. SCHMITT FLORIDA REG. NUMBER

PROJECT NO.: ANC-1 DRAWN BY: MTP CHECKED BY: DSE SCALE:1"=10' SHEET: 15 OF 18

N.T.S.





DAVE SCHMITT ENGINEERING, INC. 12301 Lake Underhill Road Suite 241 ORLANDO, FL 32828 407-207-9088 FAX 407-207-9089 Certification of Authorization #27471

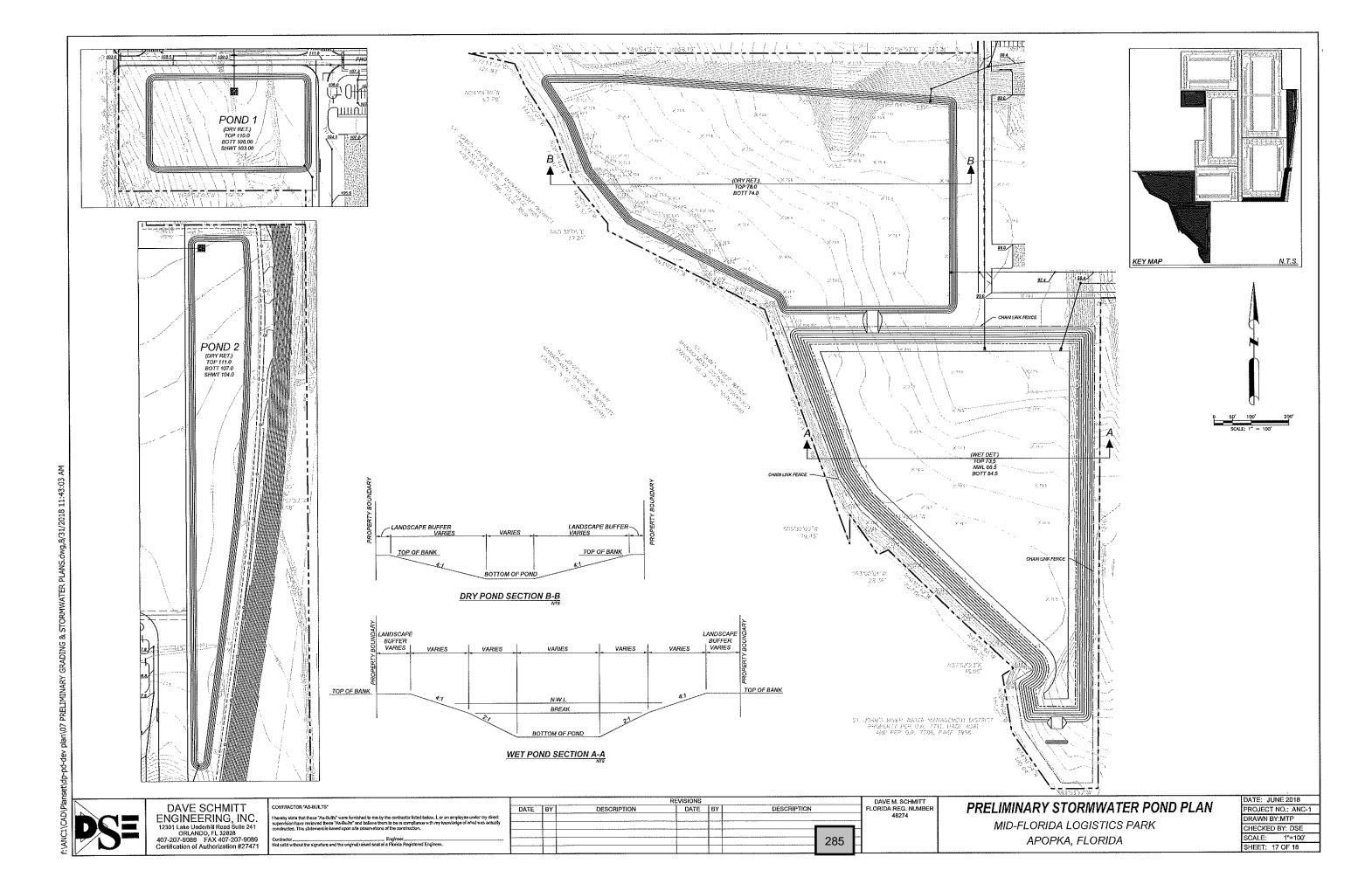
I hereby state that these "As-Buits" were furnished to me by the contractor fated below. I, or an employee under my direct supervision have travemed base "As-Buits" and believe them to be in compliance with my transholge of what was actually constructed. This statement is based upon also deservations of the combustion.

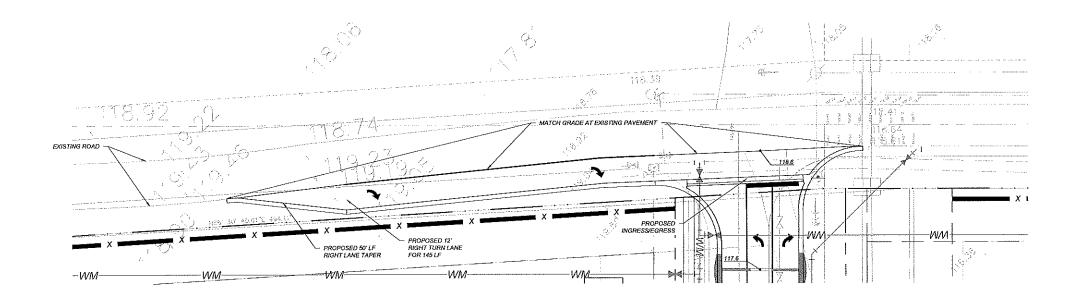
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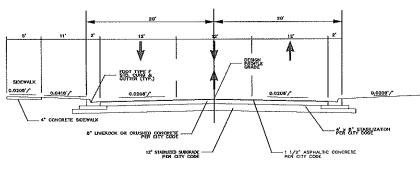
DAVE M. SCHMITT FLORIDA REG. NUMBER 48274

LOT 5 PRELIMINARY GRADING PLAN MID-FLORIDA LOGISTICS PARK APOPKA, FLORIDA

DATE: JUNE 2018 PROJECT NO.: ANC-1 DRAWN BY:MTP CHECKED BY: DSE SCALE: 1"=100" SHEET: 16 OF 18







TYPICAL SECTION
(FERN INDUSTRIAL DRIVE)

DAVE SCHMITT
ENGINEERING, INC.
12301 Lake Underhill Road Suite 241
ORLANDO, FL 32828
407-207-9088 FAX 407-207-9089
Certification of Authorization #27471

REVISIONS DATE BY 286 DAVE M, SCHMITT FLORIDA REG, NUMBER 48274

GE ROAD OFFSITE IMPROVEMENTS

MID-FLORIDA LOGISTICS PARK APOPKA, FLORIDA

	DATE: JUNE 2018				
	PROJECT NO.: ANC-1				
	DRAWN BY:MTP CHECKED BY: DSE				
	SCALE: 1"=20'				
	SHEET: 18 OF 18				

PRELIMINARY LANDSCAPE PLANS

MID-FLORIDA LOGISTICS PARK

CITY OF APOPKA, FLORIDA

SHEET INDEX

C-100	COVER SHEET	L-102	LANDSCAPE PLAN
K-100	MASTER KEY PLAN	L-103	LANDSCAPE PLAN
L-100	OVERALL BUFFER PLAN & DETAILS	L-104	LANDSCAPE PLAN
L-101	LANDSCAPE PLAN	L-105	LANDSCAPE PLAN
L-101	EANDSCAFE FEAN	L-106	RETENTION POND LANDSCAPE PLAN



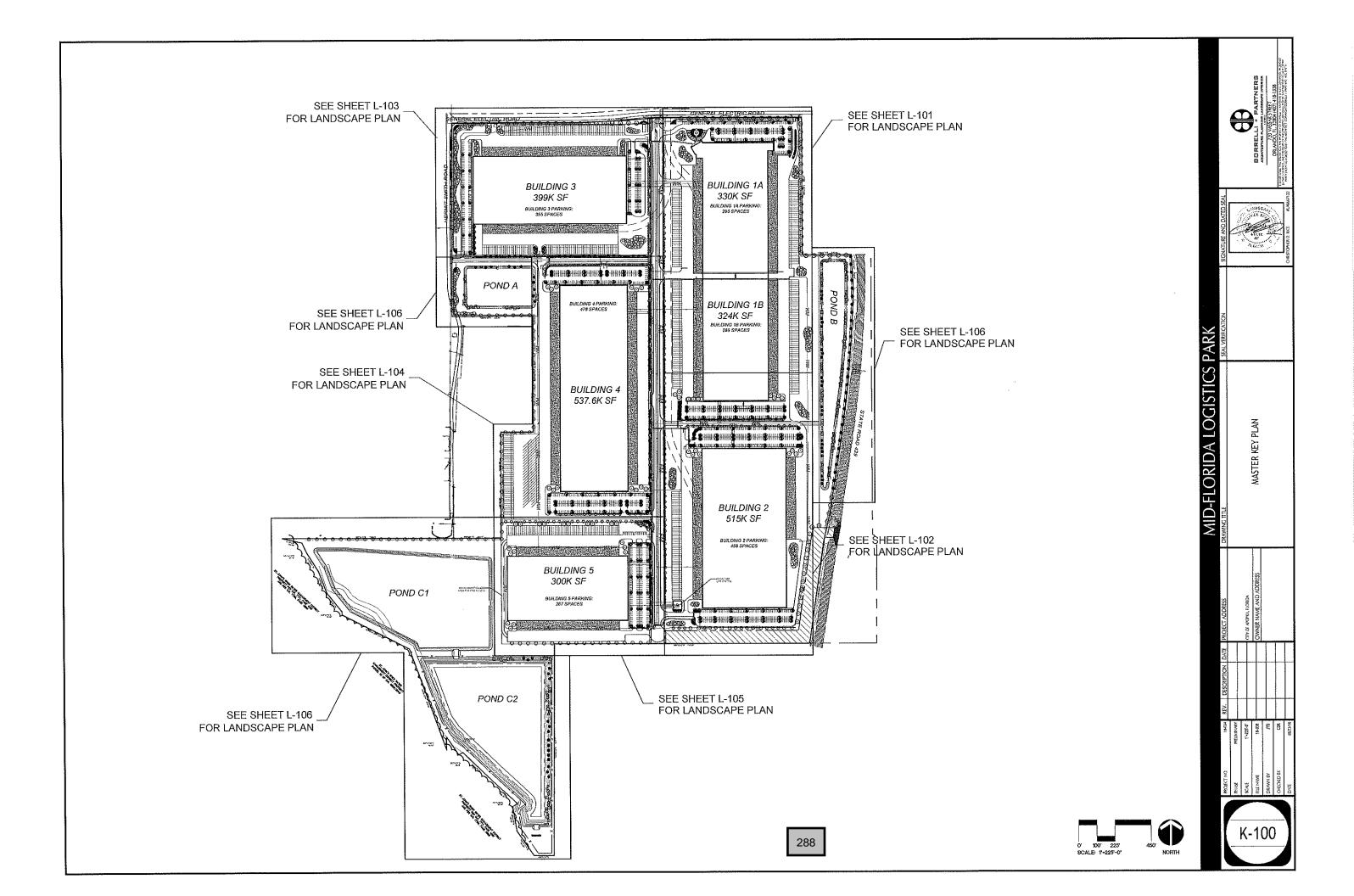


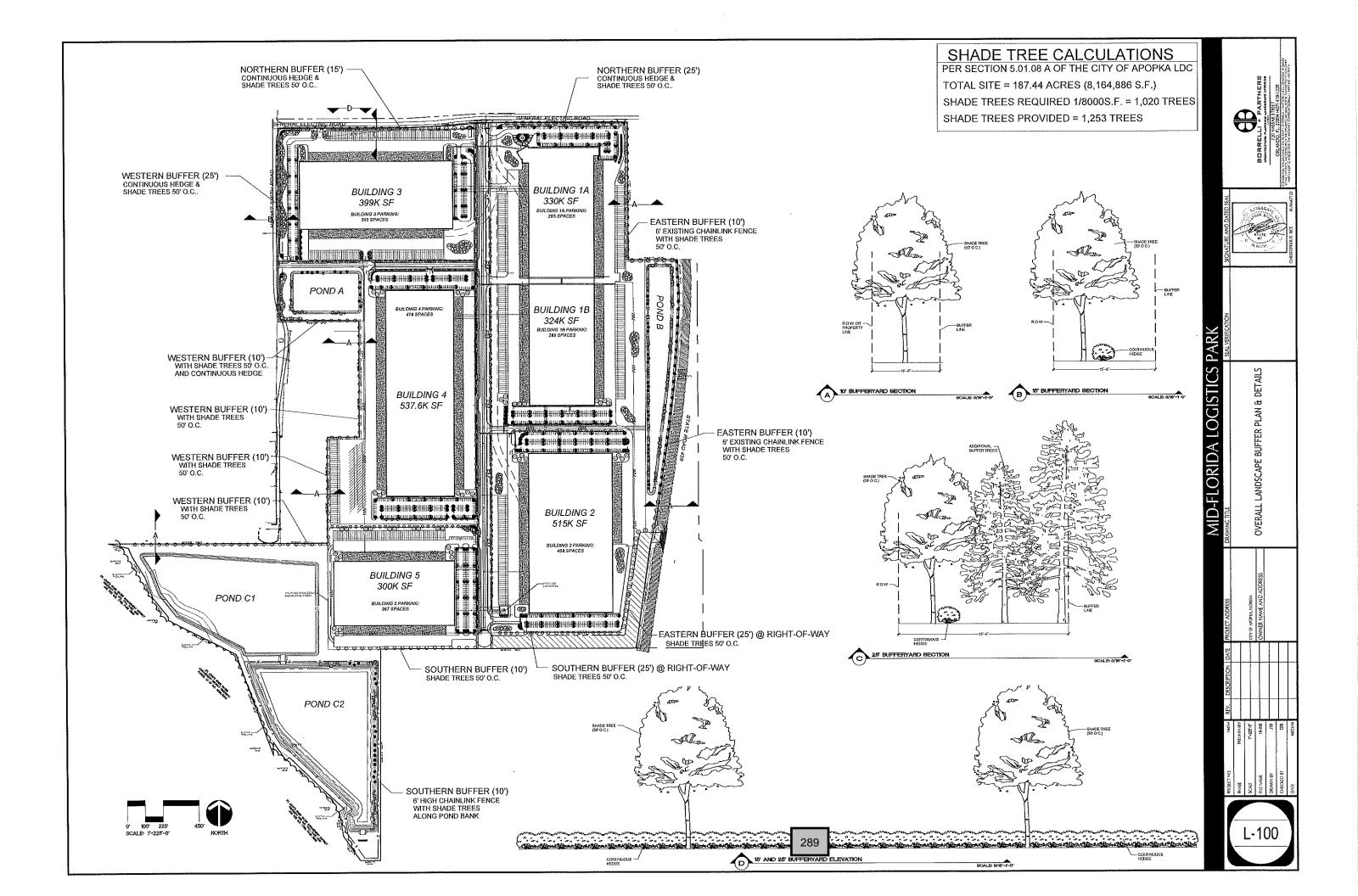
L VRIEGATION

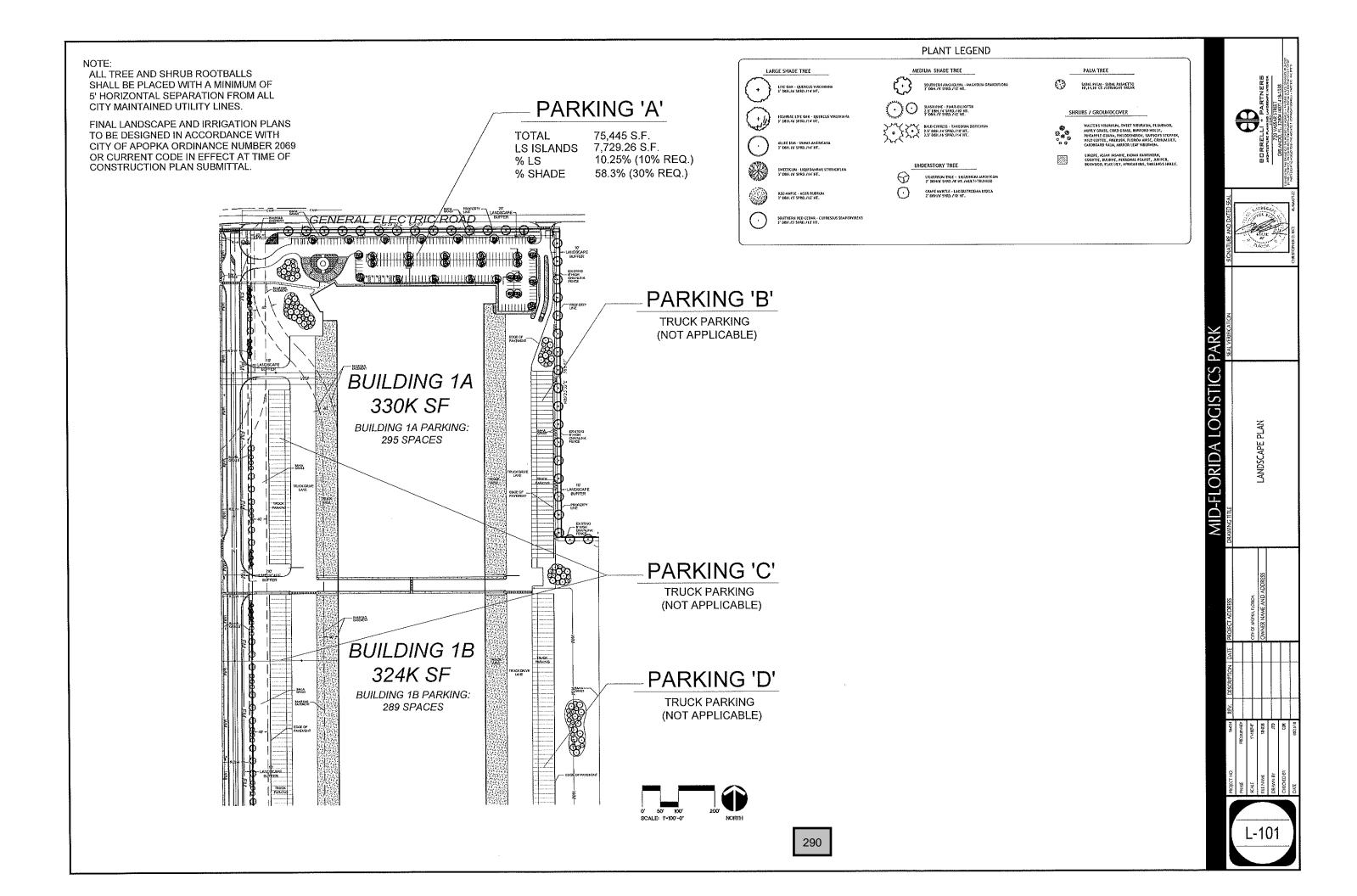
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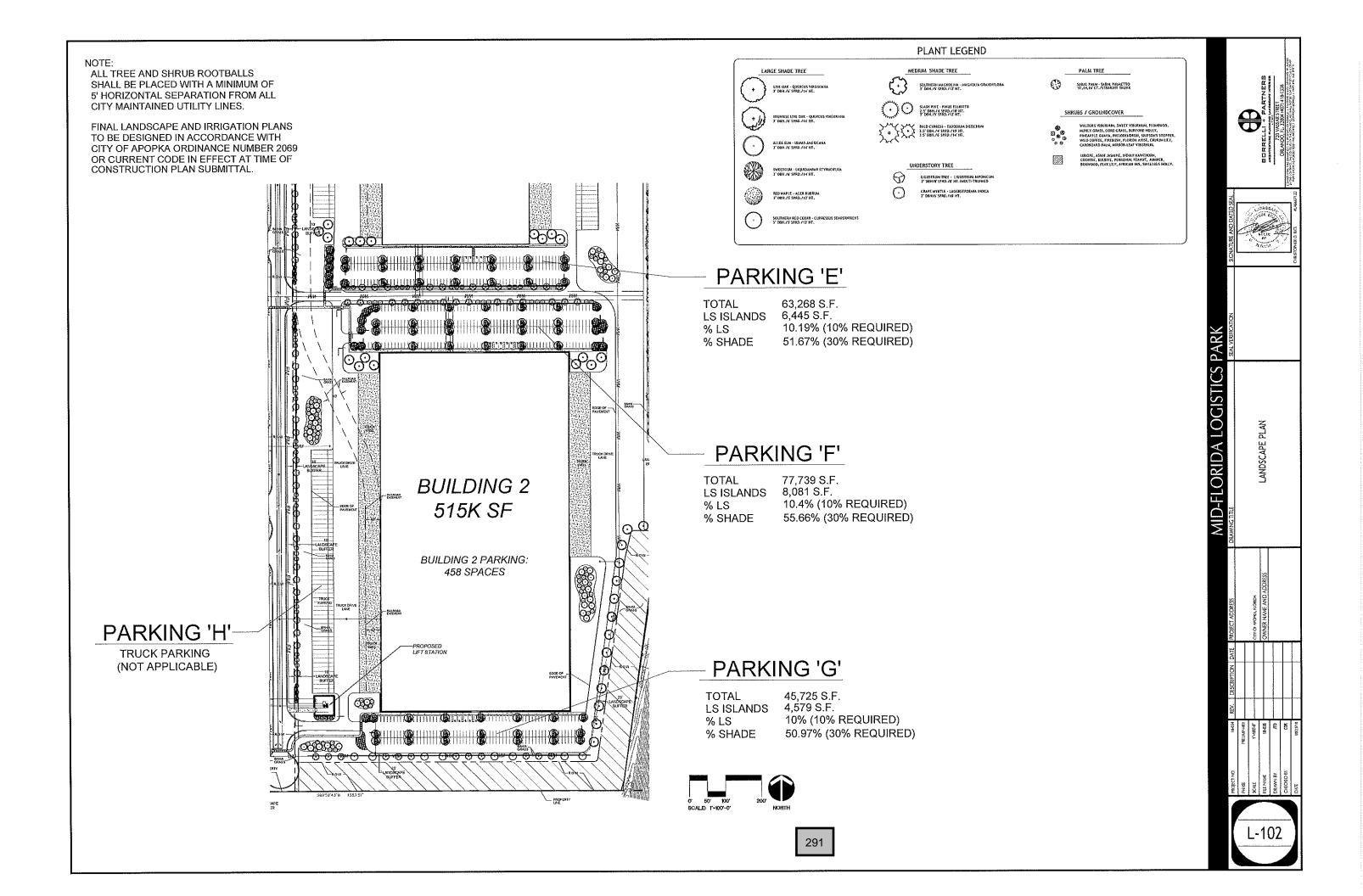
DESCRIPTION | DATE | PROJECT ADDRESS | DRAW



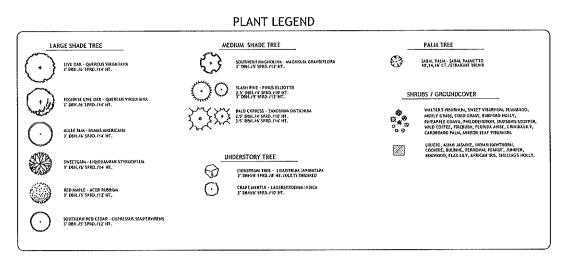


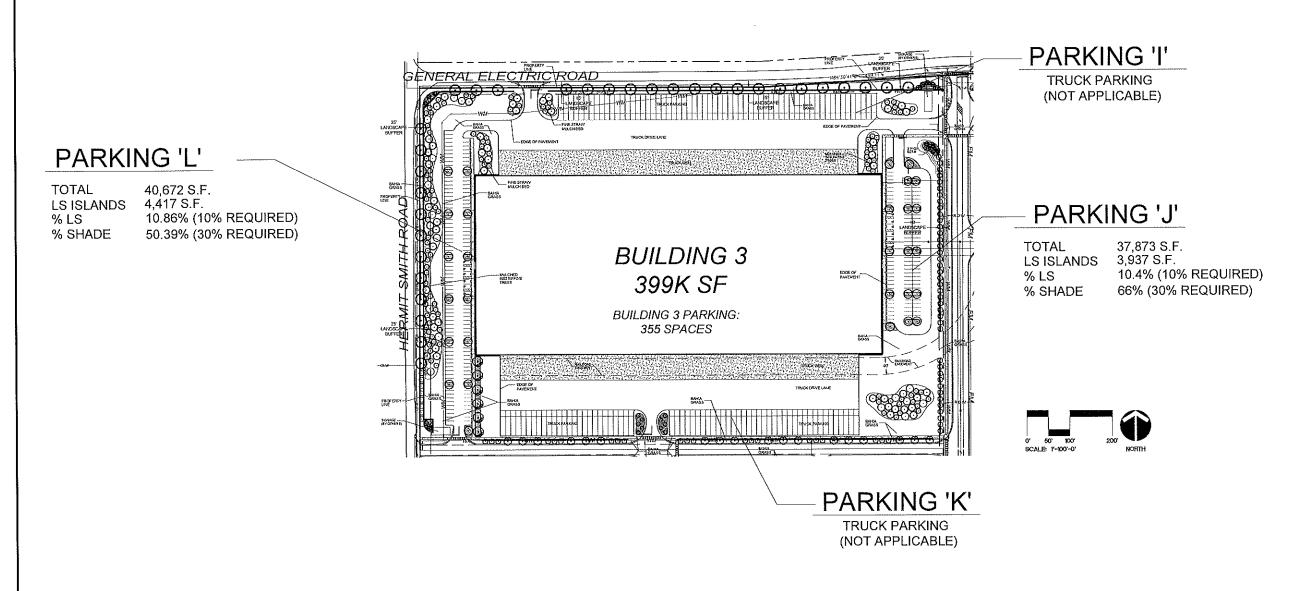




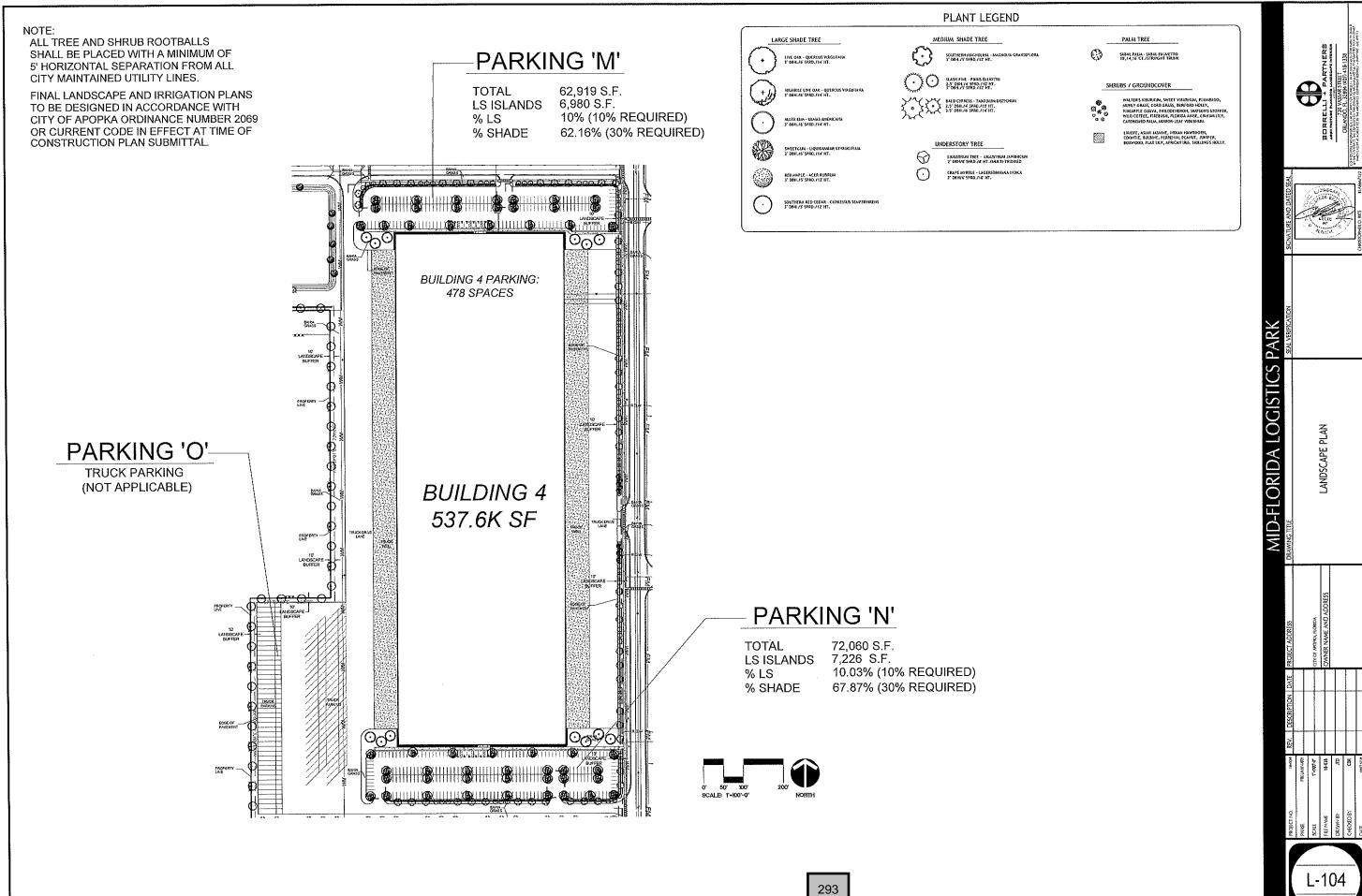


NOTE: ALL TREE AND SHRUB ROOTBALLS SHALL BE PLACED WITH A MINIMUM OF 5' HORIZONTAL SEPARATION FROM ALL CITY MAINTAINED UTILITY LINES. FINAL LANDSCAPE AND IRRIGATION PLANS TO BE DESIGNED IN ACCORDANCE WITH CITY OF APOPKA ORDINANCE NUMBER 2069 OR CURRENT CODE IN EFFECT AT TIME OF CONSTRUCTION PLAN SUBMITTAL.





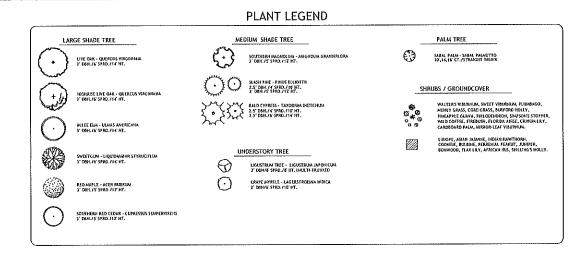
MID-FLORIDA LOGISTICS PARK L-103

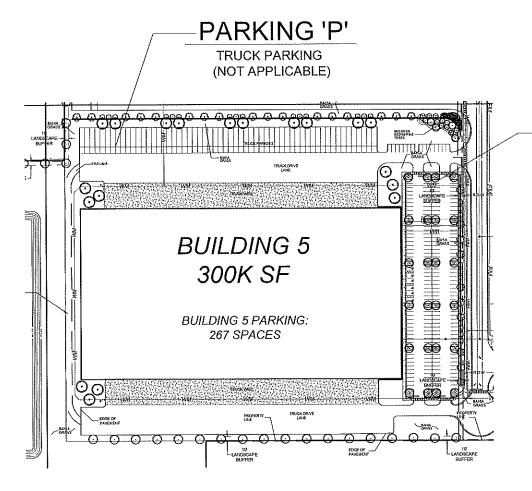


NOTE:

ALL TREE AND SHRUB ROOTBALLS SHALL BE PLACED WITH A MINIMUM OF 5' HORIZONTAL SEPARATION FROM ALL CITY MAINTAINED UTILITY LINES.

FINAL LANDSCAPE AND IRRIGATION PLANS TO BE DESIGNED IN ACCORDANCE WITH CITY OF APOPKA ORDINANCE NUMBER 2069 OR CURRENT CODE IN EFFECT AT TIME OF CONSTRUCTION PLAN SUBMITTAL.



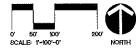


PARKING 'Q'

TOTAL 58,566 S.F. 5,876 S.F. LS ISLANDS

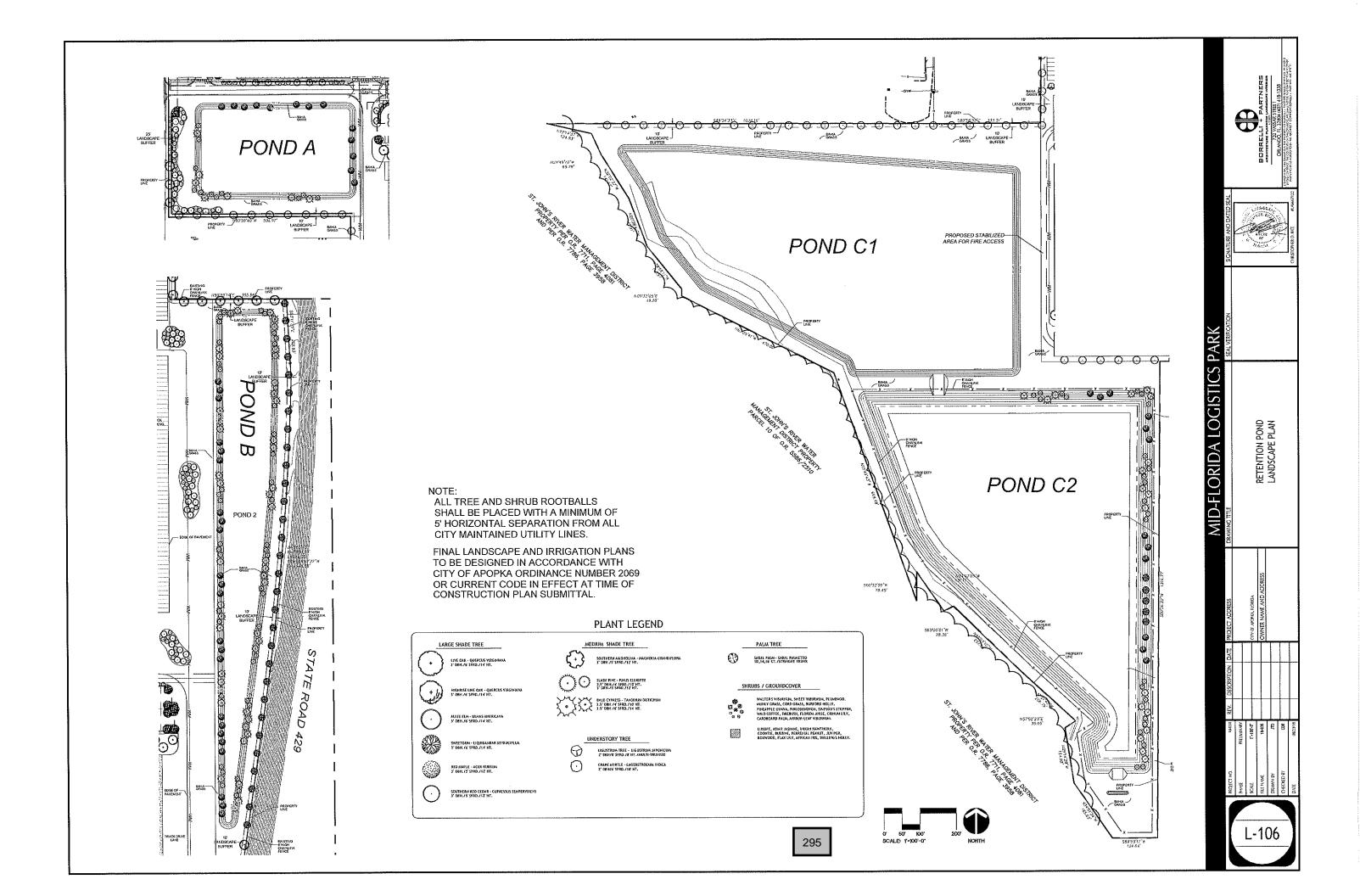
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10.03% (10% REQUIRED) 57.6% (30% REQUIRED) % SHADE





L-105



MID-FLORIDA LOGISTICS PARK

Project № 18008, v2.0 August 2018

TRAFFIC IMPACT ANALYSIS CITY OF APOPKA FLORIDA

Prepared by:



Traffic & Mobility Consultants

3101 Maguire Boulevard, Suite 265 Orlando, Florida 32803 www.trafficmobility.com (407) 531-5332

Prepared for:

BlueScope Properties Group 1540 Genessee Street Kansas City, Missouri 64102

ARCO National Construction-KC 5015 NW Canal Street, Suite 110 Riverside, Missouri 64150

Dave Schmitt Engineering, Inc 12301 Lake Underhill Road, Suite 241 Orlando, Florida 32828

EXECUTIVE SUMMARY

Project Information

Name: Mid-Florida Logistics Park

Location: South of General Electric Road, east of Hermit Smith Road and west of

SR 429, in the City of Apopka, Florida.

Description: 2,459,755 square feet of warehousing

<u>Findings</u>

Trip Generation: 3,444 ADT / 246 PM Peak Hour Trips

Approximately 20% of trips projected to be trucks.

Roadway Capacity: All study segments currently operate within their adopted capacity and

are projected to continue to do so at project buildout.

Intersection Capacity: All study intersections operate at adequate LOS and are projected to

continue to do so at project buildout. Except for US 441 & Hermit

Smith Road.

Mitigation: The deficient intersection of US 441 and Hermit Smith Road will

require a dedicated northbound right turn lane to more efficiently serve

the projected traffic volume.

A modified timing plan may be implemented in the future as vested and project traffic materialize on the minor approaches to the

intersection.



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:

Mid-Florida Logistics Park

LOCATION: City of Apopka, Florida

CLIENT:

Dave Schmitt Engineering, Inc

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.

NAME: Mohammed N. Abdallah

P.E. No.: Florida P.E. No. 56169

DATE: August 30, 2018

SIGNATURE:

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1.0 INTRODUCTION

This traffic analysis was performed to assess the impact of the proposed Mid-Florida Logistics Park development located south of General Electric Road, east of Hermit Smith Road and west of SR 429, in the City of Apopka. **Figure 1** depicts the location of the project site and the surrounding roadway network.

The analysis was updated to address comments received by the City, included in **Appendix A** and to reflect the revised development plan, which includes a total of 2,459,755 square feet of warehousing at full buildout in the year 2022. A preliminary site plan is provided in **Appendix B**.

The following analysis was conducted in accordance with the approved methodology, included in **Appendix C**. The analysis considers the project's impacts on the following roadways and intersections, within the project's influence area:

Roadway Segments

US 441 (Orange Blossom Trail)

- Yothers Road to SR 429 Connector
- SR 429 Connector to Plymouth Sorrento Road
- Plymouth Sorrento Road to Boy Scout Boulevard
- Boy Scout Boulevard to Errol Parkway General Electric Road
- Hermit Smith Road to Orange Avenue

Binion Road/Orange Avenue (CR 437)

- Boy Scout Boulevard to Lakeview Drive
- Lakeview Drive to US 441

Hermit Smith Road

General Electric Road to US 441

Hogshead Road

Hermit Smith Road to Conrad Road

Study Intersections

The following intersection will be analyzed for PM peak hour capacity and operations:

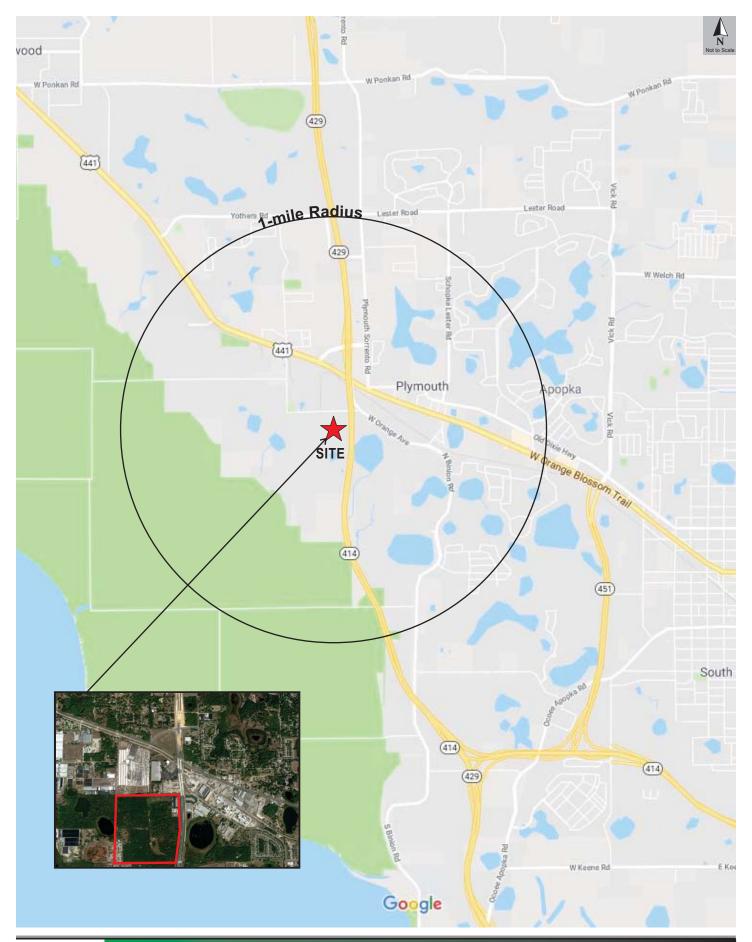
- General Electric Road & Orange Avenue
- Hermit Smith Road & General Electric Road
- Hermit Smith Road & US 441
- SR 429 Connector Road & US 441
- Orange Avenue & US 441

- Plymouth Sorrento Road & US 441
- Boy Scout Boulevard & US 441
- General Electric Road & Access
- Hermit Smith Road & Access

Data used in the analysis consisted of site plan/development information provided by the Project Engineers, PM peak hour traffic counts obtained by Traffic & Mobility Consultants LLC (TMC), road segment data obtained from the City of Apopka, and seasonal data obtained from Florida Department of Transportations (FDOT).



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2.0 EXISTING CONDITIONS ANALYSIS

2.1 Roadway Segment Capacity

Table 1 presents a summary of the existing conditions for the roadway segments examined in this study. Roadway segments were analyzed by comparing the existing Level of Service (LOS) for each roadway segment with the adopted LOS standard. Existing Daily and PM peak hour directional traffic volumes, capacities, and committed trips were obtained from the City of Apopka's *Encumbered Traffic Allocation Worksheets*, which are included in **Appendix D**.

Table 1
Existing Roadway Capacity Analysis

	No	LOS			Daily				PM Peak Hour					
Roadway Segment	Lns	Std	Сар	Volume	Comm	Total	LOS	Сар	Volume	PD	Comm	Total	LOS	
US 441 (Orange Blossom Trail)														
Yothers Road to SR 429 Connector Road	4	D	49,500	41,556	3,419	44,975	Α	2,480	2,045	SB/WB	345	2,390	В	
SR 429 Connector Road to Plymouth Sorrento Road	4	D	49,500	24,974	5,179	30,153	Α	2,480	1,114	NB/EB	444	1,558	Α	
Plymouth Sorrento Road to Boy Scout Boulevard	4	D	49,500	28,506	1,956	30,462	Α	2,480	1,310	NB/EB	260	1,570	Α	
Boy Scout Boulevard to Errol Parkway	4	D	55,400	29,279	659	29,938	Α	2,600	1,179	SB/WB	58	1,237	Α	
Binion														
Boy Scout Boulevard to Lakeview Drive	2	Е	17,700	4,774	1,669	6,443	С	880	278	NB/EB	141	419	С	
Lakeview Drive to US 441	2	Е	17,700	4,009	1,210	5,219	С	880	244	SB/WB	139	383	С	
General Electric Road														
Hermit Smith Road to Orange Avenue	2	D	13,300	532	713	1,245	С	680	38	NB/EB	101	139	С	
Hermit Smith Road														
General Electric Road to US 441	2	E	15,900	691	802	1,493	С	790	53	NB/EB	113	166	С	
Hogshead Road					-									
Hermit Smith Road to Conrad Road	2	Е	14,000	777	890	1,667	С	720	107	NB/EB	57	164	С	

The existing conditions analysis reveals that the study roadway segments currently operate at satisfactory LOS.



2.2 Intersection Capacity

An intersection analysis was conducted using the Synchro Software and the methods of the 2010 Highway Capacity Manual (HCM). The capacity analysis was performed using the existing intersection geometries and traffic volumes during the PM peak hour. Based on the date of the data collection, a seasonal factor of 1.04 was applied to the traffic volumes to adjust for seasonal variation in traffic volumes. The field counts along with FDOT's 2017 Seasonal Factor report are included in **Appendix E**.

The existing intersection volumes are displayed in **Figure 2**. A summary of the intersection capacity analysis is shown in **Table 2**, which indicates that the study intersections currently operate at satisfactory LOS. Detailed analysis worksheets are included in **Appendix F**.

Table 2
Existing Intersection Capacity Analysis

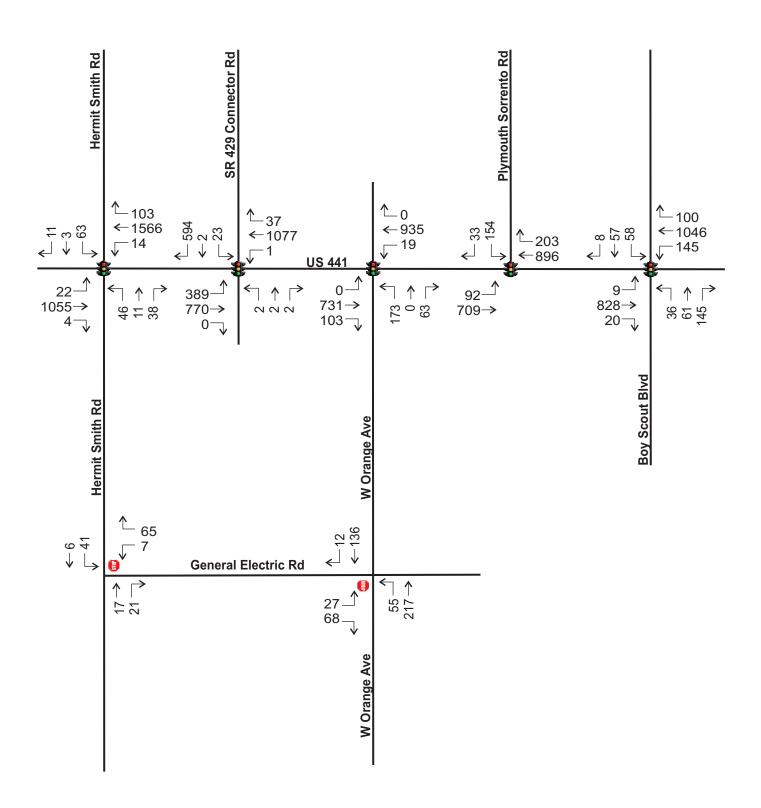
		El	В	W	В	N	В	S	В	Overall	
Intersection	Control	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS
US 441 & Hermit Smith Rd	Signal	6.9	Α	1.8	Α	72.5	Е	72.2	Е	7.8	Α
US 441 & SR 429 Connector Rd	Signal	26.1	С	4.0	Α	98.4	F	48.0	D	21.0	С
US 441 & Orange Ave	Signal	0.5	Α	6.9	Α	68.9	E			13.4	В
US 441 & Plymouth Sorrento Rd	Signal	4.0	Α	9.4	Α	92.3	F			14.8	В
US 441 & Boy Scout Blvd	Signal	14.1	В	9.7	Α	72.6	E	63.4	E	19.9	В
Hermit Smith Rd & General Electric Rd	TWSC			9.2	Α			7.6	Α		
General Electric Rd & Orange Ave	TWSC	11.2	В			7.9	Α				

Average delay is expressed seconds/vehicle



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3.0 PROJECT TRAFFIC

3.1 Trip Generation

Information published by the Institute of Transportation Engineers (ITE) in the *Trip Generation Manual*, 10th Edition was used to determine the trip generation of the proposed development as summarized in **Table 3**. ITE Code 154 for High-Cube Transload and Short-Term Storage Warehouse trip generation rates which were used in trip generation calculations. Detailed trip generation sheets are included in **Appendix G**.

Table 3
Trip Generation Analysis

ITE	I and lise	Size	Da	ily	PM Peak Hour					
Code		3126	Rate	Trips	Rate	Total	Enter	Exit		
154	Warehouse	2,459.8 KSF	1.40	3,444	0.10	246	69	177		

Trip generation analysis based on ITE Trip Generation Manual, 10th Edition.

The proposed development generates a total of 3,444 trips per day, of which 246 trips will occur during the PM peak hour.

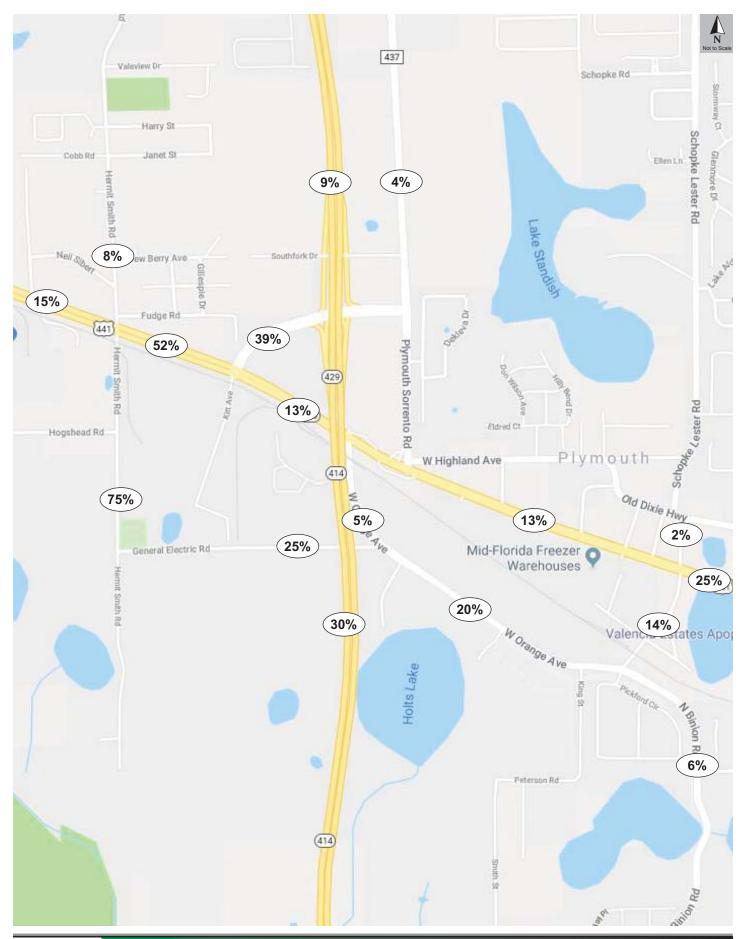
3.2 Truck Traffic

Based on information from the ITE Trip Generation Manual, approximately 20% of the trips generated by the warehouse development are anticipated to be truck trips. The remaining trips are generated by employees, deliveries, visitors and other business activity that supports the truck transport activities at the warehouse. For the proposed development, it is expected that most truck traffic will use the newly completed expressway to access the regional transportation network, as will be reflected in the project's trip distribution pattern.

3.3 Trip Distribution/Assignment

To assign the peak hour trips generated by the proposed development to the study roadways, a distribution pattern in the general vicinity of the project site was determined based on the OUATS model output, included in **Appendix H**, which was modified to reflect the local network and prevailing traffic patterns. The project's trip distribution pattern is provided in **Figure 3**.







4.0 PROJECTED CONDITIONS ANALYSIS

Projected traffic conditions were analyzed for Daily and PM peak hour traffic for the anticipated buildout year 2022.

4.1 Background Traffic Volumes

The analysis of the background traffic was performed to ascertain the future conditions prior to the development of Mid-Florida Logistics Park. Background traffic consists of existing traffic and committed trips from approved developments in the area, which were obtained from the *City's Encumbered Traffic Allocation Worksheets*. Background traffic volumes were calculated by adding the existing volumes to the committed trips (E+C) for each of the study segments.

4.2 Roadway Segment Capacity

The roadway segment analysis was performed by comparing the projected LOS of the roadway with the adopted LOS standard. This analysis is summarized in **Table 4** for full buildout of the development, which reveals that the segments will continue to operate at satisfactory LOS in the projected condition.

Table 4
Projected Roadway Capacity Analysis

	No	LOS	S Daily								PM Peak Hour					
Roadway Segment	Lns	Std	Сар	Volume	Comm	Dist	Project	Total	LOS	Cap	Volume	PD	Comm	Project	Total	LOS
US 441 (Orange Blossom Trail)																
Yothers Road to SR 429 Connector Road	4	D	49,500	41,556	3,419	53%	1,825	44,975	Α	2,480	2,045	SB/WB	345	94	2,390	В
SR 429 Connector Road to Plymouth Sorrento Road	4	D	49,500	24,974	5,179	11%	379	30,153	Α	2,480	1,114	NB/EB	444	19	1,558	Α
Plymouth Sorrento Road to Boy Scout Boulevard	4	D	49,500	28,506	1,956	11%	379	30,462	Α	2,480	1,310	NB/EB	260	19	1,570	Α
Boy Scout Boulevard to Errol Parkway	4	D	55,400	29,279	659	25%	861	29,938	Α	2,600	1,179	SB/WB	58	44	1,237	Α
Binion							•									
Boy Scout Boulevard to Lakeview Drive	2	Е	17,700	4,774	1,669	6%	207	6,443	С	880	278	NB/EB	141	11	419	С
Lakeview Drive to US 441	2	Е	17,700	4,009	1,210	20%	689	5,219	С	880	244	SB/WB	139	35	383	С
General Electric Road																
Hermit Smith Road to Orange Avenue	2	D	15,900	532	713	25%	861	1,245	С	680	38	NB/EB	101	44	139	С
Hermit Smith Road																
General Electric Road to US 441	2	Е	15,900	691	802	75%	2,583	1,493	С	790	53	NB/EB	113	133	166	С
Hogshead Road		•	•	•	•					•				•	•	
Hermit Smith Road to Conrad Road	2	Е	14,000	777	890	0%	0	1,667	С	720	58	NB/EB	126	0	184	С
	_															



4.3 Intersection Capacity

To assess the background and projected operating conditions at the study intersections, an intersection capacity analysis was conducted using background traffic volumes and projected traffic volumes. The intersection was analyzed using *Synchro Software*. Projected peak hour volumes were calculated by adding background traffic and project trips at the intersections.

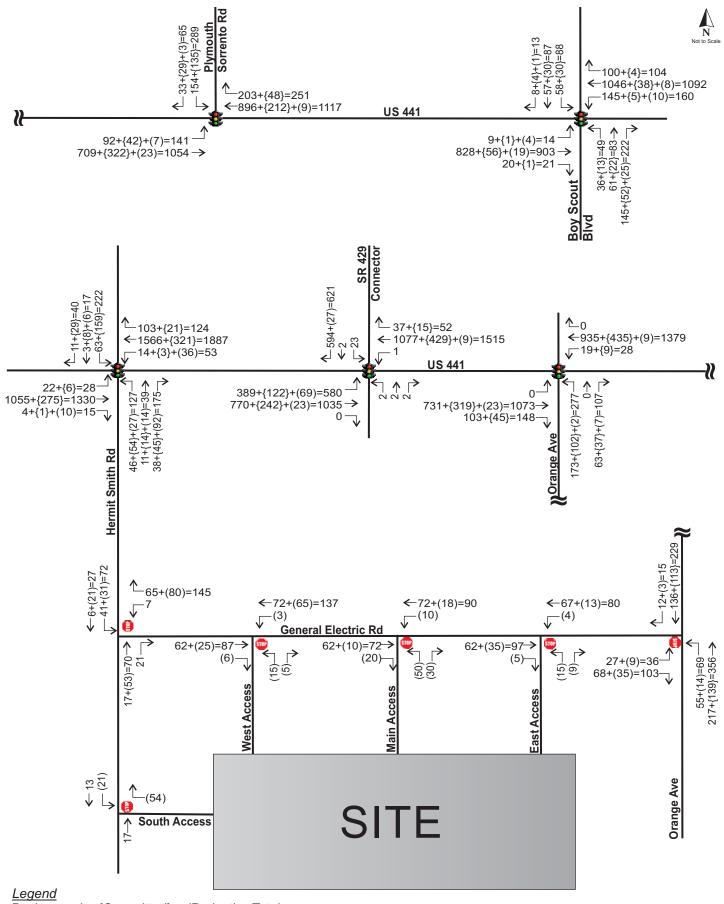
The projected intersection volumes are shown in **Figure 4** and intersection analysis for both background and projected volumes are summarized **Table 5**. Detailed printouts of the analysis are included in **Appendix I**.

Table 5
Projected Intersection Capacity Analysis

			EE	3	W	В	N	В	S	В	Ove	rall
Intersection	Control	Scenario	Delay	LOS								
US 441 &	Signal	Background	8.9	Α	1.3	Α	207.0	F	595.8	F	56.9	Е
Hermit Smith Rd	Signal	Projected	9.7	Α	2.6	Α	536.7	F	709.1	F	98.5	F
US 441 &	Signal	Background	53.5	D	18.2	В	98.4	F	47.7	D	37.3	D
SR 429 Connector Rd			81.6	F	19.6	В	98.4	F	48.5	D	50.8	D
US 441 &	Signal	Background	0.2	Α	0.3	Α	113.3	F			14.5	В
Orange Ave	Signal	Projected	0.2	Α	0.3	Α	120.7	F			15.6	В
US 441 &	Signal	Background	5.6	Α	12.2	В			251.7	F	38.8	D
Plymouth Sorrento Rd	Olgilai	Projected	5.7	Α	12.4	В			250.2	F	38.5	D
US 441 & Boy Scout Blvd	Signal	Background	6.5	Α	3.9	Α	84.8	F	130.1	F	22.9	С
		Projected	6.6	Α	4.0	Α	100.1	F	141.4	F	26.0	С
Hermit Smith Rd &	TWSC	Background			9.2	Α			7.6	Α		
General Electric Rd	1 1 1 1 1 1 1	Projected			10.6	В			7.9	Α		
General Electric Rd &	TWSC	Background	13.3	В			8.2	Α				-
Orange Ave	1000	Projected	14.3	В			8.2	Α				-
General Electric Rd & West Access	TWSC	Projected	-		7.6	Α	10.0	Α				
General Electric Rd & Main Access	TWSC	Projected	ı		7.5	Α	9.9	Α				
General Electric Rd & East Access	TWSC	Projected			7.6	Α	9.6	Α				
Hermit Smith Rd & South Access	TWSC	Projected			8.8	Α			7.5	Α		

The results of the background and projected analysis indicate that the intersections will continue to operate at satisfactory overall LOS, except for the intersection of Hermit Smith Road and US 441. This intersection is projected to become deficient on the side streets with the additional committed and project traffic.





<u>Legena</u> Background + {Committed} + (Project) = Total



4.4 Intersection Mitigation

In order to mitigate the projected deficiency at the intersection of Hermit Smith Road and US 441, additional capacity will be necessary to serve the minor approaches. The northbound and southbound approaches to the intersection are currently a single shared lane for all movements on each approach. The configuration results in a concurrent signal phase for all minor street movements. Additionally, the current timing plan at the intersection does not account for the significant number of committed and project trips that would be on the side streets in the long term. As vested and project traffic materialize on the minor approaches, it is reasonable to consider that the intersection timing plan would be modified to respond to the growing volumes in the future.

Therefore, to mitigate the project's impact and improve the overall operations at the intersection, it is recommended that a dedicated northbound right turn lane is constructed. The additional lane will facilitate the movement of right turning traffic traveling from Hermit Smith Road toward the SR 429 expressway via US 441.

The results of the capacity analysis with the right turn lane and a slightly modified timing plan are summarized in **Table 5**. The worksheet is included in **Appendix J**.

Table 5
Improved Intersection Capacity Analysis

			Е	EB		WB		NB		SB		rall
Intersection	Control	Scenario	Delay	LOS								
US 441 & Hermit Smith Rd	Signal	Improved	17.4	В	4.0	Α	57.4	Е	658.4	F	58.1	E



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5.0 STUDY CONCLUSIONS

This traffic analysis was performed to assess the impact of the proposed Mid-Florida Logistics

Park development. The site is located south of General Electric Road, east of Hermit Smith Road

and west of SR 429, in the City of Apopka. The development will include a total of 2,459,755

square feet of warehousing at full buildout. The results of the analysis as documented herein are

summarized below:

• The proposed development will generate a new daily traffic volume of 3,444 trips per day,

of which 246 trips will occur during the PM peak hour. Approximately 20% of the total

project traffic will be truck traffic.

Analysis of roadway segment capacity reveals that all study segments currently operate

within their adopted capacity and are projected to continue to do so at both project buildout

phases.

Analysis of the study intersections indicates that they currently operate at adequate LOS

and are projected to continue to do so at buildout of the project, except for the intersection

of US 441 and Hermit Smith Road.

The intersection will require a dedicated northbound right turn lane to more efficiently

serve traffic traveling toward SR 429 via eastbound US 441.

A modified timing plan may be necessary in to future as vested and project traffic

materialize on the minor approaches to intersection.

TMC

APPENDICES

Appendix AResponse to City of Apopka Comments

CITY OF APOPKA DEVELOPMENT REVIEW COMMITTEE COMMENTS

DATE: July 25, 2018

NAME: Pamela Richmond, AICP - Senior Planner

DEPARTMENT: Community Development

TELEPHONE: 407-703-1764 FAX: 407-703-1686 Email: pricchmond@apopka.net

PROJECT: Mid-Florida Logistics Park

PLAN NO: SPR18-16 PUD Master Plan – 2nd submittal

Traffic Impact Analysis Comments:

1. Revise the trip generation table to reflect the new site plan.

2. Revise Table 4, Projected Roadway Capacity Analysis, using the revised trip generation.

- 3. In Figure 4, there does not appear to be any committed trips represented on Hermit Smith Road or General Electric Road. However, committed trips are documented in Table 4. Please revise Figure 4 and any of the operational analyses included in the study that do not include the committed trips.
- 4. Table 5 shows the intersection of US 441 at Hermit Smith Rd not meeting the LOS standards for the approaching roadway segments. Specifically, the westbound direction is impacted dropping from an LOS C to an LOS F in the projected traffic conditions. This is in part due to changes in the signal timing assumptions between the existing, background and project traffic scenarios. Mitigation for the project traffic should not negatively impact the other approaches.
 - This study was done at a time when US 441 was under construction and before FDOT completed a signal timing study for the US 441 corridor. The current signal timing for signalized study intersections on US 441 should be revised using the new signal timing to ensure the analysis is consistent with the new coordinated signal plan.
- 5. The TIA does not outline the existing or proposed truck traffic percentages. The applicant should provide estimates of truck traffic and the ability of the surrounding roads (including General Electric Road, Orange Avenue, and Hermit Smith Road) to support the projected loads. If the roadway infrastructure is not suitable for proposed amount of truck travel, mitigation should be proposed.
- 6. Central Florida Expressway has provided comments on the TIA (see attached). Please address these comments and include as a part of your response to the City's comments.

800 N. Magnolia Ave., Suite 1000 Orlando, FL 32803 321.354.9687 Direct 407.649.8664 Fax 321.663.5663 Mobile www.dewberry.com kjackson@dewberry.com

From: Bickar, Scott

Sent: Thursday, July 19, 2018 11:03 AM

To: Jackson, Raymond Keith < kjackson@dewberry.com>

Subject: RE: TIA for Mid Florida Logistics Park

Keith.

A 2,561,800 warehouse development is being proposed in the southwest quadrant of the SR 429 interchange at US 441 and SR 429 Connector Road. The warehouse is projected to generate 3587 daily trips with 256 of them occurring during the PM Peak Hour. Full buildout of the development is anticipated in 2022. 41% of the trips generated will utilize SR 429 with 9% coming from the north and 33% coming from the south. The following comments were developed after reviewing FDOT TIA guidelines:

- Include analysis for the single point intersection at SR 429 (Ramps) and SR 429 Connector Road. The intersection
 is located within the 1 mile study area radius and will be impacted by 42% of the added trips from the
 development.
- Include analysis for the SR 429 Connector Road and Plymouth Sorrento Road intersection. The intersection is located within the 1 mile study area radius.
- Traffic patterns in the area have changed due to the opening of Wekiva Phase II at the end of March 2018.
 Existing traffic counts were taken March 13, 2018. Since there is significant change in traffic patterns consider obtaining new counts.
- The report only addresses the PM peak hour. Was the AM peak hour considered?
- Provide analysis for full buildout of the development in 2022.
- Include a future conditions analysis for a future horizon year. Typically 10 years from full buildout.
- Was mitigation considered for the SB SR 429 Connector Road approach to US 441. The projected SB delay is 121.5 seconds (F) which is a 25.3 second increase in delay from the existing condition.

Thanks

Scott Bickar, P.E.
Project Engineer
Transportation Services
Dewberry
800 North Magnolia Avenue
Suite 1000
Orlando, FL 32803
321-354-9784
www.dewberry.com

From: Jackson, Raymond Keith

Sent: Wednesday, July 18, 2018 9:04 AM

To: Glenn Pressimone < Glenn. Pressimone@cfxway.com>

Cc: Will Hawthorne < Will. Hawthorne@cfxway.com>; Bickar, Scott < sbickar@Dewberry.com>

Subject: RE: TIA for Mid Florida Logistics Park

We will have this reviewed by Friday.





August 30, 2018

Ms. Pamela Richmond, AICP Community Development City of Apopka 120 E Main Street Apopka, Florida 32703

Email: prichmond@apopka.net

Re: Mid-Florida Logistics Park

Response to Review Comments

TMC Project № 18008 City of Apopka, Florida

Ms. Richmond,

Please find below our response to the City of Apopka review comments dated July 25, 2018 and Central Florida Expressway comments dated July 19, 2018, regarding the above referenced Traffic Impact Analysis dated March 2018. The comments are listed in **bold** typeface and the TMC responses follow in *italic* typeface.

CITY OF APOPKA COMMENTS

1. Revise the trip generation table to reflect the new site plan.

TMC Response: The trip generation table has been revised to reflect the new plan.

2. Revise Table 4, Projected Roadway Capacity Analysis, using the revised trip generation.

TMC Response: Table 4 has been revised

3. In Figure 4, there does not appear to be any committed trips represented on Hermit Smith Road or General Electric Road. However, committed trips are documented in Table 4. Please revise Figure 4 and any of the operational analyses included in the study that do not include the committed trips.

TMC Response: Figure 4 and the intersection analyses have been revised to include the committed trips.

4. Table 5 shows the intersection of US 441 at Hermit Smith Rd not meeting the LOS standards for the approaching roadway segments. Specifically, the westbound direction is impacted dropping from an LOS C to an LOS F in the projected traffic conditions. This is in part due to changes in the signal timing assumptions between the existing, background and project traffic scenarios. Mitigation for the project traffic should not negatively impact the other approaches.

Ms. Pamela Richmond
Mid-Florida Logistics Park
Response to Review Comments
Project № 18008
August 30, 2018
Page 2 of 3

This study was done at a time when US 441 was under construction and before FDOT completed a signal timing study for the US 441 corridor. The current signal timing for signalized study intersections on US 441 should be revised using the new signal timing to ensure the analysis is consistent with the new coordinated signal plan.

TMC Response: The analysis was revised with the updated traffic volumes, committed trips, and newly implemented signal timing plans. The results indicate that the intersection will require a northbound right turn lane on Hermit Smith Road to adequately accommodate project trips.

5. The TIA does not outline the existing or proposed truck traffic percentages. The applicant should provide estimates of truck traffic and the ability of the surrounding roads (including General Electric Road, Orange Avenue, and Hermit Smith Road) to support the projected loads. If the roadway infrastructure is not suitable for proposed amount of truck travel, mitigation should be proposed.

TMC Response: The TIA has been updated to include a discussion of projected truck traffic volumes generated by the development on a daily basis. The structural capacity of the pavement on Hermit Smith Road and on General Electric Road will be addressed separately with the City outside of the TIA.

6. Central Florida Expressway has provided comments on the TIA (see attached). Please address these comments and include as a part of your response to the City's comments.

TMC Response: Noted. Please see responses to Central Florida Expressway comments below.

CENTRAL FLORIDA EXPRESSWAY COMMENTS

1. Include analysis for the single point intersection at SR 429 {Ramps) and SR 429 Connector Road. The intersection is located within the 1 mile study area radius and will be impacted by 42% of the added trips from the development.

TMC Response: The interchange at SR 429 was recently completed based on design traffic volumes projected for the life of the facility. This development is a minor generator of traffic in comparison to the design traffic volumes for which the facility was designed.

2. Include analysis for the SR 429 Connector Road and Plymouth Sorrento Road intersection. The intersection is located within the 1 mile study area radius.

TMC Response: Based on a study methodology reviewed and approved by the City of Apopka, these facilities are not within the project's study area. This development is a minor generator of traffic in comparison to the design traffic volumes for which the facility was designed.

Ms. Pamela Richmond
Mid-Florida Logistics Park
Response to Review Comments
Project № 18008
August 30, 2018
Page 3 of 3

3. Traffic patterns in the area have changed due to the opening of Wekiva Phase II at the end of March 2018. Existing traffic counts were taken March 13, 2018. Since there is significant change in traffic patterns consider obtaining new counts.

TMC Response: Updated traffic counts were obtained within the study area on August 28, 2018.

5. The report only addresses the PM peak hour. Was the AM peak hour considered?

TMC Response: The City of Apopka requires PM peak hour analysis.

6. Provide analysis for full build out of the development in 2022.

TMC Response: The buildout analysis is provided.

7. Include a future conditions analysis for a future horizon year. Typically 10 years from full buildout.

TMC Response: An analysis of future horizon is not required or customary for development projects in the City of Apopka.

8. Was mitigation considered for the SB SR 429 Connector Road approach to US 441. The projected SB delay is 121.5 seconds (F) which is a 25.3 second increase in delay from the existing condition.

TMC Response: The intersection is projected to operate adequately at project buildout. No additional mitigation is recommended.

END OF COMMENTS

We trust these responses address the review comments. A revised analysis will be provided for your further review. We remain available to discuss this matter further or to answer any questions.

Kind regards,

Mohammed N. Abdallah, PE, PTOE

Appendix BPreliminary Site Plan

Appendix C
Mid-Florida Logistics Park Methodology



MEMORANDUM

February 28, 2018

Re: Mid-Florida Logistics Park

Traffic Impact Analysis Methodology

Project № 18008

The following is an outline of the methodology for the Traffic Impact Analysis (TIA) for the above referenced project.

Project Description

The proposed development is approximately 2,562,800 square feet of the high-cube transload and short-term storage warehouse, which will include five buildings at full buildout. A conceptual site plan is included in the **Attachments**.

Project Location

The site is located south of General Electric Road, east of Hermit Smith Road and west of the Western Beltway, in the City of Apopka, Florida, as illustrated in **Figure 1**.



Figure 1 - Study Area

Mid-Florida Logistics Park Study Methodology Project №18008 February 28, 2018 Page 2 of 4

Project Access

Access to the site will be provided via two access points on General Electric Road and one access point on Hermit Smith Road, as shown in the conceptual plan included in the **Attachments**.

Trip Generation

The trip generation analysis was conducted using information published by the Institute of Transportation Engineers (ITE) in the *Trip Generation Manual, 10th Edition* for the High Cube Transload and Short-Term Storage Warehouse land use, which most accurately reflect the proposed use of the site. **Table 1** summarizes the results of the trip generation analysis for the development. The ITE information sheets are included in the **Attachments**.

Table 1
Trip Generation Summary

ITE	Land Use	Size	Da	ily	PM Peak Hour					
Code	Lanu USC	Size	Rate	Trips	Rate	Total	Enter	Exit		
154	Warehouse	2,562.8 KSF	1.40	3,588	0.10	256	69	187		

Trip generation analysis based on ITE Trip Generation Manual, 10th Edition.

The proposed development is projected to generate 3,588 new daily trips of which 256 trips occur during the PM peak hour. It should be noted that approximately 33% of the total daily sitegenerated trips and 22% of PM peak hour project trips are anticipated to be truck traffic based on ITE information.

Trip Distribution

The Orlando Urban Area Transportation Study (OUATS) model was used to generate an areawide travel distribution pattern for the development. The model output is included in the **Attachments**.

The model shows that traffic using Binion Road will merge to SR 429 downstream, also more traffic is indicated to use SR 451 and Plymouth Sorrento Road rather than using SR 429 located east of the property. Manual modification and adjustments were made to reflect the nature of the proposed development, which includes moving all trips indicated on SR 451 on to SR 429, half the trips on Binion Road on to SR 429 and reducing the number of project trips on Plymouth Sorrento Road. Finally, these modifications placed approximately 42% of the project trips on SR 429, with the anticipated truck percentage and the likelihood of trucks using SR 429, the distribution pattern will reflect the proposed development. The proposed distribution pattern for use in this study is illustrated in **Figure 2**.



Figure 2 - Proposed Distribution Pattern

Study Area

Study Segments

The following roadway segments located within 1-mile of the site will be analyzed for Daily and PM peak hour capacity:

US 441 (Orange Blossom Trail)

- Yothers Road to SR 429 Connector Road
- SR 429 Connector Road to Plymouth Sorrento Road
- Plymouth Sorrento Road to Boy Scout Boulevard
- Boy Scout Boulevard to Errol Parkway

Binion Road (CR 437)/Orange Avenue (CR 437)

- Boy Scout Boulevard to Lakeview Drive
- Lakeview Drive to US 441

Mid-Florida Logistics Park Study Methodology Project №18008 February 28, 2018 Page 4 of 4

General Electric Road

Hermit Smith Road to Orange Avenue

Hermit Smith Road

General Electric Road to US 441

Hogshead Road

Hermit Smith Road to Conrad Road

Study Intersections

The following intersection will be analyzed for PM peak hour capacity and operations:

- General Electric Road and Orange Avenue
- Hermit Smith Road and General Electric Road
- SR 429 Connector Road and US 441
- Hermit Smith Road and US 441
- Orange Avenue and US 441
- Boy Scout Boulevard and US 441
- Proposed access points and General Electric Road

Peterson Road

An existing public Right-of-way (ROW), known as Peterson Road, runs from Kings Street in the east, through the property east to the western boundary. The ROW varies in width and passes under SR 429 at an underpass. This ROW traverses the proposed development and bisects the planned 1,024,400 square foot warehouse building (Building 2 on the plans included in the **Attachments**). Therefore, the analysis will evaluate access conditions to the site without the need to connect Peterson Road through the property. If these currently proposed connections on General Electric Road and Hermit Smith Road are projected to adequately serve the property, then it will be determined that Peterson Road is not essential for access, which supports a request to vacate the existing ROW.

Documentation

A report documenting the methods, assumptions, and findings of the traffic analysis will be prepared for submittal to the City in support of the development application.

Appendix DCity of Apopka CMS Data

1/29/2015 1 of 4

City of Apopka 2014 Traffic Count Program

Roadway Service Volumes (Capacities)

			ly SCI VIC		es (Capac							
Class		Posted			A.M./P.M							
Roadway	No. of	Speed			irectiona					y Capaci		1
Segment	Lanes	Limit	A	В	C	D	E	A	В	C	D	E
Major Arterial												
SR 436 (Semoran Boulevard)												
US 441 to Sheeler Rd	8LD	45	-	-	3,970	4,040	4,040	-	-	78,800	80,100	80,100
Sheeler Rd to Thompson Rd	8LD	45	-	-	3,970	4,040	4,040	-	-	78,800	80,100	80,100
Thompson Rd to Roger Williams Rd	8LD	45	-	-	3,970	4,040	4,040	-	-	78,800	80,100	80,100
Roger Williams Rd to Piedmont-Wekiva Rd	8LD	45	-	-	3,970	4,040	4,040	-	-	78,800	80,100	80,100
Piedmont-Wekiva Rd to Seminole County Line	6LD	45	-	-	2,940	3,020	3,020	-	-	58,400	59,900	59,900
US 441 (Orange Blossom Trail)	.I.D										0	0
Ponkan Rd to Yothers Rd	4LD	55	-		1,910	2,000	2,000	-	-	37,900	39,800	39,800
2 * Yothers Rd to SR 429 Connector Rd	4LD	55	2,370	2,480	2,480	2,480	2,480	47,200	49,500	49,500	49,500	49,500
2 * SR 429 Connector Rd to Plymouth Sorrento Rd 2 * Plymouth Sorrento Rd to Boy Scout Blvd	4LD 4LD	45	2,370	2,480	2,480	2,480	2,480	47,200	49,500	49,500	49,500	49,500
2 * Boy Scout Blvd to Errol Pkwy	4LD 4LD	45 45	2,370	2,480	2,480 2,600	2,480 2,600	2,480 2,600	47,200	49,500 53,600	49,500	49,500	49,500
2 * Errol Pkwy to SR 451	4LD 4LD	45 45	2,270 2,270	2,520 2,520	2,600	2,600	2,600	48,300 48,300	53,600	55,400 55,400	55,400 55,400	55,400 55,400
2 * SR 451 to Bradshaw Rd	4LD 4LD	45	2,270	2,520	2,600	2,600	2,600	48,300	53,600	55,400	55,400	55,400
2 * Bradshaw Rd to Hawthorne Ave	5L	45	1,980	2,160	2,160	2,160	2,160	52,500	57,100	57,100	57,100	57,100
2 * Hawthorne Ave to Central Ave	5L	35	1,980	2,160	2,160	2,160	2,160	52,500	57,100	57,100	57,100	57,100
2 * Central Ave to Park Ave	5L	35	1,980	2,160	2,160	2,160	2,160	52,500	57,100	57,100	57,100	57,100
2 * Park Ave to Highland Ave	5L	35	1,980	2,160	2,160	2,160	2,160	52,500	57,100	57,100	57,100	57,100
2 * Highland Ave to Alabama Ave	5L	35	1,980	2,160	2,160	2,160	2,160	52,500	57,100	57,100	57,100	57,100
2 * Alabama Ave to SR 436	4LD	35	1,980	2,160	2,160	2,160	2,160	52,500	57,100	57,100	57,100	57,100
SR 436 to Sheeler Rd	4LD	45	-	-	1,910	2,000	2,000	-	-	37,900	39,800	39,800
Sheeler Rd to Roger Williams Rd	4LD	45	-	-	1,910	2,000	2,000	-	-	37,900	39,800	39,800
Roger Williams Rd to Piedmont-Wekiva Rd	4LD	50	-	-	1,910	2,000	2,000	-	-	37,900	39,800	39,800
Piedmont-Wekiva Rd to Seminole County Line	4LD	50	-	-	1,910	2,000	2,000	-	=	37,900	39,800	39,800
Minor Arterial												
CR 424 (Alabama Avenue/Apopka Boulevard)												
US 441 to 8th St	2L	45	-	-	370	750	800	-	-	7,300	14,800	15,600
8th St to Sheeler Rd	2L	45	-	-	830	880	880	-	-	16,800	17,700	17,700
Sheeler Rd to Lakeville Rd	2L	45	-	-	830	880	880	-	-	16,800	17,700	17,700
Lakeville Rd to Hiawassee Rd	3L	45	-	-	870	920	920	-	-	17,600	18,600	18,600
Hiawassee Rd to Overland Rd	2L	35	-	-	370	750	800	-	-	7,300	14,800	15,600
Overland Rd to US 441	2L	35	-	-	370	750	800	-	-	7,300	14,800	15,600
Minor Arterial	aona Doc	(4)										
CR 435 (Rock Spring Road/Park Avenue/Clar Kelly Park Rd to Ponkan Rd	5L		_	_	1.500	1,580	1,580	_	_	20.200	20.400	20.400
Ponkan Rd to Welch Rd	5L 5L	45 45		- -	1,530 1,910	2,000	2,000	<u> </u>	<u> </u>	29,300 37,900	30,400	30,400
Welch Rd to Sandpiper Rd	5L 5L	45		_	1,910	2,000	2,000	_	_	37,900	39,800	39,800
Sandpiper Rd to Votaw Rd	5L 5L	35		_	730	1,630	1,700	_		14,500	32,400	33,800
Votaw Rd to Orange St	5L	35	_	_	730	1,630	1,700	 	_	14,500	32,400	33,800
Orange St to US 441	5L	35	_	_	730	1,630	1,700	_	_	14,500	32,400	33,800
US 441 to Michael Gladden Blvd	3L	30	-	-	390	790	840	-	-	7,700	15,540	16,400
Michael Gladden Blvd to Cleveland St	2L	30	_	-	370	750	800	-	-	7,300	14,800	15,600
Cleveland St to Keene Rd	2L	45	-	-	830	880	880	-	-	16,800	17,700	17,700
Keene Rd to McCormick Rd	2L	45	-	-	830	880	880	-	-	16,800	17,700	17,700
McCormick Rd to Clarcona-Ocoee Rd	2L	45	-	-	830	880	880	-	-	16,800	17,700	17,700
CR 437A (Ocoee-Apopka Road/Michael Gladd	en Boule	vard/Ce	ntral Av	enue)								
McCormick Rd to Binion Rd	2L	45	-	420	840	1,190	1,640	-	8,600	17,000	24,200	33,300
Binion Rd to SR 429	2L	45	-	420	840	1,190	1,640	-	8,600	17,000	24,200	33,300
SR 429 to Keene Rd	2L	45	-	420	840	1,190	1,640	-	8,600	17,000	24,200	33,300
Keene Rd to Boy Scout Rd	2L	45	-	420	840	1,190	1,640	-	8,600	17,000	24,200	33,300
Boy Scout Rd to Bradshaw Rd	2L	45	-	420	840	1,190	1,640	-	8,600	17,000	24,200	33,300
Bradshaw Rd to Central Ave	2L	30	-	-	370	750	800	-	-	7,300	14,800	15,600
Michael Gladden Blvd to US 441	2L	35		-	370	750	800	-	-	7,300	14,800	15,600
Lakeville Road	_ +							_				
Apopka Blvd to Wildwood St	2L	35	-	-	370	750	800	-	_	7,300	14,800	15,600
Plymouth-Sorrento Road (CR 437)	2.1				0	1000	1 () =	1	0	46	00 45 5	04.55
County Line to Kelly Park Rd	2L	45	-	450	850	1,200	1,640	-	8,700	16,400	23,100	31,500
Kelly Park Rd to Ponkan Rd	2L	45	-	-	830	880	880	 	-	16,800	17,700	17,700
Ponkan Rd to Lester Rd/Yothers Rd Lester Rd/Yothers Rd to SR 429 Connector Rd	2L	45	<u>-</u>	<u>-</u>	830	880	880	<u> </u>	-	16,800	17,700	17,700
SR 429 Connector Rd to US 441	2L	45		_	870	920	920	_		17,600	18,600	18,600
or 429 Connector Ku to US 441	2L	45	-	-	870	920	920	-	-	17,600	18,600	18,600

Roadway Service Volumes

1/29/2015 2 of 4

City of Apopka 2014 Traffic Count Program Roadway Service Volumes (Capacities)

Clara.			ty Servic	e Volume								
Class	No of	Posted	Dool		A.M./P.M		1		Dail	l Como o	L'aa 1	
Roadway	No. of	Speed				l Capacit D	E E	Α.	B	ly Capaci C	D	Т.
Segment	Lanes	Limit	A	В	С	<u>D</u>	E	A	В		D	Е
Sheeler Road	_											<u> </u>
SR 436 to US 441	3L	35	-	-	390	790	840	-	-	7,700	15,540	16,400
US 441 to Apopka Blvd	2L	45	-	-	830	880	880	-	-	16,800	17,700	17,700
Apopka Blvd to Cleveland St	2L	45	-	-	830	880	880	-	-	16,800	17,700	17,700
Cleveland St to Keene Rd	2L	45	-	-	830	880	880	-	-	16,800	17,700	17,700
Wekiva Springs Road/Piedmont-Wekiwa Roa	•	ssee Roa	ad									
Welch Rd to Votaw Rd	3L	45	-	470	890	1,260	1,720	-	9,100	17,200	24,300	33,100
Votaw Rd to SR 436	5L	45	-	-	1,910	2,000	2,000	-	-	37,900	39,800	39,800
SR 436 to Piedmont Lakes Blvd	5L	45	-	-	1,910	2,000	2,000	-	-	37,900	39,800	39,800
Piedmont Lakes Blvd to US 441	5L	45	-	-	1,910	2,000	2,000	-	-	37,900	39,800	39,800
US 441 to CR 424 (Apopka Blvd)	4LD	45	-	-	1,910	2,000	2,000	-	-	37,900	39,800	39,800
CR 424 (Apopka Blvd) to SR 414	4LD	45	-	-	1,910	2,000	2,000	-	-	37,900	39,800	39,800
SR 414 to Beggs Rd	4LD	45	-	-	1,910	2,000	2,000	-	-	37,900	39,800	39,800
Beggs Rd to Clarcona Ocoee Rd	4LD	45	-	-	1,910	2,000	2,000	-	-	37,900	39,800	39,800
Minor Arterial												
Welch Road												
Vick Rd to Rock Springs Rd	2L	35	-	-	390	790	840	-	-	7,700	15,540	16,400
Rock Springs Rd to Ustler Rd	3L	45	-	440	880	1,250	1,720	-	9,000	17,900	25,400	35,000
Ustler Road to Thompson Rd	2L	45	_	420	840	1,190	1,640	_	8,600	17,000	24,200	33,300
Thompson Rd to Wekiva Springs Rd	2L	45	-	420	840	1,190	1,640	_	8,600	17,000	24,200	33,300
Minor Collector				<u> </u>	<u>'</u>	<u> </u>	· •			1	., -	
2nd Street (Monroe Avenue)												
Central Ave to Park Ave	2L	30	-	-	240	490	520	-	-	4,700	9,600	10,100
5th Street				<u> </u>	<u>'</u>	<u> </u>	Ĭ		1	1.,		
Park Ave to Highland Ave	2L	30	_	-	240	490	520	_	_	4,700	9,600	10,100
6th Street		Ŭ			'	12	Ŭ			177	, ,	
Park Ave to Alabama Ave	2L	30	_	_	240	490	520	_	_	4,700	9,600	10,100
Alabama Ave to US 441	2L	30	_	_	240	490	520	_	_	4,700	9,600	10,100
8th Street	211	J.			240	450	320			4,700	9,000	10,100
Park Ave to Highland Ave	2L	30	_	_	240	490	520	_	_	4,700	9,600	10,100
9th Street		. J.			<u>-</u>	7,00	J=0			7,700	9,000	10,100
Central Ave to Park Ave	2L	30	_	_	240	490	520	_	_	4,700	9,600	10,100
Alabama Ave to Sheeler Ave	2L	30	_	_	240	490	520	_		4,700	9,600	10,100
13th Street	211	30			240	490	320			4,700	9,000	10,100
Ocoee-Apopka Rd to Park Ave	2L	25			240	490	520			4,700	9,600	10,100
Park Ave to Apopka Blvd	2L 2L	25 25			240	490	520		<u> </u>	4,700	9,600	10,100
Alabama Avenue	211	20	_		240	490	520			4,/00	9,000	10,100
Monroe Ave to US 441	2L	25		_	240	490	520		_	4,700	9,600	10,100
Appy Lane	211	<u> -2</u> 3			240	490	520			4,/00	9,000	10,100
Plymouth-Sorrento Rd to Jason Dwelley Pkwy	2L	35	_	_	330	680	720	_	_	6,600	13,320	14,000
Binion Road (CR 437)/Orange Avenue (CR 437)		33			330	000	/20			0,000	13,320	14,000
Ocoee-Apopka Rd to Harmon Rd	2L	55	_		830	880	880	_		16,800	17,700	17,700
Harmon Rd to Boy Scout Rd	2L			_	830	880	880	_		16,800	17,700	17,700
Boy Scout Rd to Lakeview Dr	2L 2L	55		+		880	880			16,800		+
Lakeview Dr to US 441	2L 2L	40	-	-	830	880	880		-	16,800	17,700	17,700
Boy Scout Road	2L	40	-	-	830	000	000	-	-	10,800	17,700	17,700
Binion Rd to Ocoee-Apopka Rd	2L	45		_	750	700	700	_		15 100	15 000	15 000
Bradshaw Road	211	45	_		750	790	790		_	15,100	15,900	15,900
Old Dixie Hwy to US 441	2L	45			750	790	790	_		15,100	15,900	15,900
Christiana Avenue	211	40	_		/50	/90	/90			15,100	15,900	15,900
Monroe Ave to Votaw Rd	2L	20	_	_	0.40	400	500	_		4.700	9,600	10,100
Cleveland Street	211	30	_	-	240	490	520	_	-	4,700	9,000	10,100
Park Ave to Sheeler Rd	2L	40		_	750	700	790	_		15 100	15 000	15 000
Edgewood Drive	211	40	_	_	750	790	/90		_	15,100	15,900	15,900
Monroe Ave to US 441	2L	30	_	_	240	400	520	_	_	4,700	9,600	10,100
Minor Collector (Continued)	211	30			240	490	520			4,/00	9,000	10,100
Errol Parkway												
Lake Francis Dr to Lake Alden Dr	oI D	0.5			050	510	560			6 000	10.000	14.500
	2LD	25	-	-	350	710	760	-	-	6,900	13,990	14,700
Lake Alden Dr to Old Dixie Hwy	2L	25	-	-	330	680	720	-	-	6,600	13,320	14,000
Old Dixie Hwy to US 441	2LD	30	-	-	350	710	840	-	 -	6,900	14,000	14,700
General Electric Road	o ^T				000	600	5 00			6.600	10.000	14.00-
Hermit Smith Rd to Orange Ave	2L	30	-	-	330	680	720		-	6,600	13,300	14,000
Golden Gem Road	2. T			-	000	(0-			-	((10.55	1
Kelly Park Rd to Ponkan Rd	2L	30	-	-	330	680	720	-	-	6,600	13,300	14,000
Greenacre Road	o T			-	225	(0-			-	((= =	10.05	110=-
Piedmont-Wekiwa Rd to Neil Rd	2L	25	-	-	330	680	720	-	 -	6,600	13,300	14,000
Haas Road Plymouth Coments Dd to Mt Plymouth Dd	2. T			-					 	4	4= 6= -	
Plymouth-Sorrento Rd to Mt Plymouth Rd	2L	40	-	-	750	790	790	-	 -	15,100	15,900	15,900
Harmon Road	2. T			-					-		1=	1
Binion Rd to Ocoee-Apopka Rd	2L	40	-	-	750	790	790	-	 -	15,100	15,900	15,900
Hawthorne Avenue	_ T			-	22-	<u> </u>			<u> </u>	((40.5-	
US 441 to Ocoee-Apopka Rd	2L	30	-	-	330	680	720	-	-	6,600	13,300	14,000
Ocoee-Apopka Rd to 13th St	2L	30	-	-	330	680	720	-		6,600	13,300	14,000

Roadway Service Volumes

1/29/2015 3 of 4

City of Apopka 2014 Traffic Count Program Roadway Service Volumes (Capacities)

ol .	<u> </u>		y Servic		es (Capac			1				
Class	No of	Posted	Dag		A.M./P.M		ing 1		Do:	lv. Canaai	Haa 1	
Roadway	No. of	Speed		k Hour D				Α		ly Capaci	T	Tr.
Segment	Lanes	Limit	A	В	С	D	E	A	В	С	D	E
Hermit Smith Road	_											
General Electric Rd to US 441	2L	40	-	-	750	790	790	-	-	15,100	15,900	15,900
Highland Avenue						10						
Monroe Ave to US 441	2L	25	-	-	330	680	720	-	-	6,600	13,300	14,000
US 441 to 6th St	2L	25	-	-	330	680	720	-	-	6,600	13,300	14,000
Hogshead Road										ļ		
Hermit Smith Rd to Conrad Rd	2L	30	-	-	330	680	720	-	-	6,600	13,300	14,000
Jason Dwelley Parkway										ļ		
Kelly Park Rd to Ponkan Rd	2L	35	-	-	330	680	720	-	-	6,600	13,300	14,000
Keene Road												
Ocoee-Apopka Rd to Marden Rd	2L	45	-	-	750	790	790	-	-	15,100	15,900	15,900
Marden Rd to Clarcona Rd (CR 435)	2L	45	-	-	750	790	790	-	-	15,100	15,900	15,900
Clarcona Rd (CR 435) to Sheeler Rd	2L	45	-	-	750	790	790	-	-	15,100	15,900	15,900
Kelly Park Road												
Round Lake Rd to Plymouth-Sorrento Rd	2L	55	-	450	850	1,200	1,640	-	8,700	16,400	23,100	31,500
Plymouth-Sorrento Rd to Jason Dwelley Pkwy	2L	55	-	450	850	1,200	1,640	-	8,700	16,400	23,100	31,500
Jason Dwelley Pkwy to Mt. Plymouth Rd	2L	40	-	450	850	1,200	1,640	-	8,700	16,400	23,100	31,500
Mt. Plymouth Rd to Rock Springs Rd	2L	40	-	450	850	1,200	1,640	-	8,700	16,400	23,100	31,500
Lake Avenue/Marvin C Zanders Avenue												
Martin St to Orange St	2L	25	-	-	330	680	720	-	-	6,600	13,300	14,000
Orange St to US 441	2L	25	-	-	330	680	720	-	-	6,600	13,300	14,000
US 441 to 4th St	2L	25	-	_	330	680	720	-	-	6,600	13,300	14,000
Lake Cortez Drive					00 -		, -			- ,	0,0 -	1)
SR 436 to Evelyn Dr	2L	25	_	_	330	680	720	_	_	6,600	13,300	14,000
Minor Collector (Continued)		-5			330		/=0			0,000	10,000	14,000
Lake Doe Boulevard												
US 441 to Dunn Cove Dr	2L	25		_	330	680	720		_	6,600	13,300	14,000
Lake Francis Drive	211	25		_	330	000	/20		<u> </u>	0,000	13,300	14,000
Schopke Lester Rd to Errol Pkwy	2L	0.5			000	680	700		1	6 600	10.000	14.000
<u> </u>		25	-	-	330		720	-	-	6,600	13,300	14,000
Errol Pkwy to Vick Rd	2L	25		-	330	680	720	-	-	6,600	13,300	14,000
Lakeville Road	- T	_			_							
Wildwood St to Beggs Rd	2L	50		-	750	790	790	-	-	15,100	15,900	15,900
Beggs Rd to Clarcona Ocoee Rd	2L	50	-	-	750	790	790	-	-	15,100	15,900	15,900
Lester Road									_	<u> </u>		
Vick Rd to Schopke Lester Rd	2L	35	-	-	330	680	720	-	-	6,600	13,300	14,000
Schopke Lester Rd to Plymouth Sorrento Rd	2L	35	-	-	330	680	720	-	-	6,600	13,300	14,000
Marden Road												
Ocoee Apopka Rd to Keene Rd	2L	35	-	-	330	680	720	-	-	6,600	13,300	14,000
Martin Street												
Park Ave to Lake Ave	2L	25	-	-	330	680	720	-	-	6,600	13,300	14,000
Maine Ave to Vick Rd	2L	25	-	-	330	680	720	-	-	6,600	13,300	14,000
McCormick Road												
Ocoee-Apopka Rd to Clarcona Rd (CR 435)	2L	50	-	-	750	790	790	-	-	15,100	15,900	15,900
Midland Avenue												
US 441 to 6th St	2L	25	-	-	330	680	720	-	-	6,600	13,300	14,000
Monroe Avenue										<u> </u>		
Park Ave to Alabama Ave	2L	25	_	-	330	680	720	-	-	6,600	13,300	14,000
Alabama Ave to Sheeler Rd	2L	25	-	_	330	680	720	_	-	6,600	13,300	14,000
Mt. Plymouth Road	1				1 30-	<u> </u>					0,0	
Kelly Park Rd to Haas Rd	2L	45	-	-	750	790	790	-	-	15,100	15,900	15,900
Haas Rd to Lake County Line	2L	45	_	_	750	790	790	_	_	15,100	15,900	15,900
North Maine Avenue		70			/30	790	/ 90			10,100	10,900	10,900
Martin St to Old Dixie Hwy	2L	25	_	_	330	680	720	_	_	6,600	13,300	14,000
Old Dixie Highway/West Highland Avenue/O	1			 	<u> </u>	550	/20		 	0,000	10,000	14,000
Plymouth-Sorrento Rd to Boy Scout Blvd	2L	30		_	220	680	720	_	_	6,600	19 200	14,000
Boy Scout Blvd to Errol Pkwy	2L 2L	<u> </u>	_		330	680	 '	-	 	6,600	13,300	
<u> </u>		30	-		330	!	720	-	 	<u> </u>	13,300	14,000
Errol Pkwy to Vick Rd	2L	30	-	-	330	680	720	-	-	6,600	13,300	14,000
Vick Rd to Bradshaw Rd	2L	30	_	-	330	680	720	-	 	6,600	13,300	14,000
Bradshaw Rd to Hawthorne Ave	2L	25	-	-	330	680	720	-	-	6,600	13,300	14,000
Hawthorne Ave to Park Ave	2L	25	-	-	330	680	720	-	-	6,600	13,300	14,000
Ondich Road	ļ <u>-</u>				1				1		1	
Round Lake Rd to Plymouth-Sorrento Rd	2L	30	-	-	330	680	720	-	-	6,600	13,300	14,000
Ponkan Road						<u> </u>			<u> </u>	<u> </u>		
Round Lake Rd to Plymouth-Sorrento Rd	2L	35	-	-	330	680	720	-	-	6,600	13,300	14,000
Plymouth-Sorrento Rd to Vick Rd	2L	45	-	-	750	790	790	-	-	15,100	15,900	15,900
Vick Rd to Rock Springs Rd	2L	45	-	-	750	790	790	-	-	15,100	15,900	15,900
Rock Ridge Boulevard												
Rock Springs Rd to Haddington Ct	2L	30	-	-	330	680	720	-	-	6,600	13,300	14,000

Roadway Service Volumes

1/29/2015

City of Apopka 2014 Traffic Count Program Roadway Service Volumes (Capacities)

Class		Posted			A.M./P.M							
Roadway	No. of	Speed	Peal		irectiona		ies 1		Dai	ly Capaci	ties 1	
Segment	Lanes	Limit	A	В	C	D	<u>E</u>	A	В	C	D	Е
Minor Collector												
Roger Williams Road												
US 441 to SR 436	2L	30	_	_	330	680	720	_	_	6,600	13,300	14,000
Round Lake Road					00		,			,	0,0	17
Ponkan Rd to Sadler Ave	2L	50	-	_	750	790	790	-	-	15,100	15,900	15,900
Sadler Ave to Kelly Park Rd	2L	50	-	-	750	790	790	-	-	15,100	15,900	15,900
Kelly Park Rd to Lake County Line	2L	50	-	-	750	790	790	-	-	15,100	15,900	15,900
Sandpiper Road		Ĭ			, 0	, ,	, ,			<u> </u>	0,,	077
Park Ave to Ustler Rd	2L	40	-	-	750	790	790	_	-	15,100	15,900	15,900
Ustler Rd to Thompson Rd	2L	40	-	-	750	790	790	-	-	15,100	15,900	15,900
Schopke-Lester Road											1	
Lester Rd to Old Dixie Hwy	2L	35	-	-	330	680	720	-	-	6,600	13,300	14,000
Sheeler Oaks Drive												
Sheeler Rd to Saddleback Ridge	2L	45	-	-	750	790	790	-	-	15,100	15,900	15,900
Summit Street											1	
Rock Springs Rd to Lake Ave	2L	30	-	-	330	680	720	-	-	6,600	13,300	14,000
Tanglewild Street												
Rock Springs Rd to Ulster Rd	2L	30	-	-	330	680	720	-	-	6,600	13,300	14,000
Thompson Road												
Welch Rd to Votaw Rd	2L	45	-	-	750	790	790	-	-	15,100	15,900	15,900
Votaw Rd to SR 436	2L	35	-	-	330	680	720	-	-	6,600	13,300	14,000
Ustler Road												
Sandpiper Rd to Welch Rd	2L	30	-	-	330	680	720	-	-	6,600	13,300	14,000
Vick Road												
US 441 to Old Dixie Hwy	4LD	35	-	-	730	1,630	1,700	-	-	14,500	32,400	33,800
Old Dixie Hwy to Martin St	2LD	35	-	-	390	790	840	-	-	7,700	15,500	16,400
Martin St to Welch Rd	2LD	35	-	-	390	790	840	-	-	7,700	15,500	16,400
Welch Rd to Lake Francis Dr	2L	35	-	-	330	680	720	-	-	6,600	13,300	14,000
Lake Francis Dr to Lester Rd	2L	35	-	-	330	680	720	-	-	6,600	13,300	14,000
Lester Rd to Ponkan Rd	2L	35	-	-	330	680	720	-	-	6,600	13,300	14,000
Votaw Road												
Park Ave to Christiana Ave	2L	45	-	-	750	790	790	-	-	15,100	15,900	15,900
Christiana Ave to Thompson Rd	2L	45	-	-	750	790	790	-	-	15,100	15,900	15,900
Thompson Rd to Wekiva Springs Rd	2L	45	-	-	750	790	790	-	-	15,100	15,900	15,900
Woodfield Oaks Drive												
Arbor Way to Regal St	2L	25	-	-	330	680	720	-	-	6,600	13,300	14,000
Yothers Rd/Church Drive												
US 441 to Plymouth Sorrento Rd	2L	35	-	-	330	680	720	_	-	6,600	13,300	14,000

Notes:

- 1 Based on capacities from the Florida DOT 2013 Quality/Level of Service Handbook, Florida DOT ArtPlan2012 Software or Orange County.
- ${\bf 2}\;$ Roadway capacities calculated using ArtPlan updated with 2012 software

Source: 2014 Traffic Counts from Luke Transportation Engineering Consultants, Inc.

City of A^{331} a

^{* -} These segments of US 441 OBT are Constrained.

Base Traffic Volume: 2015 Revision Date: 2/9/2016 Adopted Standard **Encumbered Trips** Daily Traffic PM PH/PD Traffic Roadway # of Roadway Capacity Available Base Base Available Peak Lanes LOS Daily PHPD Applicant Inventory Section Daily PH/PD Volume | Capacity | Volume | Capacity | Direction **Major Arterials** SR 436 (Semoran Avenue) US 441 to Sheeler Rd 8LD D 80,100 4,040 24,039 56,061 987 NB/EB 3,053 Development Name <u>0</u> 69.99% 75.57% Applicant Inventory Total 0 Sheeler Rd to Thompson Rd 8LD D 80,100 4,040 SB/WB 33,464 46,636 1,438 2,602 Development Name 0 58.22% 64.41% Applicant Inventory Total Thompson Rd to Roger Williams Rd 8LD D 80,100 4,040 1,877 43,213 35,988 2,036 NB/EB Apopka Gateway Center 170 44.93% 50.40% North Park (FF Rests) 729 120 Applicant Inventory Total 899 127 Roger Williams Rd to Piedmont-Wekiwa Rd 8LD D 80,100 4,040 42,004 1,810 SB/WB 37,108 2,099 Apopka Gateway Center 259 11 46.33% 51.96% North Park (FF Rests) 120 729 Applicant Inventory Total 988 131 Piedmont Wekiwa Rd to Seminole County Line 6LD D 59,900 3,020 58,406 916 488 SB/WB 2,507 Apopka Gateway Center 578 25 1.53% 16.16% Applicant Inventory Total 578 25 US 441 (Orange Blossom Trail) Yothers Rd to SR 429 Connector Rd 4LD D 2,480 49,500 41,556 SB/WB 4,525 2,045 90 Avion Point 1,361 64 9.14% 3.63% Avion Point West 1,782 252 Chandler Estates 238 25 Orlando Country Airport 38 Applicant Inventory Total 3,419 345 SR 429 Connector Rd to Plymouth Sorrento Rd 4LD D 49,500 2,480 24,974 19,347 1,114 922 SB/WB Apopka Expressway Commerce 156 39.08% 37.18% Avion Point 2,643 124 Avion Point West 1,782 252 Chandler Estates 318 34 Clearlake Landing 16 213 Maudehelen, Phase 1, 2, & 3 32 3 Orlando Country Airport 35 Applicant Inventory Total 5,179 444 Plymouth Sorrento Rd to Boy Scout Blvd 4LD D 49,500 2,480 28,506 NB/EB 19,038 1,310 910 Apopka Expressway Commerce 104 38.46% 36.69% Avion Point West 1,692 239 Clearlake Landing 142 11 Maudehelen, Phase 1, 2, & 3 18 Applicant Inventory Total 1,956 260 Boy Scout Blvd to Errol Parkway 4LD D 55,400 2,600 29,279 25,462 1,179 1,363 NB/EB Clearlake Landing 45.96% 355 27 52.42% Maudehelen, Phase 1, 2, & 3 97 10 Poe Reserve

Applicant Inventory Total

Applicant Inventory Total

Poe Reserve

207

659

456

456

21

58

46

46

N/A

4,553

90.90%

N/A

184

80.00%

SB/WB

Errol Parkway to SR 451

4LD D 5,009

230

Base Traffic Volume: 2015 Revision Date: 2/9/2016 Adopted Standard **Encumbered Trips** Daily Traffic PM PH/PD Traffic Roadway Roadway Capacity
Daily PHPD Applicant Inventory # of PM Base Available Base Available Peak Section Lanes LOS Daily PH/PD Volume | Capacity | Volume | Capacity | Direction Minor Arterials (Continued) Wekiva Springs Road/Piedmont-Wekiwa Road/Hiawassee Road Votaw Rd to SR 436 5L E 39,800 23,591 16,078 690 1,304 NB/EB Apopka Gateway Center 50 40.40% 34.50% North Park (FF Rests) 81 Applicant Inventory Total 131 SR 436 to Piedmont Lakes Blvd 5L E 39,800 2,000 26,964 12,276 1,423 NB/EB 542 Apopka Gateway Center 269 12 30.84% 27.10% North Park (FF Rests) 291 23 Applicant Inventory Total 560 35 Piedmont Lakes Blvd to US 441 5L E 39,800 2,000 28,809 10,700 NB/EB 1,772 205 North Park (FF Rests) 291 23 26.88% 10.25% Applicant Inventory Total 291 23 US 441 to CR 424 (Apopka Blvd) 4LD E 39,800 23,571 16,229 1,111 889 NB/EB Development Name 0 0 40.78% 44.45% Applicant Inventory Total 0 CR 424 (Apopka Blvd) to SR 414 4LD E 39,800 2,000 19,336 864 NB/EB 20,464 1,136 Development Name 0 51.42% 56.80% Applicant Inventory Total Ω O SR 414 to Beggs Rd 4LD E 39,800 2,000 21,460 18,340 908 NB/EB 1,092 Development Name 0 46.08% 54.60% Applicant Inventory Total 0 0 Welch Road Vick Rd to Rock Springs Rd (CR 435) 2L E 16,400 840 10,312 5,861 518 NB/EB 298 Ladybird Academy 72 35.74% 35.48% Sanctuary Golf Estates (fka Apopka Golf Residence) 155 16 Applicant Inventory Total 227 24 Rock Springs Rd (CR 435) to Ustler Rd зL E 35,000 1,720 16,707 18,222 774 SB/WB 938 Ladybird Academy 71 52.06% 54.53% Applicant Inventory Total 71 8 Ustler Rd to Thompson Rd 2L E 33,300 1,640 16,277 17,023 845 NB/EB 795 Development Name 0 51.12% 48.48% Applicant Inventory Total 0 0 Minor Collectors 6th Street Park Avenue to Alabama Ave 2L D 9,600 490 1,963 SB/WB 7,637 155 335 Development Name 0 79.55% 68.37% Applicant Inventory Total 0 Binion Road (CR 437)/Orange Avenue (CR 437) Ocoee-Apopka Rd to Harmon Rd 2L E 880 17,700 3,580 12,086 242 486 NB/EB Apopka Woods 67 68.28% 55.23% Breckenridge (fka Pines of Lake Apopka) 21 Clearlake Landing 284 21 Clear Lake Reserve 21 Florida Hospital Replacement 1,109 66 Magnolia Park Estates (fka Park Place) 87 8 Maudehelen, Phase 1, 2, & 3 63 Old Palm Center PUD (fka, Thompson Hills Estates) 382 40 Applicant Inventory Total 2,034 152 Harmon Rd to Boy Scout Rd 2L E 17,700 880 3,899 11,615 NB/EB 493 Apopka Woods 67 65.62% 56.02% Breckenridge (fka Pines of Lake Apopka) 21 Clearlake Landing 284 21 Clear Lake Reserve 21 Florida Hospital Replacement 1,261 74 Magnolia Park Estates (fka Park Place) 87 8 Maudehelen, Phase 1, 2, & 3 63 Old Palm Center PUD (fka, Thompson Hills Estates) 382 40 Applicant Inventory Total 2,186 160

Base Traffic Volume: 2015 2/9/2016 Revision Date: Adopted Standard **Encumbered Trips** Daily Traffic PM PH/PD Traffic Roadway Roadway Capacity # of Base Available Base Available Peak Section Lanes LOS Daily PHPD Applicant Inventory PH/PD Daily Volume | Capacity | Volume | Capacity | Direction Minor Collectors (Continued) Binion Road (CR 437)/Orange Avenue (CR 437) (Continued) Boy Scout Rd to Lakeview Dr 2L E 17,700 880 NB/EB 4,774 11,257 278 461 Apopka Expressway Commerce 10 63.60% 130 52.39% Breckenridge (fka Pines of Lake Apopka) 5 0 Clearlake Landing 852 64 Clear Lake Reserve 43 Lake Doe Reserve (fka Lake Doe Cove, Phase 5) 178 19 Maudehelen, Phase 1, 2, & 3 255 27 Oakmont Industrial 206 <u> 16</u> Applicant Inventory Total 1,669 141 Lakeview Dr to US 441 880 2L E 17,700 SB/WB 4,009 12,481 244 497 Apopka Expressway Commerce 312 23 70.51% 56.48% Avion Point West 88 624 Chandler Estates 79 8 Clearlake Landing 32 3 Lake Doe Reserve (fka Lake Doe Cove, Phase 5) 12 119 Maudehelen, Phase 1, 2, & 3 44 5 Applicant Inventory Total 1,210 139 **Boy Scout Road** E Binion Rd to Ocoee-Apopka Rd 2L 15,900 NB/EB 1,062 13,659 58 644 Breckenridge (fka Pines of Lake Apopka) 64 85.91% 81.52% Clearlake Landing 284 22 Florida Hospital Replacement 26 434 Maudehelen, Phase 1, 2, & 3 191 20 Oakmont Industrial <u> 206</u> <u> 16</u> Applicant Inventory Total 88 1,179 Bradshaw Road US 441 to Ocoee-Apopka Rd 2L E 15,900 790 3,458 9,715 183 NB/EB 345 Cooper Oak (fka Bradshaw Commerce Park) 179 34 61.10% 43.67% Cooper Palms 87 605 Emerson Point 408 25 Faircloth Lakes 290 29 Florida Hospital Replacement 806 48 Johns Road Commerce Center 259 25 Oakmont Industrial 180 14 Applicant Inventory Total 2,727 262 Christiana Ave Votaw Rd to Monroe Ave 2L Ε 10,100 520 2,149 157 NB/EB 7,951 363 Development Name 78.72% 0 69.81% Applicant Inventory Total Cleveland Street Park Ave to Sheeler Rd 2L E 15,900 790 2,279 13,621 SB/WB 99 691 Development Name 0 85.67% 87.47% Applicant Inventory Total 0 Errol Parkway Lake Francis Dr to Lake Alden Dr D 2L 13,990 710 2,762 NB/EB 11,097 148 547 Errol Clubhouse Villas 79.32% 131 15 77.04% Applicant Inventory Total 131 15 Lake Alden Dr to Old Dixie Hwy 2L D 13,320 680 7,633 126 NB/EB 4,560 424 Dixie Manor @ Errol 41 34.23% 18.53% Errol Clubhouse Villas 128 1,086 Applicant Inventory Total 1,127 130 Old Dixie Hwy to US 441 2L D 14,000 710 8,186 4,898 452 NB/EB 157 Dixie Manor @ Errol 67 34.99% 22.11% Errol Clubhouse Villas 85 724 Poe Reserve 13 125 Applicant Inventory Total 916 101

Base Traffic Volume: 2015 Revision Date: 2/9/2016 Adopted Standard Encumbered Trips Daily Traffic PM PH/PD Traffic Roadway # of Roadway Capacity
Lanes LOS Daily PHPD Applicant Inventory Base Available Base Available PMPeak Section Daily PH/PD Volume Capacity Volume Capacity Direction Minor Collectors (Continued) General Electric Road Hermit Smith Rd to Orange Ave 2L D 15,900 790 532 14,655 38 NB/EB 651 Avion Point West 713 101 92.17% 82.41% Applicant Inventory Total 713 101 Golden Gem Road Kelly Park Rd to Ponkan Rd 2L D 13,300 680 716 12,584 27 SB/WB 653 Development Name 0 94.62% 96.03% 0 Applicant Inventory Total Ω Haas Road Plymouth-Sorrento Rd to Mt Plymouth Rd 2L D 15,900 790 677 15,223 48 NB/EB 742 Development Name 95.74% 0 93.92% Applicant Inventory Total Ω Harmon Road Ocoee-Apopka Rd to Binion Rd 2L D 15,900 790 552 12,971 31 SB/WB 619 Florida Hospital Replacement 2,377 140 81.58% 78.35% Applicant Inventory Total 2,377 140 Hawthorne Avenue US 441 to Ocoee-Apopka Rd 2L D 680 13,300 1,252 SB/WB 12,048 71 609 Development Name 0 0 90.59% 89.56% Applicant Inventory Total 0 0 Ocoee-Apopka Rd to 13th St 2L D 13,300 680 1,403 11,897 66 614 SB/WB Development Name 0 0 89.45% 90.29% Applicant Inventory Total 0 0 Hermit Smith Road General Electric Rd to US 441 15,900 790 691 53 NB/EB 14,407 624 Avion Point West 802 113 90.61% 78.99% Applicant Inventory Total 802 113 US 441 to Yothers Rd 2L Ε 15,900 790 1,425 12,783 109 NB/EB 442 Avion Point West 1,692 239 80.40% 55.95% Applicant Inventory Total 1,692 239 Hogshead Road Hermit Smith Rd to Conrad Rd 2L E 14,000 720 777 12,333 _58 NB/EB 536 Avion Point West 890 126 88.09% 74.44% Applicant Inventory Total 890 126 Jason Dwelley Parkway Kelly Park Rd to Ponkan Rd 2L E 14,000 720 2,089 11,127 NB/EB 107 556 Appy Lane Subdivision 161 17 79.48% 77.22% Orchid Estates (fka J.B. Nurseries) 623 40 Applicant Inventory Total 784 57 Keene Road Ocoee-Apopka Rd to Marden Rd 2L Ε 15,900 790 2,841 12,078 168 NB/EB 577 Emerson Point 68 Florida Hospital Replacement 31 Magnolia Park Estates (fka Park Place) 58 6 Marden Ridge Apartments 704 24 Oakmont Industrial 120 9 Applicant Inventory Total 981 45 Marden Rd to Clarcona Rd (CR 435) 2L E 15,900 790 4,202 10,021 205 496 NB/EB Alicante Subdivision 58 63.03% 62.78% Circle K Retail 570 22 Emerson Point 476 29 Magnolia Park Estates (fka Park Place) 58 6 Marden Ridge Apartments 352 12 Oakmont Industrial 120 9 Silver Oaks 43 47.99% 46.08% Applicant Inventory Total 1,677 89 Clarcona Rd (CR 435) to Sheeler Rd 2L D 15,900 790 7,784 7,630 NB/EB 399 364 Circle K Retail 351 47.99% 13 46.08% Silver Oaks 135 47.99% 46.08% 14 Applicant Inventory Total 486 27

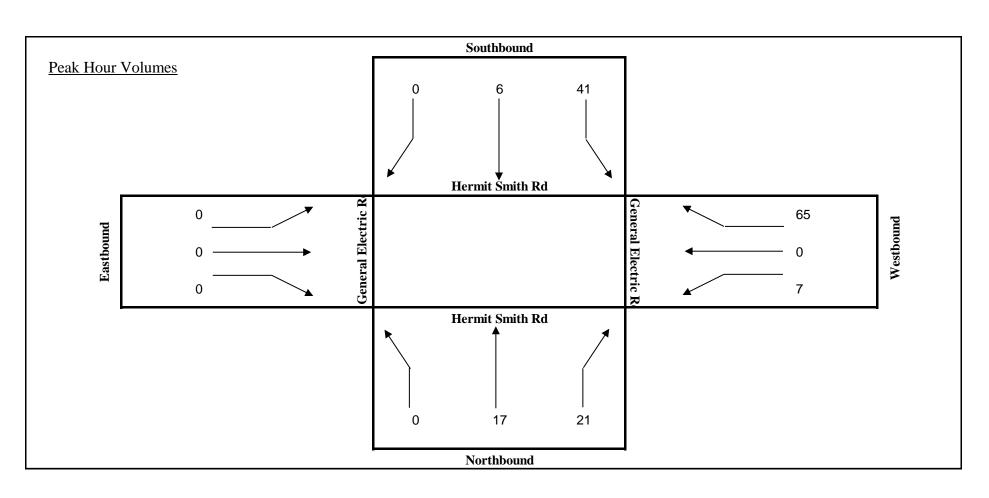
Base Traffic Volume: 2015		_	J J.C.	1 1						Revision		2/9/201
Roadway		A	dopted Sta			Encumb	ered Trips	Daily	Traffic	PI	I PH/PD T	raffic
Section	# of	7.00	Roadway				PM	Base	Available	Base		
	Lanes	LUS	Daily	PHPD	Applicant Inventory	Daily	PH/PD	Volume	Capacity	Volume	Capacity	Directio
Minor Collectors (Continued)												
Mt. Plymouth Road		-										
Kelly Park Rd to Haas Rd	2L	D	15,900	790				7,506	8,394	465	325	NB/EB
					Development Name	<u>o</u>	<u>0</u>		52.79%		41.14%	
** 71. * 1					Applicant Inventory Total	0	0					
Haas Rd to Lake County Line	2L	D	15,900	790				5,346	10,554	309	481	NB/EB
					Development Name	0	0		66.38%		60.89%	1.2,22
77 77 77 77					Applicant Inventory Total	0	0				55,576	
North Maine Avenue												
Martin St to Old Dixie Hwy	2L	D	13,300	680				1,875	11,425	110	570	NB/EB
					Development Name	0	0	7-70	85.90%		83.82%	IND/ ED
					Applicant Inventory Total	0	0		0,19070		03.0270	
Old Dixie Highway/West Highland Avenue/O												
Plymouth Sorrento Rd to Boy Scout Blvd	2L	E	14,000	720				2,154	11,846	119	601	NB/EB
					Development Name	0	0	~,~,,	84.61%	119	83.47%	
					Applicant Inventory Total	0	0		04.01/0		03.4/70	
Boy Scout Blvd to Errol Pkwy	2L	E	14,000	720				3,857	9,817	191	512	NB/EB
					Dixie Manor @ Errol	326	17	3,037	70.12%	191	71.11%	ND/EB
					Applicant Inventory Total	326	17		70.1270		/1.11/0	
Errol Pkwy to Vick Rd	2L	E	14,000	720				7,118	6,665	344	365	SB/WB
					Dixie Manor @ Errol	217	11	/,110	47.61%	344	50.69%	SB/ WB
					Applicant Inventory Total	217	11		47.0176		50.09%	
Vick Rd to Bradshaw Rd	2L	E	14,000	720		/		7,707	6,293	364	056	NB/EB
					Development Name	0	0	/,/0/	44.95%	304	356	ND/EB
					Applicant Inventory Total	0	0		44.95%		49.44%	
Bradshaw Rd to Hawthorne Ave	2L	E	14,000	720	*** Private III (OILO) 'I OLU	- 0	0	3,964	10,036	000	488	NTD /TID
					Development Name	0	0	3,904		232		NB/EB
					Applicant Inventory Total	0	0		71.69%		67.78%	
Hawthorne Ave to Park Ave	2L	Е	14,000	720	product in chicity Total	0	0					
			1-1,000	/20	Park Ave Professional Center			2,345	11,640	111	608	NB/EB
					Applicant Inventory Total	15	1		83.14%		84.44%	
Ponkan Road					Applicant lilventory Total	15	1					
Round Lake Rd to Plymouth-Sorrento Rd	2L	E	14,000	720								·
			14,000	/20	Development Name			3,830	10,170	179	541	NB/EB
					Applicant Inventory Total	0	0		72.64%		75.14%	
Plymouth-Sorrento Rd to Vick Rd	2L	E	15,900	790	Applicant inventory rotal	0	0					
- January Control Control Control	- 20	15	15,900	/90	Appy Lane Subdivision			5,063	9,836	355	361	SB/WB
						46	5_		61.86%		45.70%	
					Hillside at Wekiva (fka Ponkan Reserve - North) Oak Ridge Subdivision	122	13					
		_			Orchid Estates (fka J.B. Nurseries)	186	12					
		-			Drenia Estates (ika J.B. Nurseries)	565	36					
		-			Ponkan Reserve - South	79	8					
					Rock Springs Ridge	3_	<u>0</u>					
Vick Rd to Rock Springs Rd	2L	Е	15.000	F00	Applicant Inventory Total	1,001	74					
. zox zea to reock uprinigo rea	21	E	15,900	790	AT Q-1-31-1-1			3,756	11,078	208	489	NB/EB
	-	-			Appy Lane Subdivision	115	12		69.67%		61.90%	
		-			Hillside at Wekiva (fka Ponkan Reserve - North)	293	31					
					Orchid Estates (fka J.B. Nurseries)	462	29_					
					Ponkan Reserve - South	190	20					
		-			Rock Springs Ridge	6	1					
		L		L	Applicant Inventory Total	1,066	93					

Appendix E
Traffic Counts & FDOT Seasonal Factor Report

Intersection (N/S): Hermit Smith Rd Intersection (E/W): General Electric Rd

Date: 3/13/2018

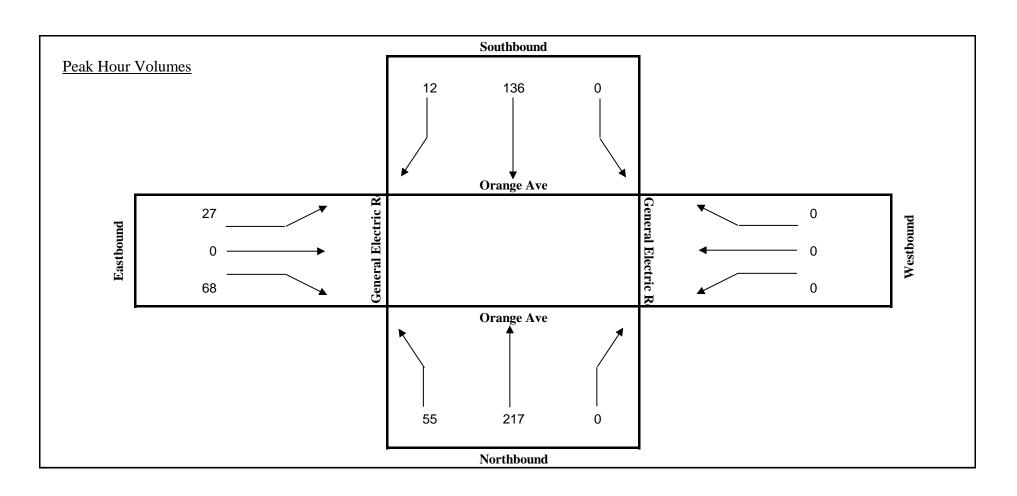
			I	Hermit Smith R	d	E	Iermit Smith R	d	Ge	eneral Electric	Rd	Ge	eneral Electric	Rd	
				NB			SB			EB			WB		
	Start	End	L	T	R	L	T	R	L	T	R	L	T	R	TOTAL
	4:00 PM	4:15 PM	0	5	3	3	4	0	0	0	0	1	0	7	23
	4:15 PM	4:30 PM	0	4	5	5	2	0	0	0	0	4	0	11	31
	4:30 PM	4:45 PM	0	8	5	4	4	0	0	0	0	2	0	12	35
	4:45 PM	5:00 PM	0	1	5	4	0	0	0	0	0	2	0	18	30
	5:00 PM	5:15 PM	0	6	6	23	2	0	0	0	0	1	0	19	57
	5:15 PM	5:30 PM	0	2	5	10	0	0	0	0	0	2	0	16	35
	5:30 PM	5:45 PM	0	2	0	3	1	0	0	0	0	0	0	13	19
	5:45 PM	6:00 PM	0	6	3	3	2	0	0	0	0	1	0	5	20
Total for:	4:00 PM	5:00 PM	0	18	18	16	10	0	0	0	0	9	0	48	119
Total for:	5:00 PM	6:00 PM	0	16	14	39	5	0	0	0	0	4	0	53	131
Tota Peak Hour:	4:30 PM	5:30 PM	0	17	21	41	6	0	0	0	0	7	0	65	157
Overall PHF:	0.69														



Intersection (N/S): Orange Ave
Intersection (E/W): General Electric Rd

Date: 3/13/2018

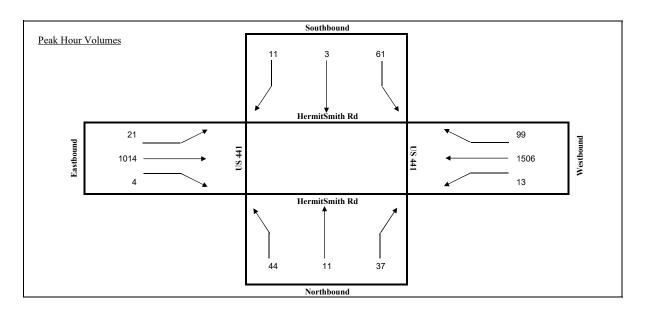
				Orange Ave			Orange Ave		Ge	neral Electric	Rd	Ge	eneral Electric	Rd	
				NB			SB			EB			WB		
	Start	End	L	T	R	L	T	R	L	T	R	L	T	R	TOTAL
	4:00 PM	4:15 PM	8	41	0	0	28	3	4	0	6	0	0	0	90
	4:15 PM	4:30 PM	7	50	0	0	35	3	3	0	10	0	0	0	108
	4:30 PM	4:45 PM	12	62	0	0	28	2	6	0	11	0	0	0	121
	4:45 PM	5:00 PM	14	48	0	0	27	4	6	0	12	0	0	0	111
	5:00 PM	5:15 PM	12	52	0	0	34	4	8	0	31	0	0	0	141
	5:15 PM	5:30 PM	17	55	0	0	47	2	7	0	14	0	0	0	142
	5:30 PM	5:45 PM	11	65	0	0	30	0	1	0	8	0	0	0	115
	5:45 PM	6:00 PM	6	31	0	0	29	1	4	0	5	0	0	0	76
_															
Total for:	4:00 PM	5:00 PM	41	201	0	0	118	12	19	0	39	0	0	0	430
Total for:	5:00 PM	6:00 PM	46	203	0	0	140	7	20	0	58	0	0	0	474
Tota Peak Hour:	4:30 PM	5:30 PM	55	217	0	0	136	12	27	0	68	0	0	0	515
Overall PHF:	0.91														



Intersection (N/S): HermitSmith Rd

Intersection (E/W): US 441

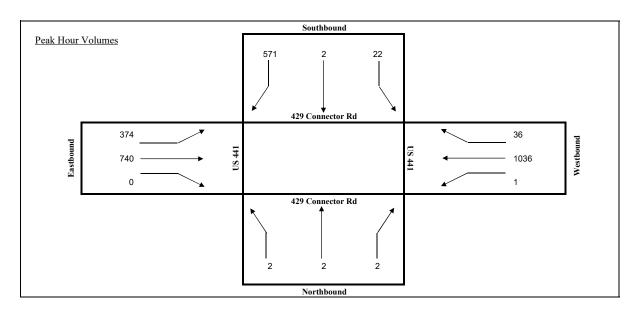
_			I	HermitSmith R	d	I	HermitSmith R	ld		US 441			US 441		
				NB			SB			EB			WB		
	Start	End	L	T	R	L	T	R	L	T	R	L	T	R	TOTAL
	4:00 PM	4:15 PM	7	3	13	14	1	3	1	179	7	7	252	20	507
	4:15 PM	4:30 PM	8	0	5	10	1	3	3	215	1	3	348	22	619
	4:30 PM	4:45 PM	7	0	10	8	1	5	9	224	2	4	394	27	691
	4:45 PM	5:00 PM	11	1	5	18	0	1	4	237	1	5	349	21	653
	5:00 PM	5:15 PM	16	7	18	21	1	1	4	273	0	2	392	22	757
	5:15 PM	5:30 PM	10	3	4	14	1	4	4	280	1	2	371	29	723
	5:30 PM	5:45 PM	5	2	4	17	0	3	4	245	0	3	366	17	666
	5:45 PM	6:00 PM	10	2	3	18	1	1	3	220	1	4	329	28	620
_															
Total for:	4:00 PM	5:00 PM	33	4	33	50	3	12	17	855	11	19	1343	90	2470
Total for:	5:00 PM	6:00 PM	41	14	29	70	3	9	15	1018	2	11	1458	96	2766
Tota Peak Hour:	4:30 PM	5:30 PM	44	11	37	61	3	11	21	1014	4	13	1506	99	2824
Overall PHF:	0.93	·			· · · · · · · · · · · · · · · · · · ·	•		· · · · · · · · · · · · · · · · · · ·	-		·	•			-



Intersection (N/S): 429 Connector Rd

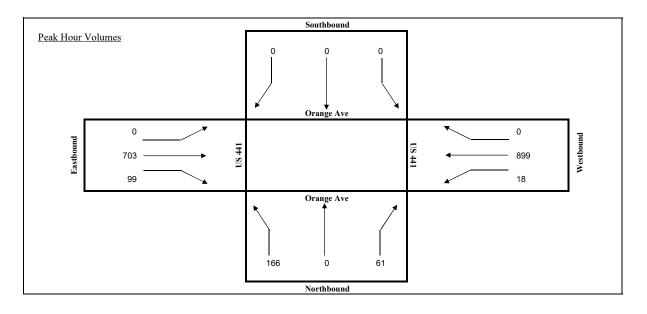
Intersection (E/W): US 441

_			4	29 Connector R	ld	42	29 Connector l	Rd		US 441			US 441		
				NB			SB			EB			WB		
	Start	End	L	T	R	L	T	R	L	T	R	L	T	R	TOTAL
	4:00 PM	4:15 PM	0	1	1	3	0	90	76	128	0	0	188	10	497
	4:15 PM	4:30 PM	2	4	0	2	1	119	90	135	0	0	250	8	611
	4:30 PM	4:45 PM	0	1	0	13	1	148	86	153	0	0	273	8	683
	4:45 PM	5:00 PM	1	1	1	4	0	134	97	164	0	0	234	9	645
	5:00 PM	5:15 PM	1	0	1	3	1	138	91	225	0	0	277	9	746
	5:15 PM	5:30 PM	0	0	0	2	0	151	100	198	0	1	252	10	714
	5:30 PM	5:45 PM	0	0	1	2	0	138	79	184	0	0	256	10	670
	5:45 PM	6:00 PM	1	1	0	3	0	124	73	172	0	1	240	8	623
Total for:	4:00 PM	5:00 PM	3	7	2	22	2	491	349	580	0	0	945	35	2436
Total for:	5:00 PM	6:00 PM	2	1	2	10	1	551	343	779	0	2	1025	37	2753
Tota Peak Hour:	4:30 PM	5:30 PM	2	2	2	22	2	571	374	740	0	1	1036	36	2788
Overall PHF:	0.93					-			-						-



Intersection (N/S): Orange Ave Intersection (E/W): US 441

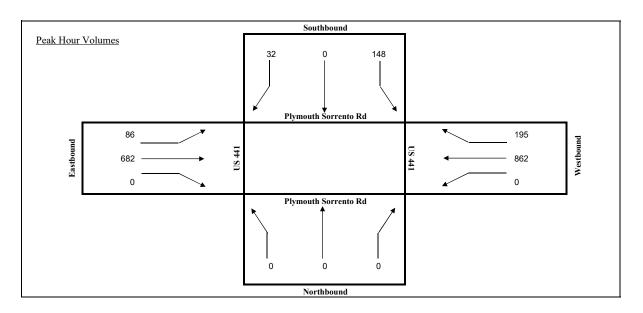
_				Orange Ave			Orange Ave			US 441			US 441		
				NB			SB			EB			WB		
	Start	End	L	T	R	L	T	R	L	T	R	L	T	R	TOTAL
	4:00 PM	4:15 PM	28	0	12	0	0	0	0	117	15	5	171	0	348
	4:15 PM	4:30 PM	47	0	9	0	0	0	0	124	13	7	211	0	411
	4:30 PM	4:45 PM	38	0	20	0	0	0	0	136	30	6	243	0	473
	4:45 PM	5:00 PM	43	0	15	0	0	0	0	150	18	3	200	0	429
	5:00 PM	5:15 PM	38	0	29	0	0	0	0	194	37	4	249	0	551
	5:15 PM	5:30 PM	43	0	10	0	0	0	0	178	22	7	220	0	480
	5:30 PM	5:45 PM	59	0	13	0	0	0	0	180	15	6	207	0	480
	5:45 PM	6:00 PM	26	0	9	0	0	0	0	151	25	1	223	0	435
_															
Total for:	4:00 PM	5:00 PM	156	0	56	0	0	0	0	527	76	21	825	0	1661
Total for:	5:00 PM	6:00 PM	166	0	61	0	0	0	0	703	99	18	899	0	1946
Tota Peak Hour:	5:00 PM	6:00 PM	166	0	61	0	0	0	0	703	99	18	899	0	1946
Overall PHF:	0.88	•				· · · · · ·			·	•	-		•	•	-



Intersection (N/S): Plymouth Sorrento Rd

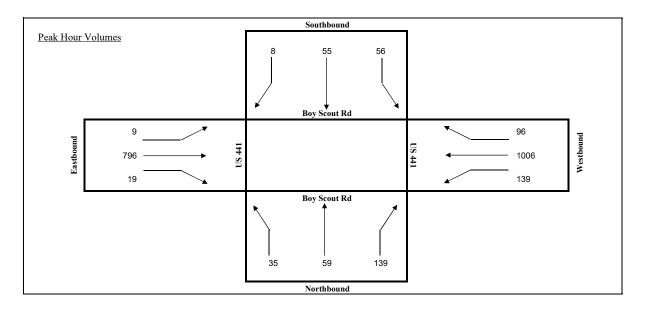
Intersection (E/W): US 441

			Ply	mouth Sorrento	o Rd	Plyr	nouth Sorrent	o Rd		US 441			US 441		
				NB			SB			EB			WB		
	Start	End	L	T	R	L	T	R	L	T	R	L	T	R	TOTAL
	4:00 PM	4:15 PM	0	0	0	31	0	7	20	111	0	0	166	46	381
	4:15 PM	4:30 PM	0	0	0	39	0	6	15	119	0	0	200	45	424
	4:30 PM	4:45 PM	0	0	0	36	0	8	18	140	0	0	236	47	485
	4:45 PM	5:00 PM	0	0	0	29	0	3	14	152	0	0	195	46	439
	5:00 PM	5:15 PM	0	0	0	36	0	4	29	197	0	0	245	43	554
	5:15 PM	5:30 PM	0	0	0	33	0	11	19	172	0	0	211	49	495
	5:30 PM	5:45 PM	0	0	0	40	0	7	21	169	0	0	196	55	488
	5:45 PM	6:00 PM	0	0	0	39	0	10	17	144	0	0	210	48	468
_															
Total for:	4:00 PM	5:00 PM	0	0	0	135	0	24	67	522	0	0	797	184	1729
Total for:	5:00 PM	6:00 PM	0	0	0	148	0	32	86	682	0	0	862	195	2005
Tota Peak Hour:	5:00 PM	6:00 PM	0	0	0	148	0	32	86	682	0	0	862	195	2005
Overall PHF:	0.90					-			•			· · · · · · · · · · · · · · · · · · ·			_



Intersection (N/S): Boy Scout Rd Intersection (E/W): US 441

_				Boy Scout Rd			Boy Scout Rd			US 441			US 441		
				NB			SB			EB			WB		
	Start	End	L	T	R	L	T	R	L	T	R	L	T	R	TOTAL
	4:00 PM	4:15 PM	6	8	22	5	8	2	1	137	2	15	201	10	417
	4:15 PM	4:30 PM	9	13	26	8	14	3	3	145	3	22	230	12	488
	4:30 PM	4:45 PM	10	22	54	7	7	0	4	168	2	15	276	14	579
	4:45 PM	5:00 PM	8	27	31	14	6	2	1	166	12	20	224	14	525
	5:00 PM	5:15 PM	9	17	46	10	16	1	3	221	7	34	276	24	664
	5:15 PM	5:30 PM	9	18	34	20	17	4	2	203	3	28	243	28	609
	5:30 PM	5:45 PM	8	14	35	9	9	2	1	203	3	32	235	18	569
	5:45 PM	6:00 PM	9	10	24	17	13	1	3	169	6	45	252	26	575
_															
Total for:	4:00 PM	5:00 PM	33	70	133	34	35	7	9	616	19	72	931	50	2009
Total for:	5:00 PM	6:00 PM	35	59	139	56	55	8	9	796	19	139	1006	96	2417
Tota Peak Hour:	5:00 PM	6:00 PM	35	59	139	56	55	8	9	796	19	139	1006	96	2417
Overall PHF:	0.91		•												_



2017 PEAK SEASON FACTOR CATEGORY REPORT - REPORT TYPE: ALL CATEGORY: 7500 ORANGE COUNTYWIDE

CITIEC	one , so o one of other cool, i miss	•	MOCF: 0.98
WEEK	DATES	SF	PSCF
			MOCF: 0.98 PSCF
27 28 29 30 31 32 33 34 35 36 37 38 39	07/02/2017 - 07/08/2017 07/09/2017 - 07/15/2017 07/16/2017 - 07/22/2017 07/23/2017 - 07/29/2017 07/30/2017 - 08/05/2017 08/06/2017 - 08/12/2017 08/13/2017 - 08/19/2017 08/20/2017 - 08/26/2017 08/27/2017 - 09/02/2017 09/03/2017 - 09/09/2017 09/10/2017 - 09/16/2017 09/17/2017 - 09/23/2017 09/24/2017 - 09/30/2017	1.01 1.02 1.01 1.00 1.00 0.99 0.99 1.01 1.04 1.06 1.09 1.07	1.03 1.04 1.03 1.02 1.02 1.01 1.01 1.03 1.06 1.08 1.11 1.09
41 42 43 44 45 46 47 48 49 50 51 52 53	10/08/2017 - 10/14/2017 10/15/2017 - 10/14/2017 10/15/2017 - 10/28/2017 10/22/2017 - 10/28/2017 10/29/2017 - 11/04/2017 11/05/2017 - 11/11/2017 11/12/2017 - 11/18/2017 11/19/2017 - 11/25/2017 11/26/2017 - 12/02/2017 12/03/2017 - 12/09/2017 12/10/2017 - 12/16/2017 12/17/2017 - 12/23/2017 12/24/2017 - 12/30/2017 12/31/2017 - 12/31/2017	1.01 0.99 0.99 0.99 1.00 1.00 1.01 1.01	1.03 1.01 1.01 1.01 1.02 1.02 1.02 1.03 1.03 1.03 1.03

^{*} PEAK SEASON

02-MAR-2018 15:35:06

830UPD 5_7500_PKSEASON.TXT

ntersection: US 441 & Boy S Equipment: Eagle ATCnx	cout Blvd/La	ike View Dr			Int. # Date:	20 5/1/2018	Node Address:	37
			BASIC TII	MING				
Phase	1	2	3	4	5	6	7	8
Direction	WBL	EB		SB		WB		NB
/lin Green (sec)	5	15		5		15		5
/ehicle Gap (sec)	2.0	3.0		3.0		3.0		3.0
Max Green 1 (sec)	15	50		25		50		15
Max Green 2 (sec)	15	50		25		50		25
'ellow Change Interval (sec)	4.8	5.2		3.7		4.8		3.9
Red Clearance Interval (sec)	2.3	2.0		2.8		2.0		2.9
Valk (sec)		7		7		7		
lash Don't Walk (sec)		13		31		15		
/lin Split (sec)	13	28		45		29		12
Recall/Memory	NL	SF/LK		NL		SF/LK		NL
Detector Delay (sec)	5			5				
Detector Switching	1>6							
Dual Entry		Υ		Υ		Υ		Υ
Overlap								
lash		Υ		R		Υ		R
Speed (mph)	45	45		30		45		30
Approach Grades (%)	2.2%	-3.5%		0.4%		2.2%		-3.6%
eh Traversed Distance (ft)	98	113		147		135		148
Ped Crossing Distance (ft)		43		108		50		
Ped Clearance (sec)		13		31		15		
Ped-button to curb (ft)		25		16		16		
Ped-button to far curb (ft)		68		124		66		
Ped Clearance to far curb (sec		23		42		22		
		COC	ORDINATIO	N PLANS				
Coordination Pattern	1/1/1	2/1/1	3/1/1	3/2/2		Day	Time	Patter
Cycle	150	140	150	140		1	0:01	FREE
Split 1	18	23	19	20		1	9:45	2/1/1
Split 2	97	87	91	85		1	19:00	FREE
Split 3	0	0	0	0		2	0:01	FREE
Split 4	35	30	40	35		2	6:30	1/1/1
Split 5	18	0	0	0		2	9:30	2/1/1
Split 6	97	110	110	105		2	14:00	3/1/1
Split 7	0	0	0	0		2	18:00	2/1/1
Split 8	35	30	40	35		2	20:00	FRE
Offset	91	87	102	109		7	0:01	FRE
agging Phases	0/0/0/0	0/0/0/0	0/0/0/0	0/0/0/0		7	9:30	2/1/1
Source Day	Equate 1	Equate 2	Equate 3	Equate 4	Equate 5	7	19:30	FRE
(Sunday) 1	2	A	E	6				
(Monday) 2	3	4	5	6				
(Saturday) 7 lotes:								
. Offset referenced to start of m	nainstreet gre	en				All Pa	tterns	
						<u> u</u>		

Max Green 1 (sec) 25 35 Max Green 2 (sec) 25 35 Yellow Change Interval (sec) 4.9 4.8 Red Clearance Interval (sec) 2.9 2.0 Walk (sec)	5	6 EB 15 3.0 35 35 4.9 2.0	7	8 SB 5 4.0 30 30 4.8 2.0
Direction EBL WB Min Green (sec) 5 15 Wehicle Gap (sec) 1.8 3.0 Max Green 1 (sec) 25 35 Max Green 2 (sec) 25 35 Max Green 2 (sec) 25 35 Max Green 2 (sec) 2.9 4.8 Max Green 2 (sec) 4.9 4.8 Max Green 2 (sec) Max Gree	5	EB 15 3.0 35 35 4.9	7	SB 5 4.0 30 30 4.8
Min Green (sec) 5 15 Vehicle Gap (sec) 1.8 3.0 Max Green 1 (sec) 25 35 Max Green 2 (sec) 25 35 Yellow Change Interval (sec) 4.9 4.8 Red Clearance Interval (sec) 2.9 2.0 Walk (sec) Flash Don't Walk (sec) Min Split (sec) 13 22 Recall/Memory NL SF/LK Detector Delay (sec) Detector Switching 1>6 Dual Entry Y		15 3.0 35 35 4.9		5 4.0 30 30 4.8
Vehicle Gap (sec) 1.8 3.0 Max Green 1 (sec) 25 35 Max Green 2 (sec) 25 35 Yellow Change Interval (sec) 4.9 4.8 Red Clearance Interval (sec) 2.9 2.0 Walk (sec) 5 4.8 Flash Don't Walk (sec) 2.9 2.0 Min Split (sec) 13 22 Recall/Memory NL SF/LK Detector Delay (sec) 5 4 Detector Switching 1>6 7 Overlap 7 7		3.0 35 35 4.9		4.0 30 30 4.8
Max Green 1 (sec) 25 35 Max Green 2 (sec) 25 35 Yellow Change Interval (sec) 4.9 4.8 Red Clearance Interval (sec) 2.9 2.0 Walk (sec) 5 4.8 Flash Don't Walk (sec) 2.9 2.0 Min Split (sec) 13 22 Recall/Memory NL SF/LK Detector Delay (sec) 5 5 Detector Switching 1>6 7 Overlap 7 7		35 35 4.9		30 30 4.8
Max Green 2 (sec) 25 35 Yellow Change Interval (sec) 4.9 4.8 Red Clearance Interval (sec) 2.9 2.0 Walk (sec) Flash Don't Walk (sec) Min Split (sec) 13 22 Recall/Memory NL SF/LK Detector Delay (sec) Detector Switching 1>6 Dual Entry Y Overlap Y		35 4.9		30 4.8
Yellow Change Interval (sec) 4.9 4.8 Red Clearance Interval (sec) 2.9 2.0 Walk (sec) Flash Don't Walk (sec) Min Split (sec) 13 22 Recall/Memory NL SF/LK Detector Delay (sec) Detector Switching 1>6 Dual Entry Y Overlap Y		4.9		4.8
Red Clearance Interval (sec) 2.9 2.0		-		
Walk (sec) 13 22 Min Split (sec) 13 22 Recall/Memory NL SF/LK Detector Delay (sec) 1>6 Y Dual Entry Y Y Overlap Y Y		2.0		2.0
Flash Don't Walk (sec) 13 22				
Min Split (sec) 13 22 Recall/Memory NL SF/LK Detector Delay (sec) Detector Switching 1>6 Dual Entry Y Overlap Flash Y				
Recall/Memory NL SF/LK Detector Delay (sec) 1>6 Detector Switching 1>6 Dual Entry Y Overlap Y Flash Y				
Detector Delay (sec) 1>6 Detector Switching 1>6 Dual Entry Y Overlap Y Flash Y		22		12
Detector Switching 1>6 Dual Entry Y Overlap Y Flash Y		SF/LK		NL
Dual Entry Overlap Flash Y				
Overlap Y				
Flash Y		Υ		
		Υ		R
Speed (mph) 45 45		45		45
Approach Grades (%) -1.0% 0.1%		-1.0%		0.2%
Veh Traversed Distance (ft) 122 136		141		119
Ped Crossing Distance (ft)				
Ped Clearance (sec)				
Ped-button to curb (ft)				
Ped-button to far curb (ft)				

	COORDINATION PLANS											
Coordination Pattern	1/1/1	2/1/1	3/1/1	3/2/2		Day	Time	Pattern				
Cycle	150	140	150	140		1	0:01	FREE				
Split 1	18	18	20	20		1	9:45	2/1/1				
Split 2	107	101	110	100		1	19:00	FREE				
Split 3	0	0	0	0		2	0:01	FREE				
Split 4	0	0	0	0		2	6:30	1/1/1				
Split 5	0	0	0	0		2	9:30	2/1/1				
Split 6	125	119	130	120		2	14:00	3/1/1				
Split 7	0	0	0	0		2	18:00	2/1/1				
Split 8	25	21	20	20		2	20:00	FREE				
Offset	66	69	31	106		7	0:01	FREE				
Lagging Phases	0/0/0/0	0/0/0/0	0/0/0/0	0/0/0/0		7	9:30	2/1/1				
Source Day	Equate 1	Equate 2	Equate 3	Equate 4	Equate 5	7	19:30	FREE				
(Sunday) 1				•								
(Monday) 2	3	4	5	6								
(Saturday) 7												

Notes:

- Offset referenced to start of mainstreet green
 Use Plan Force-offs
 Use Max Inhibit during coordination

All Pa	itterns
2	
6	8

Intersection: US 441 & Orang Equipment: Siemens m50	e Ave /T. L.	Smith Rd			Int. # Date:	22 5/1/2018	Node Address:	247
			BASIC TI	MING				
Phase	1	2	3	4	5	6	7	8
Direction		WB		NB	WBL	EB		SB
Min Green (sec)		20		5	5	15		5
Vehicle Gap (sec)		3.0		3.0	3.0	3.0		3.0
Max Green 1 (sec)		67		18	14	45		18
Max Green 2 (sec)		67		18	14	45		18
Yellow Change Interval (sec)		4.9		4.4	4.9	4.8		3.4
Red Clearance Interval (sec)		2.0		2.1	3.0	2.0		4.1
Walk (sec)								
Flash Don't Walk (sec)								
Min Split (sec)		27		12	13	22		13
Recall/Memory		NL		NL	NL	SF/LK		NL
Detector Delay (sec)								
Detector Switching								
Dual Entry		Y		Υ		Y		Υ
Overlap								
Flash		Υ		R	Υ	Υ		R
Speed (mph)		45		40	45	45		25
Approach Grades (%)		-1.0%		-0.4%	-1.0%	-0.6%		-2.3%
Veh Traversed Distance (ft)		168		160	125	162		167
Ped Crossing Distance (ft)								
Ped Clearance (sec)								
Ped-button to curb (ft)								
Ped-button to far curb (ft)								
Ped Clearance to far curb (see								

COORDINATION PLANS											
Coordination Pattern	1/1/1	2/1/1	3/1/1	3/2/2		Day	Time	Pattern			
Cycle	150	140	150	140		1	0:01	FREE			
Split 1	0	0	0	0		1	9:45	2/1/1			
Split 2	130	120	108	100		1	19:00	FREE			
Split 3	0	0	0	0		2	0:01	FREE			
Split 4	20	20	42	40		2	6:30	1/1/1			
Split 5	20	18	18	18		2	9:30	2/1/1			
Split 6	110	102	90	82		2	14:00	3/1/1			
Split 7	0	0	0	0		2	18:00	2/1/1			
Split 8	20	20	42	40		2	20:00	FREE			
Offset	64	66	43	51		7	0:01	FREE			
Lagging Phases	0/0/0/0	0/0/0/0	0/0/0/0	0/0/0/0		7	9:30	2/1/1			
Source Day	Equate 1	Equate 2	Equate 3	Equate 4	Equate 5	7	19:30	FREE			
(Sunday) 1											
(Monday) 2	3	4	5	6							
(Saturday) 7											

- Notes:
 1. Offset referenced to start of mainstreet green
 2. Use Plan Force-offs
 3. Use Max Inhibit during coordination

	All Pa	itterns	
	2		4
5	6		8

ORANGE COUNTY TRAFFIC SIGNAL TIMING SHEET Intersection: US 441 & SR 429 Connector Rd Int.# 23 Node 624 Equipment: Siemens m50 Date: 5/1/2018 Address: **BASIC TIMING** Phase 2 5 7 1 3 4 6 8 EBL WB WBL Direction SB NΒ ΕB Min Green (sec) 5 20 20 5 5 20 Vehicle Gap (sec) 3.0 3.0 3.0 3.0 3.0 3.0 30 77 40 17 21 77 Max Green 1 (sec) Max Green 2 (sec) 45 55 50 17 30 60 4.8 4.8 4.2 3.4 4.8 4.8 Yellow Change Interval (sec) Red Clearance Interval (sec) 5.2 2.2 4.4 4.3 3.4 2.3 Walk (sec) 7 7 7 Flash Don't Walk (sec) 35 34 17 49 32 Min Split (sec) 15 49 29 14 Recall/Memory NL MIN/LK NL NL NL MIN/LK CDR 5 CD 5 CD 5 **Detector Delay (sec) Detector Switching** Dual Entry Υ Υ Overlap Υ Υ Flash R R R R Speed (mph) 45 45 35 25 45 45 Approach Grades (%) 0.4% 0.1% -2.1% 0.4% 0.1% 0.4% Veh Traversed Distance (ft) 207 191 175 172 139 192 Ped Crossing Distance (ft) 121 119 58 Ped Clearance (sec) 35 34 17 Ped-button to curb (ft) 8 13 13 Ped-button to far curb (ft) 129 132 71 Ped Clearance to far curb (see 24 43 **COORDINATION PLANS Coordination Pattern** 1/1/1 2/1/1 3/1/1 3/2/2 Day Time Pattern 0:01 **FREE** 150 140 150 140 1 Cycle Split 1 1 9:45 2/1/1 56 30 30 28 Split 2 47 63 70 64 1 19:00 **FREE** Split 3 2 0:01 **FREE** 29 29 32 30 Split 4 2 6:30 1/1/1 18 18 18 18 Split 5 2 9:30 2/1/1 18 18 18 18 Split 6 2 14:00 3/1/1 85 75 82 74 Split 7 0 0 0 0 2 18:00 2/1/1 Split 8 2 20:00 **FREE** 0 0 0 0 Offset 7 0:01 **FREE** 29 45 16 59 Lagging Phases 7 9:30 0/0/0/0 2/1/1 1/0/0/0 0/0/0/0 0/0/0/0 Source Day 19:30 **FREE** Equate 1 Equate 2 Equate 3 Equate 4 Equate 5 (Sunday) 1 (Monday) 2 3 5 6 4

Notes:

- 1. Offset referenced to start of mainstreet green
- 2. Use Cycle Force-offs
- 3. Use Max II during coordination

(Saturday) 7

	Patterns 2/1/1	<u>, 3/1/1, & 3/2/2</u>	
1	2	3	4
5	6		
2	1	3	4
5	6		

												
Intersection: US 441 & Hermit	t Smith Rd				Int. #	24	Node	672				
Equipment: Siemens m50					Date:	5/1/2018	Address:					
	BASIC TIMING											
Phase	1	2	3	4	5	6	7	8				
Direction	EBL	WB		NB	WBL	EB		SB				
Min Green (sec)	5	17		5	5	17		5				
Vehicle Gap (sec)	3.0	3.0		3.0	4.0	3.0		3.0				
Max Green 1 (sec)	25	77		25	25	77		25				
Max Green 2 (sec)	30	50		50	30	50		50				
Yellow Change Interval (sec)	4.9	4.8		4.0	4.8	4.9		4.1				
Red Clearance Interval (sec)	3.7	2.0	l	3.0	2.8	2.0		3.1				
Walk (sec)		7		7		7		7				
Flash Don't Walk (sec)		14		37		17		37				
Min Split (sec)	14	28	Ī	51	13	31		52				
Recall/Memory	NL	MIN/LK		NL	NL	MIN/LK		NL				
Detector Delay (sec)			Ī	CD 5				CD 5				
Detector Switching												
Dual Entry		Υ		Υ		Υ		Υ				
Overlap												
Flash	4-SECTION	Υ		R	4-SECTION	Υ		R				
Speed (mph)	45	45		35	45	45		35				
Approach Grades (%)	-1.6%	0.5%		1.0%	0.5%	-1.6%		-1.0%				
Veh Traversed Distance (ft)	151	157		182	116	153		187				
Ped Crossing Distance (ft)		46		127		59		128				
Ped Clearance (sec)		14		37		17		37				
Ped-button to curb (ft)		13		9		11		9				
Ped-button to far curb (ft)		59		136		70		137				
Ped Clearance to far curb (see		20		46		24		46				

COORDINATION PLANS											
Coordination Pattern	1/1/1	2/1/1	3/1/1	3/2/2		Day	Time	Pattern			
Cycle	150	140	150	140		1	0:01	FREE			
Split 1	18	18	18	18		1	9:45	2/1/1			
Split 2	112	104	111	102		1	19:00	FREE			
Split 3	0	0	0	0		2	0:01	FREE			
Split 4	20	18	21	20		2	6:30	1/1/1			
Split 5	18	18	18	18		2	9:30	2/1/1			
Split 6	112	104	111	102		2	14:00	3/1/1			
Split 7	0	0	0	0		2	18:00	2/1/1			
Split 8	20	18	21	20		2	20:00	FREE			
Offset	35	36	39	53		7	0:01	FREE			
Lagging Phases	0/0/0/0	0/0/0/0	0/0/0/0	0/0/0/0		7	9:30	2/1/1			
Source Day	Equate 1	Equate 2	Equate 3	Equate 4	Equate 5	7	19:30	FREE			
(Sunday) 1											
(Monday) 2	3	4	5	6							
(Saturday) 7											

Notes:

- 1. Offset referenced to start of mainstreet green
- 2. Use Plan Force-offs
- 3. Use Max Inhibit during coordination
- 4. 4-section heads for PH 1 & PH 5 shall operate in protected/permissive mode
- 5. Rail Road Preemption

350

Appendix FExisting Conditions Analysis Worksheets

	۶	→	•	•	←	•	•	†	/	/	ļ	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	^	7	7	∱ }			4			4	
Traffic Volume (veh/h)	22	1055	4	14	1566	103	46	11	38	63	3	11
Future Volume (veh/h)	22	1055	4	14	1566	103	46	11	38	63	3	11
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	1796	1678	1678	1796	1796	1678	1678	1678	1678	1678	1678
Adj Flow Rate, veh/h	23	1088	4	14	1614	106	47	11	39	65	3	11
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, %	2	7	15	15	7	7	15	15	15	15	15	15
Cap, veh/h	296	2587	1078	370	2425	158	89	21	50	118	7	13
Arrive On Green	0.02	0.76	0.76	0.03	1.00	1.00	0.08	0.08	0.08	0.08	0.08	0.08
Sat Flow, veh/h	1781	3413	1422	1598	3252	212	648	252	605	898	90	160
Grp Volume(v), veh/h	23	1088	4	14	842	878	97	0	0	79	0	0
Grp Sat Flow(s), veh/h/ln	1781	1706	1422	1598	1706	1758	1506	0	0	1148	0	0
Q Serve(g_s), s	0.5	17.0	0.1	0.3	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0
Cycle Q Clear(g_c), s	0.5	17.0	0.1	0.3	0.0	0.0	9.3	0.0	0.0	10.4	0.0	0.0
Prop In Lane	1.00		1.00	1.00		0.12	0.48		0.40	0.82		0.14
Lane Grp Cap(c), veh/h	296	2587	1078	370	1272	1311	160	0	0	138	0	0
V/C Ratio(X)	0.08	0.42	0.00	0.04	0.66	0.67	0.61	0.00	0.00	0.57	0.00	0.00
Avail Cap(c_a), veh/h	371	2587	1078	458	1272	1311	175	0	0	150	0	0
HCM Platoon Ratio	1.00	1.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	0.66	0.66	0.66	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	4.2	6.4	4.4	5.1	0.0	0.0	67.4	0.0	0.0	67.9	0.0	0.0
Incr Delay (d2), s/veh	0.1	0.5	0.0	0.0	1.8	1.8	5.1	0.0	0.0	4.3	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/ln	0.3	8.7	0.0	0.2	1.1	1.2	7.0	0.0	0.0	5.7	0.0	0.0
Unsig. Movement Delay, s/veh	l											
LnGrp Delay(d),s/veh	4.3	6.9	4.4	5.1	1.8	1.8	72.5	0.0	0.0	72.2	0.0	0.0
LnGrp LOS	Α	Α	Α	Α	Α	Α	Е	Α	Α	Е	Α	Α
Approach Vol, veh/h		1115			1734			97			79	
Approach Delay, s/veh		6.9			1.8			72.5			72.2	
Approach LOS		А			А			Е			Е	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	11.7	118.7		19.6	9.8	120.6		19.6				
Change Period (Y+Rc), s	* 8.6	* 6.9		* 7.2	* 7.6	6.9		7.2				
Max Green Setting (Gmax), s	* 9.4	* 1E2		* 14	* 10	104.1		13.8				
Max Q Clear Time (q_c+l1), s	2.5	2.0		11.3	2.3	19.0		12.4				
Green Ext Time (p_c), s	0.0	18.7		0.0	0.0	8.6		0.0				
Intersection Summary												
HCM 6th Ctrl Delay			7.8									
HCM 6th LOS			А									
Notes												

^{*} HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

	۶	→	•	•	←	•	1	†	/	/	ļ	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻሻ	^	7	ሻ	^	7		4		ሻ	ની	77
Traffic Volume (veh/h)	389	770	0	1	1077	37	2	2	2	23	2	594
Future Volume (veh/h)	389	770	0	1	1077	37	2	2	2	23	2	594
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	:h	No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1796	1870	1870	1796	1870	1870	1870	1870	1870	1870	1796
Adj Flow Rate, veh/h	418	828	0	1	1158	40	2	2	2	26	0	478
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	2	7	2	2	7	2	2	2	2	2	2	7
Cap, veh/h	454	2132	990	2	1647	765	4	4	4	556	0	875
Arrive On Green	0.26	1.00	0.00	0.00	0.97	0.97	0.01	0.01	0.01	0.16	0.00	0.16
Sat Flow, veh/h	3456	3413	1585	1781	3413	1585	579	579	579	3563	0	3045
Grp Volume(v), veh/h	418	828	0	1	1158	40	6	0	0	26	0	478
Grp Sat Flow(s), veh/h/li		1706	1585	1781	1706	1585	1737	0	0	1781	0	1522
Q Serve(g_s), s	17.6	0.0	0.0	0.1	5.5	0.1	0.5	0.0	0.0	0.9	0.0	19.9
Cycle Q Clear(g_c), s	17.6	0.0	0.0	0.1	5.5	0.1	0.5	0.0	0.0	0.9	0.0	19.9
Prop In Lane	1.00		1.00	1.00		1.00	0.33		0.33	1.00		1.00
Lane Grp Cap(c), veh/h		2132	990	2	1647	765	13	0	0	556	0	875
V/C Ratio(X)	0.92	0.39	0.00	0.41	0.70	0.05	0.47	0.00	0.00	0.05	0.00	0.55
Avail Cap(c_a), veh/h	461	2132	990	116	1647	765	119	0	0	556	0	875
HCM Platoon Ratio	2.00	2.00	2.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.92	0.92	0.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d), s/vel		0.0	0.0	74.7	1.4	1.4	74.2	0.0	0.0	53.8	0.0	45.2
Incr Delay (d2), s/veh	22.3	0.5	0.0	85.3	2.5	0.1	24.3	0.0	0.0	0.2	0.0	2.4
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
%ile BackOfQ(95%), vel		0.3	0.0	0.2	2.3	0.1	0.6	0.0	0.0	0.8	0.0	12.5
Unsig. Movement Delay												
LnGrp Delay(d),s/veh	76.8	0.5	0.0	160.0	4.0	1.5	98.4	0.0	0.0	54.0	0.0	47.6
LnGrp LOS	E	А	А	F	А	Α	F	А	А	D	А	D
Approach Vol, veh/h		1246			1199			6			504	
Approach Delay, s/veh		26.1			4.0			98.4			48.0	
Approach LOS		С			Α			F			D	
•	1			1								
Timer - Assigned Phs	1	2		4	5	<u>6</u>		8				
Phs Duration (G+Y+Rc)				8.8	29.7	79.5		32.0				
Change Period (Y+Rc),		* 7.1		* 7.7	10.0	* 7.1		8.6				
Max Green Setting (Gm		* 75		* 10	20.0	* 63		23.4				
Max Q Clear Time (g_c		2.0		2.5	19.6	7.5		21.9				
Green Ext Time (p_c), s	5 0.0	6.3		0.0	0.1	10.4		0.4				
Intersection Summary												
HCM 6th Ctrl Delay			21.0									
HCM 6th LOS			С									
Notes												

User approved volume balancing among the lanes for turning movement.
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

	۶	→	•	•	←	4	1	†	~	/	†	✓
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	^	7	ሻ	∱ ∱			4			4	
Traffic Volume (veh/h)	0	731	103	19	935	0	173	0	63	0	0	0
Future Volume (veh/h)	0	731	103	19	935	0	173	0	63	0	0	0
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	1796	1796	1796	1796	1796	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	0	778	110	20	995	0	184	0	67	0	0	0
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	2	7	7	7	7	7	2	2	2	2	2	2
Cap, veh/h	48	2038	909	522	2448	0	242	0	73	0	351	0
Arrive On Green	0.00	1.00	1.00	0.07	0.72	0.00	0.19	0.00	0.19	0.00	0.00	0.00
Sat Flow, veh/h	566	3413	1522	1711	3503	0	1069	0	389	0	1870	0
Grp Volume(v), veh/h	0	778	110	20	995	0	251	0	0	0	0	0
Grp Sat Flow(s), veh/h/ln	566	1706	1522	1711	1706	0	1459	0	0	0	1870	0
Q Serve(g_s), s	0.0	0.0	0.0	0.6	17.5	0.0	25.3	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear(q_c), s	0.0	0.0	0.0	0.6	17.5	0.0	25.3	0.0	0.0	0.0	0.0	0.0
Prop In Lane	1.00		1.00	1.00		0.00	0.73		0.27	0.00		0.00
Lane Grp Cap(c), veh/h	48	2038	909	522	2448	0	315	0	0	0	351	0
V/C Ratio(X)	0.00	0.38	0.12	0.04	0.41	0.00	0.80	0.00	0.00	0.00	0.00	0.00
Avail Cap(c_a), veh/h	48	2038	909	522	2448	0	387	0	0	0	430	0
HCM Platoon Ratio	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.92	0.92	0.89	0.89	0.00	1.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d), s/veh	0.0	0.0	0.0	7.9	8.5	0.0	59.8	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.5	0.3	0.1	0.4	0.0	9.1	0.0	0.0	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	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	0.0	0.3	0.1	0.4	9.7	0.0	15.3	0.0	0.0	0.0	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	0.0	0.5	0.3	8.0	8.9	0.0	68.9	0.0	0.0	0.0	0.0	0.0
LnGrp LOS	Α	А	А	Α	А	Α	Е	Α	А	Α	Α	Α
Approach Vol, veh/h		888			1015			251			0	
Approach Delay, s/veh		0.5			8.9			68.9			0.0	
Approach LOS		А			А			Е				
Timer - Assigned Phs		2		4	5	6		8				
Phs Duration (G+Y+Rc), s		114.4		35.6	18.0	96.4		35.6				
Change Period (Y+Rc), s		* 6.8		* 7.5	7.9	6.8		7.5				
Max Green Setting (Gmax), s		* 1E2		* 36	10.1	83.2		34.5				
Max Q Clear Time (g_c+l1), s		19.5		27.3	2.6	2.0		0.0				
Green Ext Time (p_c), s		8.2		0.8	0.0	6.2		0.0				
Intersection Summary												
HCM 6th Ctrl Delay			12.4									
HCM 6th LOS			В									
Notes												

^{*} HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

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Movement	EBL	EBT	WBT	WBR	SBL	SBR			
Lane Configurations	ሻ	^	ħβ		ሻ	7			
Traffic Volume (veh/h)	92	709	896	203	154	33			
Future Volume (veh/h)	92	709	896	203	154	33			
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	1870	1870	1870	1870	1870	1870			
Adj Flow Rate, veh/h	95	731	924	209	159	34			
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97			
Percent Heavy Veh, %	2	2	2	2	2	2			
Cap, veh/h	401	2878	2096	474	181	161			
Arrive On Green	0.03	0.81	0.73	0.73	0.10	0.10			
Sat Flow, veh/h	1781	3647	2973	651	1781	1585			
Grp Volume(v), veh/h	95	731	570	563	159	34			_
Grp Sat Flow(s), veh/h/ln	1781	1777	1777	1753	1781	1585			
2 Serve(g_s), s	2.0	7.6	19.9	20.0	13.6	3.1			
Cycle Q Clear(g_c), s	2.0	7.6	19.9	20.0	13.6	3.1			
Prop In Lane	1.00			0.37	1.00	1.00			
Lane Grp Cap(c), veh/h	401	2878	1293	1276	181	161			
V/C Ratio(X)	0.24	0.25	0.44	0.44	0.88	0.21			
Avail Cap(c_a), veh/h	484	2878	1293	1276	207	184			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	0.91	0.91	0.87	0.87	1.00	1.00			
Uniform Delay (d), s/veh	6.2	3.5	8.4	8.5	68.7	63.9			
Incr Delay (d2), s/veh	0.3	0.2	1.0	1.0	29.6	0.6			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(95%),veh/ln	1.1	3.6	11.3	11.2	12.3	5.1			
Unsig. Movement Delay, s/veh	l								
LnGrp Delay(d),s/veh	6.4	3.7	9.4	9.4	98.2	64.6			
LnGrp LOS	Α	Α	А	Α	F	Ε			
Approach Vol, veh/h		826	1133		193				
Approach Delay, s/veh		4.0	9.4		92.3				
Approach LOS		А	А		F				
Timer - Assigned Phs				4		6	7	8	
Phs Duration (G+Y+Rc), s				132.4		22.6	12.7	119.7	
Change Period (Y+Rc), s				6.9		6.8	7.8	* 6.9	
Max Green Setting (Gmax), s				123.1		18.0	12.2	* 1E2	
Max Q Clear Time (g_c+l1), s				9.6		15.6	4.0	22.0	
Green Ext Time (p_c), s				4.9		0.1	0.1	8.9	
4 – 7				7.7		U, I	U, I	0.7	
ntersection Summary			14.8						
HCM 6th Ctrl Delay HCM 6th LOS			14.8 B						
I IOW UIII LUS			ט						

User approved pedestrian interval to be less than phase max green.

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

	۶	→	•	•	←	•	4	†	/	/	ļ	4	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ች	ተ ኈ		ሻ	ħβ			4			4		
Traffic Volume (veh/h)	9	828	20	145	1046	100	36	61	145	58	57	8	
Future Volume (veh/h)	9	828	20	145	1046	100	36	61	145	58	57	8	
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	
	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	า	No			No			No			No		
Adj Sat Flow, veh/h/ln	1870	1826	1826	1826	1826	1826	1826	1826	1826	1826	1826	1826	
Adj Flow Rate, veh/h	10	881	21	154	1113	106	38	65	154	62	61	9	
	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	
Percent Heavy Veh, %	2	5	5	5	5	5	5	5	5	5	5	5	
Cap, veh/h	316	2213	53	435	2338	222	59	82	169	97	86	11	
Arrive On Green	0.64	0.64	0.64	0.04	0.73	0.73	0.18	0.18	0.18	0.18	0.18	0.18	
Sat Flow, veh/h	458	3463	83	1739	3201	305	178	463	958	351	489	61	
Grp Volume(v), veh/h	10	441	461	154	603	616	257	0	0	132	0	0	
Grp Sat Flow(s), veh/h/ln		1735	1811	1739	1735	1771	1599	0	0	901	0	0	
Q Serve(g_s), s	1.4	18.5	18.5	4.4	21.5	21.6	0.6	0.0	0.0	0.0	0.0	0.0	
Cycle Q Clear(g_c), s	9.3	18.5	18.5	4.4	21.5	21.6	23.6	0.0	0.0	23.0	0.0	0.0	
Prop In Lane	1.00		0.05	1.00		0.17	0.15		0.60	0.47		0.07	
Lane Grp Cap(c), veh/h		1108	1157	435	1267	1293	310	0	0	194	0	0	
	0.03	0.40	0.40	0.35	0.48	0.48	0.83	0.00	0.00	0.68	0.00	0.00	
Avail Cap(c_a), veh/h	316	1108	1157	497	1267	1293	380	0	0	260	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)	0.94	0.94	0.94	1.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00	
Uniform Delay (d), s/veh		13.1	13.1	9.5	8.4	8.4	60.5	0.0	0.0	59.1	0.0	0.0	
Incr Delay (d2), s/veh	0.2	1.0	1.0	0.5	1.3	1.3	12.1	0.0	0.0	4.3	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	
%ile BackOfQ(95%),veh		11.0	11.4	2.9	12.1	12.2	16.0	0.0	0.0	8.9	0.0	0.0	
Unsig. Movement Delay,													
3	13.3	14.1	14.1	10.0	9.6	9.6	72.6	0.0	0.0	63.4	0.0	0.0	
LnGrp LOS	В	В	В	А	Α	А	E	А	А	E	А	А	
Approach Vol, veh/h		912			1373			257			132		
Approach Delay, s/veh		14.1			9.7			72.6			63.4		
Approach LOS		В			Α.,			72.0 E			E		
					,,								
Timer - Assigned Phs	1	2		4		6		8					
Phs Duration (G+Y+Rc),				33.3		116.7		33.3					
Change Period (Y+Rc),		7.2		6.8		* 7.2		* 6.8					
Max Green Setting (Gma		83.8		33.2		* 1E2		* 34					
Max Q Clear Time (g_c+		20.5		25.6		23.6		25.0					
Green Ext Time (p_c), s	0.2	5.7		0.9		10.0		0.4					
Intersection Summary													
HCM 6th Ctrl Delay			19.9										
HCM 6th LOS			В										
Notes													
110103													

^{*} HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Intersection						
Int Delay, s/veh	6.2					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	74	VVDI	♣	אטו	JDL	<u>ુ</u>
Traffic Vol, veh/h	7	65	17	21	41	6
Future Vol, veh/h	7	65	17	21	41	6
Conflicting Peds, #/hr	0	00	0	0	0	0
Sign Control		Stop	Free	Free	Free	Free
RT Channelized	Stop	None		None		None
			-		-	
Storage Length	0	-	-	-	-	-
Veh in Median Storage		-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	69	69	69	69	69	69
Heavy Vehicles, %	20	20	20	20	20	20
Mvmt Flow	10	94	25	30	59	9
Major/Minor N	/linor1	Λ	/lajor1		Major2	
Conflicting Flow All	167	40	0	0	55	0
Stage 1	40	-	-	-	-	-
Stage 2	127	-	-	-	-	-
Critical Hdwy	6.6	6.4	-	-	4.3	-
Critical Hdwy Stg 1	5.6	-	-	-	-	-
Critical Hdwy Stg 2	5.6	-	-	-	-	-
Follow-up Hdwy	3.68	3.48	-	-	2.38	-
Pot Cap-1 Maneuver	783	982	-	-	1442	-
Stage 1	938	-	-	-	-	-
Stage 2	856	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	751	982	-	-	1442	-
Mov Cap-2 Maneuver	751	-	-	_		_
Stage 1	900	_	_	_	_	_
Stage 2	856	_				
Jiaye Z	000	_	-	_		-
Approach	WB		NB		SB	
HCM Control Delay, s	9.2		0		6.6	
HCM LOS	Α					
Mineral and Marie A		NDT	MDD	VDI 1	CDI	CDT
Minor Lane/Major Mvm	t	NBT	NRKA	VBLn1	SBL	SBT
Capacity (veh/h)		-	-	953	1442	-
HCM Lane V/C Ratio		-	-	0.109		-
HCM Control Delay (s)		-	-	9.2	7.6	0
HCM Lane LOS		-	-	Α	Α	Α
HCM 95th %tile Q(veh)			-	0.4	0.1	-
, ,						

Intersection						
Int Delay, s/veh	2.9					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
		LDIN	NDL			SDIX
Lane Configurations	77	/0	ГГ	વ	12/	10
Traffic Vol, veh/h	27	68	55	217	136	12
Future Vol, veh/h	27	68	55	217	136	12
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	91	91	91	91	91	91
Heavy Vehicles, %	20	20	20	2	2	20
Mvmt Flow	30	75	60	238	149	13
IVIVIII I IOVV	- 50	70	- 00	200	177	10
Major/Minor N	/linor2	١	/lajor1	N	/lajor2	
Conflicting Flow All	514	156	162	0	-	0
Stage 1	156	-	-	-	-	-
Stage 2	358	-	-	-	-	-
Critical Hdwy	6.6	6.4	4.3	_	_	_
Critical Hdwy Stg 1	5.6	-	-	_	_	_
Critical Hdwy Stg 2	5.6	_	_		_	_
Follow-up Hdwy	3.68	3.48	2.38	_	_	_
		845	1314	-	-	
Pot Cap-1 Maneuver	490	843	1314		-	-
Stage 1	830	-	-	-	-	-
Stage 2	669	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	464	845	1314	-	-	-
Mov Cap-2 Maneuver	464	-	-	-	-	-
Stage 1	786	-	-	-	-	-
Stage 2	669	-	-	-	-	-
J.						
Approach	EB		NB		SB	
HCM Control Delay, s	11.2		1.6		0	
HCM LOS	В					
Minor Long/Maior M		NDI	NDT	CDI 1	CDT	CDD
Minor Lane/Major Mvm	l	NBL		EBLn1	SBT	SBR
Capacity (veh/h)		1314	-		-	-
HCM Lane V/C Ratio		0.046	-	0.152	-	-
HCM Control Delay (s)		7.9	0	11.2	-	-
HCM Lane LOS		Α	Α	В	-	-
HCM 95th %tile Q(veh)		0.1	-	0.5	-	-
,						

Appendix GTrip Generation Sheets

High-Cube Transload and Short-Term Storage Warehouse (154)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA

On a: Weekday

Setting/Location: General Urban/Suburban

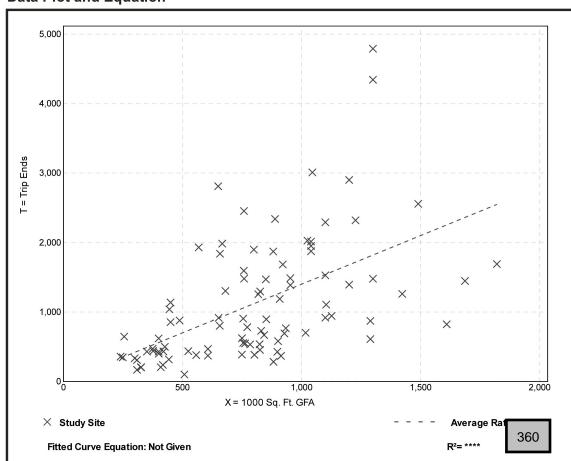
Number of Studies: 91 1000 Sq. Ft. GFA: 798

Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
1.40	0.20 - 4.32	0.86

Data Plot and Equation



High-Cube Transload and Short-Term Storage Warehouse (154)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA

On a: Weekday,

Peak Hour of Adjacent Street Traffic, One Hour Between 4 and 6 p.m.

One Hour Between 4 and 6 p.

Setting/Location: General Urban/Suburban

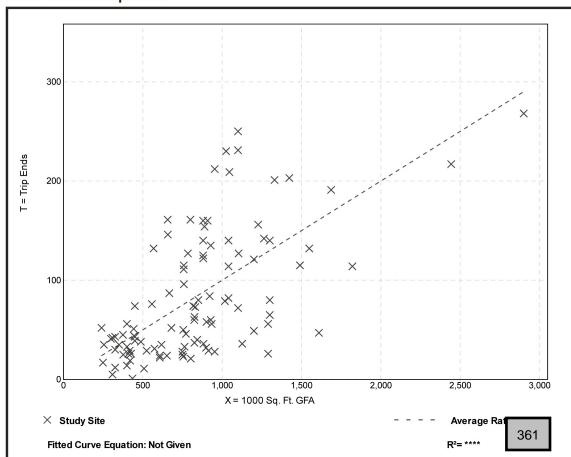
Number of Studies: 103 1000 Sq. Ft. GFA: 840

Directional Distribution: 28% entering, 72% exiting

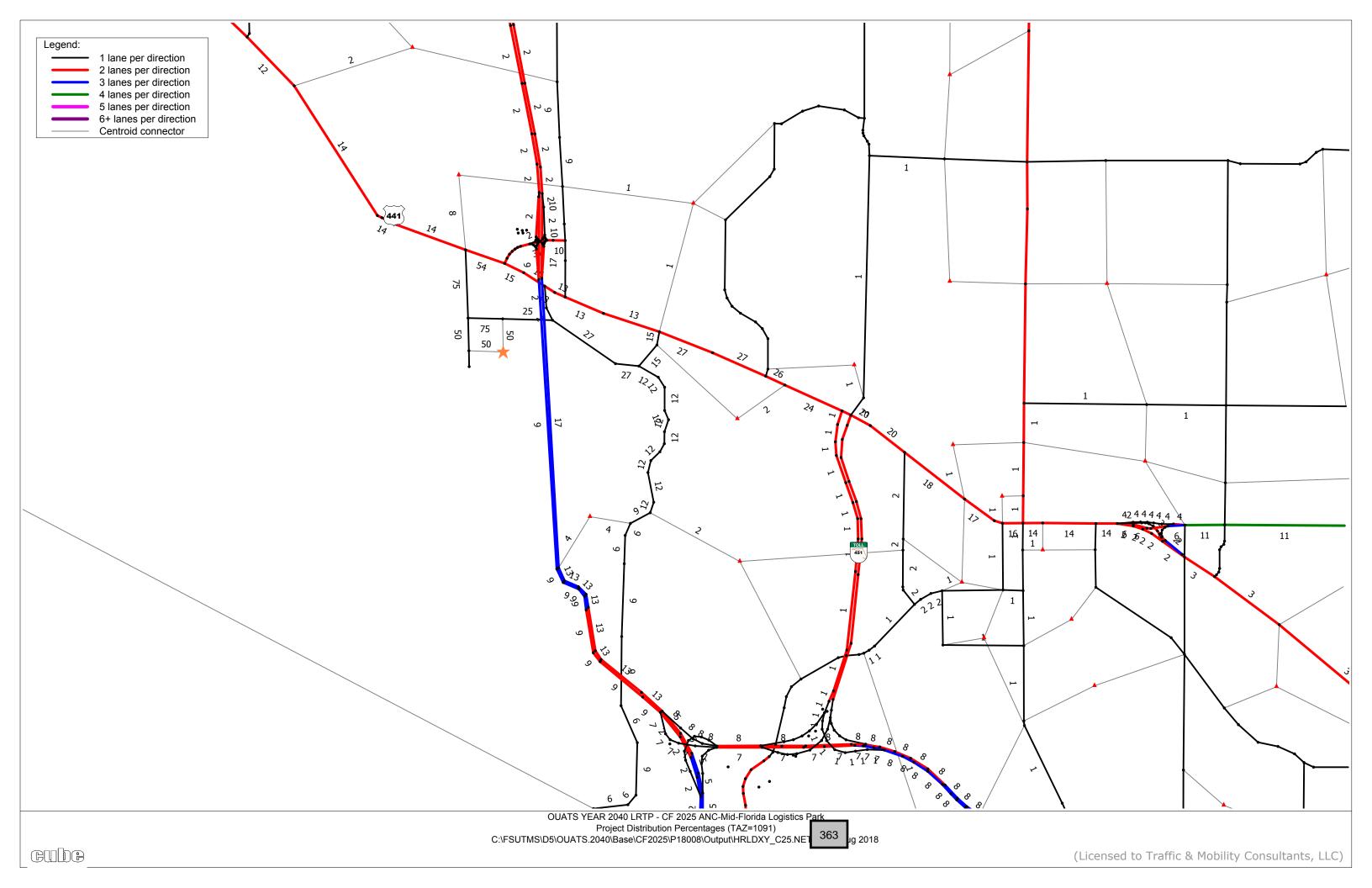
Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
0.10	0.00 - 0.25	0.06

Data Plot and Equation



Appendix HOUATS Model



Appendix I
Background & Projected Conditions Analysis Worksheets

Future Volume (veh/h) 28 1330 15 53 1887 124 127 39 175 222 17 40		۶	→	•	•	—	4	1	†	~	/	+	✓
Traffic Volume (veh/h)	Movement	EBL	EBT		WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Future Volume (vehrh)		ሻ	^		ሻ	∱ ∱			4			4	
Filtial O (Ob), veh	Traffic Volume (veh/h)	28	1330	15	53	1887	124	127	39	175			40
Ped-Bike Adji(A_pbT)	Future Volume (veh/h)	28	1330	15	53	1887	124	127	39	175	222	17	40
Parking Bus, Adj	Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Work Zone On Approach	Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Adj Sat Flow, weh/n/In 1870 1796 1678 1683 6878 167	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
Adj Flow Rate, veh/h Peak Hour Factor 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97	Work Zone On Approach		No			No			No			No	
Peak Hour Factor 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97	Adj Sat Flow, veh/h/ln	1870	1796	1678	1678	1796	1796	1678	1678	1678	1678		1678
Percent Heavy Veh, % 2 2 7 15 15 15 7 7 15 15 15 15 15 15 15 15 15 26, weh/h 236 2498 1041 289 2381 155 86 16 73 106 5 11 Arrive On Green 0.02 0.73 0.73 0.06 1.00 1.00 0.09 0.09 0.09 0.09 0.09 0.09	Adj Flow Rate, veh/h	29	1371	15	55	1945	128	131	40	180	229	18	41
Cap, veh/h 236 2498 1041 289 2381 155 86 16 73 106 5 11 Arrive On Green 0.02 0.73 0.73 0.06 1.00 0.09	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
Arrive On Green 0.02 0.73 0.73 0.06 1.00 1.00 0.09	Percent Heavy Veh, %	2	7	15	15	7	7	15	15	15	15	15	15
Sat Flow, veh/h	Cap, veh/h	236	2498	1041	289	2381	155	86	16	73	106	5	11
Grp Volume(v), veh/h 29 1371 15 55 1010 1063 351 0 0 288 0 0 Grp Sat Flow(s), veh/h/ln 1781 1706 1422 1598 1706 1758 1532 0 0 843 0 0 O Serve(g_S), s 0.6 27.0 0.4 1.3 0.0	Arrive On Green	0.02	0.73	0.73	0.06	1.00	1.00	0.09	0.09	0.09	0.09	0.09	0.09
Grp Sat Flow(s), veh/h/ln 1781 1706 1422 1598 1706 1758 1532 0 0 843 0 0 0 Serve(g_s), s 0.6 27.0 0.4 1.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	Sat Flow, veh/h	1781	3413	1422	1598	3253	212	572	175	786	671	53	120
Grp Sat Flow(s),veh/h/ln 1781 1706 1422 1598 1706 1758 1532 0 0 843 0 0 0 Serve(g_S), s 0.6 27.0 0.4 1.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	Grp Volume(v), veh/h	29	1371	15	55	1010	1063	351	0	0	288	0	
O Serve(g_s), s 0.6 27.0 0.4 1.3 0.0													
Cycle O Clear(g_c), s 0.6 27.0 0.4 1.3 0.0 0.0 14.0 0.0 14.0 0.0 0.0 0.0 14.0 0.0 0.0 0.0 0.0 14.0 0.0 </td <td></td>													
Prop In Lane													
Lane Grp Cap(c), veh/h 236 2498 1041 289 1249 1287 176 0 0 122 0 0 0 V/C Ratio(X) 0.12 0.55 0.01 0.19 0.81 0.83 2.00 0.00 0.00 2.36 0.00 0.00 Avail Cap(c_a), veh/h 306 2498 1041 352 1249 1287 176 0 0 122 0 0 HCM Platoon Ratio 1.00 1.00 1.00 2.00 2.00 1.00 1.00 1.00													
V/C Ratio(X) 0.12 0.55 0.01 0.19 0.81 0.83 2.00 0.00 0.00 2.36 0.00 0.00 Avail Cap(c_a), veh/h 306 2498 1041 352 1249 1287 176 0 0 1.00 0.18 0.18 0.18 0.18 0.18 0.18 0.10 0.00 0.			2498			1249			0			0	
Avail Cap(c_a), veh/h													
HCM Platoon Ratio													
Upstream Filter(I) 1.00 1.00 1.00 0.18 0.18 0.18 1.00 0.00 0													
Uniform Delay (d), s/veh													
Incr Delay (d2), s/veh													
Initial Q Delay(d3),s/veh													
%ile BackOfQ(95%), veh/ln 0.4 13.3 0.2 0.6 0.7 0.8 46.5 0.0 0.0 42.3 0.0 0.0 Unsig. Movement Delay, s/veh 4.8 9.9 5.5 7.1 1.1 1.2 536.7 0.0 0.0 709.1 0.0 0.0 LnGrp LOS A A A A A A A F A A F A A Approach Vol, veh/h 1415 2128 351 288 288 Approach Delay, s/veh 9.7 1.3 536.7 709.1 709.1 Approach LOS A A A F F F Timer - Assigned Phs 1 2 4 5 6 8 8 Phs Duration (G+Y+Rc), s 12.1 116.7 21.2 12.1 116.7 21.2 12.2 12.2 12.2 12.2 12.2 12.2 12.2 12.2 12.2 12.2 12.2 12.2 12.2 12.2 12.2 12.2 12.2 12.2 12.2													
Unsig. Movement Delay, s/veh LnGrp Delay(d),s/veh 4.8 9.9 5.5 7.1 1.1 1.2 536.7 0.0 0.0 709.1 0.0 0.0 LnGrp LOS A A A A A A A A A A A A A A A A A A A													
LnGrp Delay(d),s/veh 4.8 9.9 5.5 7.1 1.1 1.2 536.7 0.0 0.0 709.1 0.0 0.0 LnGrp LOS A A A A A A A F A A F A A Approach Vol, veh/h 1415 2128 351 288 351 288 Approach Delay, s/veh 9.7 1.3 536.7 709.1 709.1 Approach LOS A A A F F Timer - Assigned Phs 1 2 4 5 6 8 Phs Duration (G+Y+Rc), s 12.1 116.7 21.2 12.1 116.7 21.2 Change Period (Y+Rc), s *8.6 *6.9 *7.2 *7.6 6.9 7.2 Max Green Setting (Gmax), s *9.4 *1E2 *14 *10 104.1 13.8 Max Q Clear Time (g_c+l1), s 2.6 2.0 16.0 3.3 29.0 16.0 Green Ext Time (p_c), s 0.0 32.0 0.0 0.1 12.8													
LnGrp LOS A A A A A A A F A A F A A Approach Vol, veh/h 1415 2128 351 288 Approach Delay, s/veh 9.7 1.3 536.7 709.1 Approach LOS A A F F Timer - Assigned Phs 1 2 4 5 6 8 Phs Duration (G+Y+Rc), s 12.1 116.7 21.2 12.1 116.7 21.2 Change Period (Y+Rc), s *8.6 *6.9 *7.2 *7.6 6.9 7.2 Max Green Setting (Gmax), s *9.4 *1E2 *14 *10 104.1 13.8 Max Q Clear Time (g_c+l1), s 2.6 2.0 16.0 3.3 29.0 16.0 Green Ext Time (p_c), s 0.0 32.0 0.0 0.1 12.8 0.0 Intersection Summary HCM 6th Ctrl Delay 97.8 97.8 97.8 97.8	<u> </u>		9.9	5.5	7.1	1.1	1.2	536.7	0.0	0.0	709.1	0.0	0.0
Approach Vol, veh/h 1415 2128 351 288 Approach Delay, s/veh 9.7 1.3 536.7 709.1 Approach LOS A A F F Timer - Assigned Phs 1 2 4 5 6 8 Phs Duration (G+Y+Rc), s 12.1 116.7 21.2 12.1 116.7 21.2 Change Period (Y+Rc), s *8.6 *6.9 *7.2 *7.6 6.9 7.2 Max Green Setting (Gmax), s *9.4 *1E2 *14 *10 104.1 13.8 Max Q Clear Time (g_c+I1), s 2.6 2.0 16.0 3.3 29.0 16.0 Green Ext Time (p_c), s 0.0 32.0 0.0 0.1 12.8 0.0 Intersection Summary HCM 6th Ctrl Delay 97.8													
Approach Delay, s/veh 9.7 1.3 536.7 709.1 Approach LOS A A F F F Timer - Assigned Phs 1 2 4 5 6 8 Phs Duration (G+Y+Rc), s 12.1 116.7 21.2 12.1 116.7 21.2 Change Period (Y+Rc), s *8.6 *6.9 *7.2 *7.6 6.9 7.2 Max Green Setting (Gmax), s *9.4 *1E2 *14 *10 104.1 13.8 Max Q Clear Time (g_c+I1), s 2.6 2.0 16.0 3.3 29.0 16.0 Green Ext Time (p_c), s 0.0 32.0 0.0 0.1 12.8 0.0 Intersection Summary HCM 6th Ctrl Delay 97.8													
Approach LOS A A F F F Timer - Assigned Phs 1 2 4 5 6 8 Phs Duration (G+Y+Rc), s 12.1 116.7 21.2 12.1 116.7 21.2 Change Period (Y+Rc), s *8.6 *6.9 *7.2 *7.6 6.9 7.2 Max Green Setting (Gmax), s *9.4 *1E2 *14 *10 104.1 13.8 Max Q Clear Time (g_c+I1), s 2.6 2.0 16.0 3.3 29.0 16.0 Green Ext Time (p_c), s 0.0 32.0 0.0 0.1 12.8 0.0 Intersection Summary HCM 6th Ctrl Delay 97.8													
Timer - Assigned Phs 1 2 4 5 6 8 Phs Duration (G+Y+Rc), s 12.1 116.7 21.2 12.1 116.7 21.2 Change Period (Y+Rc), s * 8.6 * 6.9 * 7.2 * 7.6 6.9 7.2 Max Green Setting (Gmax), s * 9.4 * 1E2 * 14 * 10 104.1 13.8 Max Q Clear Time (g_c+I1), s 2.6 2.0 16.0 3.3 29.0 16.0 Green Ext Time (p_c), s 0.0 32.0 0.0 0.1 12.8 0.0 Intersection Summary HCM 6th Ctrl Delay 97.8			_			_			_			_	
Phs Duration (G+Y+Rc), s 12.1 116.7 21.2 12.1 116.7 21.2 Change Period (Y+Rc), s *8.6 *6.9 *7.2 *7.6 6.9 7.2 Max Green Setting (Gmax), s *9.4 *1E2 *14 *10 104.1 13.8 Max Q Clear Time (g_c+I1), s 2.6 2.0 16.0 3.3 29.0 16.0 Green Ext Time (p_c), s 0.0 32.0 0.0 0.1 12.8 0.0 Intersection Summary HCM 6th Ctrl Delay 97.8		1	2		4	5	6		8				
Change Period (Y+Rc), s * 8.6 * 6.9 * 7.2 * 7.6 6.9 7.2 Max Green Setting (Gmax), s * 9.4 * 1E2 * 14 * 10 104.1 13.8 Max Q Clear Time (g_c+I1), s 2.6 2.0 16.0 3.3 29.0 16.0 Green Ext Time (p_c), s 0.0 32.0 0.0 0.1 12.8 0.0 Intersection Summary HCM 6th Ctrl Delay 97.8		12 1											
Max Green Setting (Gmax), s * 9.4 * 1E2 * 14 * 10 104.1 13.8 Max Q Clear Time (g_c+l1), s 2.6 2.0 16.0 3.3 29.0 16.0 Green Ext Time (p_c), s 0.0 32.0 0.0 0.1 12.8 0.0 Intersection Summary HCM 6th Ctrl Delay 97.8													
Max Q Clear Time (g_c+l1), s 2.6 2.0 16.0 3.3 29.0 16.0 Green Ext Time (p_c), s 0.0 32.0 0.0 0.1 12.8 0.0 Intersection Summary HCM 6th Ctrl Delay 97.8	. ,												
Green Ext Time (p_c), s 0.0 32.0 0.0 0.1 12.8 0.0 Intersection Summary HCM 6th Ctrl Delay 97.8													
Intersection Summary HCM 6th Ctrl Delay 97.8													
HCM 6th Ctrl Delay 97.8	•												
,				97.8									
1													
Notes				'									

^{*} HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

•	-	→	*	•	←	•	1	†	/	/	↓	4	
Movement EB	L E	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	<u>ነ</u>	^	7		∱ Љ			4			4		
		1073	148	28	1379	0	277	0	107	0	0	0	
•	0 1	1073	148	28	1379	0	277	0	107	0	0	0	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT) 1.0	0		1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Parking Bus, Adj 1.0	0 1	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 187	0 1	1796	1796	1796	1796	1796	1870	1870	1870	1870	1870	1870	
-	0 1	1141	157	30	1467	0	295	0	114	0	0	0	
Peak Hour Factor 0.9		0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	
	2	7	7	7	7	7	2	2	2	2	2	2	
Cap, veh/h 4		3263	1455	548	3672	0	291	0	96	0	443	0	
Arrive On Green 0.0		1.00	1.00	0.07	1.00	0.00	0.24	0.00	0.24	0.00	0.00	0.00	
Sat Flow, veh/h 36		3413	1522	1711	3503	0	1053	0	407	0	1870	0	
		1141	157	30	1467	0	409	0	0	0	0	0	
Grp Sat Flow(s), veh/h/ln 36		1706	1522	1711	1706	0	1461	0	0	0	1870	0	
Q Serve(g_s), s 0.		0.0	0.0	0.0	0.0	0.0	35.5	0.0	0.0	0.0	0.0	0.0	
Cycle Q Clear(q_c), s 0.		0.0	0.0	0.0	0.0	0.0	35.5	0.0	0.0	0.0	0.0	0.0	
Prop In Lane 1.0		0.0	1.00	1.00	0.0	0.00	0.72	0.0	0.28	0.00	0.0	0.00	
Lane Grp Cap(c), veh/h 4		3263	1455	548	3672	0.00	387	0	0.20	0.00	443	0	
V/C Ratio(X) 0.0		0.35	0.11	0.05	0.40	0.00	1.06	0.00	0.00	0.00	0.00	0.00	
Avail Cap(c_a), veh/h 4		3263	1455	548	3672	0	387	0	0	0	443	0	
HCM Platoon Ratio 2.0		2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I) 0.0		0.82	0.82	0.79	0.79	0.00	1.00	0.00	0.00	0.00	0.00	0.00	
Uniform Delay (d), s/veh 0.		0.0	0.0	0.0	0.0	0.0	59.1	0.0	0.0	0.0	0.0	0.0	
Incr Delay (d2), s/veh 0.		0.2	0.1	0.2	0.3	0.0	61.6	0.0	0.0	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	0.0	0.0	0.0	0.0	
%ile BackOfQ(95%),veh/lr0.		0.2	0.1	0.0	0.2	0.0	30.0	0.0	0.0	0.0	0.0	0.0	
Unsig. Movement Delay, s/v													
LnGrp Delay(d),s/veh 0.		0.2	0.1	0.2	0.3	0.0	120.7	0.0	0.0	0.0	0.0	0.0	
. 3	4	A	А	A	А	A	F	A	A	A	A	А	
Approach Vol, veh/h		1298	· ·		1497		·	409	- ' '	- ' '	0		
Approach Delay, s/veh		0.2			0.3			120.7			0.0		
Approach LOS		A			Α			F			0.0		
				1		4		0					
Timer - Assigned Phs Phs Duration (G+Y+Rc), s	1-	2 70.0		43.0	5 18.0	152.0		43.0					
Change Period (Y+Rc), s		* 6.8		* 7.5	7.9	6.8		7.5					
Max Green Setting (Gmax),		1E2		* 36	10.1	83.2		34.5					
Max Q Clear Time (g_c+l1),		2.0		37.5	2.0	2.0		0.0					
Green Ext Time (p_c), s		16.2		0.0	0.0	11.1		0.0					
Intersection Summary				3.0	3.3			3.0					
			1										
HCM 6th Ctrl Delay			15.6										
HCM 6th LOS			В										
Notes													

^{*} HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

	۶	→	•	•	←	•	4	†	/	\	ļ	4	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	1/1	^	7	¥	^	7		4		¥	ર્ન	77	
Traffic Volume (veh/h)	580	1035	0	1	1515	52	2	2	2	23	2	621	
Future Volume (veh/h)	580	1035	0	1	1515	52	2	2	2	23	2	621	
nitial 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	
Vork Zone On Approac	:h	No			No			No			No		
dj Sat Flow, veh/h/ln	1870	1796	1870	1870	1796	1870	1870	1870	1870	1870	1870	1796	
Adj Flow Rate, veh/h	624	1113	0	1	1629	56	2	2	2	26	0	507	
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	
Percent Heavy Veh, %	2	7	2	2	7	2	2	2	2	2	2	7	
Cap, veh/h	461	2132	990	2	1640	762	4	4	4	556	0	881	
Arrive On Green	0.27	1.00	0.00	0.00	0.96	0.96	0.01	0.01	0.01	0.16	0.00	0.16	
Sat Flow, veh/h	3456	3413	1585	1781	3413	1585	579	579	579	3563	0	3045	
Grp Volume(v), veh/h	624	1113	0	1	1629	56	6	0	0	26	0	507	
Grp Sat Flow(s), veh/h/li		1706	1585	1781	1706	1585	1737	0	0	1781	0	1522	
2 Serve(g_s), s	20.0	0.0	0.0	0.1	61.1	0.2	0.5	0.0	0.0	0.9	0.0	21.3	
Cycle Q Clear(g_c), s	20.0	0.0	0.0	0.1	61.1	0.2	0.5	0.0	0.0	0.9	0.0	21.3	
Prop In Lane	1.00		1.00	1.00		1.00	0.33		0.33	1.00		1.00	
ane Grp Cap(c), veh/h		2132	990	2	1640	762	13	0	0	556	0	881	
//C Ratio(X)	1.35	0.52	0.00	0.41	0.99	0.07	0.47	0.00	0.00	0.05	0.00	0.58	
Avail Cap(c_a), veh/h	461	2132	990	116	1640	762	119	0	0	556	0	881	
HCM Platoon Ratio	2.00	2.00	2.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	
Jpstream Filter(I)	0.81	0.81	0.00	0.73	0.73	0.73	1.00	0.00	0.00	1.00	0.00	1.00	
Jniform Delay (d), s/vel		0.0	0.0	74.7	2.7	1.5	74.2	0.0	0.0	53.8	0.0	45.4	
ncr Delay (d2), s/veh		0.7	0.0	65.9	17.4	0.1	24.3	0.0	0.0	0.2	0.0	2.7	
nitial 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	
%ile BackOfQ(95%),vel		0.4	0.0	0.1	8.3	0.2	0.6	0.0	0.0	0.8	0.0	13.2	
Jnsig. Movement Delay													
_nGrp Delay(d),s/veh		0.7	0.0	140.6	20.1	1.7	98.4	0.0	0.0	54.0	0.0	48.2	
_nGrp LOS	F	А	А	F	С	Α	F	А	А	D	А	D	
Approach Vol, veh/h		1737			1686			6			533		
Approach Delay, s/veh		81.6			19.6			98.4			48.5		
Approach LOS		F			В			F			D		
imer - Assigned Phs	1	2		4	5	6		8					
Phs Duration (G+Y+Rc)	1 82 /	100.8		8.8	30.0	79.2		32.0					
Change Period (Y+Rc),		* 7.1		* 7.7	10.0	* 7.1		8.6					
Max Green Setting (Gm		* 75		* 10	20.0	* 63		23.4					
Max Q Clear Time (g_c		2.0		2.5	22.0	63.1		23.4					
Green Ext Time (p_c), s		9.7		0.0	0.0	0.0		0.0					
4-7	.0.0	7.1		0.0	0.0	0.0		0.0					
ntersection Summary			F0.0										
HCM 6th Ctrl Delay			50.8										
HCM 6th LOS			D										
Intes													

User approved pedestrian interval to be less than phase max green.

User approved volume balancing among the lanes for turning movement.

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

و	k	-	•	•	←	•	4	†	<i>></i>	>	↓	✓	
Movement EE	3L	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
	ኘ	† 1>		*	↑ ↑			4			4		
	14	903	21	160	1092	104	49	83	222	88	87	13	
,	14	903	21	160	1092	104	49	83	222	88	87	13	
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT) 1.0			1.00	1.00		1.00	1.00		1.00	1.00		1.00	
Parking Bus, Adj 1.0		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 187	70	1826	1826	1826	1826	1826	1826	1826	1826	1826	1826	1826	
•	15	961	22	170	1162	111	52	88	236	94	93	14	
Peak Hour Factor 0.9		0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	
Percent Heavy Veh, %	2	5	5	5	5	5	5	5	5	5	5	5	
Cap, veh/h 37		2628	60	478	2695	257	67	93	223	95	84	11	
Arrive On Green 0.7		0.76	0.76	0.04	0.84	0.84	0.22	0.22	0.22	0.22	0.22	0.22	
	35	3467	79	1739	3200	305	178	415	999	267	378	48	
	15	481	502	170	629	644	376	0	0	201	0	0	
Grp Sat Flow(s), veh/h/ln 43		1735	1812	1739	1735	1771	1592	0	0	693	0	0	
•	.4	13.9	13.9	3.1	13.5	13.5	0.0	0.0	0.0	0.0	0.0	0.0	
	3.8	13.9	13.9	3.1	13.5	13.5	33.5	0.0	0.0	33.5	0.0	0.0	
Prop In Lane 1.0		10.7	0.04	1.00	10.0	0.17	0.14	0.0	0.63	0.47	0.0	0.07	
Lane Grp Cap(c), veh/h 37		1315	1373	478	1461	1491	383	0	0.03	190	0	0.07	
V/C Ratio(X) 0.0		0.37	0.37	0.36	0.43	0.43	0.98	0.00	0.00	1.06	0.00	0.00	
Avail Cap(c_a), veh/h 37		1315	1373	553	1461	1491	383	0.00	0.00	190	0.00	0.00	
HCM Platoon Ratio 1.0		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) 0.7		0.75	0.75	1.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00	
1	5.2	6.1	6.1	4.5	2.9	2.9	59.1	0.0	0.0	59.9	0.0	0.0	
J . /·).2	0.6	0.6	0.4	0.9	0.9	41.1	0.0	0.0	81.5	0.0	0.0	
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(95%),veh/lr0		7.2	7.4	1.6	6.1	6.2	26.0	0.0	0.0	17.8	0.0	0.0	
Unsig. Movement Delay, s/			7.7	1.0	0.1	0.2	20.0	0.0	0.0	17.0	0.0	0.0	
	i.3	6.7	6.6	4.9	3.9	3.9	100.1	0.0	0.0	141.4	0.0	0.0	
LnGrp LOS	Α	Α	Α	A	Α.	Α.	F	Α	Α	F	Α	Α	
Approach Vol, veh/h	,,	998			1443		'	376		'	201		
Approach Delay, s/veh		6.6			4.0			100.1			141.4		
Approach LOS		0.0 A			4.0 A			100.1			141.4 F		
Approach LOS		А			А			Г			Ţ.		
Timer - Assigned Phs	1	2		4		6		8					
Phs Duration (G+Y+Rc), \$2	2.5	121.7		40.3		134.2		40.3					
Change Period (Y+Rc), \$ 7		7.2		6.8		* 7.2		* 6.8					
Max Green Setting (Gmax)		83.8		33.2		* 1E2		* 34					
Max Q Clear Time (g_c+l15)		15.9		35.5		15.5		35.5					
Green Ext Time (p_c), s 0).2	6.6		0.0		10.8		0.0					
Intersection Summary													
HCM 6th Ctrl Delay			26.0										
HCM 6th LOS			20.0 C										
Notes													

^{*} HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Intersection						
Int Delay, s/veh	6.4					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥#	WER	1	HUIT	ODL	4
Traffic Vol, veh/h	7	145	70	21	72	27
Future Vol, veh/h	7	145	70	21	72	27
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
Grade, %	0	-	0	-	-	0
Peak Hour Factor	69	69	69	69	69	69
Heavy Vehicles, %	20	20	20	20	20	20
Mvmt Flow	10	210	101	30	104	39
Major/Minor N	linor1	N	/lajor1	N	Major?	
	/linor1				Major2	
Conflicting Flow All	363	116	0	0	131	0
Stage 1	116	-	-	-	-	-
Stage 2	247	-	-	-	-	-
Critical Hdwy	6.6	6.4	-	-	4.3	-
Critical Hdwy Stg 1	5.6	-	-	-	-	-
Critical Hdwy Stg 2	5.6	-	-	-	-	-
Follow-up Hdwy	3.68	3.48	-	-	2.38	-
Pot Cap-1 Maneuver	602	890	-	-	1350	-
Stage 1	866	-	-	-	-	-
Stage 2	754	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	554	890	-	-	1350	-
Mov Cap-2 Maneuver	554	-	_	_		_
Stage 1	798	_	_			
	754	-	_	-	-	_
Stage 2	734	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	10.6		0		5.7	
HCM LOS	В					
NA! I /NA ! NA		NDT	NDD	VDL 4	CDI	CDT
Minor Lane/Major Mvm	t	NBT	NRKA	VBLn1	SBL	SBT
Capacity (veh/h)		-	-	866	1350	-
HCM Lane V/C Ratio		-	-	0.254		-
HCM Control Delay (s)		-	-	10.6	7.9	0
HCM Lane LOS		-	-	В	Α	Α
HCM 95th %tile Q(veh)		-	-	1	0.3	-

Intersection						
Int Delay, s/veh	3.1					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
		LDIN	NDL			JUK
Lane Configurations	Y	102	/0	्र ी	730	15
Traffic Vol, veh/h	36	103	69	356	229	15
Future Vol, veh/h	36	103	69	356	229	15
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	91	91	91	91	91	91
Heavy Vehicles, %	20	20	20	10	10	20
Mvmt Flow	40	113	76	391	252	16
WWW. Tiow	10	110	, 0	071	202	10
Major/Minor N	linor2	N	/lajor1	N	/lajor2	
Conflicting Flow All	803	260	268	0	-	0
Stage 1	260	-	-	-	-	-
Stage 2	543	-	-	_	_	-
Critical Hdwy	6.6	6.4	4.3	_	_	_
Critical Hdwy Stg 1	5.6	- 0.7	7.0	_	_	_
	5.6	-	-	-		_
Critical Hdwy Stg 2	3.68		2.38	-		
Follow-up Hdwy		3.48		-	-	-
Pot Cap-1 Maneuver	329	737	1198	-	-	-
Stage 1	743	-	-	-	-	-
Stage 2	548	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	302	737	1198	-	-	-
Mov Cap-2 Maneuver	302	-	-	-	-	-
Stage 1	683	-	-	-	-	-
Stage 2	548	-	_	-	_	-
J	5.0					
Approach	EB		NB		SB	
HCM Control Delay, s	14.3		1.3		0	
HCM LOS	В					
J 222						
		N.S.	NET		05=	055
Minor Lane/Major Mvmt		NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)		1198	-	537	-	-
HCM Lane V/C Ratio		0.063	-	0.284	-	-
HCM Control Delay (s)		8.2	0	14.3	-	-
HCM Lane LOS		Α	Α	В	-	-
HCM 95th %tile Q(veh)		0.2	_	1.2	_	-
		3.2				

	۶	→	+	•	/	4			
Movement	EBL	EBT	WBT	WBR	SBL	SBR			
Lane Configurations	ሻ	^	↑ ↑		ሻ	7			
Fraffic Volume (veh/h)	141	1054	1117	251	289	65			
Future Volume (veh/h)	141	1054	1117	251	289	65			
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	1870	1870	1870	1870	1870	1870			
Adj Flow Rate, veh/h	145	1087	1152	259	298	67			
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97			
Percent Heavy Veh, %	2	2	2	2	2	2			
Cap, veh/h	306	2827	2049	457	207	184			
Arrive On Green	0.04	0.80	0.71	0.71	0.12	0.12			
Sat Flow, veh/h	1781	3647	2981	644	1781	1585			
Grp Volume(v), veh/h	145	1087	706	705	298	67			
Grp Sat Flow(s), veh/h/ln	1781	1777	1777	1754	1781	1585			
2 Serve(g_s), s	3.3	14.0	29.6	30.3	18.0	6.0			
Cycle Q Clear(g_c), s	3.3	14.0	29.6	30.3	18.0	6.0			
Prop In Lane	1.00			0.37	1.00	1.00			
Lane Grp Cap(c), veh/h	306	2827	1261	1245	207	184			
V/C Ratio(X)	0.47	0.38	0.56	0.57	1.44	0.36			
Avail Cap(c_a), veh/h	383	2827	1261	1245	207	184			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	0.76	0.76	0.82	0.82	1.00	1.00			
Uniform Delay (d), s/veh	10.4	4.7	10.8	10.9	68.5	63.2			
Incr Delay (d2), s/veh	0.9	0.3	1.5	1.5	223.5	1.2			
nitial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(95%),veh/ln	2.2	6.7	15.9	16.0	32.7	9.3			
Jnsig. Movement Delay, s/veh									
LnGrp Delay(d),s/veh	11.2	5.0	12.3	12.5	292.0	64.4			
LnGrp LOS	В	Α	В	В	F	Е			
Approach Vol, veh/h		1232	1411		365				
Approach Delay, s/veh		5.7	12.4		250.2				
Approach LOS		А	В		F				
Timer - Assigned Phs				4		6	7	8	
<u> </u>							12.2		
Phs Duration (G+Y+Rc), s				130.2		24.8	13.3	116.9	
Change Period (Y+Rc), s				6.9		6.8	7.8	* 6.9	
Max Green Setting (Gmax), s				123.1		18.0	12.2	* 1E2	
Max Q Clear Time (g_c+l1), s Green Ext Time (p_c), s				16.0		20.0	5.3 0.2	32.3	
4-7				8.5		0.0	U.Z	13.3	
ntersection Summary			20.5						
HCM 6th Ctrl Delay			38.5						
HCM 6th LOS			D						
otes									

User approved pedestrian interval to be less than phase max green.

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Intersection						
Int Delay, s/veh	6					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	Y	VVDIX	1	ווטוו	JUL	<u>ુુકા</u>
Traffic Vol, veh/h	0	54	17	0	21	13
Future Vol, veh/h	0	54	17	0	21	13
Conflicting Peds, #/hr	0	0	0	0	0	0
					Free	
Sign Control	Stop	Stop	Free	Free		Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage		-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	20	2	2	20	2
Mvmt Flow	0	57	18	0	22	14
Major/Minor	Minor1	N	Major1	N	Major2	
	76	18			18	0
Conflicting Flow All			0	0		0
Stage 1	18	-	-	-	-	-
Stage 2	58	-	-	-	-	-
Critical Hdwy	6.42	6.4	-	-	4.3	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.48	-	-	2.38	-
Pot Cap-1 Maneuver	927	1011	-	-	1489	-
Stage 1	1005	-	-	-	-	-
Stage 2	965	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	913	1011	-	-	1489	-
Mov Cap-2 Maneuver	913	-	-	-	-	-
Stage 1	990	-	_	-	_	-
Stage 2	965	_	_	_	_	_
Jugo 2	,00					
Approach	WB		NB		SB	
HCM Control Delay, s	8.8		0		4.6	
HCM LOS	Α					
Minor Lane/Major Mvm	nt	NBT	NRDV	VBLn1	SBL	SBT
	π					
Capacity (veh/h)		-		1011	1489	-
HCM Lane V/C Ratio		-	-	0.056		-
HCM Control Delay (s)		-	-	8.8	7.5	0
HCM Lane LOS	,	-	-	A	A	Α
HCM 95th %tile Q(veh)	-	-	0.2	0	-

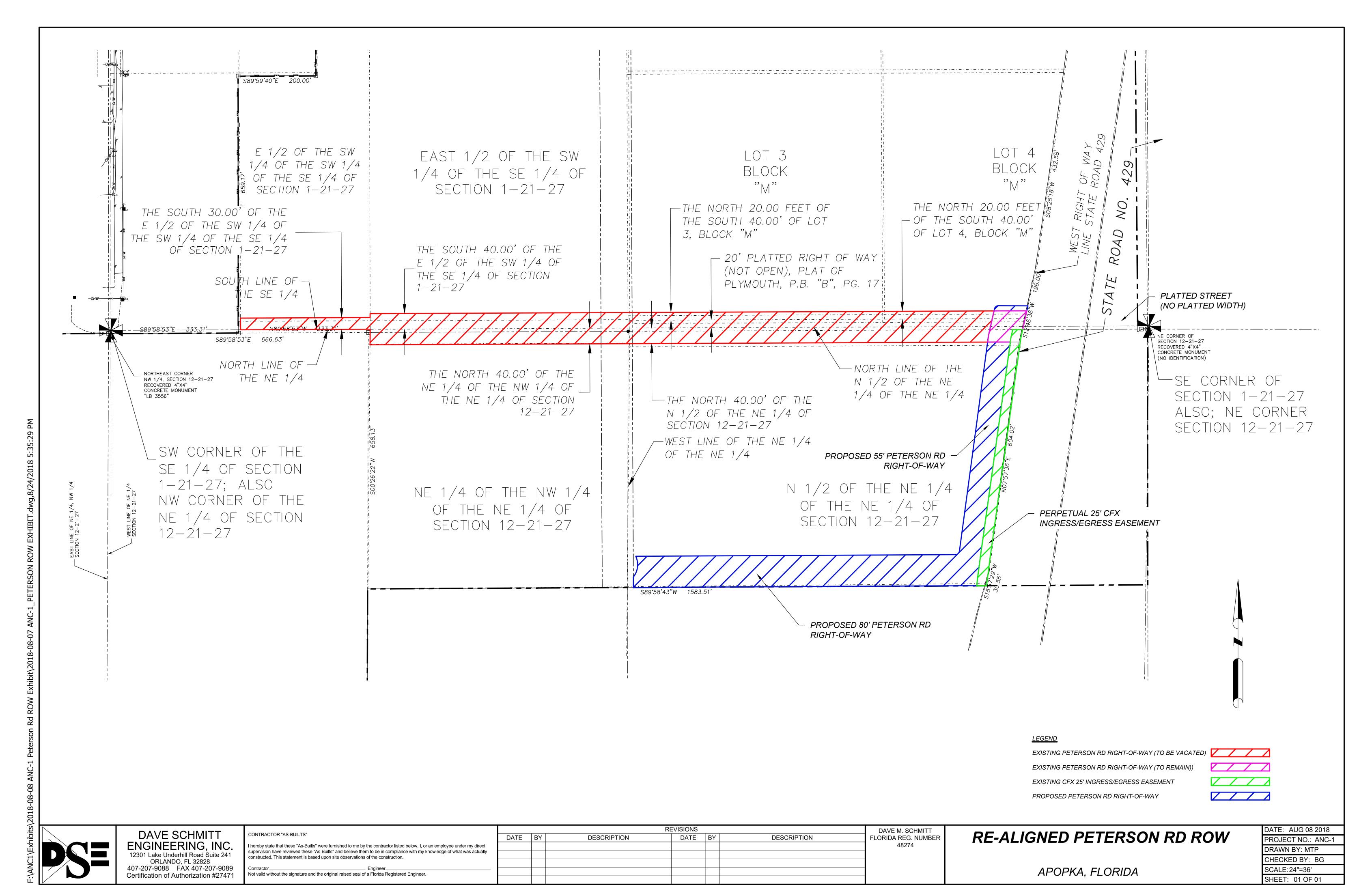
Intersection						
Int Delay, s/veh	3.2					
		EDD.	MDI	MOT	ND	NIDD
	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	Þ			र्स	¥	
Traffic Vol, veh/h	72	20	10	90	50	30
Future Vol, veh/h	72	20	10	90	50	30
Conflicting Peds, #/hr	0	0	0	0	0	0
	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	10	20	10	20	10	20
Mvmt Flow	76	21	11	95	53	32
Major/Minor Ma	nior1	N.	laior?	_N	Ninor1	
	ajor1		/lajor2		Minor1	07
Conflicting Flow All	0	0	97	0	204	87
Stage 1	-	-	-	-	87	-
Stage 2	-	-	-	-	117	-
Critical Hdwy	-	-	4.2	-	6.5	6.4
Critical Hdwy Stg 1	-	-	-	-	5.5	-
Critical Hdwy Stg 2	-	-	-	-	5.5	-
Follow-up Hdwy	-	-	2.29	-	3.59	3.48
Pot Cap-1 Maneuver	-	-	1448	-	767	924
Stage 1	-	-	-	-	917	-
Stage 2	-	-	-	-	889	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1448	-	761	924
Mov Cap-2 Maneuver	-	-	-	-	761	-
Stage 1	-	-	-	-	910	-
Stage 2	-	_	-	_	889	-
5.ago 2					50,	
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.8		9.9	
HCM LOS					Α	
Minor Lane/Major Mvmt	N	NBLn1	EBT	EBR	WBL	WBT
	<u> </u>		LDT		1448	WDT
Capacity (veh/h)		815	-	-	0.007	
HCM Lane V/C Ratio HCM Control Delay (s)		0.103 9.9	-			-
			-	-	7.5	0
HCM Lane LOS HCM 95th %tile Q(veh)		A	-	-	A	А
ncivi yain %ille U(ven)		0.3	-	-	0	-

Intersection						
Int Delay, s/veh	1.3					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	<u> </u>	LUIX	VVDL	₩ <u>₩</u>	₩.	אטוז
Traffic Vol, veh/h	97	5	4	80	15	9
Future Vol, veh/h	97	5	4	80	15	9
Conflicting Peds, #/hr	0	0	0	0	0	0
ğ	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	Jiop -	None
Storage Length	_	-	_	-	0	-
Veh in Median Storage, #		_	_	0	0	_
Grade, %	0	_	_	0	0	_
Peak Hour Factor	97	97	97	97	97	97
Heavy Vehicles, %	10	20	20	10	20	20
Mvmt Flow	100	5	4	82	15	9
IVIVIIIL I IUW	100	J	4	02	13	7
	ajor1	N	Najor2	N	Minor1	
Conflicting Flow All	0	0	105	0	193	103
Stage 1	-	-	-	-	103	-
Stage 2	-	-	-	-	90	-
Critical Hdwy	-	-	4.3	-	6.6	6.4
Critical Hdwy Stg 1	-	-	-	-	5.6	-
Critical Hdwy Stg 2	-	-	-	-	5.6	-
Follow-up Hdwy	-	-	2.38	-	3.68	3.48
Pot Cap-1 Maneuver	-	-	1381	-	757	905
Stage 1	-	-	-	-	878	-
Stage 2	-	-	-	-	890	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1381	-	755	905
Mov Cap-2 Maneuver		_	-	_	755	-
Stage 1	_	_	-	_	875	_
Stage 2	_	_	_	_	890	_
Jiugo Z					070	
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.4		9.6	
HCM LOS					Α	
Minor Lane/Major Mvmt	N	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		805	-		1381	-
		0.031	-	-	0.003	-
HCM Control Dolov (a)		0.7			7/	
HCM Control Delay (s)		9.6	-	-	7.6	0
		9.6 A 0.1	-	- -	7.6 A 0	A -

Appendix J
Improved Intersection Analysis Worksheets

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	^	7	ሻ	∱ β			4	7		4	
Traffic Volume (veh/h)	28	1330	15	53	1887	124	127	39	175	222	17	40
Future Volume (veh/h)	28	1330	15	53	1887	124	127	39	175	222	17	40
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	1796	1678	1678	1796	1796	1678	1678	1678	1678	1678	1678
Adj Flow Rate, veh/h	29	1371	15	55	1945	128	131	40	103	229	18	41
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, %	2	7	15	15	7	7	15	15	15	15	15	15
Cap, veh/h	218	2184	910	235	2082	135	241	61	264	111	5	12
Arrive On Green	0.02	0.64	0.64	0.06	1.00	1.00	0.19	0.19	0.19	0.19	0.19	0.19
Sat Flow, veh/h	1781	3413	1422	1598	3253	212	1073	328	1422	364	29	65
Grp Volume(v), veh/h	29	1371	15	55	1010	1063	171	0	103	288	0	0
Grp Sat Flow(s),veh/h/ln	1781	1706	1422	1598	1706	1758	1401	0	1422	458	0	0
Q Serve(g_s), s	8.0	36.3	0.6	1.8	0.0	0.0	0.0	0.0	9.5	10.8	0.0	0.0
Cycle Q Clear(g_c), s	8.0	36.3	0.6	1.8	0.0	0.0	17.0	0.0	9.5	27.8	0.0	0.0
Prop In Lane	1.00		1.00	1.00		0.12	0.77		1.00	0.80		0.14
Lane Grp Cap(c), veh/h	218	2184	910	235	1092	1125	302	0	264	128	0	0
V/C Ratio(X)	0.13	0.63	0.02	0.23	0.92	0.94	0.57	0.00	0.39	2.25	0.00	0.00
Avail Cap(c_a), veh/h	288	2184	910	298	1092	1125	304	0	265	128	0	0
HCM Platoon Ratio	1.00	1.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	0.18	0.18	0.18	1.00	0.00	1.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	8.6	16.2	9.8	13.2	0.0	0.0	56.7	0.0	53.7	71.4	0.0	0.0
Incr Delay (d2), s/veh	0.3	1.4	0.0	0.1	3.3	4.2	2.4	0.0	0.9	587.0	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/ln	0.6	18.9	0.3	1.0	1.7	2.1	10.3	0.0	6.3	43.3	0.0	0.0
Unsig. Movement Delay, s/veh	ı											
LnGrp Delay(d),s/veh	8.9	17.6	9.9	13.3	3.3	4.2	59.1	0.0	54.6	658.4	0.0	0.0
LnGrp LOS	Α	В	Α	В	Α	Α	Ε	Α	D	F	Α	Α
Approach Vol, veh/h		1415			2128			274			288	
Approach Delay, s/veh		17.4			4.0			57.4			658.4	
Approach LOS		В			Α			Е			F	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	12.1	102.9		35.0	12.1	102.9		35.0				
Change Period (Y+Rc), s	* 8.6	* 6.9		* 7.2	* 7.6	6.9		7.2				
Max Green Setting (Gmax), s	* 9.4	* 90		* 28	* 10	90.1		27.8				
Max Q Clear Time (g_c+l1), s	2.8	2.0		19.0	3.8	38.3		29.8				
Green Ext Time (p_c), s	0.0	31.1		0.6	0.1	12.4		0.0				
Intersection Summary												
HCM 6th Ctrl Delay			58.1									
HCM 6th LOS			E									
Notes												

^{*} HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.



August 23, 2018

David B. Moon, AICP
Planning Manager
Community Development Department, Planning and Zoning Division
City of Apopka
120 E. Main Street
Apopka, Florida 32703

Sent via email to: dmoon@apopka.net

Dear Mr. Moon:

This letter is regarding the current development plans submitted by Mid-Florida Freezer Warehouse Ltd. to the City of Apopka. First, we would like to express our appreciation to Mid-Florida Freezer, as well as the City, for hearing our concerns related to the original project plans which included a request to vacate Peterson Road.

With the increase in development in the area, we believe that traffic will increase, thus requiring road expansions and/or additional access points. The unpaved portions of Peterson Road can provide future access points to neighboring developments and property. Additionally, the expansion of Peterson Road could also impact long-term property values in the area and future uses of nearby undeveloped property.

As owners and developers of neighboring property, we strongly believe that Peterson Road could become a vital transportation artery for the area, especially as development continues to increase. Going forward, we ask that Peterson Road remain in the forefront as the City considers plans for future development in the area.

We all are proud to have a presence in Apopka and to play a role in its bright future. We appreciate your consideration of our request and look forward to hearing from you.

Sincerely,

Eric T. Bennett

General Manager, Flavor Manufacturing Apopka

The Coca-Cola Company

ROBERT NAMOFF-PRES

Print Name & Title
Developers Unlimited

Print Name & Title

Apopka Clear Lake Investments LLC, F. Bombeeck, Managing Member





T 407,358,6700 F 407,358,6735

September 26, 2018

Mr. David B. Moon, AICP Planning Manager Community Development Department, Planning and Zoning Division City of Apopka 120 East Main Street Apopka, Florida 32703

Sent via email to: dmoon@apopka.net

Dear Mr. Moon:

This letter is regarding the current development plans submitted by Mid-Florida Freezer Warehouse Ltd. and BlueScope Properties Group LLC to the City of Apopka. We understand that the Planning Commission recommended approval of the PUD zoning and the Master Plan. The project will now be submitted to the Apopka City Council for review and approval.

First, we would like to express our thanks to the City, as well as to the developers, for hearing our concerns related to the potential impact on traffic as well as addressing the request to vacate Peterson Road contained in the original project plan. With respect to our letter of August 23, 2018, we appreciate that a new route is designed for Peterson Road to jog south, cross the bottom of the development, and connect to Fern Industrial Road. This should accommodate future access to our property east of the proposed development.

With our continued significant investments in the three strategic production and development operations along Orange Avenue, our history of providing high paying jobs, as well as our desire to market a large undeveloped parcel serviced by Peterson Road we have a vested interest to ensure the continued viability and value of our investments. With the ongoing development in the area, we believe that traffic will increase, thus requiring road expansions and/or additional access points. Thus, we have an interest in provisions ensuring that the traffic generated by this project does not have a deleterious impact on our business.

We therefore request that there be language added to approval of the project to ensure the continued smooth flow of traffic. Specifically, we request that the easement for Peterson Road as indicated on the drawing set ANC-1 dated June 2018 as submitted by Dave Schmidt Engineering and BlueScope Properties be written into the approval documents. Additionally, we request that a mitigation strategy be developed and submitted to address potential traffic delays when traveling North on Orange Avenue and turning onto 441. If there is an increase of greater than 25% in the stoppage time at peak hours as measured in the traffic study submitted by the developer, the mitigation strategy would be required to be implemented. This not only provides reasonable assurance of business continuity to The Coca-Cola Company but also protects the ability of Apopka Fire Station Four, 2750 West Orange Avenue, to respond to emergencies.

We are proud to have a presence in Apopka and to play a role in its bright future. We appreciate your consideration of our request and look forward to hearing from you.

Sincerely,

Eric T. Bennett

General Manager, Flavor Manufacturing Apopka

The Coca-Cola Company

CC: Mr. James Hitt, Community Development Director

Ms. Lynne O'Brien, Director Corporate Real Estate

Ms. Shannon Sellman, Director East Region PAC



CITY OF APOPKA CITY COUNCIL

____ CONSENT AGENDA

X PUBLIC HEARING SPECIAL REPORTS

X OTHER: Annexation

MEETING OF: October 3, 2018

FROM: Community Development

EXHIBITS: Ordinance No. 2681

Annexation Case Table

Vicinity Map Aerial Map

SUBJECT: 2018 ANNEXATION – CYCLE 5

REQUEST: ORDINANCE NO. 2681 – FIRST READING – ANNEXATION OF

PROPERTY OWNED BY CONSTRUESSE USA, INC., LOCATED AT 2600

ROCK SPRINGS ROAD, PARCEL I.D. 28-20-28-0000-00-024.

SUMMARY:

OWNER: Construesse USA, Inc.

APPLICANT; Terra-Max Engineering, Inc.

LOCATION: 2600 Rock Springs Road

PARCEL ID NO.: 28-20-28-0000-00-024

EXISTING USE: Vacant

TRACT SIZE: 9.59 +/- acres

FUNDING SOURCE: N/A

DISTRIBUTION

Mayor NelsonFinance DirectorPublic Services DirectorCommissionersHR DirectorRecreation Director

City Administrator IT Director City Clerk
Community Development Director Police Chief Fire Chief

CITY COUNCIL – OCTOBER 3, 2018 2018 ANNEXATION – CYCLE 5 PAGE 2

ADDITIONAL COMMENTS: Abutting current boundaries of the City of Apopka, the subject site is consistent with Florida Statutes addressing annexation of unincorporated lands into a municipality. The proposed annexation shall be on the basis of the existing County Future Land Use and Zoning Designations. Assignment of a City Future Land Use and Zoning designation will occur at a later date, and through action by the City Council.

ORANGE COUNTY NOTIFICATION: The JPA requires the City to notify Orange County 15 days prior to the first reading of any annexation ordinance. The City provided notification to the County on September 13, 2018.

DULY ADVERTISED:

September 21, 2018 (Apopka Chief) September 28, 2018 (Apopka Chief)

PUBLIC HEARING SCHEDULE:

October 3, 2018 (1:30 PM) - City Council 1st Reading October 17, 2018 (7:00 PM) - City Council 2nd Reading and Adoption

RECOMMENDATION ACTION:

The **Development Review Committee** recommends approval of the annexation for property owned by Construesse USA, Inc.

Accept the First Reading of Ordinance No. 2681, and Hold it Over for Second Reading and Adoption on October 17, 2018.

CITY OF APOPKA 2018 ANNEXATION CYCLE # 5

TOTAL ACRES: 9.59 +/-

ORD. NO.	ITEM NO.	OWNER'S NAME	LOCATION	PARCEL ID NUMBER	ACRES +/-	EXISTING USE	FUTURE LAND USE (COUNTY)
2681	1	Construesse USA, Inc.	2600 Rock Springs Road	28-20-28-0000-00-024	9.59	Vacant	Low Density Residential

ANNEXATION

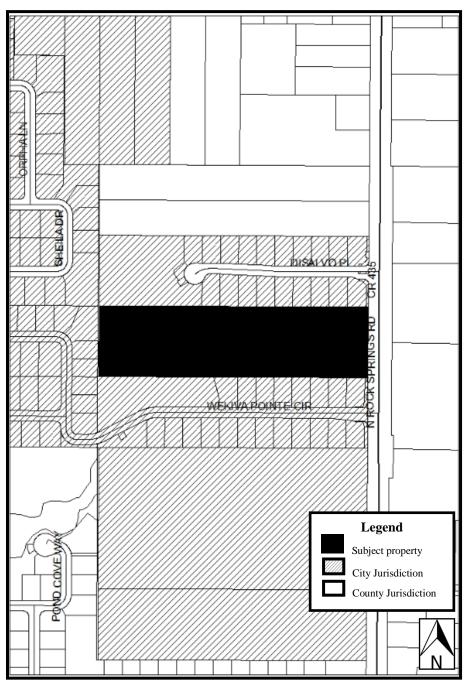
Construesse USA, Inc. 2600 Rock Springs Road

Property Description: N1/2 OF S1/2 OF SE1/4 OF NE1/4 (LESS E 50 FT FOR R/W) SEC 28-20-28

Parcel ID No.: 28-20-28-0000-00-024

Total Acres: 9.59 +/-

Vicinity Map



(THIS MAP IS FOR REFERENCE PURPOSES ONLY AND IS NOT TO SCALE)

Aerial Map



ORDINANCE NO. 2681

AN ORDINANCE OF THE CITY OF APOPKA, FLORIDA, TO EXTEND ITS TERRITORIAL AND MUNICIPAL LIMITS TO ANNEX PURSUANT TO FLORIDA STATUTE 171.044 THE HEREINAFTER DESCRIBED LANDS SITUATED AND BEING IN ORANGE COUNTY, FLORIDA, OWNED BY CONSTRUESSE USA, INC. AND LOCATED AT 2600 ROCK SPRINGS ROAD, PROVIDING FOR DIRECTIONS TO THE CITY CLERK, SEVERABILITY, CONFLICTS, AND AN EFFECTIVE DATE.

WHEREAS, Construesse USA, Inc. owner thereof, has petitioned the City Council of the City of Apopka, Florida, to annex the property located at 2600 Rock Springs Road; and

WHEREAS, Florida Statute 171.044 of the General Laws of Florida provide that a municipal corporation may annex property into its corporate limits upon voluntary petition of the owners, by passing and adopting a non-emergency ordinance to annex said property; and

WHEREAS, the City Council of the City of Apopka, Florida is desirous of annexing and redefining the boundaries of the municipality to include the subject property pursuant to Florida Statute 171.044.

NOW, THEREFORE, BE IT ORDAINED by the City Council of the City of Apopka, Florida, as follows:

<u>SECTION I</u>: That the following described properties, being situated in Orange County, Florida, totaling <u>9.59 +/- acres</u>, and graphically depicted by the attached Exhibit "A", is hereby annexed into the City of Apopka, Florida, pursuant to the voluntary annexation provisions of Chapter 171.044, Florida Statutes, and other applicable laws:

Property Description:

N1/2 OF S1/2 OF SE1/4 OF NE1/4 (LESS E 50 FT FOR R/W) SEC 28-20-28 Parcel ID No.: 28-20-28-0000-00-024

<u>SECTION II</u>: That the corporate territorial limits of the City of Apopka, Florida, are hereby redefined to include said land herein described and annexed.

<u>SECTION III</u>: That the City Council will designate the land use classification and zoning category of these annexed lands in accordance with applicable City ordinances and State laws.

<u>SECTION IV</u>: That the land herein described and future inhabitants of the land herein described shall be liable for all debts and obligations and be subject to all species of taxation, laws, ordinances and regulations of the City.

<u>SECTION V</u>: That if any section or portion of a section or subsection of this Ordinance proves to be invalid, unlawful, or unconstitutional, it shall not be held to invalidate or impair the validity, force, or effect of any other section or portion of a section or subsection or part of this ordinance.

ORDINANCE NO. 2681 PAGE 2

 $\underline{SECTION\ VI}$: That all ordinances or parts of ordinances in conflict herewith are hereby repealed.

<u>SECTION VII</u>: That this ordinance shall take effect upon passage and adoption, thereafter the City Clerk is hereby directed to file this ordinance with the Clerk of the Circuit Court in and for Orange County, Florida; the Orange County Property Appraiser; and the Department of State of the State of Florida.

	READ FIRST TIME:	October 3, 2018
	READ SECOND TIME AND ADOPTED:	October 17, 2018
ATTEST:	Bryan Nelson, Mayor	
Linda Goff, City Clerk		

DULY ADVERTISED FOR PUBLIC HEARING: September 21, 2018 and September 28, 2018

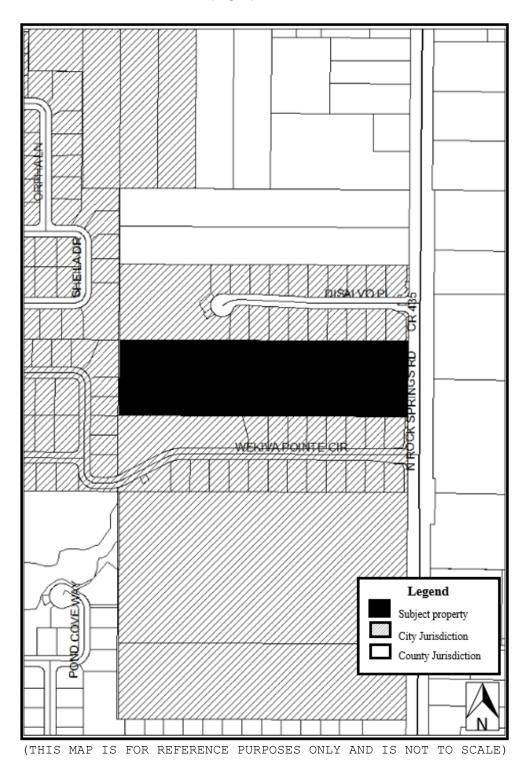
<u>ANNEXATION</u> Construesse USA, Inc. 2600 Rock Springs Road

Property Description: N1/2 OF S1/2 OF SE1/4 OF NE1/4 (LESS E 50 FT FOR R/W) SEC 28-20-28

Parcel ID No.: 28-20-28-0000-00-024

Total Acres: 9.59 +/-

VICINITY MAP





CITY OF APOPKA CITY COUNCIL

____ CONSENT AGENDA
X PUBLIC HEARING

SPECIAL REPORTS

OTHER:

MEETING OF:

October 3, 2018 Administration

FROM: Administration EXHIBITS: Resolution 2018-20

Interlocal Agreement

SUBJECT: INTERLOCAL AGREEMENT ON WASTE MANAGEMENT, INC. BONDS

REQUEST: ADOPT RESOLUTION NO. 2018-20 & HOLD A TEFRA HEARING TO GIVE

PUBLIC NOTICE AS REQUIRED

SUMMARY:

The City of Apopka is required, under the Tax Equity and Fiscal Responsibility Act of 1982 (TEFRA) and under the provisions of Section 147(f) of the Internal Revenue Code of 1986, to hold a public hearing and provide approval for Waste Management, Inc. to accept Solid Waste Disposal Revenue Bonds.

Waste Management, Inc. has requested Miami-Dade County Industrial Development Authority to issue its Solid Waste Disposal Revenue Bonds in an aggregate principal amount not to exceed \$70,000,000 and Solid Waste Disposal Refunding Revenue Bonds in an aggregate principal amount not to exceed \$23,000,000. The Bonds to Waste Management, Inc. will finance and refinance solid waste disposal capital expenditures at various locations, including the City of Apopka. The solid waste facility in the City, located at 242 West Keene Road, would receive improvements from a portion of the proceeds of the Bonds. Therefore, the City, as a political jurisdiction, is required to hold a public TEFRA hearing with respect to the issuance of the Bonds and provide a reasonable opportunity for individuals to express their views on the bonds and how the funds will be allocated.

The City will have absolutely no liability to pay principal of or interest on the Bonds and the issuance of the Bonds will have no financial impact on the City. The Bonds will be limited obligations of the Authority, payable solely from the revenue derived from the Company and pledged to the payment of the Bonds.

FUNDING SOURCE:

N/A

RECOMMENDATION ACTION:

The recommended action is to approve Resolution No. 2018-20. Secondly, approve the Interlocal Agreement, which includes, but is not limited to the City's consent to the use of Bond proceeds to finance the Apopka Project and authorize the Mayor or his designee to sign.

DISTRIBUTION

Mayor Nelson Commissioners City Administrator Community Development Director Finance Director HR Director IT Director Police Chief Public Services Director Recreation Director City Clerk Fire Chief

RESOLUTION NO. 2018-20

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF APOPKA, FLORIDA, APPROVING, PURSUANT TO SECTION 147(f) OF THE INTERNAL REVENUE CODE OF 1986. THE ISSUANCE OF NOT TO EXCEED \$70,000,000 MIAMI-DADE COUNTY INDUSTRIAL DEVELOPMENT AUTHORITY SOLID WASTE DISPOSAL REVENUE BONDS (WASTE MANAGEMENT, INC. PROJECT), AND THE ISSUANCE OF NOT TO EXCEED \$23,000,0000 SOLID WASTE DISPOSAL REFUNDING REVENUE BONDS (WASTE MANAGEMENT, INC. PROJECT), EACH ISSUED IN ONE OR MORE SERIES FOR PROJECTS IN VARIOUS LOCATIONS. **INCLUDING** THE **CITY** OF APOPKA, FLORIDA: **PROVIDING CERTAIN OTHER MATTERS** IN CONNECTION THEREWITH: AND PROVIDING AN EFFECTIVE DATE.

WHEREAS, the Miami Dade County Industrial Development Authority (the "Authority") has considered the application of Waste Management, Inc., a Delaware corporation, and/or one or more related and/or affiliated entities (collectively, the "Borrower"), which provides a full range of waste and environmental services to approximately 21 million municipal, commercial and industrial customers, and currently operates in a variety of locations in the State of Florida (the "State"), including Miami-Dade County, Florida and the City of Apopka, Florida (the "City"); and

WHEREAS, the Borrower is requesting the issuance of not to exceed \$70,000,000 Solid Waste Disposal Revenue Bonds (Waste Management, Inc. Project) (the "New Money Bonds") and not to exceed \$23,000,000 Solid Waste Disposal Refunding Revenue Bonds (Waste Management, Inc. Project) (the "Refunding Bonds", and together with the New Money Bonds, the "Bonds"), issued in one or more series; and

WHEREAS, the New Money Bonds are to be issued to provide funds for the financing of solid waste disposal capital expenditures for the Borrower at facilities located as set forth on Exhibit A hereto and the Refunding Bonds are to be issued to provide funds for the refinancing of solid waste disposal capital expenditures for the Borrower at facilities located as set forth on Exhibit A (collectively, the "Locations"), including one (1) in the City at 242 West Keene Road, City of Apopka, Florida (the "Apopka Facility" and together with the solid waste improvements financed thereon, the "Apopka Project"), and certain bond issuance costs (collectively, the "Project"); and

WHEREAS, the Authority desires to issue the Bonds and to allow the Apopka Project to be financed with a portion of the Bond proceeds; and

WHEREAS, Section 147(f) of the Internal Revenue Code of 1986, as amended (the "Code"), requires as a condition of exclusion from gross income for federal income tax

purposes of the interest on private activity bonds (as defined in Section 141(a) of the Code), that the issuance of private activity bonds, such as the Bonds, be approved after a public hearing following reasonable public notice, by the governmental unit having jurisdiction over the area in which the private activity bond-financed facility is located; and

WHEREAS, the City Council of the City (the "City Council") constitutes the elected legislative body of the City and the governmental unit having jurisdiction over the area in which the Apopka Project is located and must approve the issuance of the Bonds prior to issuance; and

WHEREAS, the City, on September 14, 2018, published a notice of a public hearing in *The Apopka Chief* (the "Newspaper"), a newspaper of general circulation in the City, to be held on October 3, 2018, at 1:30 p.m., in the City Council Chambers, City Hall, 120 East Main Street, Apopka, Florida, to consider the use of a portion of the Bond proceeds to finance the Apopka Project; and

WHEREAS, pursuant to Section 147(f) of the Code, the City Council has duly held such public hearing, following notice, as indicated by the affidavit of the publisher of the Newspaper attached hereto as <u>Exhibit B</u>, and now desires to approve the issuance of the Bonds to finance the Apopka Project; and

WHEREAS, the Authority has requested the City execute an interlocal agreement, in substantially the form attached hereto as Exhibit C, which includes, but is not limited to, the City's consent to the use of Bond proceeds to finance the Apopka Project; and

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF APOPKA:

Section 1. The issuance by the Miami-Dade County Industrial Development Authority of its not to exceed \$70,000,000 Solid Waste Disposal Revenue Bonds (Waste Management, Inc. Project), and it not to exceed \$23,000,000 Solid Waste Disposal Refunding Revenue Bonds (Waste Management, Inc. Project), each issued in one or more series, to provide funds for the financing and refinancing of solid waste disposal capital expenditures for the Borrower at its various Locations, including the Apopka Project, is hereby approved pursuant to and in accordance with Section 147(f) of the Code.

Section 2. The Interlocal Agreement by and between the Authority and the City, in substantially the form attached hereto as <u>Exhibit C</u>, is approved, with such changes as shall be approved by the Mayor or Vice-Mayor of the City Council (the "Mayor"), and the Mayor is authorized to execute it on behalf of the City, to be attested and sealed by the Clerk of the City (the "Clerk"). Execution and delivery by the Mayor and attestation and seal by the Clerk shall constitute conclusive evidence of such officers' approval and the approval of the Interlocal Agreement in final form.

Section 3. Such approval by the City Council does not constitute an endorsement to a prospective purchaser of the Bonds of the credit worthiness of the Borrower or the Project, and the

Resolution No. 2018-20 Page 3 of 3

Bonds shall not constitute an indebtedness or obligation of the City, the State or of any county, municipal corporation or any other political subdivision thereof, but the Bonds shall be limited obligations of the Authority payable solely from the revenue derived from the Borrower and pledged to the payment thereof, and no owner of any of the Bonds shall ever have the right to compel any exercise of the taxing power of the State or of any county, municipal corporation or political subdivision thereof, nor to enforce the payment thereof against any property of the State or of any such county, municipal corporation or any other political subdivision.

Section 4. All acts and doing of the officers and Commissioners of the City Council, which are in conformity with the purposes and intent of this Resolution, shall be, and the same hereby are, in all respects approved and confirmed.

Section 5. This resolution shall take effect immediately upon its passage and adoption. ADOPTED this 3rd day of October 2018.

	CITY OF APOPKA, FLORIDA
ATTEST:	Bryan Nelson, Mayor
Linda F. Goff. City Clerk	

The Apopka Chief APÓPKA, FLORIDA

PUBLISHER'S AFFIDAVIT OF PUBLICATION

STATE OF FLORIDA COUNTY OF ORANGE

Before the undersigned, personally appeared JOHN E. RICKETSON who is personally known to me and who on oath says he is PUBLISHER of THE APOPKA CHIEF, a weekly newspaper published at Apopka, in Orange County, Florida, that the attached copy of advertisement was published in said newspaper in the issues of: September 14, 2018, as well as being posted online at www.theapopkachief.com and www. floridapublicnotices.com

Affiant further says that the said APOPKA CHIEF is a newspaper published at Apopka, in said Orange County, Florida, and that said newspaper has heretofore been continuously published in said Orange County, Florida, each week and has been entered as periodical* class mail matter (*second class as renamed by USPS 7/1/96) at the post office in Apopka, in said Orange County, Florida for a period of one year next preceding the first publication of the attached copy of advertisement; and affiant further says that he has neither paid nor promised any discount, rebate commission or refund for the purpose of securing this advertisement for publication in said newspaper.

Sworn and subscribed before me this

14 day of September, 2018, by John E. Ricketson,

who is personally known to me.

Notary Public State of Florida Notary Fundamental Nancy C. Thomas

My Commission GG 108839

Nancy C. Thomas Notary Public, State of Florida My Commission GG 108839 Expires July 04, 2021

THE CITY OF APOPKA, FLORIDA CITY COUNCIL TEFRA/PUBLIC HEARING

The Miami-Dade County Industrial Development Authority (the "Authority") has been requested to issue its Solid Waste Disposal Revenue Bonds (Waste Management Inc. Project), in one or more series in an aggregate principal amount not to exceed \$70,000,000 (the "New Money Bonds"), the proceeds of which will provide financing for (i) solid waste disposal capital expenditures in the City of Apopka, Florida (the "City") and other jurisdictions located throughout the State of Florida and (ii) to pay for certain bond issuance costs (collectively, the "2018 Project"). The 2018 Project will be financed as part of an ongoing plan of financing for the 2018 Project and will be owned and operated by Waste Management, Inc., a Delaware corporation, and/or one or more related and/or affiliated entities (collectively, the "Company").

The 2018 Project consists of financing and refinancing, including through reimbursement, (a) improvements to existing landfill facilities, including improvements to permitted landfill facilities, including but not limited to (i) construction of new disposal cells and liners within currently permitted acreage, (ii) additions and improvements to the leachate collection and treatment system,

including but not limited to (i) constant of the leachate collection and treatment system, ted acreage, (ii) additions and improvements to the leachate collection and treatment system, including leachate trenching, (iii) additions and improvements to the methane gas system, (iv) installation of new liners for intermittent and final closure of completed sections of the landfill facility. installation of new liners for intermittent and final closure of completed sections of the landfill facili-ties, (v) site improvements, (vi) building construction; and (vii) acquisition of equipment to be used at the landfill facilities, (b) improvements to existing collection (hauling) and transfer station facili-ties, including (i) acquisition of solid waste disposal trucks and support vehicles, (ii) acquisition of solid waste disposal containers and related equipment, (iii) acquisition of solid waste sorting and processing equipment, (iv) site improvements and (v) building construction, and (c) acquisition of other equipment and assets necessary to support the foregoing improvements and to place them in to service. The 2018 Project locations are at existing facilities, owned or managed by the Company. The addresses and expected aggregate principal amounts of the New Money Bonds to be issued to finance improvements at each location are as follows:

Address		Amount
1.	2700 Wiles Road, Pompano Beach, Florida	\$29,000,000
	14415 County Road 39, Duette, Florida	\$10,000,000
2.	14415 County Road 35, Duette, 1 total	\$8,500,000
3.	9350 NW 89th Avenue, Medley, Florida	\$14.000.000
4.	10800 NE 128th Avenue, Okeechobee, Florida	
5.	242 Keene Road West, Apopka, Florida	\$5,000,000
6.	1940 East State Road 78 NW, Moore Haven, Florida	\$3,500,000

The Authority has also been requested to issue its Solid Waste Disposal Refunding Revenue Bonds (Waste Management Inc. Project), in one or more series in an aggregate principal amount not to exceed \$23,000,000 (the "Refunding Bonds" and together with the New Money Bonds, the "Bonds"), the proceeds of the various series of which will provide refinancing for (i) solid waste disposal capital expenditures in the City and other jurisdictions located throughout the State of Florida (shown below), and (ii) to pay for certain bond issuance costs (collectively, the "Refunding Project" and together with the 2018 Project, the "Project").

The Refunding Project will be refinanced and will be owned and operated by the Company. The

Project" and together with the 2018 Project, the "Project").

The Refunding Project will be refinanced and will be owned and operated by the Company. The Refunding Project will be refinanced and will be owned and operated by the Company. The Refunding Project consists of refinancing (a) improvements to permitted landfill facilities, including but not limited to (i) construction of disposal cells and liners within currently permitted acreage, (ii) additions and improvements to the leachate collection and treatment system, including leachate trenching, (iii) additions and improvements to the methane gas system, (iv) installation of liners for intermittent and final closure of completed sections of the landfill facilities, (v) site improvements, (vi) building construction; and (vii) acquisition of equipment to be used at the landfill facilities, (b) improvements to existing collection (hauling) and transfer station facilities, including (i) acquisition of solid waste disposal trucks and support vehicles, (ii) acquisition of solid waste disposal containers and related equipment, (iii) acquisition of solid waste sorting and processing equipment, (iv) site improvements and (v) building construction, (c) acquisition of other equipment and assets necessary to support the foregoing improvements and to place them in to service. The Refunding Project is being refinanced through the refunding of all or a portion of the Miami Dade County Industrial Development Authority Solid Waste Disposal Revenue Bonds (Waste Management, Inc. Project), Series 2004. The Refunding Project locations are at existing facilities and are owned or managed by the Company. The addresses and expected aggregate principal amounts of Refunded Project expenditures from the Refunding Bonds to be issued to refinance improvements at each location are as follows:

	Address	1101	Amount
1.	5000 NW 37th Avenue, Hialeah, Florida	\$	1,000,000
2.	9350 NW 89th Avenue, Medley, Florida	\$	7,500,000
3.	8801 NW 91st Street, Medley, Florida	\$	2,938,000
4.	3831 NW 21st Avenue, Pompano Beach, Florida	ş	1,560,000
5.	2700 Wiles Road, Pompano Beach, Florida	Ş	9,960,000
6.	20701 Pembroke Road, Pembroke Pines, Florida	\$	42,000

The Bonds shall not be a debt, liability or obligation of the Authority or the City or of the State of Florida, or of any political subdivision thereof, but shall be payable solely from payments derived from the Company and its operation of the facilities or the security instruments for the Bonds. Please take note that the City Council of the City will hold a public hearing on the Project, its nature and location and associated issues regarding the Bonds in the City Council Chambers, City Hall, 120 East Main Street, Apopka, Florida 32703, on Wednesday, October 3, 2018, commencing at 1:30 p.m. or shortly thereafter, at which time any person may be heard regarding the proposed issuence of said Rongts and the Project issuance of said Bonds and the Project.
Publish: The Apopka Chief

September 14, 2018

Once recorded please return to: Grace E. Dunlap, Esq.
Bryant Miller Olive
One Tampa City Center, Suite 2700
Tampa, Florida 33602

INTERLOCAL AGREEMENT

THIS INTERLOCAL AGREEMENT, dated as of _______, 2018 (the "Agreement"), is by and between Miami-Dade County Industrial Development Authority (the "Issuer"), an industrial development authority created and existing under the laws and Constitution of the State of Florida (the "State"), and the City of Apopka, Florida (the "City"), a municipal corporation of the State with powers under Chapter 166, Florida Statutes, and is to be effective upon the filing hereof with the Clerk of the Circuit Court for Miami-Dade County, Florida and with the Clerk of the Circuit Court for Orange County, Florida as provided in Section 7 below.

RECITALS

Waste Management, Inc., a Delaware corporation, and/or one or more related and/or affiliated entities (the "Borrower"), has requested the issuance of not to exceed \$70,000,000 Solid Waste Disposal Revenue Bonds (Waste Management Inc. Project) and not to exceed \$23,000,000 Solid Waste Disposal Refunding Revenue Bonds (Waste Management Inc. Project) (collectively, the "Bonds") and loan the proceeds from the sale thereof to the Borrower for the principal purpose of financing and refinancing the costs of improving certain existing solid waste facilities, all as described in Exhibit A to this Agreement (collectively, the "Project").

Various portions of the Project is located outside of the geographic boundaries of Miami-Dade County, Florida, the Issuer's area of jurisdiction, and a portion is located in the City, as further described in Exhibit A. According to representations of the Borrower, no portion of the Project has been financed with revenue bonds previously issued by the City.

It is necessary that the Issuer and the City enter into this Interlocal Agreement in order to enable the Issuer to issue the Bonds to finance and refinance the Project and thereby assist the Borrower.

The Bonds shall not be an obligation of the City and neither the City nor any other political subdivision of the State nor any agency thereof, other than the Issuer, shall in any way be obligated to pay the principal of, premium, if any, or interest on the Bonds as the same become due and the Bonds shall be limited obligations of the Issuer, payable solely from funds provided by the Borrower for that purpose, and the issuance of the Bonds shall not directly, indirectly or contingently obligate the Issuer to use any Issuer funds, other than funds provided by the Borrower for their payment.

In consideration of the mutual agreements contained in this Agreement and upon the further consideration of the recitals set forth above, the Issuer and the City agree as follows:

- Section 1. Should the Issuer determine to do so, the Issuer may issue the Bonds for the benefit of the Borrower to finance and refinance the Project notwithstanding that a portion of the Project is located in the City and not within the Issuer's area of jurisdiction.
- Section 2. This Interlocal Agreement shall in no way be interpreted as a delegation or abrogation of any powers of the City concerning the Project, including but not limited to zoning, building, land use or any other powers that the City would have in the absence of this Interlocal Agreement, the sole purpose of the Interlocal Agreement being to enable the Issuer to participate in the financing and refinancing of the Project as described herein.
- Section 3. Neither the provisions, covenants or agreements contained in this Interlocal Agreement, nor the Bonds issued pursuant to this Interlocal Agreement shall constitute an indebtedness, liability or pledge of the faith and credit of the City. The issuance of the Bonds pursuant to this Interlocal Agreement shall not directly, indirectly or contingently obligate the City to levy or to pledge any form of taxation whatsoever thereof, or to make any appropriation for their payment.
- Section 4. No covenant or agreement contained in this Interlocal Agreement shall be deemed to be a covenant or agreement of any member, officer, agent or employee of the City or the Issuer in his or her individual capacity, and no member, officer, agent or employee of the City or the Issuer shall be liable personally on this Interlocal Agreement or be subject to any personal liability or accountability by reason of the execution of this Interlocal Agreement.
- Section 5. This Interlocal Agreement is being delivered and is intended to be performed in the State, and shall be construed and enforced in accordance with, and the rights of the parties shall be governed by the laws of the State. Venue for any legal action related to this Interlocal Agreement shall be in Orange, County, Florida.
 - Section 6. This Interlocal Agreement does not obligate the Issuer to issue the Bonds.
- Section 7. Upon execution hereof by the Issuer and the City, the Issuer shall cause this Interlocal Agreement to be filed with the Clerk of the Circuit Court for Miami-Dade County, Florida and with the Clerk of the Circuit Court for Orange County, Florida as provided in Section 163.01(11), Florida Statutes.

[Signatures appear on following pages]

IN WITNESS WHEREOF, the parties have entered into this Interlocal Agreement as of the day and year first written above.

MIAMI-DADE COUNTY INDUSTRIAL **DEVELOPMENT AUTHORITY** (SEAL) Robert Pelaez, Chairman ATTEST: James D. Wagner, Jr., Secretary Ex Officio STATE OF FLORIDA) ss: COUNTY OF MIAMI-DADE) The foregoing instrument was acknowledged before me this _____ day of September, 2018, by Robert Pelaez, Chairman, and by James D. Wagner, Jr., Secretary Ex Officio, of the Miami-Dade County Industrial Development Authority. They are personally known to me or have produced _____ and ____, respectively, as identification. Notary Public - State of Florida My Commission Expires:

[Signatures continue on following page]

CITY OF APOPKA, FLORIDA

	By:
	Bryan Nelson, Mayor
	City of Apopka
(SEAL)	
ATTEST:	
By: Linda F. Goff, City Clerk	

J:\wdox\Docs\Clients\25016\043\Interlocal Agreement\01391824

EXHIBIT A

DESCRIPTION OF THE PROJECT

A portion of the Project (the "2018 Project") consists of financing and refinancing, including through reimbursement, (a) improvements to existing landfill facilities, including (a) improvements to permitted landfill facilities, including but not limited to (i) construction of new disposal cells and liners within currently permitted acreage, (ii) additions and improvements to the leachate collection and treatment system, including leachate trenching, (iii) additions and improvements to the methane gas system, (iv) installation of new liners for intermittent and final closure of completed sections of the landfill facilities, (v) site improvements, (vi) building construction; and (vii) acquisition of equipment to be used at the landfill facilities, (b) improvements to existing collection (hauling) and transfer station facilities, including (i) acquisition of solid waste disposal trucks and support vehicles, (ii) acquisition of solid waste sorting and processing equipment, (iv) site improvements and (v) building construction, and (c) acquisition of other equipment and assets necessary to support the foregoing improvements and to place them into service. The 2018 Project locations are at existing facilities, owned or managed by the Borrower as follows:

- 1. 2700 Wiles Road, Pompano Beach, Florida
- 2. 14415 County Road 39, Duette, Florida
- 3. 9350 NW 89th Avenue, Medley, Florida
- 4. 10800 NE 128th Avenue, Okeechobee, Florida
- 5. 242 Keene Road West, Apopka, Florida
- 6. 1940 East State Road 78 NW, Moore Haven, Florida

A portion of the Project (the "Refunding Projects") consist of refinancing (a) improvements to permitted landfill facilities, including but not limited to (i) construction of disposal cells and liners within currently permitted acreage, (ii) additions and improvements to the leachate collection and treatment system, including leachate trenching, (iii) additions and improvements to the methane gas system, (iv) installation of liners for intermittent and final closure of completed sections of the landfill facilities, (v) site improvements, (vi) building construction; and (vii) acquisition of equipment to be used at the landfill facilities, (b) improvements to existing collection (hauling) and transfer station facilities, including (i) acquisition of solid waste disposal trucks and support vehicles, (ii) acquisition of solid waste disposal containers and related equipment, (iii) acquisition of solid waste sorting and processing equipment, (iv) site improvements and (v) building construction, and (c) acquisition of other equipment and assets necessary to support the foregoing improvements and to place them in to service.

The Refunding Projects are being refinanced through the refunding of all or a portion of the Miami-Dade County Industrial Development Authority Solid Waste Disposal Revenue Bonds (Waste Management Inc. of Florida Project), Series 2004. The Refunding Projects are located at existing facilities and are owned or managed by the Company. The locations where the Refunding Projects are located are:

- 1. 8801 NW 91st Street, Medley, Florida
- 2. 9350 NW 89th Avenue, Medley, Florida
- 3. 3831 NW 21st Avenue, Pompano Beach, Florida
- 4. 2700 Wiles Road, Pompano Beach, Florida
- 5. 20701 Pembroke Road, Pembroke Pines, Florida
- 6. 5000 NW 37th Avenue, Hialeah, Florida

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APPROVAL AND ACKNOWLEDGMENT OF WASTE MANAGEMENT INC.

In consideration of the sum of \$10.00 together with other good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, Waste Management Inc., a Delaware corporation (the "Borrower"), by and through its undersigned authorized officer, hereby approves the Interlocal Agreement to which this document is attached and, by causing this Approval and Acknowledgment to be executed by its proper officer and its seal to be affixed hereto all as of the date of said Interlocal Agreement, hereby agrees as follows:

The fees and expenses of the City of Apopka, Florida (the "City") shall be paid by the Borrower in the manner and to the extent mutually agreed upon by the officials of the City and the Borrower at or prior to issuance of the Bonds.

The Borrower agrees to indemnify and hold harmless the City, and its respective officers, employees and agents, from and against any and all losses, claims, damages, liabilities or expenses, of every conceivable kind, character and nature whatsoever (including reasonable fees and expenses of attorneys, accountants, consultants and other experts) arising out of, resulting from, or in any way connected with the Interlocal Agreement or the issuance of the Bonds, other than any such losses, damages, liabilities or expenses arising from the willful misconduct of the City.

Capitalized terms used herein and not defined herein shall have the meanings given such terms in the Interlocal Agreement to which this document is attached.

	WASTE MANAGEMENT INC., a Delaware Corporation
(SEAL)	Ву:
	Print Name:
	Title:

[Notary's acknowledgment appears on following page]

STATE OF		_)					
) ss:					
COUNTY OF		_)					
The fo	rogoing in	strumont wa	s acknow	wladgad ba	fore me this	dayı	of
				•	fore me this	•	
•					e Management		
corporation.	He/she is	personally	known	to me or	has produced		as
identification.							
				Nota	ry Public - State	e of	
My Commissi	on Expires	:					

SCHEDULE II - NOTICE OF PUBLIC HEARING

THE CITY OF APOPKA, FLORIDA CITY COUNCIL TEFRA/PUBLIC HEARING

The Miami-Dade County Industrial Development Authority (the "Authority") has been requested to issue its Solid Waste Disposal Revenue Bonds (Waste Management Inc. Project), in one or more series in an aggregate principal amount not to exceed \$70,000,000 (the "New Money Bonds"), the proceeds of which will provide financing for (i) solid waste disposal capital expenditures in the City of Apopka, Florida (the "City") and other jurisdictions located throughout the State of Florida and (ii) to pay for certain bond issuance costs (collectively, the "2018 Project"). The 2018 Project will be financed as part of an ongoing plan of financing for the 2018 Project and will be owned and operated by Waste Management, Inc., a Delaware corporation, and/or one or more related and/or affiliated entities (collectively, the "Company").

The 2018 Project consists of financing and refinancing, including through reimbursement, (a) improvements to existing landfill facilities, including (a) improvements to permitted landfill facilities, including but not limited to (i) construction of new disposal cells and liners within currently permitted acreage, (ii) additions and improvements to the leachate collection and treatment system, including leachate trenching, (iii) additions and improvements to the methane gas system, (iv) installation of new liners for intermittent and final closure of completed sections of the landfill facilities, (v) site improvements, (vi) building construction; and (vii) acquisition of equipment to be used at the landfill facilities, (b) improvements to existing collection (hauling) and transfer station facilities, including (i) acquisition of solid waste disposal trucks and support vehicles, (ii) acquisition of solid waste disposal containers and related equipment, (iii) acquisition of solid waste sorting and processing equipment, (iv) site improvements and (v) building construction, and (c) acquisition of other equipment and assets necessary to support the foregoing improvements and to place them in to service. The 2018 Project locations are at existing facilities, owned or managed by the Company. The addresses and expected aggregate principal amounts of the New Money Bonds to be issued to finance improvements at each location are as follows:

Address	Amount
1. 2700 Wiles Road, Pompano Beach, Florida	\$29,000,000
2. 14415 County Road 39, Duette, Florida	\$10,000,000
3. 9350 NW 89th Avenue, Medley, Florida	\$8,500,000
4. 10800 NE 128th Avenue, Okeechobee, Florida	\$14,000,000
5. 242 Keene Road West, Apopka, Florida	\$5,000,000
6. 1940 East State Road 78 NW, Moore Haven, Florida	\$3,500,000

The Authority has also been requested to issue its Solid Waste Disposal Refunding Revenue Bonds (Waste Management Inc. Project), in one or more series in an aggregate principal amount not to exceed \$23,000,000 (the "Refunding Bonds" and

together with the New Money Bonds, the "Bonds"), the proceeds of the various series of which will provide refinancing for (i) solid waste disposal capital expenditures in the City and other jurisdictions located throughout the State of Florida (shown below), and (ii) to pay for certain bond issuance costs (collectively, the "Refunding Project" and together with the 2018 Project, the "Project").

The Refunding Project will be refinanced and will be owned and operated by the Company. The Refunding Project consists of refinancing (a) improvements to permitted landfill facilities, including but not limited to (i) construction of disposal cells and liners within currently permitted acreage, (ii) additions and improvements to the leachate collection and treatment system, including leachate trenching, (iii) additions and improvements to the methane gas system, (iv) installation of liners for intermittent and final closure of completed sections of the landfill facilities, (v) site improvements, (vi) building construction; and (vii) acquisition of equipment to be used at the landfill facilities, (b) improvements to existing collection (hauling) and transfer station facilities, including (i) acquisition of solid waste disposal trucks and support vehicles, (ii) acquisition of solid waste disposal containers and related equipment, (iii) acquisition of solid waste sorting and processing equipment, (iv) site improvements and (v) building construction, (c) acquisition of other equipment and assets necessary to support the foregoing improvements and to place them in to service. The Refunding Project is being refinanced through the refunding of all or a portion of the Miami Dade County Industrial Development Authority Solid Waste Disposal Revenue Bonds (Waste Management, Inc. Project), Series 2004. The Refunding Project locations are at existing facilities and are owned or managed by the Company. The addresses and expected aggregate principal amounts of Refunded Project expenditures from the Refunding Bonds to be issued to refinance improvements at each location are as follows:

		Not	to Exceed
	Address	Α	mount
1.	5000 NW 37th Avenue, Hialeah, Florida	\$	1,000,000
2.	9350 NW 89th Avenue, Medley, Florida	\$	7,500,000
3.	8801 NW 91st Street, Medley, Florida	\$	2,938,000
4.	3831 NW 21st Avenue, Pompano Beach, Florida	\$	1,560,000
5.	2700 Wiles Road, Pompano Beach, Florida	\$	9,960,000
6.	20701 Pembroke Road, Pembroke Pines, Florida	\$	42,000

The Bonds shall not be a debt, liability or obligation of the Authority or the City or of the State of Florida, or of any political subdivision thereof, but shall be payable solely from payments derived from the Company and its operation of the facilities or the security instruments for the Bonds.

Please take note that the City Council of the City will hold a public hearing on the Project, its nature and location and associated issues regarding the Bonds in the City Council Chambers, City Hall, 120 East Main Street, Apopka, Florida, on Wednesday, October 3, 2018, commencing at 1:30 p.m. or shortly thereafter, at which time any person may be heard regarding the proposed issuance of said Bonds and the Project.

EXHIBIT A

LOCATIONS OF THE PROJECT

PROJECTS FINANCED WITH NEW MONEY BONDS

- 1. 2700 Wiles Road, Pompano Beach, Florida
- 2. 14415 County Road 39, Duette, Florida
- 3. 9350 NW 89th Avenue, Medley, Florida
- 4. 10800 NE 128th Avenue, Okeechobee, Florida
- 5. 242 Keene Road West, Apopka, Florida
- 6. 1940 East State Road 78 NW, Moore Haven, Florida

PROJECTS REFINANCED WITH REFUNDING BONDS

- 1. 5000 NW 37th Avenue, Hialeah, Florida
- 2. 8801 NW 91st Street, Medley, Florida
- 3. 9350 NW 89th Avenue, Medley, Florida
- 4. 3831 NW 21st Avenue, Pompano Beach, Florida
- 5. 2700 Wiles Road, Pompano Beach, Florida
- 6. 20701 Pembroke Road, Pembroke Pines, Florida

EXHIBIT B

AFFIDAVIT OF PUBLICATION OF NOTICE OF HEARING

[Follows]

EXHIBIT C

FORM OF INTERLOCAL AGREEMENT

[Follows]



CITY OF APOPKA CITY COUNCIL

___ CONSENT AGENDA MEETING OF: October 3, 2018
___ PUBLIC HEARING FROM: Fire Department
___ SPECIAL REPORTS EXHIBITS: Agreement
X OTHER: Resolution No. 2018-21

SUBJECT: STATEWIDE MUTUAL AID AGREEMENT FOR CATASTROPHIC DISASTER

RESPONSE AND RECOVERY.

REQUEST: ADOPT RESOLUTION NO. 2018-21

SUMMARY:

The Emergency Management Act, Chapter 252, provides each local government of the state the authority to develop and enter into mutual aid agreements within the state for reciprocal emergency aid and assistance in case of emergencies too extensive to be dealt with unassisted. The agreement will ensure the timely reimbursement of costs incurred by the local governments which render such assistance.

Pursuant to Chapter 252, the City of Apopka may enter into this agreement with the Florida Emergency Management Division, who has the authority to coordinate assistance between local governments during emergencies and to concentrate available resources when needed.

FUNDING SOURCE:

N/A

RECOMMENDATION ACTION:

Adopt Resolution No. 2018-21

DISTRIBUTION

Mayor NelsonFinance DirectorPublic Services DirectorCommissionersHR DirectorRecreation DirectorCity AdministratorIT DirectorCity ClerkCommunity Development DirectorPolice ChiefFire Chief

RESOLUTION NO. 2018-21

A RESOLUTION OF THE CITY OF APOPKA, FLORIDA, APPROVING ENTERING INTO A STATEWIDE MUTUAL AID AGREEMENT FOR CATASTROPHIC DISASTER RESPONSE AND RECOVERY.

WHEREAS, the State of Florida Emergency Management Act, Chapter 252, Florida Statutes, authorizes the State and its political subdivisions to enter into mutual aid agreements to provide emergency aid and assistance in the event of a disaster or emergency; and

WHEREAS, the statutes also authorize the State to coordinate the provision of any equipment, services, or facilities owned or organized by the State or its political subdivisions for use in the affected area upon the request of the duly constituted authority of the area; and

WHEREAS, this Resolution authorizes the request, provision, and receipt of interjurisdictional mutual assistance in accordance with the Emergency Management Act, Chapter 252, Florida Statutes, among political subdivisions within the State.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF APOPKA, FLORIDA AS FOLLOWS:

Section 1: On the ____ day of _______, 2018, in order to maximize the prompt, full and effective use of resources of all participating governments in the event of an emergency or disaster we hereby adopt the Statewide Mutual Aid Agreement, Exhibit A, which is attached hereto and incorporated by reference.

PASSED AND ADOPTED THIS ____ day of _________, 2018.

Bryan Nelson, Mayor

ATTEST:

Linda F. Goff, City Clerk



DIVISION OF EMERGENCY MANAGEMENT

RICK SCOTT Governor

WESLEY MAUL Director

STATEWIDE MUTUAL AID AGREEMENT

This Agreement is between the FLORIDA DIVISION OF EMERGENCY MANAGEMENT ("Division") and the local government signing this Agreement (the "Participating Parties"). This agreement is based on the existence of the following conditions:

- A. The State of Florida is vulnerable to a wide range of disasters that are likely to cause the disruption of essential services and the destruction of the infrastructure needed to deliver those services.
- B. Such disasters are likely to exceed the capability of any one local government to cope with the emergency with existing resources.
- C. Such disasters may also give rise to unusual technical needs that the local government may be unable to meet with existing resources, but that other local governments may be able to offer.
- D. The Emergency Management Act, Chapter 252, provides each local government of the state the authority to develop and enter into mutual aid agreements within the state for reciprocal emergency aid and assistance in case of emergencies too extensive to be dealt with unassisted, and through such agreements to ensure the timely reimbursement of costs incurred by the local governments which render such assistance.
- E. Pursuant to Chapter 252, the Division has the authority to coordinate assistance between local governments during emergencies and to concentrate available resources where needed.

Based on the existence of the foregoing conditions, the parties agree to the following:

ARTICLE I.

<u>Definitions.</u> As used in this Agreement, the following expressions shall have the following meanings:

- A. The "Agreement" is this Agreement, which shall be referred to as the Statewide Mutual Aid Agreement ("SMAA").
 - B. The "Division" is the Division of Emergency Management
- C. The "Participating Parties" to this Agreement are the Division and any and all special districts, educational districts, and other local and regional governments signing this Agreement.
- D. The "Requesting Parties" to this Agreement are Participating Parties who request assistance during an emergency.
- E. The "Assisting Parties" to this Agreement are Participating Parties who render assistance in an emergency to a Requesting Party.
- F. The "State Emergency Operations Center" is the facility designated by the State Coordinating Officer to manage and coordinate assistance to local governments during an emergency.
- G. The "Comprehensive Emergency Management Plan" is the biennial Plan issued by the Division in accordance with § 252.35(2)(a), Florida Statutes.
- H. The "State Coordinating Officer" is the official whom the Governor designates, by Executive Order, to act for the Governor in responding to a disaster, and to exercise the powers of the Governor in accordance with the Executive Order, Chapter 252, Florida Statutes, and the State Comprehensive Emergency Management Plan.
- I. The "Period of Assistance" is the time during which any Assisting Party renders assistance to any Requesting Party in an emergency, and shall include both the time necessary for the resources and personnel of the Assisting Party to travel to the place specified by the Requesting Party and the time necessary to return them to their place of origin or to the headquarters of the Assisting Party.
- J. A "special district" is any local or regional governmental entity which is an independent special district within the meaning of section 189.012(3), Florida Statutes, regardless of whether established by local, special, or general act, or by rule, ordinance, resolution, or interlocal agreement.

K. An "educational district" is any school district within the meaning of section 1001.30, Florida Statutes and any community school and state university within the meaning of section 1000.21, Florida Statutes.

L. An "interlocal agreement" is any agreement between local governments within the meaning of section 163.01(3)(a), Florida Statutes.

M. A "local government" is any educational district or any entity that is a "local governmental entity" within the meaning of section 11.45(1)(e), Florida Statutes.

N. Any expressions not assigned definitions elsewhere in this Agreement shall have the definitions assigned them by the Emergency Management Act.

ARTICLE II.

Applicability of the Agreement. A Participating Party may request assistance under this Agreement for a "major" or "catastrophic disaster" as defined in section 252.34, Florida Statutes. If the Participating Party has no other mutual aid agreement that covers a "minor" disaster or other emergencies too extensive to be dealt with unassisted, it may also invoke assistance under this Agreement for a "minor disaster" or other such emergencies.

ARTICLE III.

<u>Invocation of the Agreement</u>. In the event of an emergency or threatened emergency, a Participating Party may invoke assistance under this Agreement by requesting it from any other Participating Party, or from the Division if, in the judgment of the Requesting Party, its own resources are inadequate to meet the emergency.

A. Any request for assistance under this Agreement may be oral, but within five (5) calendar days must be confirmed in writing by the County Emergency Management Agency of the Requesting Party, unless the State Emergency Operations Center has been activated in response to the emergency for which assistance is requested.

- B. All requests for assistance under this Agreement shall be transmitted by County Emergency Management Agency of the Requesting Party to either the Division, or to another Participating Party. If the Requesting Party transmits its request for Assistance directly to a Participating Party other than the Division, the Requesting Party and Assisting Party shall keep the Division advised of their activities.
- C. The Division shall relay any requests for assistance under this Agreement to such other Participating Parties as it may deem appropriate, and shall coordinate the activities of the Assisting Parties so as to ensure timely assistance to the Requesting Party. All such activities shall be carried out in accordance with the State's Comprehensive Emergency Management Plan.
- D. Nothing in this Agreement shall be construed to allocate liability for the costs of personnel, equipment, supplies, services and other resources that are staged by the Division, or by other agencies of the State of Florida, for use in responding to an emergency pending the assignment of such personnel, equipment, supplies, services and other resources to an emergency support function/mission. The documentation, payment, repayment, and reimbursement of all such costs shall be rendered in accordance with the Comprehensive Emergency Management Plan, and general accounting best practices procedures and protocols.

ARTICLE IV.

Responsibilities of Requesting Parties. To the extent practicable, all Requesting Parties seeking assistance under this Agreement shall provide the following information to the Division and the other Participating Parties. In providing such information, the Requesting Party may use Form B attached to this Agreement, and the completion of Form B by the Requesting Party shall be deemed sufficient to meet the requirements of this Article:

- A. A description of the damage sustained or threatened;
- B. An identification of the specific Emergency Support Function or Functions for which such assistance is needed;

- C. A description of the specific type of assistance needed within each Emergency Support Function;
- D. A description of the types of personnel, equipment, services, and supplies needed for each specific type of assistance, with an estimate of the time each will be needed;
 - E. A description of any public infrastructure for which assistance will be needed;
- F. A description of any sites or structures outside the territorial jurisdiction of the Requesting Party needed as centers to stage incoming personnel, equipment, supplies, services, or other resources;
- G. The place, date and time for personnel of the Requesting Party to meet and receive the personnel and equipment of the Assisting Party; and
- H. A technical description of any communications or telecommunications equipment needed to ensure timely communications between the Requesting Party and any Assisting Parties.

ARTICLE V.

Responsibilities of Assisting Parties. Each Participating Party shall render assistance under this Agreement to any Requesting Party to the extent practicable that its personnel, equipment, resources and capabilities can render assistance. If a Participating Party which has received a request for assistance under this Agreement determines that it has the capacity to render some or all of such assistance, it shall provide the following information to the Requesting Party and shall transmit it without delay to the Requesting Party and the Division. In providing such information, the Assisting Party may use Form B attached to this Agreement, and the completion of Form B by the Assisting Party shall be deemed sufficient to meet the requirements of this Article:

- A. A description of the personnel, equipment, supplies and services it has available, together with a description of the qualifications of any skilled personnel;
- B. An estimate of the time such personnel, equipment, supplies, and services will continue to be available;

- C. An estimate of the time it will take to deliver such personnel, equipment, supplies, and services at the date, time and place specified by the Requesting Party;
- D. A technical description of any communications and telecommunications equipment available for timely communications with the Requesting Party and other Assisting Parties; and
 - E. The names of all personnel whom the Assisting Party designates as Supervisors.
 - F. The estimated costs of the provision of assistance (use FEMA's Schedule of Equipment Rates spreadsheet attached to Form B.)

ARTICLE VI.

Rendition of Assistance. After the Assisting Party has delivered its personnel, equipment, supplies, services, or other resources to the place specified by the Requesting Party, the Requesting Party shall give specific assignments to the Supervisor(s) of the Assisting Party, who shall be responsible for directing the performance of these assignments. The Assisting Party shall have authority to direct the manner in which the assignments are performed. In the event of an emergency that affects the Assisting Party, all personnel, equipment, supplies, services and other resources of the Assisting Party shall be subject to recall by the Assisting Party upon not less than five (5) calendar days' notice or, if such notice is impracticable, as much notice as is practicable under the circumstances.

A. For operations at the scene of *catastrophic* and *major* disasters, the Assisting Party shall to the fullest extent practicable give its personnel and other resources sufficient equipment and supplies to make them self-sufficient for food, shelter, and operations unless the Requesting Party has specified the contrary. For *minor* disasters and other emergencies, the Requesting Party shall be responsible to provide food and shelter for the personnel of the Assisting Party unless the Requesting Party has specified the contrary. In its request for assistance the Requesting Party may specify that Assisting Parties send only self-sufficient personnel or self-sufficient resources.

B. Unless the Requesting Party has specified the contrary, it shall to the fullest extent practicable,

coordinate all communications between its personnel and those of any Assisting Parties, and shall determine all frequencies and other technical specifications for all communications and telecommunications equipment to be used.

C. Personnel of the Assisting Party who render assistance under this Agreement shall receive their usual wages, salaries and other compensation, and shall have all the duties, responsibilities, immunities, rights, interests, and privileges incident to their usual employment. If personnel of the Assisting Party hold local licenses or certifications limited to the county or municipality of issue, then the Requesting Party shall recognize and honor those licenses or certifications for the duration of the support.

ARTICLE VII.

<u>Procedures for Reimbursement</u>. Unless the Division or the Assisting Party, as the case may be, state the contrary in writing, the ultimate responsibility for the reimbursement of costs incurred under this Agreement shall rest with the Requesting Party, subject to the following conditions and exceptions:

A. In accordance with this Agreement, the Division shall pay the costs incurred by an Assisting Party in responding to a request that the Division initiates on its own, and not for another Requesting Party.

B. An Assisting Party shall bill the Division or other Requesting Party as soon as practicable, but not later than thirty (30) calendar days after the Period of Assistance has closed. Upon the request of any of the concerned Participating Parties, the State Coordinating Officer may extend this deadline for cause.

C. If the Division or the Requesting Party protests any bill or item on a bill from an Assisting Party, it shall do so in writing as soon as practicable, but in no event later than thirty (30) calendar days after the bill is received. Failure to protest any bill or billed item in writing within thirty (30) calendar days shall constitute agreement to the bill and the items on the bill and waive the right to contest the bill.

D. If the Division protests any bill or item on a bill from an Assisting Party, the Assisting Party shall have thirty (30) calendar days from the date of protest to present the bill or item to the original

Requesting Party for payment, subject to any protest by the Requesting Party.

E. If the Assisting Party cannot reach a mutual agreement with the Division or the Requesting Party to the settlement of any protested bill or billed item, the Division, the Assisting Party, or the Requesting Party may elect binding arbitration to determine its liability for the protested bill or billed item in accordance with Section F of this Article.

F. If the Division or a Participating Party elects binding arbitration, it may select as an arbitrator any elected official of another Participating Party, or any other official of another Participating Party whose normal duties include emergency management, and the other Participating Party shall also select such an official as an arbitrator, and the arbitrators thus chosen shall select another such official as a third arbitrator.

G. The three (3) arbitrators shall convene by teleconference or videoconference within thirty (30) calendar days to consider any documents and any statements or arguments by the Department, the Requesting Party, or the Assisting Party concerning the protest, and shall render a decision in writing not later than ten (10) business days after the close of the hearing. The decision of a majority of the arbitrators shall bind the parties, and shall be final.

H. If the Requesting Party has not forwarded a request through the Division, or if an Assisting Party has rendered assistance without being requested to do so by the Division, the Division shall not be liable for the costs of any such assistance. All requests to the Federal Emergency Management Agency (FEMA) for the reimbursement of costs incurred by any Participating Party shall be made by and through the Division.

I. If FEMA denies any request for reimbursement of costs which the Division has already advanced to an Assisting Party, the Assisting Party shall repay such costs to the Division, but the Division may waive such repayment for cause.

ARTICLE VIII.

<u>Costs Eligible for Reimbursement</u>. The costs incurred by the Assisting Party under this Agreement shall be reimbursed as needed to make the Assisting Party whole to the fullest extent practicable.

A. Employees of the Assisting Party who render assistance under this Agreement shall be entitled to receive from the Assisting Party all their usual wages, salaries, and any and all other compensation for mobilization, hours worked, and demobilization. Such compensation shall include any and all contributions for insurance and retirement, and such employees shall continue to accumulate seniority at the usual rate. As between the employees and the Assisting Party, the employees shall have all the duties, responsibilities, immunities, rights, interests and privileges incident to their usual employment. The Requesting Party shall reimburse the Assisting Party for these costs of employment.

B. The costs of equipment supplied by the Assisting Party shall be reimbursed at the rental rate established in FEMA's Schedule of Equipment Rates (attached to Form B), or at any other rental rate agreed to by the Requesting Party. In order to be eligible for reimbursement, equipment must be in actual operation performing eligible work. The labor costs of the operator are not included in the rates and should be approved separately from equipment costs. The Assisting Party shall pay for fuels, other consumable supplies, and repairs to its equipment as needed to keep the equipment in a state of operational readiness. Rent for the equipment shall be deemed to include the cost of fuel and other consumable supplies, maintenance, service, repairs, and ordinary wear and tear. With the consent of the Assisting Party, the Requesting Party may provide fuels, consumable supplies, maintenance, and repair services for such equipment at the site. In that event, the Requesting Party may deduct the actual costs of such fuels, consumable supplies, maintenance, and services from the total costs otherwise payable to the Assisting Party. If the equipment is damaged while in use under this Agreement and the Assisting Party receives payment for such damage under any contract of insurance, the Requesting Party may deduct such payment from any item or items billed by the Assisting Party for any of the costs for such damage that may otherwise be payable.

C. The Requesting Party shall pay the total costs for the use and consumption of any and all consumable supplies delivered by the Assisting Party for the Requesting Party under this Agreement. In the case of perishable supplies, consumption shall be deemed to include normal deterioration, spoilage and damage notwithstanding the exercise of reasonable care in its storage and use. Supplies remaining unused shall be returned to the Assisting Party in usable condition upon the close of the Period of Assistance, and the Requesting Party may deduct the cost of such returned supplies from the total costs billed by the Assisting Party for such supplies. If the Assisting Party agrees, the Requesting Party may also replace any and all used consumable supplies with like supplies in usable condition and of like grade, quality and quantity within the time allowed for reimbursement under this Agreement.

D. The Assisting Party shall keep records to document all assistance rendered under this Agreement. Such records shall present information sufficient to meet the audit requirements specified in the regulations of FEMA and any applicable circulars issued by the State of Florida Office of Management and Budget. Upon reasonable notice, the Assisting Party shall make its records available to the Division and the Requesting Party for inspection or duplication between 8:00 a.m. and 5:00 p.m. on all weekdays, except for official holidays.

ARTICLE IX.

Insurance. Each Participating Party shall determine for itself what insurance to procure, if any. With the exceptions in this Article, nothing in this Agreement shall be construed to require any Participating Party to procure insurance.

A. Each Participating Party shall procure employers' insurance meeting the requirements of the Workers' Compensation Act, as amended, affording coverage for any of its employees who may be injured while performing any activities under the authority of this Agreement, and shall file with the Division a certificate issued by the insurer attesting to such coverage.

B. Any Participating Party that elects additional insurance affording liability coverage for any

activities that may be performed under the authority of this Agreement shall file with the Division a certificate issued by the insurer attesting to such coverage.

- C. Any Participating Party that is self-insured with respect to any line or lines of insurance shall file with the Division copies of all resolutions in current effect reflecting its determination to act as a self-insurer.
- D. Subject to the limits of such liability insurance as any Participating Party may elect to procure, nothing in this Agreement shall be construed to waive, in whole or in part, any immunity any Participating Party may have in any judicial or quasi-judicial proceeding.
- E. Each Participating Party which renders assistance under this Agreement shall be deemed to stand in the relation of an independent contractor to all other Participating Parties, and shall not be deemed to be the agent of any other Participating Party.
- F. Nothing in this Agreement shall be construed to relieve any Participating Party of liability for its own conduct and that of its employees.
- G. Nothing in this Agreement shall be construed to obligate any Participating Party to indemnify any other Participating Party from liability to third parties.

ARTICLE X.

<u>General Requirements</u>. Notwithstanding anything to the contrary elsewhere in this Agreement, all Participating Parties shall be subject to the following requirements in the performance of this Agreement:

- A. To the extent that assistance under this Agreement is funded by State funds, the obligation of any statewide instrumentality of the State of Florida to reimburse any Assisting Party under this Agreement is contingent upon an annual appropriation by the Legislature.
- B. All bills for reimbursement under this Agreement from State funds shall be submitted in detail sufficient for auditing purposes. To the extent that such bills represent costs incurred for travel, such bills shall be submitted in accordance with section 112.061, Florida Statutes, and any applicable

requirements for the reimbursement of state employees for travel costs.

- C. All Participating Parties shall allow public access to all documents, papers, letters or other materials subject to the requirements of the Public Records Act, as amended, and made or received by any Participating Party in conjunction with this Agreement.
- D. No Participating Party may hire employees in violation of the employment restrictions in the Immigration and Nationality Act, as amended.
- E. No costs reimbursed under this Agreement may be used directly or indirectly to influence legislation or any other official action by the Legislature of the State of Florida or any of its agencies.
- F. Any communication to the Division under this Agreement shall be sent to the Director, Division of Emergency Management, 2555 Shumard Oak Boulevard, Tallahassee, Florida 32399-2100. Any communication to any other Participating Party shall be sent to the official or officials specified by that Participating Party on Form C attached to this Agreement. For the purpose of this Section, any such communication may be sent by the U.S. Mail, e-mail, or by facsimile.

ARTICLE XI.

Effect of Agreement. Upon its execution by a Participating Party, this Agreement shall have the following effect with respect to that Participating Party:

- A. The execution of this Agreement by any Participating Party which is a signatory to the Statewide Mutual Aid Agreement of 1994 shall terminate the rights, interests, duties, and responsibilities and obligations of that Participating Party under that agreement, but such termination shall not affect the liability of the Participating Party for the reimbursement of any costs due under that agreement, regardless of whether billed or unbilled.
- B. The execution of this Agreement by any Participating Party which is a signatory to the Public Works Mutual Aid Agreement shall terminate the rights, interests, duties, responsibilities and obligations of that Participating Party under that agreement, but such termination shall not affect the liability of the

Participating Party for the reimbursement of any costs due under that agreement, regardless of whether billed or unbilled.

- C. Upon the activation of this Agreement by the Requesting Party, this Agreement shall supersede any other existing agreement between it and any Assisting Party to the extent that the former may be inconsistent with the latter.
- D. Unless superseded by the execution of this Agreement in accordance with Section A of this Article, the Statewide Mutual Aid Agreement of 1994 shall terminate and cease to have legal existence after June 30, 2001.
- E. Upon its execution by any Participating Party, this Agreement will continue in effect for one (1) year from its date of execution by that Participating Party, and it shall automatically renew each year after its execution, unless within sixty (60) calendar days before that date the Participating Party notifies the Division, in writing, of its intent to withdraw from the Agreement.
- F. The Division shall transmit any amendment to this Agreement by sending the amendment to all Participating Parties not later than five (5) business days after its execution by the Division. Such amendment shall take effect not later than sixty (60) calendar days after the date of its execution by the Division, and shall then be binding on all Participating Parties. Notwithstanding the preceding sentence, any Participating Party who objects to the amendment may withdraw from the Agreement by notifying the Division in writing of its intent to do so within that time in accordance with Section E of this Article.

ARTICLE XII.

<u>Interpretation and Application of Agreement</u>. The interpretation and application of this Agreement shall be governed by the following conditions:

- A. The obligations and conditions resting upon the Participating Parties under this Agreement are not independent, but dependent.
 - B. Time shall be of the essence of this Agreement, and of the performance of all conditions,

obligations, duties, responsibilities, and promises under it.

C. This Agreement states all the conditions, obligations, duties, responsibilities, and promises of the Participating Parties with respect to the subject of this Agreement, and there are no conditions, obligations, duties, responsibilities, or promises other than those expressed in this Agreement.

D. If any sentence, clause, phrase, or other portion of this Agreement is ruled unenforceable or invalid, every other sentence, clause, phrase, or other portion of the Agreement shall remain in full force and effect, it being the intent of the Division and the other Participating Parties that every portion of the Agreement shall be severable from every other portion to the fullest extent practicable. The Division reserves the right, at its sole and absolute discretion, to change, modify, add, or remove portions of any sentence, clause, phrase, or other portion of this Agreement that conflicts with state law, regulation, or policy. If the change is minor, the Division will notify the Participating Party of the change and such changes will become effective immediately; therefore, please check these terms periodically for changes. If the change is substantive, the Participating Party may be required to execute the Agreement with the adopted changes. Your continued or subsequent use of this Agreement following the posting of minor changes to this Agreement will mean you accept those changes.

E. The waiver of any obligation or condition in this Agreement by a Participating Party shall not be construed as a waiver of any other obligation or condition in this Agreement.

NOTE: On February 26, 2018, this Agreement was modified by the Division of Emergency Management. This document replaces the August 20, 2007 edition of the Statewide Mutual Aid Agreement; however, any and all Agreements previously executed shall remain in full force and effect. Any local government, special district, or educational institution which has yet to execute this Agreement should use the February 26, 2018 edition for the purposes of becoming a signatory.

IN WITNESS WHEREOF, the Participating Parties have duly executed this Agreement on the date specified below:

FOR ADOPTION BY A COUNTY

FOR ADOPTION BY A CITY

STATE OF FLORIDA DIVISION OF EMERGENCY MANAGEMENT

By:		
ATTEST:	CITY OF	
CITY CLERK		
Ву:	Ву:	
Title:	Title:	
	Date:	
	Approved as to Form:	
	Ву:	
	City Attorney	

FOR ADOPTION BY AN EDUCATIONAL DISTRICT

STATE OF FLORIDA DIVISION OF EMERGENCY MANAGEMENT

By: Director			
Se Maria e e se			
SCHOOL DIST	PRICT,		
STATE OF FLORIDA			
Ву:	Ву:		
Title:	Title:		
	Date:		
	Approved as to Form:		
	By:Attorney for District	ć.	

FOR ADOPTION BY A COMMUNITY COLLEGE OR STATE UNIVERSITY

STATE OF FLORIDA DIVISION OF EMERGENCY MANAGEMENT

By:	Date:
ATTEST:	BOARD OF TRUSTEES OF COMMUNITY COLLEGE, STATE OF FLORIDA
	BOARD OF TRUSTEES OF_ UNIVERSITY, STATE OF FLORIDA
Ву:	By:
Clerk	Chairman
	Date:
	Approved as to Form:
	By: Attorney for Board

FOR ADOPTION BY A SPECIAL DISTRICT

STATE OF FLORIDA DIVISION OF EMERGENCY MANAGEMENT			
Ву:		Date:	
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	SPECIAL DIS		
Ву:	T a de muju	By:	
Title:		Title:	
		Date:	
		Approved as to Form:	
		By:Attorney for District	
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FOR ADOPTION BY AN AUTHORITY

STATE OF FLORIDA DIVISION OF EMERGENCY MANAGEMENT

By:	Date:
ATTEST:	BOARD OF TRUSTEES OF
	AUTHORITY, STATE OF FLORIDA
Ву:	By:
Clerk	Chairman
	Date:
	Approved as to Form:
	By:Attorney for Board

FOR ADOPTION BY A NATIVE AMERICAN TRIBE

STATE OF FLORIDA DIVISION OF EMERGENCY MANAGEMENT

By:	Date:
ATTEST:	TRIBAL COUNCIL OF THE
	TRIBE OF FLORIDA
10	9 90
By:	By:
Council Clerk	Chairman
	Date:
	Approved as to Form:
	Ву:
	Attorney for Council

FOR ADOPTION BY A COMMUNITY DEVELOPMENT DISTRICT

STATE OF FLORIDA DIVISION OF EMERGENCY MANAGEMENT _____ Date: Ву: _ Director COMMUNITY DEVELOPMENT DISTRICT, STATE OF FLORIDA By: _______ By: _____ Title: ______ Title: _____ Approved as to Form: Attorney for District Date: _____

FORM C

CONTACT INFORMATION FOR AUTHORIZED REPRESENTATIVES

New or Updated: _					
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3.				

FEMA's SCHEDULE OF EQUIPMENT RATES

DEPARTMENT OF HOMELAND SECURITY FEDERAL EMERGENCY MANAGEMENT AGENCY

RECOVERY DIRECTORATE PUBLIC ASSISTANCE DIVISION WASHINGTON, DC 20472

The rates on this Schedule of Equipment Rates are for applicant owned equipment in good mechanical condition, complete with all required attachments. Each rate covers all costs eligible under the Robert T. Stafford Disaster Relief and Emergency Assistance Act, 42 U.S.C. § 5121, et seq., for ownership and operation of equipment, including depreciation, overhead, all maintenance, field repairs, fuel, lubricants, tires, OSHA equipment and other costs incidental to operation. Standby equipment costs are not eligible.

Equipment must be in actual operation performing eligible work in order for reimbursement to be eligible. LABOR COSTS OF OPERATOR ARE NOT INCLUDED in the rates and should be approved separately from equipment costs.

Information regarding the use of the Schedule is contained in 44 CFR § 206.228 Allowable Costs. Rates for equipment not listed will be furnished by FEMA upon request. Any appeals shall be in accordance with 44 CFR § 206.206 Appeals.

THESE RATES ARE APPLICABLE TO MAJOR DISASTERS AND EMERGENCIES DECLARED BY THE PRESIDENT ON OR AFTER SEPTMBER 1, 2017.

	FEMA Code ID		Equipment Des	cription			
Cost Code	Equipment	Specifications	Capacity or Size	НР	Notes	Unit	2017 Rate
8010	Air Compressor	Air Delivery	41 CFM	to 10	Hoses included.	hour	\$1.51
8011	Air Compressor	Air Delivery	103 CFM	to 30	Hoses included.	hour	\$8.84
8012	Air Compressor	Air Delivery	130 CFM	to 50	Hoses included.	hour	\$11.14
8013	Air Compressor	Air Delivery	175 CFM	to 90	Hoses included.	hour	\$18.39
8014	Air Compressor	Air Delivery	400 CFM	to 145	Hoses included.	hour	\$30.47
8015	Air Compressor	Air Delivery	575 CFM	to 230	Hoses included.	hour	\$48.71
8016	Air Compressor	Air Delivery	1100 CFM	to 355	Hoses included.	hour	\$92.88
8017	Air Compressor	Air Delivery	1600 CFM	to 500	Hoses included.	hour	\$96.96
8040	Ambulance			to 150		hour	\$28,00
8041	Ambulance			to 210		hour	\$40.50
8050	Board, Arrow			to 8	Trailer Mounted.	hour .	\$4.43
8051	Board, Message			to 5	Trailer Mounted.	hour	\$11.61
8060	Auger, Portable	Hole Diameter	16 In	to 6		hour	\$2.14
8061	Auger, Portable	Hole Diameter	18 In	to 13		hour	\$4.30
8062	Auger, Tractor Mntd	Max. Auger Diameter	36 In	to 13	Includes digger, boom and mounting hardware.	hour	\$3.16
8063	Auger, Truck Mntd	Max. Auger Size	24 ln	to 100	mounting hardware. Add this rate to tractor rate for total	hour	\$34.28
8064	Hydraulic Post Driver					hour	\$35,10
8065	Auger	Horizontal Directional Boring Machine Horizontal Directional Boring	250 X 100	300	DD-140B YR-2003	hour	\$169.40
8066	Auger	Machine	50 X 100			hour	\$31.95
8067	Auger, Directional Boring Machine	Auger, Directional Boring Machine				hour	\$36.97
8070	Automobile			to 130	Transporting people.	mile	\$0.535
8071	Automobile			to 130	Transporting cargo.	hour	\$12.32
8072	Automobile, Police			to 250	Patrolling.	mile	\$0.535
8073	Automobile, Police			to 250	Stationary with engine running.	hour	\$15.69
8075	Motorcycle, Police					mile	\$0.505
8076	Automibile - Chevy Trailblazer	6 or 8 cl		285 to 300		hour	\$22.00
8077	Automobile - Ford Expedition	Fire Command Center	-			hour	\$19.00
8080	All Terrain Vehicle (ATV)	Engine 110cc, 4-Wheel; 20" tyre		6.5-7.5		hour	\$8,20
8081	All Terrain Vehicle (ATV)	Engine 125cc, 4-Wheel; 21" tyre		7.6-8.6		hour	\$8.50
8082	All Terrain Vehicle (ATV)	Engine 150cc, 4-Wheel; 22" tyre		9.0-10.0		hour	\$8.51
8083	All Terrain Vehicle (ATV)	Engine 200cc, 4-Wheel; 24" tyre		12-14.0		hour	\$9.00
8084	All Terrain Vehicle (ATV)	Engine 250cc, 4-Wheel; 24" tyre		15-17		hour	\$9.40

8085	All Terrain Vehicle (ATV)	Engine 300cc, 4-Wheel; 24" tyre	-	18-20		hour	\$10.20
8086	All Terrain Vehicle (ATV)	Engine 400cc. 4-Wheel; 25" tyre		26-28		hour	\$11.64
8087	All Terrain Vehicle (ATV)	Engine 450cc, 4-Wheel; 25" tyre		26-28		hour	\$12.40
8088	All Terrain Vehicle (ATV)	Engine 650cc, 4-Wheel; 25" tyre		38-40		hour	\$13.20
8089	All Terrain Vehicle (ATV)	Engine 750cc, 4-Wheel; 25" tyre	_ 1 1	44-46	- 1	hour	\$14.00
8110	Barge, Deck	Size	50'x35'x7.25'	111		hour	\$49.10
8111	Barge, Deck	Size	50'x35'x9'	2.5		hour	\$58.70
8112	Barge, Deck	Size	120'x45'x10'			hour	\$109.50
8113	Barge, Deck	Size	160'x45'x11"		0.141.43	hour	\$133.75
8120	Boat, Tow	Size	55'x20'x5'	to 870	Steel.	hour	\$317.54
8121	Boat, Tow	Size	60'x21'x5'	to 1050	Steel.	hour	\$358.65
8122	Boat, Tow	Size	70'x30'x7.5'	to 1350	Steel.	hour	\$569.00
8123	Boat, Tow	Size	120'x34'x8'	to 2000	Steel.	hour	\$1,094.24
8124	Airboat	815AGIS Airboat w/spray unit	15'x8'	400		hour	\$31.00
8125	Airboat	815AGIS Airboat w/spray unit	15'x8'	425		hour	\$31.95
8126	Swamp Buggy	Conquest		360		hour	\$39.25
	Compactor -2-Ton Pavement	1 3			The state of	0	15
8129	Roller	2 ton		-		hour	\$28.25
8130	Boat, Row				Heavy duty.	hour	\$1.44
8131	Boat, Runabout	Size	13'x5'	to 50	Outboard. Inboard with 360 degree	hour	\$12.00
8132	Boat, Tender	Size	14'x7'	to 100	drive.	hour	\$16.50
8133	Boat, Push	Size	45'x21'x6'	to 435	Flat hull.	hour	\$217.20
8134	Boat, Push	Size	54'x21'x6'	to 525	Flat hull.	hour	\$267.35
8135	Boat, Push	Size	58'x24'x7.5'	to 705	Flat hull.	hour	\$325.35
8136	Boat, Push	Size	64'x25'x8'	to 870	Flat hull.	hour	\$358.50
8140	Boat, Tug	Length	16 Ft	to 100	T Isac Train	hour	\$42.60
8141	Boat, Tug	Length	18 Ft	to 175		hour	\$62.55
8142	Boat, Tug	Length	26 Ft	to 250		hour	\$78.95
8143	Boat, Tug	Length	40 Ft	to 380		hour	\$196.50
8144	Boat, Tug	Length	51 Ft	to 700		hour	\$271.85
8147	Boat, Inflatable Rescue Raft	Zodiac	3111	10 700		hour	\$1.10
8148	Boat, Runabout	1544 lbs	11 passonger capacity	190-250		hour	\$62.55
0140	Boat, Kuriabout	2000 Johnson Outboard Motor w	11 passenger capacity	190-250		Hou	φ02,00
8149	Boat, removable engine	15" shaft		15		hour	\$1.50
8150	Broom, Pavement	Broom Length	72 ln	to 35		hour	\$24.50
8151	Broom, Pavement	Broom Length	96 In	to 100	A LI D' M	hour	\$27.60
8153	Broom, Pavement, Mntd	Broom Length	72 ln	to 18	Add Prime Mover cost for total rate	hour	\$6.20
					Add Prime Mover cost for		
8154	Broom, Pavement, Pull	Broom Length	84 In	to 20	total rate	hour	\$20.77
8157	Sweeper, Pavement	'		to 110		hour	\$76.70
8158	Sweeper, Pavement	and the Country of th		to 230		hour	\$96.80
8180	Bus			to 150		hour	\$20.95
8181	Bus			to 210	N	hour	\$25.45
8182	Bus			to 300		hour	\$38.35
8183	Blower	Gasoline powered Toro Pro Force		27		hour	\$15.37
8184	Back-Pack Blower			to 4.4		hour	\$1.50
8185	Walk-Behind Blower	(ha)		13		hour	\$6,50
8187	Chainsaw	20" Bar, 3.0 cu in				hour	\$1.40
8188	Chainsaw	20" Bar 5.0 cu in				hour	\$2.45
8189	Chainsaw	20" Bar 6.0 cu in				hour	\$2.65
8190	Chain Saw	Bar Length	16 ln		1 8	hour	\$1.70
8191	Chain Saw	Bar Length	25 ln			hour	\$3.45
8192	Chain Saw, Pole	Bar Size	18 ln			hour	\$1.25
8193	Skidder	model 748 E		to 173		hour	\$52.70
8194	Skidder	model 648 G11		to 177		hour	\$104.30
8195	Cutter, Brush	Cutter Size	8 ft	to 150		hour	\$115.35
8196	Cutter, Brush	Cutter Size	8 ft	to 190		hour	\$129.35
8197	Cutter, Brush	Cutter Size	10 ft	to 245		hour	\$136.30

8198	Bruncher Cutter	Cutter, Brush - 247 hp, 1997 Model 511 Feller	= 1	to 247		hour	\$187.75
8199	Log Trailer	40 ft				hour	\$9.9
8200	Chipper, Brush	Chipping Capacity	6 In	to 35	Trailer Mounted.	hour	\$8.6
8201	Chipper, Brush	Chipping Capacity	9 In	to 65	Trailer Mounted.	hour	\$16.8
8202	Chipper, Brush	Chipping Capacity	12 ln	to 100	Trailer Mounted.	hour	\$24.3
8203	Chipper, Brush	Chipping Capacity	15 ln	to 125	Trailer Mounted.	hour	\$35.0
8204	Chipper, Brush	Chipping Capacity	18 ln	to 200	Trailer Mounted.	hour	\$50.10
8208	Loader - Tractor - Knuckleboom	model Barko 595 ML		to 173		bour	\$161.89
0200	Midekieboom	model 210 w/ Buck Saw 50 inch		10 175		hour	φ101,0
8209	Loader - Wheel	Bar		to 240		hour	\$97.00
8210	Clamshell & Dragline, Crawler		149,999 lbs	to 235	Bucket not included in rate.	hour	\$127.40
8211	Clamshell & Dragline, Crawler		250,000 lbs	to 520	Bucket not included in rate.	hour	\$166.20
8212	Clamshell & Dragline, Truck			to 240	Bucket not included in rate.	hour	\$145.00
8220	Compactor	——————————————————————————————————————		to 10		hour	\$15.10
8221	Compactor, towed, Vibratory Drum			to 45		hour	\$31.70
8222	Compactor, Vibratory, Drum			to 75		hour	\$22.30
8223	Compactor, pneumatic, wheel			to 100		hour	\$26.00
8225	Compactor, Sanitation			to 300		hour	\$92.75
8226	Compactor, Sanitation			to 400		hour	\$152.30
8227	Compactor, Sanitation	and the second		535		hour	\$249.75
OZZI	Compactor, towed,			333		noui	Ψ243.13
8228	Pneumatic, Wheel		10000 lbs		Include prime mover rate	hour	\$17.00
8229	Compactor, towed, Drum Static		20000 lbs		Include prime mover rate	hour	\$15.80
8240	Feeder, Grizzly			to 35		hour	\$22.20
8241	Feeder, Grizzly			to 55		hour	\$32,45
8242	Feeder, Grizzly			to 75		hour	\$64.25
8250	Dozer, Crawler	100		to 75		hour	\$51.30
8251	Dozer, Crawler			to 105		hour	\$38,30
8252	Dozer, Crawler			to 160		hour	\$93.74
8253	Dozer, Crawler			to 250		hour	\$149.75
8254	Dozer, Crawler			to 360		hour	\$201.10
8255	Dozer, Crawler			to 565	Am T	hour	\$311.80
8256	Dozer, Crawler			to 850	- 11 1	hour	\$294.10
8260	Dozer, Wheel			to 300		hour	\$61.00
8261	Dozer, Wheel			to 400	9. 1	hour	\$94.10
8262	Dozer, Wheel			to 500	and the same of the same	hour	\$178.65
8263	Dozer, Wheel	101 000		to 625		hour	\$239.60
		3 hitch attach for tractor; 2007				7,5	
8269	Box Scraper	Befco				hour	\$3,50
8270	Bucket, Clamshell	Capacity	1.0 CY		Includes teeth. Does not include Clamshell & Dragline	hour	\$4.62
				-	Includes teeth. Does not		
8271	Bucket, Clamshell	Capacity	2.5 CY		include Clamshell & Dragline	hour	\$8.73
8272	Bucket, Clamshell	Capacity	5.0 CY		Includes teeth. Does not include Clamshell & Dragline	hour	\$13.10
OLIL	Duonot, Clamonon	oupacity	0.0 0 1		Includes teeth. Does not	noui	Ψ10.10
8273	Bucket, Clamshell	Capacity	7.5 CY		include Clamshell & Dragline	hour	\$22.40
8275	Bucket, Dragline	Capacity	2.0 CY		Does not include Clamshell & Dragline	hour	\$3,96
UZIU	Ducket, Dragilite	Capacity	2.001		Does not include Clamshell &	Hour	ψυ,υυ
8276	Bucket, Dragline	Capacity	5.0 CY		Dragline	hour	\$9.90
8277	Bucket, Dragline	Capacity	10 CY		Does not include Clamshell & Dragline	hour	\$14.10
0211	Bucket, Dragilite	Сараску	1001		Does not include Clamshell &	Hour	φ14.10
8278	Bucket, Dragline	Capacity	14 CY		Dragline	hour	\$18.65
0200	Evenuator Underville	Puelest Conneity	0.5.07	1- AE	Crawler, Truck & Wheel. Includes bucket.	hour	¢40.00
8280	Excavator, Hydraulic	Bucket Capacity	0.5 CY	to 45	Crawler, Truck & Wheel.	hour	\$18.00
8281	Excavator, Hydraulic	Bucket Capacity	1.0 CY	to 90	Includes bucket.	hour	\$34,20
0000	Everyotes 11-de-11	Duelted Conneils	4.5.00	1- 400	Crawler, Truck & Wheel.	herr	650.70
8282	Excavator, Hydraulic	Bucket Capacity	1.5 CY	to 160	Includes bucket. Crawler, Truck & Wheel.	hour	\$52.70
8283	Excavator, Hydraulic	Bucket Capacity	2.5 CY	to 265	Includes bucket.	hour	\$153.00

8284	Excavator, Hydraulic	Bucket Capacity	4.5 CY	to 420	Crawler, Truck & Wheel. Includes bucket.	hour	\$264.50
8285	Excavator, Hydraulic	Bucket Capacity	7.5 CY	to 650	Crawler, Truck & Wheel. Includes bucket.	hour	\$223.70
8286	Excavator, Hydraulic	Bucket Capacity	12 CY	to 1000	Crawler, Truck & Wheel. Includes bucket.	hour	\$455.00
8287	Excavator	2007 model Gradall XL3100 III		184	П	hour	\$105.46
8288	Excavator	2003 model Gradall XL4100 III		238		hour	\$113.20
8289	Excavator	2006 model Gradall XL5100		230		hour	\$88.80
8290	Trowel, Concrete	Diameter	48 In	to 12		hour	\$4.80
8300	Fork Lift	Capacity	6000 Lbs	to 60		hour	\$13.00
8301	Fork Lift	Capacity	12000 Lbs	to 90		hour	\$18.50
8302	Fork Lift	Capacity	18000 Lbs	to 140		hour	\$24.00
8303	Fork Lift	Capacity	50000 Lbs	to 215	Y = 1 - 1	hour	\$51.40
8306	Fork Lift Material handler	Diesel, CAT TH360B	6600-11500 gvwr lbs	99.9	(hour	\$27.90
8307	Fork Lift Material handler	Diesel, CAT TH460B		99.9		hour	\$30.15
8308	Fork Lift Material handler	Diesel, CAT TH560B		99.9		hour	\$35.80
8309	Fork Lift Accessory	2003 ACS Paddle Fork				hour	\$3.46
8310	Generator	Prime Output	5.5 KW	to 10		hour	\$3.35
8311	Generator	Prime Output	16 KW	to 25	THE RESERVE	hour	\$7.45
			43 KW	to 65	100	hour	\$15.00
8312	Generator	Prime Output		2 (2.00)		To Valv	\$34.95
8313	Generator	Prime Output	100 KW	to 125		hour	A 10 TO 10 T
8314	Generator	Filine Odiput	150 KW	to 240		hour	\$50.00
8315	Generator	Prime Output	210 KW	to 300		hour	\$62.45
8316	Generator	Prime Output	280 KW	to 400		hour	\$80.40
8317	Generator	Prime Output	350 KW	to 500		hour	\$90.50
8318	Generator	Prime Output	530 KW	to 750		hour	\$153.30
8319	Generator	Prime Output	710 KW	to 1000		hour	\$222.00
8320	Generator	Prime Output	1100 KW	to 1500	Open	hour	\$349.00
8321	Generator	Prime Output	2500 KW	to 3000		hour	\$533.75
8322	Generator	Prime Output	1,000 KW	to 1645	Enclosed	hour	\$403.30
8323	Generator	Prime Output	1,500 KW	to 2500	Enclosed	hour	\$511.22
8324	Generator	Prime Output	1100KW	2500	Enclosed	hour	\$495.80
8325	Generator	Prime Output	40KW	60		hour	\$14.80
8326	Generator	Prime Output	20KW	40		hour	\$13.32
8330	Graders	Moldboard Size	10 Ft	to 110	Includes Rigid and Articulate equipment.	hour	\$43.30
0004	0-1	Maldhaard Clas	10.54	10 150	Includes Rigid and Articulate equipment.	hour	\$46.50
8331	Graders	Moldboard Size	12 Ft	to 150	Includes Rigid and Articulate	hour	φ40.00
8332	Graders	Moldboard Size	14 Ft	to 225	equipment.	hour	\$67.50
E-SEATHATHAT - T					Per 25 foot length. Includes		
8350	Hose, Discharge	Diameter	3 In		couplings. Per 25 foot length. Includes	hour	\$0.15
8351	Hose, Discharge	Diameter	4 In		couplings.	hour	\$0.24
	Hart Transfer				Per 25 foot length. Includes		No.
8352	Hose, Discharge	Diameter	6 In		couplings.	hour	\$0.60
8353	Hose, Discharge	Diameter	8 In		Per 25 foot length, Includes couplings.	hour	\$0.60
0000	riose, Disorial ge	- Marie Carlo			Per 25 foot length. Includes		
8354	Hose, Discharge	Diameter	12 ln		couplings.	hour	\$0.90
8355	Hose, Discharge	Diameter	16 ln		Per 25 foot length. Includes couplings.	hour	\$1.70
		_			Per 25 foot length. Includes	11.05	
8356	Hose, Suction	Diameter	3 In		couplings. Per 25 foot length. Includes	hour	\$0.30
8357	Hose, Suction	Diameter	4 In		couplings.	hour	\$0.35
0050		Disease	0.1=		Per 25 foot length. Includes couplings.	hour	¢1 15
8358	Hose, Suction	Diameter	6 In		Per 25 foot length. Includes	hour	\$1.15
8359	Hose, Suction	Diameter	8 In		couplings.	hour	\$1.10
		The state of the s	*		Per 25 foot length. Includes		2000
8360	Hose, Suction	Diameter	12 ln		couplings.	hour	\$1.70
8361	Hose, Suction	Diameter	16 ln		Per 25 foot length. Includes couplings.	hour	\$3.15
2201	Loader, Crawler	Bucket Capacity	0.5 CY	to 32	Includes bucket.	hour	\$14.66

	T		T		T		
8381	Loader, Crawler	Bucket Capacity	1 CY	to 60	Includes bucket.	hour	\$34.30
8382	Loader, Crawler	Bucket Capacity	2 CY	to 118	Includes bucket.	hour	\$68.10
8383	Loader, Crawler	Bucket Capacity	3 CY	to 178	Includes bucket.	hour	\$101.30
8384	Loader, Crawler	Bucket Capacity	4 CY	to 238	Includes bucket.	hour	\$120.00
8390	Loader, Wheel	Bucket Capacity	0.5 CY	to 38		hour	\$20,10
8391	Loader, Wheel	Bucket Capacity	1 CY	to 60	CAT COC	hour	\$36.90
8392	Loader, Wheel	Bucket Capacity	2 CY	to 105	CAT-926	hour	\$35.50
8393	Loader, Wheel	Bucket Capacity	3 CY	to 152		hour	\$43.85
8394	Loader, Wheel	Bucket Capacity	4 CY	to 200		hour	\$59.30
8395	Loader, Wheel	Bucket Capacity	5 CY	to 250		hour	\$64.00
8396	Loader, Wheel	Bucket Capacity	6 CY	to 305		hour	\$104.00
8397	Loader, Wheel	Bucket Capacity	7 CY	to 360		hour	\$124.50
8398	Loader, Wheel	Bucket Capacity	8 CY	to 530		hour	\$171.40
8401	Loader, Tractor, Wheel	Bucket Capacity	0.87 CY	to 80	Case 580 Super L	hour	\$33.73
8410	Mixer, Concrete Portable	Batching Capacity	10 Cft	200.00		hour	\$3.05
8411	Mixer, Concrete Portable	Batching Capacity	12 Cft	11		hour	\$4.00
8412	Mixer, Concrete, Trailer Mntd	Batching Capacity	11 Cft	to 10		hour	\$12.70
8413	Mixer, Concrete, Trailer Mntd	Batching Capacity	16 Cft	to 25		hour	\$19.60
8419	Breaker, Pavement Hand-Held	Weight	25~90 Lbs			hour	\$1.10
8420	Breaker, Pavement			to 70		hour	\$57,45
8423	Spreader, Chip	Spread Hopper Width	12.5 Ft	to 152		hour	\$85,85
8424	Spreader, Chip	Spread Hopper Width	16.5 Ft	to 215		hour	\$116.60
8425	Spreader, Chip, Mntd	Hopper Size	8 Ft	to 8	Trailer & truck mounted.	hour	\$4.60
9430	Daver Apphalt Toward				Does not include Prime Mover.	hour	¢40.40
8430	Paver, Asphalt, Towed				Includes wheel and crawler	hour	\$12.40
8431	Paver, Asphalt			to 50	equipment.	hour	\$73.76
8432	Paver, Asphalt	41 - 1	l.	to 125	Includes wheel and crawler equipment.	hour	\$95.10
8433	Paver, Asphalt	"11 ,-		to 175	Includes wheel and crawler equipment.	hour	\$126.80
8434	Paver, Asphalt		35,000Lbs & Over	to 250	Includes wheel and crawler equipment.	hour	\$209.65
8436	Pick-up, Asphalt		00,000EB3 & 0461	to 110	одирион.	hour	\$96.85
8437	Pick-up, Asphalt			to 150		hour	\$135.00
8438	Pick-up, Asphalt			to 200		hour	\$93.50
8439	Pick-up, Asphalt			to 275			\$204.00
8440		Point Consolly	40 Gal	to 22		hour	
-22-34	Striper	Paint Capacity				hour	\$16.20
8441	Striper	Paint Capacity	90 Gal	to 60		hour	\$22.90
8442	Striper	Paint Capacity	120 Gal	to 122		hour	\$42.60
8445	Striper, Truck Mntd	Paint Capacity	120 Gal	to 460		hour	\$78.60
8446	Striper, Walk-behind Paver accessory -Belt Extension	Paint Capacity 2002 Leeboy Conveyor Belt Extension	12 Gal		crawler	hour	\$4.00 \$32.50
8450	Plow, Snow, Grader Mntd	Width	to 10 Ft		Include Grader for total cost	hour	\$28.00
8451	Plow, Snow, Grader Mntd	Width	to 14 Ft		Include Grader for total cost	hour	\$32.90
8452	Plow, Truck Mntd	Width	to 15 Ft		Include truck for total cost	hour	\$24.35
0452	1 low, 11dck Willia	Width	10 1511		With leveling wing. Include	noui	φ24.55
8453	Plow, Truck Mntd	Width	to 15 Ft		truck for total cost	hour	\$40.80
8455	Spreader, Sand	Mounting	Tailgate, Chassis			hour	\$7.35
8456	Spreader, Sand	Mounting	Dump Body			hour	\$10.45
8457	Spreader, Sand	Mounting	Truck (10yd)			hour	\$13.15
8458	Spreader, Chemical	Capacity	5 CY	to 4	Trailer & truck mounted.	hour	\$6.00
8469	Pump - Trash Pump	10 MTC	2" Pump	to 7	10,000 gph	hour	\$7.25
8470	Pump	Centrifugal, 8M pump	2" - 10,000 gal/hr.	to 4.5	Hoses not included.	hour	\$6.10
8471	Pump	Diaphragm pump	2" - 3,000 gal/hr.	to 6	Hoses not included.	hour	\$6.75
8472	Pump	Centrifugal, 18M pump	3" - 18,000 gal/hr. pump	to 10	Hoses not included.	hour	\$7.99
8473	Pump			to 15	Hoses not included.	hour	\$10,30
	Duma			to 25	Hoses not included.	hour	\$13.60
8474	Pump			10 20	rioddo not moladda.	Hour	Ψ10.00
8474 8475	Pump			to 40	Hoses not included.	hour	\$16.65

8477	Pump			to 95	Hoses not included.	hour	\$32.00
8478	Pump			to 140	Hoses not included.	hour	\$41.50
8479	Pump			to 200	Hoses not included.	hour	\$49.90
8480	Pump	- N		to 275	Does not include Hoses.	hour	\$66.8
8481	Pump			to 350	Does not include Hoses.	hour	\$82.00
8482	Pump	20 THOU IN THE TOTAL TOT		to 425	Does not include Hoses.	hour	\$96.60
8483	Pump			to 500	Does not include Hoses.	hour	\$114.00
8484	Pump		L'	to 575	Does not include Hoses.	hour	\$133.30
8485	Pump		0.10	to 650	Does not include Hoses.	hour	\$154.70
8486	Aerial Lift, Truck Mntd	Max. Platform Height	40 Ft		Add this rate to truck rate for total lift and truck rate	hour	\$11.38
8487	Aerial Lift, Truck Mntd	Max. Platform Height	61 Ft		Add this rate to truck rate for total lift and truck rate Add this rate to truck rate for	hour	\$20.54
8488	Aerial Lift, Truck Mntd	Max. Platform Height	80 Ft		total lift and truck rate	hour	\$39.00
8489	Aerial Lift, Truck Mntd	Max. Platform Load - 600Lbs	81 Ft -100 Ft. Ht.		Add this rate to truck rate for total lift and truck rate	hour	\$39.50
8490	Aerial Lift, Self-Propelled	Max. Platform Height	37 Ft. Ht.	to 15	Articulated, Telescoping, Scissor.	hour	\$8.95
8491	Aerial Lift, Self-Propelled	Max. Platform Height	60 Ft. Ht.	to 30	Articulated, Telescoping, Scissor. Articulated, Telescoping,	hour	\$16.10
8492	Aerial Lift, Self-Propelled	Max. Platform Height	70 Ft. Ht.	to 50	Scissor.	hour	\$29.26
8493	Aerial Lift, Self-Propelled	Max. Platform Height	125 Ft. Ht.	to 85	Articulated and Telescoping.	hour	\$55.65
8494	Aerial Lift, Self-Propelled	Max. Platform Height	150 Ft. Ht.	to 130	Articulated and Telescoping.	hour	\$70.15
8495	I.C. Aerial Lift, Self-Propelled	Max. Platform Load - 500 Lbs	75"x155", 40Ft Ht.	to 80	2000 Lbs Capacity	hour	\$28.95
8496	Crane, Truck Mntd	Max. Lift Capacity	24000 Lbs		Include truck rate for total cost	hour	\$14.90
8497	Crane, Truck Mntd	Max. Lift Capacity	36000 Lbs		Include truck rate for total cost	hour	\$22.40
8498	Crane, Truck Mntd	Max. Lift Capacity	60000 Lbs		Include truck rate for total cost	hour	\$36.50
8499	Pump - Trash-Pump	CPB Rating - 10MTC	10000 gal/Hr	7	Self- Priming Trash Pump	hour	\$7.55
8500	Crane	Max. Lift Capacity	8 MT	to 80		hour	\$38.70
8501	Crane	Max. Lift Capacity	15 MT	to 150		hour	\$66,90
8502	Crane	Max. Lift Capacity	50 MT	to 200		hour	\$90.00
8503	Crane	Max. Lift Capacity	70 MT	to 300		hour	\$178.60
8504	Crane	Max. Lift Capacity	110 MT	to 350	111/2 1	hour	\$243,20
8510	Saw, Concrete	Blade Diameter	14 In	to 14		hour	\$7.20
8511	Saw, Concrete	Blade Diameter	26 In	to 35		hour	\$12.00
8512	Saw, Concrete	Blade Diameter	48 In	to 65	6.005	hour	\$25.10
8513	Saw, Rock	u in minit		to 100		hour	\$33.50
8514	Saw, Rock			to 200		hour	\$63.00
8517	Jackhammer (Dry)	Weight Class	25-45 Lbs		\$4. m. 11	hour	\$1.66
8518	Jackhammer (Wet)	Weight Class	30-55 Lbs			hour	\$1.84
8521	Scraper	Scraper Capacity	16 CY	to 250	182 - 1955 State	hour	\$107.15
8522	Scraper	Scraper Capacity	23 CY	to 365	THE IN THE	hour	\$155.50
8523	Scraper	Scraper Capacity	34 CY	to 475	M _ MASS	hour	\$270.00
8524	Scraper	Scraper Capacity	44 CY	to 600	1	hour	\$265,70
8540	Loader, Skid-Steer	Operating Capacity	1000 Lbs	to 35		hour	\$14.15
8541	Loader, Skid-Steer	Operating Capacity	2000 Lbs	to 65		hour	\$37.00
8542	Loader, Skid-Steer	Operating Capacity	3000 Lbs	to 85	5	hour	\$36.05
8550	Snow Blower, Truck Mntd	Capacity	600 Tph	to 75	Does not include truck	hour	\$34.60
8551	Snow Blower, Truck Mntd	Capacity	1400 Tph	to 200	Does not include truck	hour	\$94.00
8552	Snow Blower, Truck Mntd	Capacity	2000 Tph	to 340	Does not include truck	hour	\$142.50
8553	Snow Blower, Truck Mntd	Capacity	2500 Tph	to 400	Does not include truck	hour	\$154.80
8558	Snow Thrower, Walk Behind	Cutting Width	25 in	to 5	All 15 Junit Co.	hour	\$2.80
8559	Snow Thrower, Walk Behind	Cutting Width	60 in	to 15		hour	\$14.10
8560	Snow Blower	Capacity	2,000 Tph	to 400		hour	\$234.00
8561	Snow Blower	Capacity	2,500 Tph 3,500 Tph	to 500		hour	\$255.00 \$284.00

8569 D	Oust Control De-Ice Unit	1300-2000 gal	173"Lx98"Wx51"H	5.5	Hydro Pump w/100' 1/2" hose	hour	\$3.4
8570 Lo	oader-Backhoe, Wheel	Loader Bucket Capacity	0.5 CY	to 40	Loader and Backhoe Buckets included.	hour	\$22.1
8571 Lo	oader-Backhoe, Wheel	Loader Bucket Capacity	1 CY	to 70	Loader and Backhoe Buckets included.	hour	\$29.5
8572 Lo	oader-Backhoe, Wheel	Loader Bucket Capacity	1.5 CY	to 95	Loader and Backhoe Buckets included.	hour	\$38.6
8573 Lo	oader-Backhoe, Wheel	Loader Bucket Capacity	1.75 CY	to 115	Loader and Backhoe Buckets included.	hour	\$47.7
200200	eistributor, Asphalt	Tank Capacity	500 Gal		burners, insulated tank, and circulating spray bar.	hour	\$14.7
8581 Di	istributor, Asphalt	Tank Capacity	1000 Gal		burners, insulated tank, and circulating spray bar. Include	hour	\$21.3
8582 Di	istributor, Asphalt	Tank Capacity	4000 Gal		burners, insulated tank, and circulating spray bar. Include	hour	\$30.1
1000/1000/1000 Temp	istributor	ETNYRE Oil Distributor Model - PB	Access to the second se	300	Энгин Барга, энг наши	hour	\$41.6
outstand in the	istributor	ETNYRE Quad Chip Spreader		280		hour	\$83.20
	railer, Dump	Capacity	20 CY		Does not include Prime Mover.	hour	\$11.36
0E04 T-	relles Dumn	Canadh	20.07		Does not include Prime	have	040.40
catherina 1 Mar	railer, Dump	Capacity	30 CY		Mover.	hour	\$13.10
	railer, Equipment railer, Equipment	Capacity	30 Tons 40 Tons			hour	\$14.15 \$15.50
manufacture ()	raller, Equipment	Capacity	60 Tons			hour	\$15.50
	railer, Equipment	Capacity	120 Tons			hour	\$28,3
	railer, Equipment	Tank Capacity	4000 Gal		with sump and a rear spraybar.	hour	\$13.50
					with sump and a rear		
	railer, Water	Tank Capacity	6000 Gal 10000 Gal		spraybar. with sump and a rear spraybar.	hour	\$16.55 \$19.20
	railer, Water railer, Water	Tank Capacity Tank Capacity	14000 Gal		with sump and a rear spraybar.	hour	\$23.77
	ruck- Water Tanker	1000 gal. tank	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	175	1	hour	\$33.35
	ub Grinder			to 440		hour	\$95.35
8621 Tu	ub Grinder			to 630		hour	\$143.65
8622 Tu	ub Grinder			to 760		hour	\$183.60
8623 Tu	ub Grinder			to 1000		hour	\$322.00
8627 Ho	orizontal Grinder	Model HG6000		630		hour	\$57.36
8628 St	tump Grinder	1988 Vermeer SC-112		102		hour	\$47.00
8629 St	tump Grinder	24" grinding wheel		110		hour	\$45.00
8630 Sp	prayer, Seed	Working Capacity	750 Gal	to 30	Does not include Prime Mover.	hour	\$14.00
8631 Sp	prayer, Seed	Working Capacity	1250 Gal	to 50	Trailer & truck mounted. Does not include Prime Does not include Prime	hour	\$19.80
8632 Sp	prayer, Seed	Working Capacity	3500 Gal	to 115	Mover.	hour	\$29.25
	ulcher, Trailer Mntd	Working Capacity	7 TPH	to 35		hour	\$14.10
8634 Mu	ulcher, Trailer Mntd	Working Capacity	10 TPH	to 55		hour	\$20.80
8635 Mu	ulcher, Trailer Mntd	Working Capacity	20 TPH	to 120		hour	\$29.45
8636 Sc	craper	Soil Recycler WR 2400	w 317 gal fuel tank	563		hour	\$239,85
8637 Tr	railer CAT	Double Belly Bottom-dump Trailer	26 CY of soil in one dump	330	13 CY of soil each berry	hour	\$92.33
8638 Ra	ake	Barber Beach Sand Rake 600HDr, towed	1 11			hour	\$15.40
8639 Ch	hipper	Wildcat 626 Cougar Trommel Screen chipper w belt		125		hour	\$34.30
8640 Tr	railer, Office	Trailer Size	8' x 24'		Cargo Size 16ft	hour	\$1.95
8641 Tr	railer, Office	Trailer Size	8' x 32'		Cargo Size 24ft	hour	\$2.30
8642 Tr	railer, Office	Trailer Size	10' x 32'		Cargo Size 20ft	hour	\$2.65
8643 Tr	railer	Haz-Mat Equipment trailer	8'x18'		me as called	hour	\$37.75
8644 Tr	railer, Covered Utility Trailer	(7' X 16')	1,04		tory terms tory	hour	\$5,65
8645 Tr	railer, Dodge Ram	8' x 24' shower trailer- 12 showers		101		hour	\$29.45
8646 Tr	railer, Dodge	32' flatbed water			_ 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	hour	\$27.90
8650 Tr	rencher			to 40	Wheel Mounted. Chain and Wheel.	hour	\$16.30

8651	Trencher			to 85	Wheel Mounted, Chain and Wheel.	hour	\$24.7
8654	Trencher accessories	2008 Griswold Trenchbox				hour	\$1.9
8660	Plow, Cable	Plow Depth	24 in	to 30		hour	\$12.0
8661	Plow, Cable	Plow Depth	36 in	to 65		hour	\$37.4
8662	Plow, Cable	Plow Depth	48 in	to 110		hour	\$41.2
8670	Derrick, Hydraulic Digger	Max. Boom Length	60 Ft	=	alignment attachment. Include truck rate	hour	\$34.1
8671	Derrick, Hydraulic Digger	Max. Boom Length	90 Ft		alignment attachment. Include truck rate	hour	\$54.6
8680	Truck, Concrete Mixer	Mixer Capacity	13 CY	to 300		hour	\$82.3
8684	Truck, Fire	100 Ft Ladder				hour	\$100.0
8690	Truck, Fire	Pump Capacity	1000 GPM			hour	\$68.0
8691	Truck, Fire	Pump Capacity	1250 GPM			hour	\$72.2
8692	Truck, Fire	Pump Capacity	1500 GPM		arg and the	hour	\$78.9
8693	Truck, Fire	Pump Capacity	2000 GPM			hour	\$81.40
8694	Truck, Fire Ladder	Ladder length	75 FT			hour	\$117.1
8695	Truck, Fire Ladder	Ladder length	150 FT			hour	\$142.7
8696	Truck, Fire	No Ladder	Territ	330	Rescure Equipment	hour	\$93.47
8700	Truck, Flatbed	Maximum Gvw	15000 Lbs	to 200		hour	\$20.60
8701	Truck, Flatbed	Maximum Gvw	25000 Lbs	to 275		hour	\$35.00
8702	Truck, Flatbed	Maximum Gvw	30000 Lbs	to 300	7.1	hour	\$27.10
8703	Truck, Flatbed	Maximum Gvw	45000 Lbs	to 380		hour	\$44.70
		48ft to 53ft, flat-bed, freight, two	100	10 000	619PL 31 3 C	Hour	V11.70
8708	Trailer, semi	axle	50,000+ gvwr			hour	\$8,45
8709	Trailer, semi	enclosed 48 ft to 53 ft, two axles	50,000+ gvwr		Alleria	hour	\$9.50
8710	Trailer, semi	28ft, single axle, freight	25,000 gvwr			hour	\$9.70
8711	Flat bed utility trailer	6 ton				hour	\$3.10
8712	Cleaner, Sewer/Catch Basin	Hopper Capacity	5 CY		Truck Mounted.	hour	\$24.80
8713	Cleaner, Sewer/Catch Basin	Hopper Capacity	14 CY		Truck Mounted.	hour	\$31.30
8714	Vactor	800 Gal Spoils/400 Gal Water	500/800 gal	49		hour	\$82.75
8715	Truck, Hydro Vac	model LP555DT				hour	\$18.00
8716	Leaf Vac	Tow by Truck 22,000 cfm capacity		85	Leaf Vac + Truck Code 8811	hour	\$51.25
8717	Truck, Vacuum	60,000 GVW		400	II see Let	hour	\$74.20
8719	Litter Picker	model 2007 Barber		4 . 5 .	towed by tractor	hour	\$9.60
8720	Truck, Dump	Struck Capacity	8 CY	to 220		hour	\$48.90
8721	Truck, Dump	Struck Capacity	10 CY	to 320		hour	\$60.77
8722	Truck, Dump	Struck Capacity	12 CY	to 400		hour	\$67.70
8723	Truck, Dump	Struck Capacity	18 CY	to 400		hour	\$75.50
	Truck, Dump, Off Highway	Struck Capacity	28 CY	to 450		hour	\$121.20
8725	Truck, Dump	Struck Capacity	14 CY	to 400		hour	\$77.80
	Truck, Garbage	Capacity	25 CY	to 255		hour	\$48.50
8731	Truck, Garbage	Capacity Environmental Beta Attenuation Air	32 CY	to 325	april and a second	hour	\$55.90
8733	E-BAM Services	Monitor Monitor			Powered by Solar System	hour	\$3.00
8734	Attenuator, safety	that can stop a vehicle at 60 mph			THE RESERVE TO SERVE THE PARTY OF THE PARTY	hour	\$5.50
8735	Truck, Attenuator	2004 Truck Mounted for 60 mph		1 /		hour	\$3.85
8736	Truck, tow	1987 Chevy Kodiak 70		175		hour	\$27.70
8744	Van, Custom	Special Service Canteen Truck	1,000	350		hour	\$18.00
8745	Van, step	model MT10FD	The state of the s	300	10000	hour	\$21.25
8746	Van-up to 15 passenger	light duty, class 1	Y and T	225-300	5	hour	\$20.00
8747	Van-up to 15 passenger	light duty, class 2	727	225-300	100	hour	\$20.15
	Van-cargo	light duty, class 1		225 - 300		hour	\$22.25
	Van-cargo	light duty, class 2		225-300	to the	hour	\$22.25
8750	Vehicle, Small			to 30		hour	\$6.40
8753	Vehicle, Recreational		25.90	to 10		hour	\$2.80
8755	Golf Cart	Capacity	2 person		E 7 E 1	hour	\$3.75
8761	Vibrator, Concrete	7. 10		to 4		hour	\$1.60
8770	Welder, Portable	111		to 16	Includes ground cable and lead cable.	hour	\$3.10

8771	Welder, Portable			to 34	Includes ground cable and lead cable.	hour	\$6.80
8772	Welder, Portable			to 50	Includes ground cable and lead cable.	hour	\$10.0
8773	Welder, Portable			to 80	Includes ground cable and lead cable.	hour	\$13.70
8780	Truck, Water	Tank Capacity	2500 Gal	to 175	Include pump and rear spray system.	hour	\$28.7
8781	Truck, Water	Tank Capacity	4000 Gal	to 250	Include pump and rear spray system.	hour	\$50.0
8788	Container & roll off truck	30 yds		9	THE SECOND	hour	\$23.0
8789	Truck, Tractor	1997 Freightliner F120		430	- T - 1	hour	\$54.90
8790	Truck, Tractor	4 x 2	25000 lbs	to 210		hour	\$42.40
8791	Truck, Tractor	4 x 2	35000 lbs	to 330		hour	\$46.00
8792	Truck, Tractor	6 x 2	45000 lbs	to 360		hour	\$52.7
8794	Truck, freight	Enclosed w/lift gate, Medium duty class 5	gvwr 16000-19500 Lbs			hour	\$23.25
8795	Truck, backhoe carrier	Three axle, class 8, heavy duty	over 33000Lbs			hour	\$34,50
8796	Truck, freight	Eenclosed w/lift gate. Heavy duty, class	7, 26,001 to 33,000 lbs gvwr			hour	\$31.00
8798	Truck	Tilt and roll-back, two axle, class 7 heavy duty,	to 33,000 gvwr			hour	\$32,00
8799	Truck,	Tilt and roll back, three axle. class 8 heavy duty	over 33,001+ gvwr	_ = _ =		hour	\$40.60
8800	Truck, Pickup	o neavy daty	Over 35,00 (+ gvw/		When transporting people.	mile	\$0.54
8801	Truck, Pickup	1/2-ton Pickup Truck	4x2-Axle	160	Tricit delioporarig people.	hour	\$12.30
8802	Truck, Pickup	1-ton Pickup Truck	4x2-Axle	234		hour	\$17.65
8803	Truck, Pickup	1 1/4-ton Pickup Truck	4x2-Axle	260		hour	\$19.85
8804	Truck, Pickup	1 1/2-ton Pickup Truck	4x2-Axle	300		hour	\$22.25
8805	Truck, Pickup	1 3/4-ton Pickup Truck	4x2-Axle	300		hour	\$23.10
8806	Truck, Pickup	3/4-ton Pickup Truck	4x2-Axle	165		hour	\$13.40
8807	Truck, Pickup	3/4-ton Pickup Truck	4x4-Axle	285	Crew	hour	\$20.80
8808	Truck, Pickup	1-ton Pickup Truck	4x4-Axle	340	Crew	hour	\$22,85
8809	Truck, Pickup	1 1/4-ton Pickup Truck	4x4-Axle	360	Crew	hour	\$26,40
8810	Truck, Pickup	1 1/2-ton Pickup Truck	4x4-Axle	362	Crew	hour	\$26.75
8811	Truck, Pickup	1 3/4-ton Pickup Truck	4x4-Axle	362	Crew	hour	\$27.50
8820	Skidder accessory	2005 JCB Grapple Claw	3	_ *_		hour	\$1.75
8821	Forklift, accessory	2005 ACS Grapple Bucket				hour	\$1.50
8822	Truck, Loader	Debris/Log (Knuckleboom Loader/Truck)		230		hour	\$52.26
8823	Chipper- Wood Recycler	Cat 16 engine		700		hour	\$115.00
8824	Skidder	model Cat 525B		up to 160		hour	\$62,90
8825	Skidder	40K lbs- model Cat 525C		161 and up		hour	\$118.77
8840	Truck, service	fuel and lube	up to 26,000 gvwr	215-225		hour	\$38.65
8841	Truck, fuel	2009 International 1,800 gal. storage tank		200		hour	\$30,50
8842	Mobile Command Trailer	(8' X 28') with 7.5 KW Generator				hour	\$14.66
8843	Mobile Response Trailer	(8' X 31') with 4.5 KW Generator?				hour	\$13.60
8844	Mobile Command Center	(unified) (RV) Ulitimaster MP-35	43 FT Long with Generator	400		hour	\$75.00
8845	Mobile Command Post Vehicle	(RV) (In- Motion)	22-Ft Long	340		hour	\$31.00
8846	Mobile Command Post Vehicle Mobile Command Center	(RV) (Stationary) w/9.6 KW Generator 48'x8' Trailer, Fully Equiped Mobile	22-Ft Long	340		hour	\$19,25
8847	(Trailer)	Command Center	48-Ft Long			hour	\$29.45
8848	Mobile Command Center (Trailer)	48'x8' When being Moved w/Truck Tractor 43'x8.5' x 13.5'H with self 30kw		310		hour	\$48.90
8849	Mobile Command Center	Generator				hour	\$52.00
8850	Mobile Command Center	2007-Freightliner MT-55, (RV)		260		hour	\$45.50
8851	Mobile Command Van	1990- Ford Econoline- Communication Van		230		hour	\$41.00
8852	Mobile Command Center	47.5' X 8.75 Fully Equip' (In motion) (RV)		410	- 6 ST	hour	\$65.30
8853	Mobile Command Center	47.5' X 8.75 Fully Equip' (Stationary)		410		hour	\$45.00

8854	Mobile Command Vehicle	53' X 8.75 Fully Equip		480-550		hour	\$96.20
8870	Light Tower	Terex/Amida AL 4000. with (4) 500 watt lights	w/10kw power unit	13,5		t	040.00
8871			w/ rokw power unit	13.3		hour	\$10.68
1000000	Light Tower	2004 Allmand				hour	\$6.30
8872	SandBagger Machine	(Spider) automatic OH-58 KIOWA (Military) is the		4.5		hour	\$48.75
8900	Helicopter	same as "Bell-206B3		420		hour	\$474.00
8901	Helicopter	OH-58 KIOWA (Military) is the same as "Bell-206BR		420		hour	\$496.00
8902	Helicopter	Model Bell 206-L3 Jet Range Helicopter		650	Jet Range III-Helicopter	hour	\$582.00
8903	Helicopter	Model Bell 206L1 Long Ranger		650	Long Ranger	hour	\$596.00
8904	Helicopter	Model Bell 206LT Long Range Twinranger		450	Twinranger	hour	\$780,00
8905	Helicopter	Model Bell 407 EMS- Ambulance		250		hour	\$626.00
8906	Piper-Fixed wing	Model Navajo PA-31		310		hour	\$456.00
8907	Piper-Fixed wing	PA-31-350, Navajo Chieftn twin engine		350		hour	\$487.00
8908	Sikorsky Helicopter	Model UH-60 (Blackhawk) medium lift	Medium Lift	1890	Fire Fighter Same as S70C	hour	\$2,945.00
8909	Helicopter	Model UH-A (Blackhawk) Medium lift	Medium Lift	1890	Fire Fighter	hour	\$5,504.00
8910	Boeing Helicopter	Model CH-47 (Chinook) heavy lift	Heavy Lift	2850	Fire Fighter	hour	\$10,750.00
8911	Helicopter- light utility	Model Bell 407GX - 7 seater	7-Seaters	675	Passenger Aircraft	hour	\$621.00
8912	Helicopter- light utility	Modle Bell 206L- 7 seater	7-Seaters	420	Passenger Aircraft	hour	\$596.00
8913	Helicopter	Model Bell-206L4		726		hour	\$576.00
8914	King Air 200 Turboprop Aircraft	Blackhawk King Air B200XP61		669		hour	\$1,316.00
8915	Turboprops Blackhawk Aircraft	Blackhawk Caravan XP42 A	5	850		hour	\$697,00
8916	Turboprops Blackhawk Aircraft	King Air C90 XP135 A		550		hour	\$1,075.00
8917	Aerostar Piston Aircraft	Aerostar 601P		290		hour	\$447.00
8943	Wire Puller Machine	Overhead Wire Pulling Machine		30	Overhead/Underground Wire Pulling Machine	hour	\$19.85
8944	Wire Tensioning Machine	3000 Lbs			Overhead Wire Tensioning Machine	hour	\$14.50
8945	Aerial Lift	model 2008 Genie Scissor Lift				hour	\$6.30



CITY OF APOPKA CITY COUNCIL

____ CONSENT AGENDA MEETING OF: October 3, 2018
___ PUBLIC HEARING FROM: Public Services
SPECIAL REPORTS EXHIBITS: Resolution 2018-22,

X OTHER: Resolution 2018-22 Agreement

SUBJECT: RAILROAD REIMBURSEMENT AGREEMENT FOR THE CONSTRUCTION OF

GRADE CROSSINGS AND TRAFFIC CONTROL DEVICES ON EAST 8th

STREET

REQUEST: ADOPT RESOLUTION NO. 2018-22

SUMMARY:

The Florida Department of Transportation (FDOT) and the Florida Central Railroad Company are currently under construction to improve safety on East 8th Street. The full cost of the installation for the crossing upgrade will be paid by FDOT. Per the agreement, the City will pay for fifty percent (50%) of the annual maintenance cost equaling \$3,600 per year.

Resolution No. 2018-22 authorizes the Mayor to sign the agreement with FDOT and the Florida Central Railroad Company, Inc. for the East 8th Street grade crossing and traffic control devices construction and maintenance.

FUNDING SOURCE:

Fund 101 – Six Cents Gas Tax

RECOMMENDATION ACTION:

Adopt Resolution No. 2018-22

DISTRIBUTION

Mayor NelsonFinance DirectorPublic Services DirectorCommissionersHR DirectorRecreation DirectorCity AdministratorIT DirectorCity ClerkCommunity Development DirectorPolice ChiefFire Chief

RESOLUTION NO. 2018-22

A RESOLUTION OF CITY OF APOPKA, FLORIDA, AUTHORIZING THE MAYOR TO SIGN A RAILROAD REIMBURSEMENT **AGREEMENT FOR** THE CONSTRUCTION OF RAILROAD GRADE CROSSINGS, INSTALLATION OF TRAFFIC CONTROL DEVICES RAILROAD **GRADE** CROSSINGS, AND **FUTURE MAINTENANCE** AND **ADJUSTMENT OF** CROSSINGS AND DEVICES; PROVIDING FOR THE EXPENDITURE OF FUNDS; AND PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, the State of Florida Department of Transportation is constructing, reconstructing or otherwise changing a portion of the Public Road System, on East 8th Street, which shall call for the installation and maintenance of railroad grade crossing traffic control devices for railroad grade crossing over or near said highway.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF APOPKA, FLORIDA, AS FOLLOWS:

SECTION I. That the City of Apopka enter into a RAILROAD REIMBURSEMENT AGREEMENT with the State of Florida Department of Transportation and the Florida Central Railroad Company, Inc. for the installation and maintenance of certain grade crossings and traffic control devices for grade crossings designated as Financial Project ID 44235915701, on E. 8th Street which crosses the right-of-way and tracks of the Company's milepost number ST 802.22, at Railroad Crossing No. 625271-J located in Apopka, Florida; and

SECTION II. That the City of Apopka assume its share of the costs for future maintenance and adjustment of said grade crossing traffic control devices as designated in the RAILROAD REIMBURSEMENT AGREEMENT; and

SECTION III. The Mayor is hereby authorized to enter into such agreement with the State of Florida Department of Transportation and the Florida Central Railroad Company, Inc., as herein described.

SECTION IV. This Resolution shall become effective immediately upon approval and adoption.

APPROVED AND ADOPTED by the City Council of the City of Apopka, Florida, this 3rd day of October, 2018.

	CITY OF APOPKA, FLORIDA
ATTEST:	Bryan Nelson, Mayor
Linda F. Goff City Clerk	





Florida Department of Transportation

RICK SCOTT GOVERNOR 719 S. Woodland Boulevard DeLand, Florida 32720-6834 MIKE DEW SECRETARY

August 10, 2018

Mr. Jay Davoll City of Apopka Engineer 120 East Main Street Apopka, FL 32703

Subject:

RAILROAD REIMBURSEMENT AGREEMENT GRADE CROSSING TRAFFIC CONTROL DEVICES-MUNICIPAL

FM No. 442359-1-57-01

E. 8th Street

City of Apopka

Railroad Crossing No. 625271-J

Railroad Milepost Number: ST 802.22

Orange County

Dear Jay,

Annually, the Department of Transportation assembles a District Diagnostic Team to conduct on-site evaluations of railroad crossings that have been identified as potentially hazardous. Representatives from the Department's Safety and Rail Offices and Florida Central Railroad, Inc. evaluated the above rail-highway grade crossing in Apopka. The Department proposes to install (2) flashing lights & gates, (2) pedestrian gates, Constant Warning Time, conduit, power and a signal cabinet.

The purpose of this letter is to advise you that the safety improvements identified for this crossing have been included in the Department's Adopted Work Program. The installation of the recommended signal improvements will be at the Department's expense using Federal Safety Funds, which will be encumbered after October 1, 2018.

Enclosed is one copy of the Department's standard *RAILROAD REIMBURSEMENT AGREEMENT*, *GRADE CROSSING TRAFFIC CONTROL DEVICES-MUNICIPAL* for your signature.

A copy of the fully executed Agreement will be returned to you once all parties have signed.

If you have any questions, please feel free to contact me.

Sincerely,

Jim Ganey

District Railroad Coordinator 719 S. Woodland Blvd. – MS 3-562

DeLand, FL 32720

386-943-5331

Laura Miller - FDOT

cc:

451

RAILROAD REIMBURSEMENT AGREEMENT GRADE CROSSING TRAFFIC CONTROL DEVICES - MUNICIPAL

FINANC	CIAL PROJECT NO.	ROAD NAME OR NUMBER	COUNTY NAME	PARCEL & R/W NUMBER	FAP NUMBER
44	4235915701	E. 8th STREET	ORANGE	1(75000-SIGG)	
7	THIS AGREEMENT,	made and entered into this	day of		<u>, 2018</u> ,
by and b	etween the STATE 0	OF FLORIDA DEPARTMEN	T OF TRANSPORT	ATION, hereinafter called	the
DEPART	MENT, and FLORI	DA CENTRAL RAILROAD (COMPANY, INC.		3
a corpora	ation organized and e	existing under the laws of FI	LORIDA		
with its p	rincipal place of busi	ness in the City of PLYMOL	JTH	, County of ORANGI	<u> </u>
State of	FLORIDA	, hereinafter called	d the COMPANY; ar	nd the City of APOPKA	
a municip	pal corporation, here	inafter called the CITY.			
		WIT	NESSETH:		
V	WHEREAS. the DEP	ARTMENT is constructing, r		nerwise changing a portion	n of the Public Roa
	•	nancial Project ID 442359-1	-57-01		,
on		E. 8th STREET	,	which crosses at grade th	ne right of way and
tracks of	the COMPANY'S Mi				,
	AR Crossing Number		, at or near _		· · · · · · · · · · · · · · · · · · ·
as showr	on DEPARTMENT	S Plan Sheet No. 509-100	, at	tached hereto as a part he	ereot; and
	,	in consideration of the muto	ual undertakings as	herein set forth, the partie	s hereto agree
as follow					
		NY shall furnish the necess	-		
.,,,,	-	III and/or other tr			
		e attached detailed stateme			2) the
DEPART	TMENT'S Plans and	Standard Index Number 178	382 attached hereto	and made a part hereof.	
	After installa	tion of said signals is compl	leted, fifty (50%)	percent of the e	xpense thereof in
maintair	ning the same shall b	e borne by the CITY and fit	fty (50%)	percent shall be borne	by the COMPANY
as enum	nerated by the Sched	lule of Annual Cost of Auton	natic Highway Grade	e Crossing Devices attach	ed hereto and
by this re	reference made a par	t hereof and subject to futur	e revision.		
	 After said sign 	gnals have been installed ar	nd found to be in sat	isfactory working order by	the parties hereto

the same shall be immediately put into service, operated and maintained by the COMPANY so long as said COMPANY or

hereto that the signals are no longer necessary or until the said crossing is abandoned; or legal requirements occur which

its successors or assigns shall operate the said signals at said grade crossing; or until it is agreed between the parties

shall cease operation of signals thereat.

The COMPANY agrees that any future relocation or adjustment of said signals shall be performed by the COMPANY, but at the expense of the party initiating such relocation. Upon relocation the maintenance responsibilities shall be in accordance with the provisions of this agreement. It is further agreed that the cost of maintaining any additional or replacement signal equipment at the same location will be shared as provided under Paragraph 2. above.

- 4. Unless otherwise agreed upon herein, the CITY agrees to ensure that at the crossing the advance warning signs and railroad crossing pavement markings will conform to the U.S. Department of Transportation Manual on Uniform Traffic Control Devices within 30 days of notification that the railroad signal improvements have been completed and that such signs and pavement markings will be continually maintained at an acceptable level.
- 5. The COMPANY hereby agrees to install and/or adjust the necessary parts of its facilities along said road in accordance with the provisions set forth in the:
 - (a) DEPARTMENT Procedure No. 725-080-002 Appendix D.4, and Rule 14.57.011 "Public Railroad-Highway Grade Crossing Costs", Florida Administrative Code.
 - Federal Highway Administration Federal-Aid Policy Guide, 23 C.F.R. Subchapter G, Part 646, Subpart B, and 23 C.F.R., Subchapter B, Part 140, Subpart I,

and any supplements thereto or revisions thereof, which, by reference hereto, are made a part hereof. The COMPANY further agrees to do all of such work, with its own forces or by a contractor paid under a contract let by the COMPANY, all under the supervision and approval of the DEPARTMENT and the Federal Highway Administration, when applicable.

- 6. The DEPARTMENT hereby agrees to reimburse the COMPANY for all costs incurred by it in the installation and/or adjustment of said facilities, in accordance with the provisions of Procedure No. 725-080-002 Appendix D-4 "Billing Requirements," and any supplements thereto or revisions thereof. It is understood and agreed by and between the parties hereto that preliminary engineering costs not incorporated within this agreement shall not be subject to payment by the DEPARTMENT.
- 8. All labor, services, materials, and equipment furnished by the COMPANY in carrying out the work to be performed hereunder shall be billed by the COMPANY direct to the DEPARTMENT. Separate records as to the costs of

contract bid items and force account items performed for the COMPANY shall also be furnished by the COMPANY to the DEPARTMENT.

9.	The CC	MPANY has determined that the method to be used in developing the relocation or installation cost
shall be as spe	cified for	the method checked and described hereafter:
	(a)	Actual and related indirect costs accumulated in accordance with a work order accounting
		procedure prescribed by the applicable Federal or State regulatory body.
	(b)	Actual and related indirect costs accumulated in accordance with an established accounting
		procedure developed by the COMPANY and approved by the DEPARTMENT.
	(c)	An agreed lump sum \$, as supported by a detail analysis of estimated
		cost attached hereto. (NOTE: This method is not applicable where the estimated cost of the proposed adjustment exceeds \$100,000.)
10.	The ins	tallation and/or adjustment of the COMPANY'S facility as planned ☐ will ☑ will not
involve addition	al work o	over and above the minimum reimbursable requirements of the DEPARTMENT. (If upgrading and/or
nonreimbursabl	e work is	s involved at the option of the COMPANY, then credit against the cost of the project is required
and will be gove	erned by	the method checked and described hereafter):
	(a)	% will be applied to the final billing of work actually accomplished to determine
		required credit for (betterment) and/or (expired service life) and/or (nonreimbursable segments).
	(b)	All work involving nonreimbursable segments will be performed by special COMPANY work or job
		order number apart and separate from the reimbursable portion of the work; such work or job order
		number to be The COMPANY further agrees to clearly identify such
		additional work areas in the COMPANY'S plans and estimates for the total work covered by this Agreement.
	(c)	\$ credited for betterment expired service life
		nonreimbursable segments in accord with Article 9 (c) hereinabove.
11.	It is spe	ecifically agreed by and between the DEPARTMENT and the COMPANY that the DEPARTMENT
shall receive fa	ir and ac	dequate credit for any salvage which shall accrue to the COMPANY as a result of the above
installation and	/or adjus	etment work.
12.	It is fur	ther agreed that the cost of all improvements made during this adjustment work shall be borne by
the COMPANY	, subject	t only to the DEPARTMENT bearing such portion of this cost as represents the cost of
adjustment of p	reviousl	y existing facility, less salvage credit as set forth in the immediately preceding paragraph.

DEPARTMENT with two (2) copies of its final and complete billing of all costs incurred in connection with the work performed hereunder, such statement to follow as closely as possible the order of the items contained in the estimate attached hereto. The totals for labor, overhead, travel expense, transportation, equipment, material and supplies, handling costs and other services shall be shown in such a manner as will permit ready comparison with the approved plans and estimates. Materials shall be itemized where they represent major components of cost in the relocation following the pattern set out in the approved estimate as closely as is possible. Salvage credits from recovered and replaced permanent and recovered temporary materials shall be reported in said bills in relative position with the charge for the replacement or the original charge for temporary use.

The final billing shall show the description and site of the Project; the date on which the first work was performed, or, if preliminary engineering or right-of-way items are involved, the date on which the earliest item of billed expense was incurred; the date on which the last work was performed or the last item of billed expense was incurred; and the location where the records and accounts billed can be audited. Adequate reference shall be made in the billing to the COMPANY'S records, accounts and other relevant documents. All cost records and accounts shall be subject to audit by a representative of the DEPARTMENT. Upon receipt of invoices, prepared in accordance with the provisions of the above indicated Reimbursement Policy, the DEPARTMENT agrees to reimburse the COMPANY in the amount of such actual costs as approved by the DEPARTMENT'S auditor.

- 14. Payment shall be made only after receipt and approval of goods and services unless advance payments are authorized by the DEPARTMENT's Comptroller under Section 334.044(29), F.S., or by the Department of Financial Services under Section 215.422(14), Florida Statutes (F.S.).
- 15. In accordance with Section 287.058, Florida Statutes, the following provisions are in this Agreement:

 If this Contract involves units of deliverables, then such units must be received and accepted in writing by the Contract

 Manager prior to payments. Bills for fees or other compensation for services or expenses shall be submitted in detail sufficient for a proper preaudit and postaudit thereof.

- 16. Bills for travel expenses specifically authorized in this agreement shall be submitted and paid in accordance with DEPARTMENT Rule 14-57.011 "Public Railroad-Highway Grade Crossing Costs" and the Federal Highway Administration Federal-Aid Policy Guide, Subchapter B, Part 140, Subpart I "Reimbursement for Railroad Work."
- 17. In accordance with Section 215.422, Florida Statutes, the following provisions are in this Agreement: Contractors providing goods and services to the Department should be aware of the following time frames. Upon receipt, the Department has five (5) working days to inspect and approve the goods and services, unless the Agreement specifies otherwise. The Department has 20 days to deliver a request for payment (voucher) to the Department of Financial Services. The 20 days are measured from the latter of the date the invoice is received or the goods or services are received, inspected and approved.

If a payment is not available within 40 days, a separate interest penalty at a rate as established pursuant to Section 215.422(3)(b), Florida Statutes, will be due and payable, in addition to the invoice amount, to the Contractor. Interest penalties of less than one (1) dollar will not be enforced unless the Contractor requests payment. Invoices which have to be returned to a Contractor because of Contractor preparation errors will result in a delay in the payment. The invoice payment requirements do not start until a properly completed invoice is provided to the Department.

A Vendor Ombudsman has been established within the Department of Financial Services. The duties of this individual include acting as an advocate for contractors/vendors who may be experiencing problems in obtaining timely payment(s) from a state agency. The Vendor Ombudsman may be contacted at (850) 413-5516 or by calling the Division of Consumer Services at 1-877-693-5236.

18. In the event this contract is for services in excess of TWENTY FIVE THOUSAND DOLLARS (\$25,000.00) and a term for a period of more than one year, the provisions of Section 339.135(6)(a), Florida Statutes, are hereby incorporated:

The Department, during any fiscal year, shall not expend money, incur any liability, or enter into any contract which, by its terms, involves the expenditure of money in excess of the amounts budgeted as available for expenditure during such fiscal year. Any contract, verbal or written, made in violation of this subsection is null and void, and no money may be paid on such contract. The Department shall require a statement from the Comptroller of the Department that such funds are available prior to entering into any such contract or other binding commitment of funds. Nothing herein contained shall prevent the making of contracts for periods exceeding one year, but any contract so made shall be executory only for the value of the services to be rendered or agreed to be paid for in succeeding fiscal years; and this paragraph shall be incorporated verbatim in all contracts of the Department which are for an amount in excess of TWENTY FIVE THOUSAND DOLLARS (\$25,000.00) and which have a term for a period of more than one year.

19. In accordance with Section 287.133 (2)(a), Florida Statutes, the following provisions are included in this Agreement:

A person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a bid, proposal, or reply on a contract to provide any goods or services to a public entity; may not submit a bid, proposal, or reply on a contract with a public entity for the construction or repair of a public building or public work; may not submit bids, proposals, or replies on leases of real property to a public entity; may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity; and may not transact business with any public entity in excess of the threshold amount provided in s.287.017 for CATEGORY TWO for a period of 36 months following the date of being placed on the convicted vendor list.

20. In accordance with Section 287.134(2)(a), Florida Statutes, the following provisions are included in this Agreement:

An entity or affiliate who has been placed on the discriminatory vendor list may not submit a bid, proposal, or reply on a contract to provide any goods or services to a public entity; may not submit a bid, proposal, or reply on a contract with a public entity for the construction or repair of a public building or public work; may not submit bids, proposals, or replies on leases of real property to a public entity; may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity; and may not transact business with any public entity.

21. In accordance with Section 287.0582, Florida Statutes, the following provision is included in this Agreement:

The Department's obligation to pay under this section is contingent upon an annual appropriation by the Florida Legislature.

22. The COMPANY covenants and agrees that it will indemnify and hold harmless the DEPARTMENT and all of the DEPARTMENT'S officers, agents, and employees from any claim, loss, damage, cost charge, or expense arising out of any act, action, neglect, omission or delay by the COMPANY during the performance of the contract,

whether direct or indirect, and whether to any person or property to which the DEPARTMENTor said parties may be subject, except that neither the COMPANY nor any of its sub-contractors will be liable under this section for damages arising out of injury or damage to persons or property directly caused or resulting from the sole negligence of the DEPARTMENT or any of its officers, agents, or employees.

23. COMPANY shall:

- 1. utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the COMPANY during the term of the contract; and
- expressly require any subcontractors performing work or providing services pursuant to the state contract to likewise utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the subcontractor during the contract term.
- 24. It is understood and agreed by the parties to this Agreement that if any part, term, or provision of this Agreement is held illegal by the courts or in conflict with any law of the State of Florida, the validity of the remaining portions or provisions shall not be affected, and the rights and obligations of the parties shall be construed and enforced as if the Agreement did not contain the particular part, term, or provision held to be invalid.
- 25. Any questions or matters arising under this Agreement as to validity, construction, enforcement, performance, or otherwise, shall be determined in accordance with the laws of the State of Florida. Venue for any action arising out of or in any way related to this Agreement shall lie exclusively in a state court of appropriate jurisdiction in Leon County, Florida.
 - 26. The parties agree to bear their own attorney's fees and costs with respect to this Agreement.
- 27. The parties agree that this Agreement is binding on the parties, their heirs-at-law, and their assigns and successors in interest as evidenced by their signatures and lawful executions below.
- 28. A modification or waiver of any of the provisions of this Agreement shall be effective only if made in writing and executed with the same formality as this Agreement.
- 29. Upon execution of this agreement by all parties and after all signal improvements have been placed in service, the Signal Agreement dated October 19, 1981 shall be terminated (Copy attached).

IN WITNESS WHEREOF, the parties hereto have caused these presents to be executed by their duly authorized officers, the day and year first above written.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION BY: (TITLE: Director of Transportation Operations COMPANY: Florida Central Railroad Company, Inc. BY: (TITLE: Apopka , FLORIDA CITY OF BY: (TITLE: Approved as to Funds Approved as to FAPG Legal Review Available Requirements BY: BY: BY:

Comptroller - DOT

Date

FHWA

Date

Attorney - DOT

Date

RAILROAD GRADE CROSSING TRAFFIC CONTROL DEVICES ANNUAL MAINTENANCE COSTS

FINANCIAL PROJECT NO.	ROAD NAME OR NUMBER	COUNTY NAME	PARCEL & R/W NUMBER	FAP NUMBER
44235915701	E. 8th STREET	ORANGE	1(75000-SIGG)	

COMPANY NAME:	FLORIDA CENTRAL RAILROAD COMPA	NY, INC.			
A. FDOT/AAR XING NC	D.: 625271-J	RR MILE POST	TIE: _	ST-802.22	
B. TYPE SIGNALS PRO	DPOSED III	CLASS III	DOT	INDEX: 509-100	

SCHEDULE OF ANNUAL COST OF AUTOMATIC HIGHWAY GRADE CROSSING TRAFFIC CONTROL DEVICES

Annual Maintenance Cost Exclusive of Installation **CLASS DESCRIPTION** COST* 2-Quadrant Flashing Lights with One Track \$2,386.00 2-Quadrant Flashing Lights with Multiple Tracks \$3,158.00 11 Ш 2-Quadrant Flashing Lights and Gates with One Track \$3,600.00 IV 2-Quadrant Flashing Lights and Gates with Multiple Tracks \$4,520.00 3 or 4-Quadrant Flashing Lights and Gates with One Track \$7,116.00 3 or 4-Quadrant Flashing Lights and Gates with Multiple Tracks VI \$8,930.00

AUTHORITY:

FLORIDA ADMINISTRATIVE RULE 14-57.011

Public Railroad-Highway Grade Crossing Costs

EFFECTIVE DATE:

July 22, 1982

GENERAL AUTHORITY:

334.044, F.S.

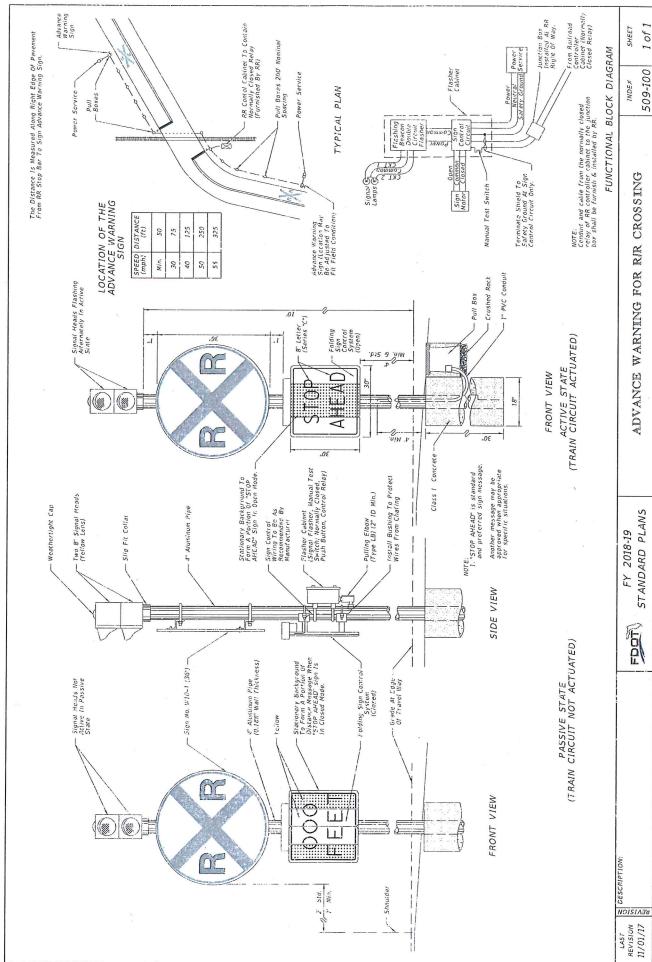
SPECIFIC LAW IMPLEMENTED:

335.141, F.S.

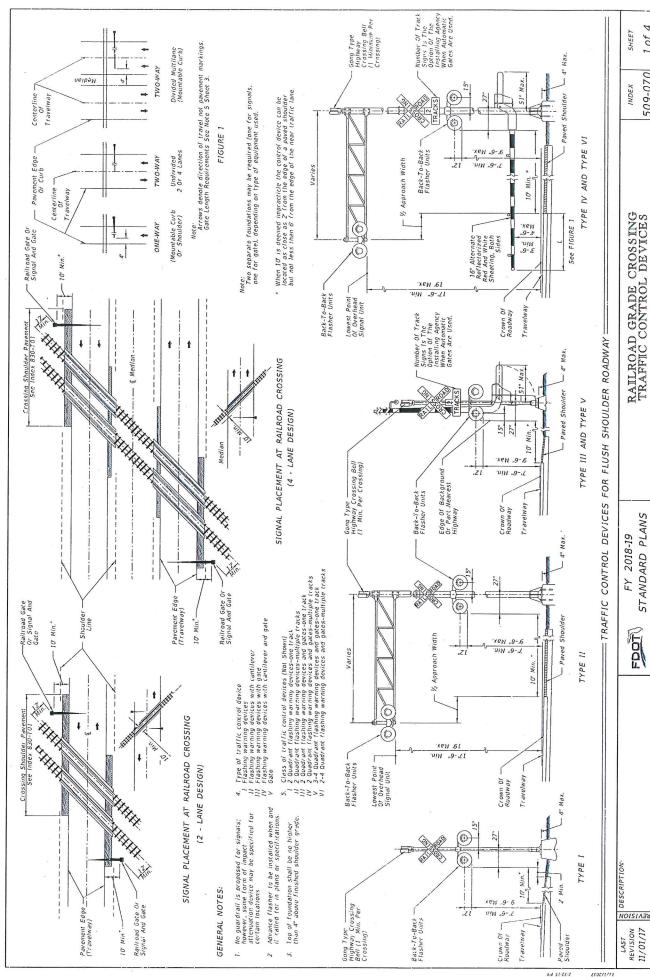
^{*}This schedule will become effective July 1, 2016 and will be reviewed every 5 years and revised as appropriate based on the Consumer Price Index for all Urban Consumers published by the U.S. Department of Labor.

Crossing Name Emerald Rd (Ocala) FN	FDOT# DOT# 6272259	Scope Of Work Material, labor, expenses and equipment to replace and install (2) new gate mechanisms and	Price \$77,750.17
merald Rd (Ocala) FN	DOT# 627225P	Material, boor, expenses and equipment to replace and install (2) new gate methanisms and replace SCX with PMD-3. Price includes all required field materials consisting of the cable, conduits, rail bonds, track connection kits, and all other miscellaneous materials to complete the new signal system.	\$77,750.17
Oak Rd. (Ocala)	DOT# 627226W	Material, labor, expenses and equipment to replace SCX with PMD-3. Price includes all required field materials consisting of the cable, conduits, rail bonds, track connection kits, and all other miscellaneous materials to complete the new signal system.	\$42,572.47
. Mt. Homer Rd. (Tavares)	DOT# 622004V	Material, labor, expenses and equipment to install new flasher and gate type signals equipped with 12° LED light units and pole mounted bells. Price includes a new factory wired shelter using a XP-4 for train detection equipment. Price includes all required field materials consisting of the cable conduits, rail bonds, track connection kits, ac meter service and all other miscellaneous materials to complete the new signal system.	\$191,815.24
R-452/Lake Dora Dr. (Tavares)	DOT# 621998L	Material, labor, expenses and equipment to install (3) new flasher and gate type signals equipped with 12 'ED light units and pole mounted belis and (3) Ped gate. Price includes a new factory wired shelter using a XP4-with remote for train detection equipment. Price includes all required field materials consisting of the cable, condults, rail bonds, track connection kits, ac meter service and all other miscellaneous materials to complete the new signal system.	\$294,970.83
Vest Ponkan Rd. (Αραρία)	DOT# 625240K	Material, labor, expenses and equipment to install new flasher and gate type signals equipped with 12° LED light units and pole mounted bells. Price includes a new factory wired shelter using a XP-4 for train detection equipment Price includes all required field materials consisting of the cable, conduits, rail bonds, track connection kits, ac meter service and all other miscellaneous materials to complete the new signal system.	\$191,815.24
Sethune Ave. (Winter Garden)	DQT# 621887U	Material, labor, expenses and equipment to install new flasher and gate type signals equipped with 12" LED light units and pole mounted bells. Price includes a new factory wired shelter using T-Boss with remote for train detection equipment and (1) pedestrian gate. Price includes all required field materials consisting of the cable, conduits, rail bonds, track connection kits, ac meter service and all other miscellaneous materials to complete the new signal system. Reuse existing short concrete power pole.	\$184,275.41
R-438/W. Silverstar (Winter Gardon)	DOT# 621879C	Material, labor, expenses and equipment to install new flasher and gate type signals equipped with 12° LED light units and pole mounted bells. Price includes a new factory wired shelter using an PMD- 3 for train detection equipment. Price to include one pedestrian gate. Price includes all required field materials consisting of the cable, conduits, rail bonds, track connection hits, a center's service and all other miscellaneous materials to complete the new signal system. Includes removal of existing (2) cantilevers.	\$200,466.16
illiam Rd. (Winter Garden)	DOT# 621861S	Material, labor, expenses and equipment to install new flasher and gate type signals equipped with 12° LED light units and pole mounted bells. Price includes a new factory wired shelter using a PMD-3 with shant enhancer for train detection equipment. Price includes all required field materials consisting of the cable, conduits, rail bonds, track connection kits, ac meter service and all other miscellaneous materials to complete the new signal system.	\$178,907.67
V. 4th St. (Αρορ< a)	DOT# 625266M	Material, labor, expenses and equipment to install new flasher and gate type signals equipped with 12° LED light units and pole mounted bells. Price includes a new factory wired shelter using a XP-4 for train detection equipment. Price includes all required field materials consisting of the cable, conduits, rail bonds, track connection kits, ac meter service and all other miscellaneous materials to complete the new signal system.	\$181,815.24
Sth St. (Anopka)	DOT# 625271J	Materia), labor, expenses and equipment to install new flather and gate type signals equipped with 12° LED light units and pole mounted bells. Price includes a new factory wired sweler using XP-4 for train detection equipment. Price includes (2) ped gates and all required field materials consisting of the cable, condusts, rall bonds, track connection kits, ac meter service and all other miscelianeous materials to complete the new signal system. Remove existing 8.05 k.; equipment from the nearby	\$243,970.93
		Orange Trail bungalow.	
10-20-11-11-11-11-11-11-11-11-11-11-11-11-11	DOT# 625273X	Marie la	\$191,815.24
, Highland Ave. (Apopka)	1901# 6252738	Material, labor, expenses and equipment to install new flasher and gate type signals equipped with 22" LED light units and pole mounted belis. Price includes a new factory wired shelter using XP-4 for train detection equipment. Price includes all required field materials consisting of the cable, conduits, rail bonds, track connection kits, ac meter service and all other miscellaneous materials to complete the new signal system.	3191,015.24
ulcan Rd. (Apopka)	DOT# 625278G	Material, labor, expenses and equipment to install new flasher and gate type signals equipped with 12° LED light units and pole mounted bells. Price includes a new factory wired shelter using a XP-4 with remote for train detection equipment. Price includes all required field materials consusting of the cable, conduist, rail bonds, track connection kits, ac meter service and all other miscellaneous materials to complete the new signal system.	\$191,815.24
S-441/Orange Blossom (Orlando)	DOT# 622365A	Material, labor, expenses and equipment to remove and replace (2) cantilevers with (2) new cantilevers equipped with 12° LEO light units. Price to lunchude (1) pedestrian gate equipped, Price includes all required field materials consisting of the cable, conduits, as meter service and all other miscellaneous materials to complete the new signal system. Price to include upgrding of existing shelf relays to plug in relays.	\$187,522.55
V. New Hampshire St (Grlando)	DOT# 622360R	Material, labor, expenses and equipment to install new flasher and gate type signals equipped with 12° LED light units and pole mounted bells. Price includes a new factory wired shelter using T-Boss with remote for train detection equipment. Price includes all required flield materials consisting of the cable, conduits, rail bonds, track connection kits, are meter service and all other miscellaneous material's to complete the new signal system. Add sidelights and new curb in S.W. quad.	\$177,888.50
IW 1st St (Newberry)	DOT# 622497K	Material, labor, expenses and equipment to install new flasher and gate type signals equipped with 12° (ED light units and pole mounted belts with side lights. Price includes a new factory wired shelter using a PMO-3 with remote for train detection equipment. Price includes all required field materials consisting of the rable, conduits, sul bloods, track connection kits, ac meter service and all other miscellaneous materials to complete the new signal system.	\$177,134.04

Crossing No: 625271	J Roadway: E 8TH S	ST	RR S	treet: Di	strict: 5 Count	y: O	range
PUBLIC HWY	AT GF	RADE Industri	ial City:	Apopka IN CITY OF	PENTRACK AC	CTIV	Ε
Rank 2016: Rank 2015: 2200 Rank 2014: Field Review Comment	SR No.: CR No.: US No.: Latitude: Longitude: s: Upgrade from FL's to FL	28.668200 -81.510000 -&G's	RR Com Division Subdivis Branch RR Mile	Name: TAMPA sion Name: ORLANDO Name: ST 830	Team Members:		
Team Recommendation	s: 2-FL&G's, a cabinet, C\	NT, 2- ped gates	s, cable, cond	uit & power.			
Highway Speed:		30		Train Speed Range:	5-25		
Crossing Angle:	30-59			Max Time Table Speed:	25		
AADT:	6873 (2	Research and the second		Day Thru/Switch:	0/2		
Percent Trucks:		2009)		Night Thru/Switch:	0/0		
School Buses:	시간을 받아 되는 경기를 느낀다는 그리면 된 그리고 있다.	2016)		Train Service: Freight		Ш	
Street Types:	Two-Way S			Passenger Count/Day:	0		
Thru Lanes:		2		Train Count Date:	10/17/2011		
Aux Lanes:				Main Tracks:	1	닏	
Hazmat Route? Emergency Services	Douto?	YES		Other Tracks:			
THE RESERVE TO SERVE THE PARTY OF THE PARTY		NO \square		Train Signals?	NO		
Emergency Notification Crossbuck(4x4 post):				Train Signal Proximity:	NO		
Crossbuck Sign:		2		Train Detection: Constant W		님	
Stop Sign:				Event Recorder?		H	
Yield Sign:				Number of Bells:	2	H	
Low Ground Clearand	ce Signs:	。旧		Post Mounted Flashing Lights:	2	片	
Exempt Signs:	oc olgris.	NO		Backlights, Ir	candescent	IH	
Trespass Signs:		NO 🗆		Roadway Gate Count:	0	ΙĦ	
W10-1 2	R10-6a 0	THE REPORT OF THE PARTY OF THE	V8-1 0	Pedestrian Gate Count:	. 0	同	
W10-2 0	R11-2 0	W	10-8 0	Gates:		Ī	
W10-3 0	R15-2P 0	W	10-9 0	Cantilevered Flashing Over Traffic:	0		
W10-4 0	R15-6 0	W10					
W10-11 0	R15-6a 0	W10-		Cantilevered Flashing Not Over Tra	affic: 0		
W10-12 0	R15-7 0	W10-		Intersecting Roadway?	YES		
R3-1a 0	R15-7a 0	W10-	110	Signalized?	NO		
R3-2a 0	R15-8 0			Interconnection: Not Inte	erconnected		
Particular and the second		W10-	171	Traffic Signals Controlling?	N		
THE SECOND SECOND SECOND		W10-1	ICI	Preemption:			
		W10-	1914	Traffic Pre-Signals?	NO		
	8-8 w/Beacon 0		Slow 0	8" Count:	0	П	
R8-10a 0	W3-1	W10-1w/Bea		12" Count:	4	百	
R10-6 0	W3-3	LED S	igns 0	LED Count:	0	同	
Surface Installment D	ate:			Install - Upgrade: 01/18/1983		百	
Surface Type:		RUBBER		Maintenance Responsibility:	CITY		
Pvmt Mrk:	STOPLINES AND XING S	SYMBOLS		Roadway Paved:	YES	П	
Surface Condition:	EXC	ELLENT		Tracks run down street?	NO		
Approach:	LOS B =	Uneven		Sidewalks on Crossing Approach?	YES		
Vehicle Reaction:	LOS B =	Vibrating			YES	F	
Driver Reaction:	LOS A = No	reaction		Sidewalks Thru Crossing?	YES		
Rail/Pad Movement:	LOS A =	Smooth		Crossing illuminated?	YES	П	
Incident History:				Commerical Power?	NO	H	
•				Alternative Power? Recommended Warning Device: F		Ш	461
				The confine naca wanting Device.			



188L1 # Q70



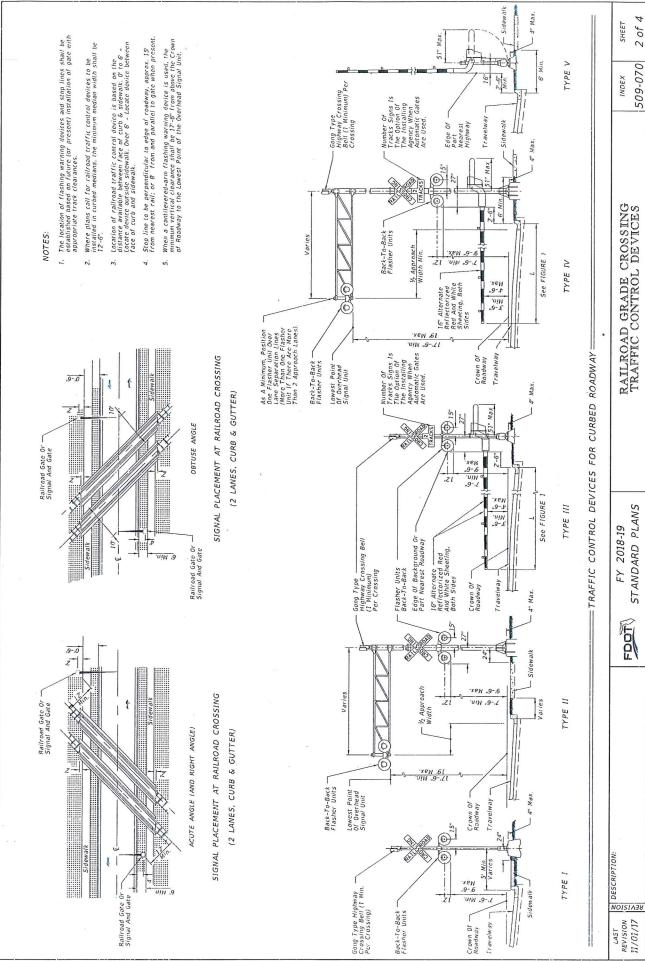
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509-070

STANDARD PLANS

2384) # Q70



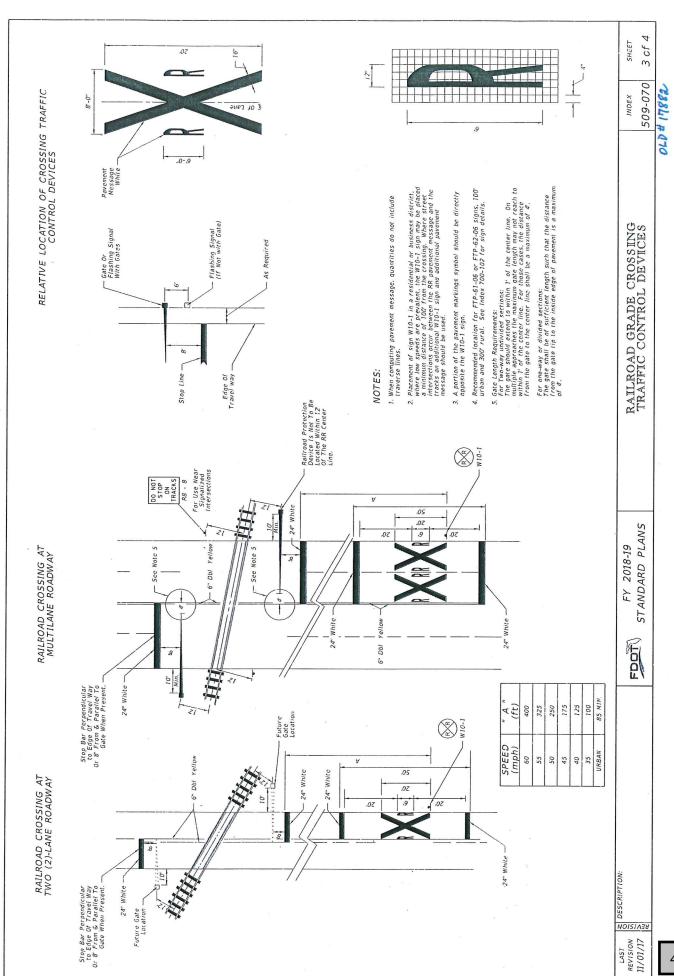
2 of 4 SHEET

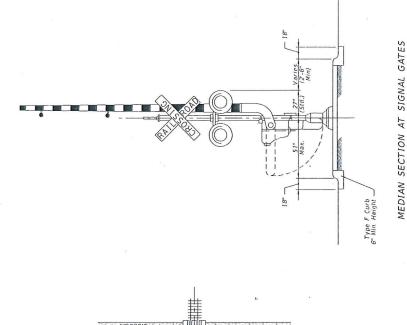
> 509-070 288W # 970

INDEX

RAILROAD GRADE CROSSING TRAFFIC CONTROL DEVICES

STANDARD PLANS





MOTE; Powaditional information see the "Manual On Uniform Traffic Control Powiecs", Park VIII; and AASHTO "A Policy On Geometric Design Of Streets And Highways",

RAILROAD GATE ARM LIGHT SPACING

PLAN

.niM .02 JZ Min.

Crown Of Roadway

4.-6" Max. 3.-6" Min.

Red Flashing Lights

Red Steady Burn

Specified Length Of Gate Arm

MEDIAN SIGNAL GATES FOR

MULTILANE UNDIVIDED URBAN SECTIONS

(THREE OR MORE DRIVING LANES IN ONE DIRECTION, 45 MPH OR LESS)

DESCRIPTIO			
-	015	IΛЭ	Я
LAST	REVISION	11/01/17	

Specified Length Of Gate Arm	Dimension "A"	Dimension "B"	Dimension "C"
14 Ft.	.9	36"	5,
. 15 Ft.	18"	36"	5,
16-17 Ft.	24"	36"	.55
18-19 Ft.	28"	41"	5.
20-23 Ft.	28"	. 4,	5,
24-28 Ft.	28"	. 2	5,
29-31 Ft.	36"	. 9	.9
32-34 Ft.	36"	7.	7.
35-37 Ft.	36"	9.	.6
38 And Over	36"	10'	10.

FDOT

STANDARD PLANS FY 2018-19

RAILROAD GRADE CROSSING TRAFFIC CONTROL DEVICES

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FORM 722-40(SCL) 1-80 PAGE 1 OF 3

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION DIVISION OF ROAD OPERATIONS

RAILROAD REIMBURSEMENT AGREEMENT GRADE CROSSING TRAFFIC CONTROL DEVICES AND FUTURE RESPONSIBILITY (Municipal)

Umage.	Posting:
	0B
STATUS	06

THIS AGREEMENT, made and entered into this 19 day of October, 1984, by and between the STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION, hereinafter called the DEPARTMENT, and SEABOARD COAST LINE RAILROAD COMPANY,
75 000 6952 8th St. Orange 1 (Sig-B) RRP-0005-(102) CONSTRUCT 5530 THIS AGREEMENT, made and entered into this 19 day of octobe, 1981, is said between the STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION, hereinafter called the DEPARTMENT, and SEABOARD COAST LINE RAILROAD COMPANY
THIS AGREEMENT, made and entered into this 19 day of octobe, 1981, by and between the STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION, hereinafter called the DEPARTMENT, and SEABOARD COAST LINE RAILROAD COMPANY,
by and between the STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION, hereinafter called the DEPARTMENT, and SEABOARD COAST LINE RAILROAD COMPANY
called the DEPARTMENT, and SEABOARD COAST LINE RAILROAD COMPANY
called the DEPARTMENT, and SEABOARD COAST LINE RATEROAD COMPANY
7
a corporation, with its principal place of business in the City of, JACKSONVILLE,
County of DUVAL , State of FLORIDA , hereinafter called the
COMPANY; and APOPKA, FLORIDA
a municipal corporation, hereinafter called the CITY.
WITNESSETH:
WHEREAS, the DEPARTMENT is constructing, reconstructing or otherwise changing a portion
of the State Highway System, designated by the DEPARTMENT as Job No. 75000-6952,
between SCL RAILROAD and 8th STREET,
which crosses at grade the right-of-way and tracks of the COMPANY at a point
feet SOUTHEAST from the COMPANY'S Milepost ST-802, FDOT/AAR Crossing
Number 625271-J, at or near APOPKA, FLA.
as shown on DEPARTMENT'S Plan Sheet No. ONE (1), attached hereto as a
part hereof; and
WHEREAS, the work contemplated hereunder is subject to the provisions of the Federal Highway
Administration Federal Aid Highway Program Manual, Volume 1, Chapter 4, Section 3 (F.HPM 1-4-3),
as amended, and Federal Aid Highway Program Manual, Volume 6, Chapter 6, Section 2, Subsection 1
(FHPM 6-6-2-1), as amended, and DEPARTMENT'S Rule 14-46.02, Florida Administrative Code, as
amended.
NOW, THEREFORE, in consideration of the mutual undertakings as herein set forth, the
parties hereto agree as follows:
A. The COMPANY shall:
1. Install by its own forces, with supervision and approval of the DEPARTMENT, at an
estimated cost of \$42.800.00 , itemization of which is attached hereto,
automatic railroad grade crossing traffic control devices, hereinafter called "Devices", at said
location, in accordance with (1) the attached detailed statement of the work, plans and specifications;

(2) the DEPARTMENT'S Plans and Standards Index Number 17882, and (3) FHPM 1-4-3 and FHPM

6-6-2-1, or Rule 14-46.02, all of which by reference are made a part hereof.

- 2. Provide protective services in accordance with U. S. Department of Transportation Manual of Uniform Traffic Control Devices during the performance of the work, as indicated in the attached plans and specifications, the cost of which is included in the attached cost estimate.
- 3. Render the DEPARTMENT a final bill, in accordance with applicable Federal or State regulations, within one hundred eighty (180) days from the completion date of the project, for all actual reimbursable identified charges including credits for salvage or betterments, if any, attributable to the project; and itemize all substantial charges in a form comparable to the charges contained in the cost estimate.
- 4. Operate and maintain said devices and perform any adjustment, relocation or replacement of said devices; the cost therefor shall be assumed or apportioned in accordance with Paragraph C. below.

B. The DEPARTMENT shall:

- 1. Promptly reimburse the COMPANY for all actual costs attributable to the project, pursuant to Paragraph A.1., as billed by the COMPANY, pursuant to Paragraph A.3.
 - 2. Retain ten per cent from any progress payment.

C. The PARTIES agree:

- 1. That the cost for the operation and maintenance of the devices by the COMPANY shall be shared as follows:
- (a) Fifty percent (50%) shall be borne by the CITY and fifty percent (50%) shall be borne by the COMPANY, in accordance with the attached Schedule of Annual Cost of Automatic Highway Grade Crossing Traffic Control Devices, subject to future revision.
- 2. The cost of any adjustment, relocation or replacement of said devices shall be assumed by the party initiating such action, unless otherwise provided for in this contract, existing contracts between the parties, or in existing contracts between one of the parties and a third party.
- 3. Each party does hereby indemnify and hold harmless each other from all liability, claims and judgments (including attorney's fees) arising out of work undertaken by any such party pursuant to this agreement, due to the negligent acts or omissions of their contractors, subcontractors, employees, agents or representatives, respectively, except as otherwise covered by bonds or insurance. This provision is a reciprocal covenant and in the event any portion hereof is found by a court of competent jurisdiction to be unenforceable, then this entire Article C.3. shall thereafter be unenforceable in all respect.

4. Any provision contained in any existing contract relating to said crossing, whether between the parties hereto and/or third parties, shall be, and does, remain in full force and effect, except as otherwise provided herein.

IN WITNESS WHEREOF, the parties hereto have caused these presents to be executed by their duly authorized officers, and their official seals hereto affixed, the day and year first above written.

STARL OF FLORIDA STARL OF FLORIDA DEPARTMENT OF TRANSPORTATION APPL 6 1981 BY: Deputy Secretary for Administration ATTEST: Deputy Secretary Executive Secretary	(SEAL)
BY: SEABOARD COAST LINE RAILROAD COBY: Secretary Assistant	MPANY (SEAL)
CITY OF APOPKA, FLORIDA BY: (Title: ATTEST: The Mayor ATTEST: The	(SEAL)
Approved as to Form, Legality and Execution STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION BY: Assistant Attorney	Examined and Approved: 11-20-8/ Date Division Administrator Federal Highway Administration

RESOLUTION NO. 8107

A RESOLUTION AUTHORIZING EXECUTION OF A RAILROAD REIMBURSEMENT AGREE-MENT FOR FUTURE RESPONSIBILITY OF GRADE CROSSING TRAFFIC CONTROL DEVICES WITHIN THE RIGHT-OF-WAY LIMITS HEREINAFTER DESCRIBED AND PROVIDING WHEN THIS RESOLUTION SHALL TAKE EFFECT.

On motion of Councilman Alonzo Williams, Jr.
seconded by Councilman Richard L. Mark , the following
Resolution was adopted:

WHEREAS, the State of Florida Department of Transportation is constructing, reconstructing or otherwise changing a portion of the State Highway System, between SCL Railroad and 8th Street, which shall call for the installation and maintenance of railroad grade crossing traffic control devices for railroad grade crossings over or near said highway.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF APOPKA, FLORIDA:

That the City of Apopka enter into a RAILROAD REIMBURSEMENT AGREEMENT with the State of Florida Department of Transportation and the SCL Railroad Company for the maintenance of certain grade crossing traffic control devices designated as Job No. 75000-6952 on 8th Street, which crosses the right-of-way and tracks of the Company at FDOT/AAR Crossing Number 625271-J located near Apopka, Florida; and

That the City assume its share of the costs for future maintenance and adjustment of said grade crossing traffic control devices as designated in Paragraph c-l-a of the Railroad Reimbursement Agreement; and

That the Mayor and City Clerk be authorized to enter into such agreements with the State of Florida Department of Transportation and the SCL Railroad Company as herein described; and

That this RESOLUTION shall take effect immediately upon adoption.

INTRODUCED AND PASSED by the City Council of the City of Apopka, Florida, in regular session this <u>2nd</u> day of September, 1981.



THE FAMILY LINES RAIL SYSTEM

COMMUNICATIONS AND SIGNALS DEPARTMENT 500 Water Street Jacksonville, Florida 32202

Telephone (904) 359-1314

ROBERT D. LIGGETT
Ch ef Communications and Signals Officer

February 17, 1982

12-Apopka, Fla. (8th Street) ELJ

Jank JAA .

Mr. J. M. Haynie
District Utility Engineer
Florida Department of Transportation
P. O. Box 47
DeLand, Florida 32720

Dear Mr. Haynie:

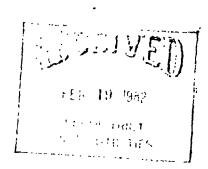
Reference your Section 75000-6952 concerning installation of grade crossing warning devices at 8th Street, Milepost ST-802.22, Crossing 025271 J, Apopka, Fla.

Per your request, the signal located in the southwest quadrant will be relocated to twelve (12) feet from edge of travelway instead of ten (10) feet as shown on the preliminary drawing.

The final plans will so indicate.

Yours very truly,

Chief Engineer Signals



Florida

Department of Transportation

JACOB D. VARN SECRETARY

BOB GRAHAM GOVERNOR

> P.O. Box 47 DeLand, FL 32720 January 26, 1982

Mr. R. D. Liggett Chief Communications and Signals Officer Seaboard Coast Line Railroad Company 500 Water Street Jacksonville, FL 32202

Attn: Mr. E. L. Johnson

Re: Section 75000-6960; State Road (8th Street)

75000-6952;

Orange County ; Parcel #1 (R/W Sig-B) Crossing No. 625271-J; M.P. No. ST-802.22 FAP No. RHS-000S(256); W.P. No. 524119

Dear Mr. Liggett:

Referring to my telephone conversation on January 25, 1982, with Mr. E. L. Johnson, we are requesting that you revise your plans and drawings to show the Signal in the S.W. quadrant of the above referenced project at twelve feet (12') from edge of pavement and twenty-four feet (24') from center line of tracks, in lieu of ten feet (10') from edge of pavement as originally shown.

This change was necessary to gain authorization from F.H.W.A.

Thank you for your cooperation in handling this matter.

Yours truly,

J. M. Haynie District Utility Engineer

C. L. Froedlan

C. L. Fordham
Ass't. District Railroad Coordinator

JMH/CLF/11b

cc: Mr. E. M. Salley, P. E. State Utility Engineer.

SEABOARD COAST LINE RAILROAD COMPANY

To: Florida Department of Transportation.

Project Ref. 75000-6952

Location: Apopka, Fla.

SCL Mile Post: ST-802.22

Route: 8th Street

Drawing No.

Crossing Inv. No. 625271 J

County: Orange

Description: Install highway crossing flashing light signals and bell.

•	Estimated Co)\$1

Material Cost	\$22,700			
Sales Tax	908			
Handling	1,135	,		
Transportation to Project	50			
Total Material Cost		\$24,793		
Credit for Released Material		00		
Net Material Cost			\$24,793	
Engineering		970		
Plus Composite Additive		533		
Total Engineering			1,503	
Construction Labor		6,310		
Plus Composite Additive		2,968		
m. t. 3. Garatemation Labor			9,278	

Total Construction Labor	3,270
Supplemental Annuity on Labor	77
Meal Allowance and Lodging	1,722
Transportation of Equipment to Project	120

			1,416
· Equipment	Rental		•

Estimated Material and Labor Cost	\$38,909
	3,891
Contingencies TOTAL ESTIMATED COST	\$42,800
Railmoad Portion	. 00

Outside Party Estimated Cost

Office of Chief Communications and Signals Officer Jacksonville, Fla. Date: 7-27-81-cvs

\$42,800

SEABOARD COAST LINE RAILROAD COMPANY

To: Florida Department of Transportation.

Project Ref .: County: Orange 75000-6952

Location: Apopka, Fla.

ST-802.22 SCL Mile Post: Drawing No.

Route: 8th Street Crossing Inv. No. 625271 J

Description: Install highway crossing flashing light signals and bell.

Estimate of Signal Material and Cost

1 - Lot Control Equipment, including cases, control apparatus, rectifiers, lightning protective devices, etc.

\$8,778

1 - Lot Field Materials, including foundations, pipe, cables, battery battery boxes, insulated rail joints, etc.

11.349

2 - Signal Assembly, complete with 4 lamp units

2,573

Material Cost

\$22,700

Office of Chief Communications and Signals Officer Jacksonville, Fla. Date 7-27-81-cvs

FORM 722-48 7-77 PAGE 1 OF 1

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION DIVISION OF ROAD OPERATIONS

RAILROAD GRADE CROSSING TRAFFIC CONTROL DEVICES

COUNTY	SECTION	UTILITY JOB NO.	STATE ROAD NO.	COUNTY NAME	PARCEL & R/W JOB NO.	FAPNO
75	000	6952	8th Street	Orange	1 (Sig~B)	RRP-000S-(102)
				AGENCY		
		SEA	ABOARD COAST L	INE RAILROAD C	OMPANY	

Α.	JOB DESCRIPTION & LOCATION: Railroad Signal Installation: (.1 Mile E. of SR 43	5
В.	(in Apopka, Fla. TYPE OF ROADWAY FACILITY: 2-Lane Rural	
C.	FDOT/AAR XING NO.: 625271-J RR MILE POST TIE: ST-802.22	
D.	TYPE SIGNALS PROPOSED: I CLASS I INDEX: 17882	

SCHEDULE OF ANNUAL COST OF AUTOMATIC HIGHWAY GRADE CROSSING TRAFFIC CONTROL DEVICES

W.P.#524119

	Annual Maintenance Cost Exclusive of Installation	
CLASS	DESCRIPTION	COST*
I	Flashing Signals - One Track	\$ 650.00
11	Flashing Signals - Multiple Tracks	\$ 860.00
III	Flashing Signals and Gates - One Track	\$ 980.00
IV	Flashing Signals and Gates - Multiple Tracks	\$1,230.00

AUTHORITY:

FLORIDA ADMINISTRATIVE RULE 014-46.02

Responsibility for the Cost of Automatic Highway Grade Crossing Traffic Control Devices

EFFECTIVE DATE:

February 3, 1971

GENERAL AUTHORITY:

20.05, F.S.

SPECIFIC LAW IMPLEMENTED:

338.21, F.S.